

МИНИСТЕРСТВО ЗДРАВООХРАНЕНИЯ РЕСПУБЛИКИ БЕЛАРУСЬ
БЕЛОРУССКИЙ ГОСУДАРСТВЕННЫЙ МЕДИЦИНСКИЙ УНИВЕРСИТЕТ
КАФЕДРА ЛАТИНСКОГО ЯЗЫКА

А. З. ЦИСЫК

ЛАТИНСКИЙ ЯЗЫК

T
L

Рекомендовано Учебно-методическим объединением по высшему медицинскому, фармацевтическому образованию в качестве учебно-методического пособия для студентов учреждений высшего образования, обучающихся по специальности

1-79 01 01 «Лечебное дело»
LANGUAGE
3-е издание, переработанное



Минск БГМУ 2018

ББК 81.2.Лат.–923
Ц73

Рецензенты: доц. каф. иностранных языков Гомельского государственного медицинского университета С. А. Лин; каф. классической филологии Белорусского государственного университета

Цисык, А. З.

Ц73 Латинский язык = The Latin Language : учебно-методическое пособие / А. З. Цисык. – 3-е изд., перераб. – Минск : БГМУ, 2018. – 202 с.

ISBN 978-985-21-0158-5.

Состоит из фонетического раздела и трех основных разделов учебного материала — анатомического, фармацевтического и клинического. Каждый из этих разделов содержит теоретическую и практическую части, латинско-английский и английско-латинский словарь. С эквивалентами на английском языке представлены профессиональные медицинские выражения, латинские афоризмы и текст международного студенческого гимна «Гаудеамус». Первое издание вышло в 2010 году.

Предназначено для иностранных студентов, изучающих дисциплину «Латинский язык» на английском языке.

УДК 807(811.124)(075.8)-054.6
ББК 81.2.Лат.–923

ISBN 978-985-21-0158-5

© Цисык А. З., 2018
© УО «Белорусский государственный
медицинский университет», 2018

PREFACE

This manual is meant for English-speaking students of medical universities of the Republic of Belarus. Its structure corresponds to the syllabus presented in the State Educational Standard Plan for the subject «The Latin Language» taught in the medical universities. The manual has been composed in accordance with generally accepted patterns expressed in well-known manuals and textbooks of Latin and Fundamentals of Medical Terminology.

The manual is divided into four parts — phonetics, the anatomical part with the main grammar rules, the pharmaceutical part and the clinical one.

Every real lesson, as it is generally known, has a uniform structure: checking the home task (orally and in writing), some explanation of a new topic, students' work with exercises. The manual contains all necessary components for this work — grammar and terminological material, as well as exercises. In the latter, words are given in alphabetical order, and every lesson is provided with Latin-English and English-Latin glossaries. Such a distribution of educational material should help students in their work with exercises.

According to high school norms of studying linguistic subjects, students are to learn 30–40 new words at every lesson, although this word memorizing can be managed naturally only due to a strenuous efforts to do the homework. But then, this work is constantly facilitated by lexical affinity of equivalent words in Latin and English.

The main attention is paid to the anatomical and clinical terms, as namely these terms are and will be mainly needed of all wanted in daily medical practice of foreign students. That is why the pharmaceutical part of the manual is presented quite concisely. As to clinical terms, on the basis of well-known English medical dictionaries we sought to give the scientific definition of each terminological unit. Such an introduction into professional terminology judging by the students' reaction has always been of great interest to them.

The subject «Medical Latin» is mastered and controlled chiefly in written form. So both proper spelling and grammar arrangement are of great value as spoken Latin is very simple. That's why control tests at every lesson as well as summing up are performed only in written form.

The students should bear in mind, that only systematic work on the topic and vocabulary of every lesson on their own can result in success.

INTRODUCTION TO THE SUBJECT

The subject you are going to study is the Latin Language. To some point, this name is relative, because nowadays there are no people speaking Latin. From the school course of world history you can remember, that many centuries ago, where nowadays Italy is, there was the Roman Empire. The Roman state which included many lands and people existed till 464 A. D. And initially, Rome was a

small town, founded by an Italian tribe in 753 B. C. and Latin was its native language. Gradually, century after century, Rome became the most powerful state of the Mediterranean and Latin was widespread and acknowledged.

An event of tremendous historical importance for both Rome and the future of European culture was the Roman conquest of Greece, the motherland of European culture and science. The Greek physician Hippocrates is namely considered to be the founder of European scientific medicine. Hippocrates and other Greek physicians made a great contribution into the development of medicine, that's why Greek medicine was extremely popular and prestigious among the population of the Mediterranean area. For this reason, Greek medical terms were borrowed into Latin and came into use in different countries. So originally the European medical terminology was formed on the basis of Greek and Latin words.

In the new history of Europe, beginning with the Roman state's collapse, the Latin language was used for 1000 years as the language of state establishments, Catholic religion, education and science, especially at universities founded in the 12-th century. Every university would have a medical faculty. Diplomas and theses as well as the process of education itself were in Latin. As to medicine, Latin became the international professional language of physicians. Medical terms rooting from Latin and Greek are presented in any European language as borrowings. What's more, there exist lists of biological and medical terms, forming the so-called Nomenclatures, approved at the International Congresses of scientists — anatomical, histological, microbiological etc. Latin terms of those nomenclatures are used in education and scientific literature. That's why future doctors must study fundamentals of international medical terminology, based on Latin grammar and Latin and Greek word building elements (roots, stems and affixes).

Among modern european languages English, and, particularly, medical English, contains a great number of Latin and latinized Greek words. It becomes evident when comparing medical glossaries of Latin and English. To prove this compare some medical terms in Latin and English.

Latin anatomical terms	English equivalent
abdomen	abdomen
alaris	alar
canalis	canal
cardiacus	cardiac
cavitas	cavity
lobus	lobe
longus	long
tonsilla	tonsil
vomer	vomer

Latin pharmaceutical terms	English equivalents
acidum	acid
Acidum aceticum	acetic acid
aether	ether
cortex	cortex
dilutus	diluted
herba	herb
Mentha	mint
pilula	pill
tinctura	tincture

Latin clinical terms	English equivalents	Meaning
adenitis	adenitis	inflammation of gland
bradyphagia	bradyphagia	slowing of swallowing
cancerophobia	cancerophobia	fear of cancer
cholecystogramma	cholecystogram	results of gallbladder X-ray examination
haematuria	hematuria	blood in the urine
lipuria	lipuria	lipid excretion by urine
otogenus	otogenic	developing from the ear
tachycardia	tachycardia	abnormally fast heart rate
trichalgia	trichalgia	feeling of pain in the hair

As we see, in clinical terminology using Latin terms is particularly preferable, because one Latin word can change the whole group of English words, expressing some pathological phenomenon.

The proximity of medical terms in Latin and English can be explained very simply: it is well known, that English medical terminology developed from Medieval Latin terminology, which had absorbed ancient Latin and Greek medical lexical units. Both Latin and ancient Greek are an inexhaustible source for a new term building, and this process keeps on going. Everybody striving to become a doctor must master Latin and fundamentals of international medical Terminology.

The course of Latin at the Medical University you are going to study consists of 3 main parts, which correspond to the main groups of medical terminology: anatomical (and partly histological), pharmaceutical and clinical ones. This material is divided into 2 academic terms (semesters); each lesson is once a week. The first term is devoted to learning phonetic and main grammar rules of Latin anatomical terminology. During the second term the students get acquainted with the fundamentals of pharmaceutical and clinical terminology. Each new lesson includes your teacher's explanation of the topic of the lesson, but the main bulk of work for you is your home task. A specific feature of studying during both terms is written control of checking home task preparation at every lesson. Besides this regular test control, 3 written tests (for 90 minutes) are provided. The purpose of the first one is to control the knowledge of about 50 % of the course material, and that of the second one — mastering the entire material of each part of the course. There exist uniform (for all groups and teachers) rules of the con-

tro assessment and you will be acquainted with them. So, at every lesson, you will first work orally, checking the home task with your teacher, and then your knowledge will be controlled in written form (while books and notebooks are closed). The principal way to this knowledge is your own persistent work with your textbook memorizing Latin words and rules of its grammar. And, without doubt, every student can succeed in learning Latin and fundamentals of medical terminology, if his or her efforts are steady and diligent.

Репозиторий БГМУ

Part I. PHONETIC RULES OF PRONUNCIATION

LESSON 1

THE LATIN ALPHABET. THE PRONUNCIATION OF VOWELS, CONSONANTS AND LETTER COMBINATIONS

The Latin alphabet includes 25 letters.

Letters	Names	Latin Pronunciation	Latin examples and their transcription	English equivalents
A a	a [Λ]	[a]	vas [vΛs]	vessel
B b	be [be]	[b]	bulbus [bú:lbus]	bulb
C c	tse [tse]	[ts] [k]	coccyx [kó:ktsiks]	coccyx, coccygeal bone
D d	de [de]	[d]	dens [dens]	tooth
E e	e [e]	[e]	vertebra [vé:rtebrΛ]	vertebra
F f	ef [ef]	[f]	frontalis [fronta:lis]	frontal
G g	ge [ge]	[g]	genu [gé:nu]	knee
H h	ha [hΛ]	[h] like English heart, here	hepar [hé:pΛr]	liver
I i	i [i]	[i]	incisura [incizú:rΛ]	incisure
J j	yot [yot]	[j] like English yes, you	jugularis [yuguláris]	jugular
K k	ka [kΛ]	[k]	skeleton [ské:leton]	skeleton
L l	el [el]	l [as in English life, love]	cellula [tsé:llulΛ]	cell
M m	em [em]	[m]	mors [mors]	death
N n	en [en]	[n]	nodus [nó:dus]	node
O o	o [o]	[o]	coronarius [coronárius]	coronary
P p	pe [pe]	[p]	palpebra [pálpebrΛ]	eyelid
Q q	ku [ku]	[kv] together with vowel u and vowel a, e, i, o, u after u	Quercus [kvé:rkus] quartus [kvá:rtus]	oak fourth
R r	er [er]	[r]	renalis [rená:lis]	renal
S s	es [es]	[s] [z]	sinus [sí:nus] incisura [intsizú:rΛ]	sinus, hollow incisure
T t	te [te]	[t] [ts]	tibia [tí:biΛ] articulatio [artikulá:tsio]	tibia, shine-bone articulation, joint
U u	u [u]	[u]	succus [sú:kkus]	juice
V v	ve [ve]	[v]	valva [vá:lvΛ]	valve
X x	iks [iks]	[ks]	dexter [dé:kster]	right, right-hand
Y y	ípsilon [ípsilon]	[i]	gyrus [gí:rus]	gyrus, convolution
Z z	zeta [zétΛ]	[z]	zygomaticus [zi-gomátikus]	zygomatic

The last two letters, borrowed by Romans from Greek alphabet, are used, as a rule, in the words of Greek origin.

Six letters of the alphabet (a, e, i, o, u, y) correspond to vowels and nineteen (b, c, d, f, g, h, j, k, l, m, n, p, q, r, s, t, v, x, z) denote consonants.

Vowels in Latin, except «y», sound practically the same, as the sounds of their names in the alphabet (see above). So, the letter «a» sounds [a], the letter e — sounds [e] and so on. One may add, that the stressed vowel corresponds in pronunciation to a long one in English, compare:

cavitas [cá:vitʌs] — cavity
apertura [ʌpertú:rʌ] — aperture, opening
venosus [venó:zus] — venous
tonsilla [tonsí:llʌ] — tonsil

The letter «y» (ípsilon) sounds as the Latin letter «i» (that's why the Frenchmen call y «igrek», i.e. «the Greek «i»):

tympanum [tí:mpanum] — drum.

All the above given examples also indicate, that Latin vowels don't practically change their sound quality in different syllables. But the vowel «i» placed before the vowels «a», «e», «o», «u» when making a common syllable with them, changes its sound characteristics: now it sounds similar to the English vowel «y» in the *yard*, *yours*, *yourself*, *youthful*, let's compare:

maialis [mʌjá:lis] — referring to May
ieiunum [jejú:num] — jejunum
major [má:jor] — greater.

As in such cases the letter «i» sounds different compared to the vowel «i», the scientists in the XVI century decided to introduce a new letter **j** into the Latin alphabet, so as to substitute the vowel «i»: *majalis*, *jejunum*, *major* and so on. It is common to use the letter «j» in medical and biological terms. Leus, however, note that in the terms of the Greek origin the vowel «i» never makes a syllable with the subsequent vowels «a», «e», «o», «u» and therefore the letter j cannot be used:

*iat*er [iá:ter] physician, commonly *geriater*, *paediater*, *psychiater*, *phthisiater* and so on — these terms will be discussed in the clinical part of our course. We can also mention the noun *Iodum* [ió:dum] — iodine (Latin names of chemical elements are to be written with capital letters).

Two vowels following each other can form the so-called diphthong that is pronounced as a combination of two vowels pronounced in one syllable.

So **au** [au] is pronounced as in the English words *down*, *sound*, *south*, *compound* and so on:

auris [áuris] **ear**, *caudalis* [kaudá:lis] *caudal*, *trauma* [tráuma] *injury*, *wound*.

Eu [eu] is pronounced as closed combined [e] and [u]. Vowel «u» in this combination is pronounced as a sound similar to [v]. We have no analogue in English of such a pronunciation, so it must be learnt by the spelling memorizing:

Eucalyptus [eukalí:ptus] *eucalyptus*
pneumonia [pneumoní:Λ] *pneumonia*.

However, you should pay attention to the letter combination «**eu**» at the end of words, where it doesn't make a diphthong and each vowel is pronounced separately:

sigmoideus [sigmoí:deus] *sigmoid*
corpus luteum [kó:rpus lú:teum] corpus luteum (yellow body).

Two vowels can also form a digraph, which sounds like the Latin vowel «**e**»:

ae — [e] costae [kó:ste] *ribs*
oe — [e] oedema [edé:mΛ] *swelling*.

If each vowel in such digraphs is to be pronounced separately, two dots are placed over the letter **e**:

aër [á:er] *air*, Aloë (name of a medical plant) [á:loe] *aloe*.

Consonants **b, d, f, h, k, m, n, p, q, s, t, v, x** are similar in pronouncing to English. The difference is that consonants **p, t, k** are not aspirated, as in English. Pronunciation of the rest consonants is to be explained.

The letter **Cc** before the vowels «**e**», «**i**», «**y**» and digraphs **ae, oe** is pronounced as [ts], but before the vowels «**a**», «**o**», «**u**» and consonants (except **h**) is pronounced as [k]:

cervicalis [tserviká:lis] *cervical*
caecum [tsé:kum] *caecum*
coccyx [kó:ktsiks] *coccyx, cockerel bone*.

The letter **Gg** is always pronounced like [g] in English *get, glass, disguise*:

gaster [gá:ster] *stomach*
genu [gé:nu] *knee*
vagina [vΛgí:nΛ] *vagina*

The letter **Hh** is pronounced approximately as h in English:

homo [hó:mo] *man*
hyoideus [hioí:deus] *sublingual*.

The letter **Ll** is pronounced in some way softer than in English and is palatalized both before vowels and consonants (as in the pronunciation of such English words as **look** and **live**):

albus [á:lbus] *white*
cellula [tsé:llulΛ] *cell*
palatinus [pAlAtínus] *palatine*
pyloricus [piló:rikus] *pyloric*.

The letter **Rr** in Latin is pronounced always clearly and distinctly not as the English **Rr** [a:]

dexter [dé:xter] *right*
posterior [posté:rior] *back*
renalis [rená:lis] *renal*.

The letter **Ss** between two vowels is pronounced like [z], in other cases — as [s]:

basis [bá:zis] — base

sinus [sí:nus] — sinus, hollow.

The letter **Tt** is commonly pronounced as [t] without aspiration: tinctura [tinktú:r^] — tincture. But in such a letter combination, where **i** follows **t** plus some other vowel, **t** is pronounced as [ts]:

articulatio [artikulá:tsio] *joint*

protuberantia [protuberá:ntsia] *protuberance*.

There is, however, an exception from this last rule: if before the combination **ti** + vowel the consonants «**s**» or «**x**» are placed, then the pronunciation of **ti** is [ti]:

digestio [digé:stio] *digestion*

ostium [ó:stium] *orifice*.

The letter **Zz** is pronounced as [z]:

zona [zó:n^] *zone*

horizontalis [horizontá:lis] *horizontal*.

But in two cases we pronounce this letter as [ts]: influenza [influé:nts^] — grippus, influenza and Zincum [tsí:nkum] *zink*.

Two consonants can form a digraph, which is pronounced as a consonant:

ch is pronounced as [kh]:

chorda [khó:rd^] *cord*;

charta [khá:rt^] *paper*

ph is pronounced as [f]:

lymphaticus [limfá:ticus] *lymphatic*

pharynx [fa:rinks] *pharynx*

rh is pronounced as [r]:

rhinorrhagia [rinoragí:a] — rhinorrhagia (nasal bleeding)

rhomboideus [romboí:deus] — rhomboid

th is pronounced as [t]:

thorax [tó:raks] — chest

labyrinthus [l^birí:ntus] — labyrinth.

The combination of three consonants **sch** is pronounced as [skh]:

schema [skhé:m^] — scheme

ischiadicus [iskhiá:dikus] — sciatic.

The letter combination **ngu** is pronounced as [ngv], if the vowel **u** is followed by one of the vowels a, e, i, u:

lingua [lí:ngv^] *tongue, language*

unguentum [ungvé:ntum] *ointment*

unguis [ú:ngvis] *nail*

But if a consonant follows «**u**», then **ngu** is pronounced as [ngu]:

angulus [á:ngulus] *angle*

lingula [lí:ngul^] *lingula, a little tongue*.

The letter combination **qu** with the following vowel (**a, e, i, o, u**) is pronounced as [kv] with a subsequent vowel:

squamosus [skvamó:zus] *squamosal*

aqueductus [akvedú:tus] *aqueduct*

Quercus [kvé:rkus] *oak*.

1. Read the following words paying special attention to the vowel pronunciation:

forámen (opening), ligaméntum (ligament), dúctus (duct), interlobuláris (interlobular), longitudinális (longitudinal), massetéricus (masticatory, chewing), pylóricus (pyloric), synoviális (synovial), tympánicus (tympanic), siníster (left), zygomáticus (zygomatic).

2. Read the following words paying special attention to the pronunciation of the letter c:

cáput (head), cervicális (cervical), cérebrum (brain), cútis (skin), Ácidum acéticum (acetic acid), síccus (dry), fácies (face, surface), coccygéus (coccygeal), coerúleus (blue), caécum (caecum), búccae (cheeks), carcinóma (cancer), sáccus lacrimális (lacrimal sac).

3. Read the following words paying special attention to the pronunciation of the letters g and q:

nérvus hypoglóssus (hypoglossal nerve), gánglion pterygopalatínium (pterygopalatine ganglion), rámi gingiváles (gingival branches), gánglion geniculátum (geniculate ganglion), gýrus anguláris (angular gyrus), húmor aquósus (aqueous humor), aquedúctus vestibuli (vestibular aqueduct), cósta quinta (fifth rib), márgo squamósus (squamosal border).

4. Read correctly the following words, paying special attention to the consonants j, s and t:

ála májor (major wing), flexúra duodenojejunális (duodenojejunal flexure), júga alveolária (alveolar yokes), articulátio compósita (complex joint), óstium atrioventriculáre dextrum (right atrioventricular orifice), incisúra juguláris (jugular notch), segméntum basále antérius (anterior basal segment), básiis óssis sácri (base of sacrum), míxtio pro potióne (mixture for drinking).

5. Read correctly the following words paying attention to combinations of vowels:

cóstae spúriae (false ribs), forámen caécum línguae (caecum foramen of tongue), Óleum Eucalýpti (eucalyptus oil), oedéma larýngis (edema of larynx), nérvus auriculáris (auricular nerve), aponeurósis línguae (lingual aponeurosis), céllulae haematopoëticae (hematogenic cells), glándulae oesophagéae (oesophageal glands), pneumonía mígrans (migratory pneumonia).

6. Read attentively the following words with vowel and consonant combinations:

nervus ischiadicus (sciatic nerve), Strophanthinum (strophanthin), Synthomycinum (synthomycin), febris haemorrhagica (hemorrhagic fever), raphe pharyngis (pharyngeal raphe), asthma bronchiale (bronchial asthma), vertebrae thoracicae (thoracic vertebrae), unguentum ophthalmicum (ophthalmic ointment), labyrinthus ethmoidalis (ethmoidal labyrinth), Methylenum coeruleum (blue methylen), rhizoma Glycyrrhizae (rhizome of licorice), Schizandra chinensis (chinense magnolia vine), sectiones hypothalami (sections of hypothalamus), ductus choleochus (common bile duct), truncus brachiocephalicus (brachiocephalic trunk), distantia trochanterica (trochanteric distance), hemisphaerium cerebelli (hemisphere of cerebellum), tuberculum pharyngeum (pharyngeal tubercle), vena saphena (saphenous vein), cirrhosis hepatis (biliary cirrhosis), typhus abdominalis (abdominal typhus), nephrolithiasis chronica (chronic nephrolithiasis), foetor ex ore seu halitosis (fetid or offensive breath or halitosis).

LESSON 2 ACCENT RULES

If a word consists of two syllable, there is always only one stress: the first syllable is stressed:

cós-ta, lá-rynx, nér-vus.

In polysyllabic words consisting of three and more syllables, the second or third syllables from the end of the word can be stressed. The stress depends on the length or brevity of the second word end syllable: if it is long, it is stressed, if it is short, it cannot be stressed and then the third word end syllable is stressed.

The length and brevity of the second syllable and particularly in textbooks are usually marked by special signs: a short line is placed over the vowel if it is long, and a little arch — if it is short, compare:

ā — ǎ, ē — ě, ī — ĭ, ō — ǒ, ū — ŭ, ŷ — ǎ.

So, if we find such words as forāmen, incisūra, hepatītis etc. in the dictionary, we can instantly determine, that such words have an accent on the second syllable from the end.

If in the dictionary we see such words as lamīna, encephālon, thoracīcus etc., we understand that the third syllable from the end must be stressed: lámīna, encéphalon, thorácicus.

Now, we should ask a crucial question: do we have to consult the dictionary about the quality of the second end syllable in every case or not? Fortunately, there exist some rules helping us to determine at once the length or brevity of the second end syllable, or more simply, of the second end vowel. First of all, there are suffixes containing vowels which are long or short by nature. Such suffixes

called accordingly «long» or «short» can give us guidance about the length or brevity of the second end vowel.

Before listing the suffixes, one must notice that part of these suffixes is always long or short in all kinds of terminology — anatomical, pharmaceutical, clinical. As we are going to begin with anatomical terminology and continue studying it during the first semester, it would be proper to begin with the suffixes in anatomical terms.

Suffixes	Examples	English equivalents	Exceptions and their translation
-āl-	dentālis horizontālis	dental horizontal	encephālon (brain)
-ār-	articulāris mandibulāris	auricular mandibular	—
-āt-	caudātus meātus	caudate passage	prostāta (prostate)
-īn-	palatīnus vagīna	palatine vagina, sheath	lamīna (lamine), femīna women), retīna (retina), dens serotīnus (wisdom tooth), ner- vus trigemīnus (trigeminal nerve), termīnus (term)
-īv-	gingīva dens incisīvus	gingiva, gum incisor, tooth	—
-ōs-	aponeurōsis petrōsus	aponeurosis stony	—
-ūr-	incisūra sutūra	incisure, slit or notch suture, line of junction	—

Suffixes	Examples	English equivalents	Exceptions
-iāc-	cardiācus coeliācus	cardiac coeliac	—
-īc-	gastrīcus tunīca	gastric tunic, coat	vesīca (bladder)
-ōl-	alveōlus foveōla	alveolus, satchet (of tooth) foveola	—
-ūl-	clavicūla mandibūla	clavicle mandible	—

As mentioned above, some suffixes can always be long or short in all parts of medical terminology, compare:

Suffix	Anatomical terms	Pharmaceutical terms	Clinical terms
-āt-	musculū levātor (levator muscle)	Aqua destillāta (distilled water)	Caries exacerbāta (exacerbated caries)

-ōs-	aponeurōsis (aponeurosis)	spirituōsus (spirituous)	erythrocytōsis (erythrocytosis, increased account of red blood cells in the blood)
-ūr-	junctūra (junction, junction)	tinctūra (tincture)	fractura (fracture)
-ŭl-	angŭlus (angle)	Betŭla (birch)	furuncŭlus (furuncle, boil)

In many words the second vowel from the word end is placed before a consonant, but this vowel is not a part of a common long or short suffix. In such cases we can determine its length or brevity controlling those peculiarities of the given word in the textbook vocabulary, compare:

forāmen (opening), orbĭta (eye socket), skelĕton (skeleton), suprĕmus (highest), tuberosĭtas (tuberosity), urĕter (ureter) and so on.

In some cases we can determine the syllable length or brevity with the help of certain rules.

1. The syllable is long, when its vowel is placed before two or more consonants:

ligamĕntum (ligament)
maxĭlla (maxilla, upper jaw)
sinĭster (left).

But, when the vowel is short by nature (it is shown in the dictionary) and it is placed before two consonants, first of which being **b, c, d, g, p, t** and the second is **l** or **r**, this short vowel is pronounced short:

vĕrtĕbra (vertebra), cĕrĕbrum (cerebrum), os trĭquĕtrum (triquetrum bone), mŭltĭplex (multiple). And when this vowel is long by nature, our rule is valid:
cicātrix (cicatrix, scar), psychiātri (psychiatrists), salŭbris (curative).

2. The syllable is long, when it includes the diphthongs **au, eu** or **ae, oe**:
amoĕba (ameba), diaĕta (diet), Althaĕa (althea).

3. The syllable is long when its vowel is placed before the consonants **x** or **z**:
reflĕxus (reflex), Orŷza (rise).

1. The syllable is short when its vowel is placed before another vowel:

lĭnĕa (line), supĕrĭor (higher, upper)
cŏrnŭa (horns), Alumĭnĭum (aluminium).

There are, however, two points of exceptions from this rule:

1) in some words of Greek origin the last but one vowel was formed from the diphthong **ae**, that's why it keeps the length of the syllable:

coccygaeus → coccygĕus peritonaeum → peritonĕum.

You have to memorize these exceptions:

perinēum (perineum, fork) peritonēum (peritoneum), trachēa (trachea), anconēus (anconeus muscle), coccygēus (coccygeal), esophagēus (esophageal), glutēus (gluteal), laryngēus (laryngeal), meningēus (meningeal), peronēus (peroneal, fibular), pharyngēus (pharyngeal).

2) in clinical terms with the ending **-ia** their vowel **i** and the syllable with it are stressed:

dyskinesía (dyskinesia, disturbance of movement), otoscopía (otoscopy, internal examination of the ear).

Some peculiarities of this exception will be discussed in the clinical part of our course.

2. The syllable is short when its vowel is placed before the digraphs **ch**, **ph**, **rh**, **th**:

ductus cholédōchus (bile duct) nephrólithus (renal calculus).

1. Determine the stress syllable paying attention to the long and short suffixes:

incisūra ethmoidālis (ethmoidal notch), tubercūlum jugulāre (jugular tubercle), lingūla sphenoidālis (sphenoidal lingula), semicanālis tubae auditīvae (canal for auditory tube), meātus acusticus externus (external acoustic meatus), lamīna perpendiculāris (perpendicular plate), facies palatīna (palatine surface), vesīca biliāris (gall bladder), glandūlae endocrīnae (endocrine glands), junctūrae cingūli pelvici (joints of pelvic girdle), urethra masculīna (male urethra), spina scapūlae (spine of scapula), intestīnum tenue (small intestine), alveolus dentālis (tooth socket), tunīca mucōsa linguae (mucous membrane of tongue), arcus dentālis mandibulāris (mandibular dental arcade), trigōnum submandibulāre (submandibular triangle).

2. Write down and determine the stressed syllable paying attention to the natural length or brevity of the last but one vowel:

tubercūlum anterius (anterior tubercle), incisūrae costāles (costal slits), vertēbra thoracīca (thoracic vertebra), ductus choledōchus (bile duct), forāmen apicis radīcis dentis (apical foramen of the root of the tooth), vesīca urinaria (urinary bladder), Oleum Ricīni (castor oil), Sirūpus Rubi idaei (raspberry syrup), Solutio Iōdi spirituōsa (iodine spirituous solution), eczēma allergīcum (allergic eczema), stomatītis chronīca (chronic stomatitis), systēma condūcens cordis (conducting system of heart), apertūra thorācis inferior (lower opening of chest), muscūlus levātor fornīcis (muscle raising fornix), Tinctūra Valeriānae (tincture of valerian), facies anterior partis petrōsae (anterior surface of petrous part), canāles palatīni minōres (lesser palatine canals), systēma lymphoideum (lymphoid system).

3. Write down the terms, put the signs of length or brevity over the last but one syllable (using if necessary vocabularies of this manual) and determine in writing the accent:

ligamentum popliteum obliquum (oblique popliteal ligament), cartilāgo thyreoidea (thyroid cartilage), bifurcatio tracheae (bifurcation of trachea), musculus anconeus (anconeus muscle), atrium meatus medii (atrium of middle meatus), Extractum Crataegi fluidum (liquid extract of hawthorn), paralýsis congenita (congenital paralysis), syndrōmum immunodeficientiae acquisitae (acquired immunodeficiency syndrome), tuberositas pterygoidea (pterygoid tuberosity), anaemia myelogenā (myelogenous anemia), arteria circumflexa humeri anterior (anterior circumflex humeral artery), orgānum vasculosum laminae terminalis (vascular organ of lamina terminalis), fissura longitudinalis cerēbri (longitudinal cerebral fissure), fasciculus uncinatus cerebelli (uncinate fasciculus of cerebellum), kyphosis thoracica (thoracic kyphosis), linea glutea inferior (inferior gluteal line), syndesmoses cranii (cranial syndesmoses), articulatio sacrococcygea (sacrococcygeal joint), segmentum anterius mediale (anterior medial segment), infundibulum vesicae felleae (infundibulum of gallbladder), musculi palāti mollis et faucium (muscles of soft palate and fauces), papilla duodēni major (major duodenal papilla), ostium atrioventriculare sinistrum (left atrioventricular orifice), membrāna bronchopericardiaca (bronchopericardial membrane), arteria pharyngea ascendens (ascending pharyngeal artery), tuberositas deltoidea (deltoid tuberosity)

Part II. ANATOMICAL TERMINOLOGY

LESSON 3

THE STRUCTURE OF LATIN ANATOMICAL TERMS. NOUN AND ITS GRAMMAR CATEGORIES

Anatomical terminology naming all parts of the human body is the base of medical terminology. For more than a century the so-called Terminologia Anatomica — The International Anatomical Terminology in Latin which is accepted by anatomists of the world has existed. Latin is also the base for creating equivalent terms in other languages. The last edition of this International Anatomic Terminology appeared in 1998 and it contains 7428 terms.

The anatomical term is a word or several words used to denote a definite unit or structure of the human body. So Latin anatomical terms may consist of one, two, three, four and more words — up to 8.

One-word terms consist of one noun in singular or plural:

cor (heart), fauces (fauces)

Two-word terms may consist of:

1. A noun with an adjective in singular or plural:

crista renālis (renal crest); nodi faciāles (facial nodes).

2. Two nouns in singular or plural:

corpus vertēbrae (body of vertebra); terminatiōnes nervōrum (nerve terminals).

Three-word terms may consist of:

1. Three nouns:

ala cristae galli (wing of cock's crest);

lamīna arcus vertēbrae (lamina of vertebral arch)

2. One noun plus two adjectives:

glandūlae salivariae minōres (minor salivary glands);

plexus cervicālis posterior (posterior cervical plexus)

3. Two nouns plus one adjective:

arcus anterior atlantis (anterior arch of atlas);

tuberositas ossis sacri (sacral tuberosity).

In multiword terms several nouns and adjectives can be presented:

fissūra horizontālis pulmōnis dextri (horizontal fissure of right lung);

processus uncinātus vertēbrae thoracīcae primae (uncinate process of the first thoracic vertebra).

The grammar categories of a Latin noun are the following:

1. Gender. 2. Number. 3. Case. 4. Declension.

There are three genders in Latin: masculine (masculīnum **m**); feminine (feminīnum **f**); neutral (neutrum **n**).

English nouns, in contrast to Latin ones, have only a natural gender: nouns denoting males are masculine (boy, man), nouns denoting females are feminine (girl, women) and nouns denoting inanimate objects are of neutral gender (bone, vessel).

Latin nouns always have only a grammar gender, which is determined by the ending, but what is more significant, by gender signs too (m, f, n). These gender signs are given in the dictionaries, where nouns are presented in the so-called word or dictionary form, which we shall discuss later.

As to the number, both English and Latin have two numbers — singular (singulāris) and plural (plurālis). Just like in English, the number of the noun in Latin shows whether we speak about one thing or more than one. Plural indications in English are very simple (endings -s or -es). In Latin, these indications are more numerous and are determined by the gender and declension. Plural endings will be discussed in detail in a special section.

Case as a grammar category is not presented in every language. It is absent, for example, in French, Italian and Spanish. As to English, we can speak about a «common case» and a «possessive case». In contrast to English, in Latin there are six different forms of noun endings corresponding to each case. Only four case forms of Latin nouns are used in medical terms:

Nominatīvus, Nominative (answers the questions *who, what*)

Genetīvus, Genitive (answers the questions *whose, of what*)

Accusatīvus, Accusative (answers the questions *whom, what*)

Ablatīvus, Ablative (answers the questions *by whom, with what*).

The first two cases (Nominative and Genitive) are mainly used in the medical terminology, the other cases occur more rarely, they are used in anatomical and pharmaceutical terms in combination with prepositions.

It is of vital importance to always remember that each Latin noun must be learnt in its «Dictionary form». This form consists of three components:

1. The full form of the Nominative singular.
2. The Genitive singular ending, indicating the type of declension.
3. Definition of the grammar gender (with the letters m, f, n):

Written form	Oral form	English equivalent of the noun
ala, ae f	ala, alae, feminīnum	wing
ligamentum, i n	ligamentum, ligamenti, neutrum	ligament
nervus, i m	nervus, nervi, masculīnum	nerve
cancer, cri m	cancer, cancri, masculīnum	cancer
Eucalyptus, i f	Eucalyptus, Eucalypti, feminīnum	eucalypt
cornu, us n	cornu, cornus, neutrum	horn
corpus, ōris n	corpus, corpōris, neutrum	body

The stem of the noun is essential for declining and word building. It is determined by removing the Genitive ending which indicates the type of the declension:

Dictionary form	Full form of the Genitive	Stem of noun
crista, ae f <i>crest</i>	crist-ae	crist-
sulcus, i m <i>furrow, groove, sulcus</i>	sulc-i	sulc-
cancer, cri m <i>cancer</i>	cancr-i	cancr-
forāmen, ĩnis n <i>opening</i>	foramĭn-is	foramĭn-
arcus, us m <i>arch</i>	arc-us	arc-
facies, ěi f <i>face, surface</i>	faci-ěi	faci-

Nouns with the ending **-ae** in the Genitive singular belong **to the 1st declension**; they are mainly feminine:

ala, ae f *wing*
 crista, ae f *crest*
 vertĕbra, ae f *vertebra*.

Nouns having the ending **-i** in the Genitive singular belong **to the 2nd declension**.

Nouns of the **masculine gender** can have the ending **-us** in the Nominative (the greatest part) or **-er** (very limited in number):

angŭlus, i m *angle*
 muscŭlus, i m *muscle*
 nervus, i m *nerve*
 cancer, cri m *cancer* (the full form of Genitive — **cancr-i**).

Nouns of the **neutral gender** have also two types: nouns with the ending form **-um** (the main part), and nouns with the ending form **-on** (they are of Greek origin), compare:

ligamentum, i n *ligament*
 dorsum, i n *back*
 encephălon, i n *brain*
 colon, i n *colon, large intestine*.

The 3rd declension is the most numerous one. Here are presented the nouns of all genders and with different endings in the Nominative having the ending **-is** in the Genitive. They are commonly divided into two groups.

The first one includes nouns having equal number of syllables in the Nominative and Genitive (so-called *parisyllaba*):

basis, basis f (basis, is f) *base*
 canălis, canălis m (canalis, is m) *canal*.

The second and the most numerous part of the nouns has one more syllable in the Genitive compared to the Nominative (so-called *imparisyllaba*):

apex, apĭcis m (the written dictionary form apex, ĭcis m) *apex, tip*
 tuberosĭtas, tuberosĭtătis f (tuberosĭtas, Ătis f) *tuberosity*

forāmen, foramīnis n (forāmen, ĩnis n) *foramen, opening*.

If such nouns have only one syllable in the Nominative, then the complete form of the Genitive is:

dens, dentis m *tooth*

os, ossis n *bone*

pars, partis f *part*.

The 4th declension includes nouns of the masculine and neutral gender having the ending **-us** in the Genitive:

processus, processus m (processus, us m) *process*

ductus, ductus m (ductus, us m) *duct*

cornu, cornus n (cornu, us n) *horn*.

The 5th declension includes nouns having the ending **-ei** in the Genitive:

facies, faciēi f (facies, ēi f) 1) *face* 2) *surface*.

Attention! Remember the following:

1. Feminine nouns may occur in the 2nd and 4th declensions, masculine ones in the 1st: oculista, ae m (ophthalmologist), Eucalyptus, i f (eucalyptus), manus, us f (hand).

2. Two groups of nouns of the Greek origin retain their particular form:

2.1. Feminine nouns with the ending **-e** in the Nominative and **-es** in the Genitive: raphe, es f (a seam on the bony tissue).

2.2. Masculine nouns with the ending **-es** in the Nominative and **-ae** in the Genitive: diabētes, ae m (diabetes).

1. Give in written form the dictionary form of the following nouns:

apex, basis, canālis, cancer, cornu, corpus, cranium, dens, encephālon, facies, ganglion, lingua, mandibŭla, nasus, nervus, orgānon, os, radix, scapŭla, sternum, sulcus, tuber, tubercŭlum, tuberositas.

2. Give in written form the dictionary form of the following nouns and define their stem and declension:

abdomen, angle, arch, base, bone, canal, crest, duct, head, horn, ligament, lower jaw, nose, opening, region, root (radix), skin, skull, surface, tongue, tooth, upper jaw

3. Write down the dictionary form of the nouns, translate the terms from Latin:

apex linguae; angŭlus faciēi nasi; basis cranii; canālis radīcis dentis; corpus vertēbrae; facies tubercŭli costae; incisŭra mandibŭlae; nervus encephāli; pars faciēi sterni; septum nasi; sulcus sinus; tuber maxillae.

4. Give the dictionary form of each noun, translate the terms into Latin:

abdomen cavity (= cavity of abdomen); arch of aorta; base of mandible; body of upper jaw; canal of dental radix (= canal of radix of tooth); cancer of the skin; cavity of the nose; cervical part (= part of cervix); crest of the rib head (= crest of head of rib); face bone (= bone of face); nerve of the brain; nervous node

of the neck; part of the process; region of skull; skin nerve (= nerve of the skin); sternal angle (= angle of sternum); surface of knee; tip of the horn; vertebral arch (= arch of vertebra).

I. Latin–English vocabulary

1st declension

costa, ae f	rib
incisūra, ae f	incisure, slit or notch
lingua, ae f	tongue
mandibŭla, ae f	lower jaw, mandible
maxilla, ae f	upper jaw, maxilla

2nd declension

angŭlus, i m	angle
cancer, cri m	cancer
cranium, i n	skull
encephălon i n	brain
ganglion, i n	nervous node
nasus, i m	nose
nervus, i m	nerve
orgănon, i n	organ
septum, i n	septum, dividing wall
sternum, i n	sternum, breast- bone
sulcus, i m	sulcus, furrow or groove
tubercŭlum, i n	tubercle, small rounded swelling

3rd declension

apex, ĩcis m	apex, tip
basis, is f	base
caput, ĩtis n	head
canălis, is m	canal
corpus, ōris n	body
dens, dentis m	tooth
os, ossis n	bone
radix, ĩcis f	radix, root
regio, ōnis f	region
tuber, ěris n	tuber, large rounded swelling
tuberosĭtas, ātis f	tuberosity

4th declension

cornu, us n	horn, horn- shaped process
processus, us m	process
sinus, us m	sinus, hollow curvature or cavity

5th declension

facies, ēi f

face, surface

II. English–Latin vocabulary

abdomen	abdōmen, ĩnis n
aorta	aorta, ae f
angle	angŭlus, i m
apex, top	apex, ĩcis m
arch	arcus, us m
base	basis, is f
body	corpus, ōris n
bone	os, ossis n
canal	canālis, is m
cavity	cavĭtas, ātis f
cervical: see neck	cervix, ĩcis f
costal: see rib	costa, ae f
cranial: see skull	cranium, i n
crest	crista, ae f
dental: see tooth	dens, dentis m
duct	ductus, us m
ganglion, nervous node	ganglion, i n
face	facies, ēi f
head	caput, ĩtis n
horn	cornu, us n
knee	genu, us n
ligament	ligamentum, i n
lower jaw, mandible	mandibŭla, ae f
neck	cervix, ĩcis f
nerve	nervus, i m
nose	nasus, i m
opening	forāmen, ĩnis n
part	pars, partis f
region	regio, ōnis f
rib	costa, ae f
root, radix	radix, ĩcis f
skin	cutis, is f
skull	cranium, i n
surface	facies, ēi f
tongue	lingua, ae f
tooth	dens, dentis m
upper jaw, maxilla	maxilla, ae f
vertebra	vertēbra, ae f
vertebral: see vertebra	vertēbra, ae f

E

S

S

O

Both in English and Latin the adjective is a word expressing the quality of a thing: long, short, nasal, simple and so on.

ADJECTIVES AND THEIR DICTIONARY FORM. ADJECTIVE AND NOUN

AGREEMENT

But in contrast to English, Latin adjectives have always grammar agreement with their nouns, that is a noun and an adjective must have the same gender, case and number. The adjective follows the noun.

According to their endings all Latin adjectives are divided into two groups.

Adjectives which have three gender endings make up the 1st group: Masculine forms have the ending **-us** or **-er**, Feminine — **-a**, Neutral — **-um**:

Masculine	Feminine	Neutral
longus (long)	longa	longum
liber (free)	libĕra	libĕrum
dexter (right)	dextra	dextrum

The dictionary form of adjectives includes the full masculine form, endings of the feminine and the neutral ones (when answering, **every gender form is pronounced!**). All these forms are in the Nominative:

longus, a, um — long	oral form: longus, longa, longum
liber, ĕra, ĕrum — free	oral form: liber, libĕra, libĕrum
dexter, tra, trum — right	oral form: dexter, dextra, dextrum

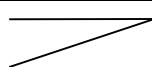
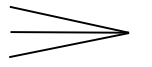
In the last two adjectives the endings of the feminine and the neutral forms are enlarged. It is common for the adjectives with the ending **-er** in the masculine form because it helps us determine, whether the vowel **-e** in the feminine and the neutral forms is lost or not.

The gender forms of the adjectives of this group have the declension pattern in the nouns of the 1st and 2nd declensions: feminine forms are declined like the nouns of the first declension, masculine and neutral forms — like the nouns of the second declension. The stem of these adjectives is determined like that of the nouns:

Gender form	Nominative	Genitive	Declension	Stem
masculine	longus	longi	second	long-
feminine	longa	longae	first	long-
neutral	longum	longi	second	long-
masculine	liber	libĕri	second	liber-
feminine	libĕra	libĕrae	first	liber-
neutral	libĕrum	libĕri	second	liber-

Gender form	Nominative	Genitive	Declension	Stem
masculine	dexter	dextri	second	dextr-
feminine	dextra	dextrae	first	dextr-
neutral	dextrum	dextri	second	dextr-

As to the adjectives with the masculine form **-er**, it is more convenient to determine their stem from the feminine Genitive form.

feminine neutral	par par	 paris	par-
masculine feminine neutral	simplex simplex simplex	 simplīcis	simplic-

The dictionary form of these adjectives includes the Nominative form and the Genitive ending:

sapiens, entis (oral form sapiens, sapientis)
 teres, ětis (oral form teres, terětis)
 par, is (oral form par, paris)
 simplex, ĭcis (oral form simplex, simplīcis).

To agree an adjective and a noun in Latin means to say or to write these parts of speech in the same gender, number and case. To do it you should:

- 1) imagine or write dictionary forms of the noun and adjective;
- 2) correctly determine the gender, number and case of the noun;
- 3) place the noun in the first place of the term;
- 4) choose the correct grammar form of the adjective for this noun and put it in the second place (after the noun).

Let us take, e. g., the following word combinations:

- 1) sacral vertebra
- 2) carotid tubercle
- 3) palatine groove.

First of all, let us write down the dictionary form of every word:

sacral — sacrālis, e; carotid — carotīcus, a, um; tubercle — tubercŭlum, i n; palatine — palatīnus, a, um; groove — sulcus, i m; vertebra — vertĕbra, ae f.

Now, let us make up the procedure of agreement:

- 1) vertĕbra: gender — feminine, number — singular, case — Nominative.

So in the dictionary form of the adjective we choose the form sacralis and agree it in this way with the noun vertebra: *vertebra sacralis*

- 2) tubercŭlum: gender — neutral, singular, Nominative.

That's why we choose the adjective form caroticum and make up the term *tuberculum caroticum*.

- 3) sulcus: Masculine, Singular, Nominative.

So for this noun we need the adjective form palatīnus. Writing down it after the noun sulcus we get as a result the term *sulcus palatīnus*.

If we have to agree two adjectives with one noun, the order of agreement is the following. The adjective indicating the main space location of the object (cardiācus, a, um cardiac; cervicālis, e cervical, gastrīcus, a, um gastric and so on) is placed after the noun: right gastric artery — *arteria gastrica dextra*, deep lymph vessel — *vas lymphatīcum profundum*.

One should be able not only to agree adjectives and nouns in the Nominative, but also make up the Genitive form from this Nominative construction. So, let us make the Genitive forms of the above mentioned Nominative forms:

1) *vertebra sacrālis*: from the dictionary form we already know the Genitive form and let's write it down: *vertebrae*. Now, we have to determine the Genitive form of *sacrālis*. As we have seen above, this adjective belongs to the third declension, that's why the Genitive form should have the ending -is, that is *sacrālis*, which finally makes in the Genitive the word combination *vertebrae sacrālis*.

2) *tuberculum carotīcum*: both the noun and the adjective belong to the second declension, that's why they have to receive the ending -i in the Genitive form — *tuberculi carotici*.

3) *sulcus palatīnus*: *sulcus*, as it is evident from the dictionary form, belongs to the second declension, the ending -us in the adjective *palatinus* tells us that this form belongs to the second declension and so we can determine the Genitive form as *palatīni*. The whole term in Genitive form is *sulci palatini*.

1. Write down the dictionary form of the following adjectives:

articulāris, celēris, compositum, dextrum, frontālis, impar, interna, libĕrum, nasāle, palatīna, sapiens, simplex, teres, thoracīcum.

2. Make up the dictionary form of every word, translate the word combinations and add forms of the Genitive singular for every word combination:

articulatio simplex; canālis longus; cornu coccygĕum; ductus sublinguālis; facies articulāris; ganglion impar; ligamentum teres; margo sinister; os hyoideum; pars dextra; pulsus cardiācus celer; sulcus brevis; vas lymphaticum profundum; vena occipitālis.

3. Agree the following adjectives with the nouns:

angŭlus, i m (frontālis, e; masloideus, a, um);

articulatio, ōnis f (compositus, a, um; sinister, tra, trum; simplex, ĭcis);

facies, ēi f (costālis, e; internus, a, um; dexter, tra, trum);

ganglion, i n (impar, āris; sublinguālis, e);

ligamentum, i n (teres, ĕtis; brevis, e);

margo, ĭnis m (dexter, tra, trum; liber, ĕra, ĕrum; nasālis, e);

musculus, i m (teres, ĕtis; magnus, a, um);

nervus, i m (hypoglossus, a, um; occipitālis, e);

pars, partis f (petrōsus, a, um; frontālis, e);

processus, us m (articulāris, e; palatīnus, a, um; brevis, e);

ramus, i m (communīcans, ntis; costālis, e; externus, a, um).

4. Make up grammatical agreement of the adjectives with the nouns in Latin:

arch (dental, venous, left); artery (deep, lingual, right); bone (short, palatine, hyoid); canal (long, short, sacral); crest (lacrimal, external); duct (hepatic, sublingual); joint (complex, simple); process (palatine, costal); region (cervical, mastoid); tubercle (carotid, lateral); vein (deep, sacral); vertebra (prominent, thoracic); vessel (left, lymphatic).

5. Give the dictionary form of each word and translate the following terms into Latin:

articular surface; costal arch; deep lymphatic vessel; frontal crest; lateral thoracic vein; lateral pterygoid muscle; left hepatic duct; long ligament; medial root; occipital artery; occipital angle; oval opening; palatine process; superficial vein; vertebral column.

I. Latin–English vocabulary

1st declension

arteria, ae f	artery
vena, ae f	vein
vertebra, ae f	vertebra

2nd declension

ligamentum, i n	ligament
musculus, i m	muscle

3rd declension

articulatio, ōnis f	joint
margo, ĩnis m	margin, border
pars, partis f	part
vas, vasis n	vessel

4th declension

ductus, us m	duct
pulsus, us m	pulse

1st group of adjectives

cardiacus, a, um	cardiac
coccygēus, a, um	coccygeal
compositus, a, um	complex
dexter, tra, trum	right
externus, a, um	external
iliacus, a, um	iliac
internus, a, um	internal
hyoideus, a, um	hyoid (bone)
hypoglossus, a, um	hypoglossal (canal)
liber, ěra, ěrum	free
longus, a, um	long
lymphaticus, a, um	lymphatic
magnus, a, um	large (vein), magnus (adductor), great (nerve)
mastoideus, a, um	mastoid
palatīnus, a, um	palatine
petrōsus, a, um	stony
profundus, a, um	deep
sacer, cra, crum	sacral (bone)
sinister, tra, trum	left

thoracicus, a, um

thoracic

2nd group of adjectives

articulāris, e

articular

brevis, e

short

celer, ěris, ěre

celer (pulse), swift

communĭcans, ntis

communicative

costālis, e

costal

frontālis, e

frontal

impar, āris

impar, unpaired

nasālis, e

nasal

occipitālis, e

occipital

sacrālis, e

sacral

sapiens, entis

intelligent, clever

simplex, ĭcis

simple

sublinguālis, e

sublingual (excepting bone)

superficiālis, e

superficial

teres, ětis

round (excepting foramen)

II. English–Latin glossary

artery

arteria, ae f

carotid

carotĭcus, a, um

cervical

cervicālis, e

column

columna, ae f

complex

compositus, a, um

costal

costālis, e

deep

profundus, a, um

dental

dentālis, e

duct

ductus, us m

external

externus, a, um

hepatic

hepatĭcus, a, um

hyoid

hyoideus, a, um (os)

joint

articulatio, ōnis f

lacrimal

lacrimālis, e

lateral

laterālis, e

ligament

ligamentum, i n

lingual

linguālis, e

left

sinister, tra, trum

long

longus, a, um

lymphatic

lymphatĭcus, a, um

mastoid

mastoideus, a, um

medial

mediālis, e

occipital

occipitālis, e

oval

ovālis, e

palatine

palatĭnus, a, um

prominent

promĭnens, entis

pterygoid

pterygoideus, a, um

right	dexter, tra, trum
sacral	sacrālis, e (except for os)
short	brevis, e
superficial	uperficiālis, e
sublingual	sublingualis, e (except for os and nervus)
vein	vena, ae f
venous	venōsus, a, um
vertebral	vertebrālis, e
vessel	vas, vasis n

LESSON 5

DEGREES OF COMPARISON OF ADJECTIVES.

PECULIARITIES OF THE USE OF COMPARATIVE AND SUPERLATIVE DEGREES IN ANATOMICAL TERMS

Comparative and superlative as degrees of comparison exist both in English and Latin, that's why there is no need to explain the essence of these grammar phenomenon. It is more essential to note that in the international medical nomenclatures, the forms of comparative and superlative have a relatively narrow sphere of use. Most frequently they are used in the anatomical terminology. As to the grammar formation, both comparative and superlative are built from the stem of the positive degree, that is from the dictionary form of the adjective.

To form the compative degree, it is necessary: 1) to find the stem of the positive degree and 2) to add the suffix **-ior** for the masculine and feminine forms and **-ius** for the neutral form:

Positive degree	Stem	Comparative masculine and feminine form	Comparative neutral form	Translation
longus, a, um (long) ruber, bra, brum (red) simplex, ĩcis (simple)	long- rubr- simplic-	longior rubrior simplicior	longius rubrius simplicius	longer redder more simple

The full dictionary form of the masculine and the feminine has the ending **-ior** while the neutral form has **-ius**:

longior, ius (written dictionary form)	longior, longius (oral form)
rubrior, ius (written dictionary form)	rubrior, rubrius (oral form)
simplicior, ius (written dictionary form)	simplicior, simplicius (oral form)

Adjectives in the comparative degree have the same pattern of declension as nouns of the third declension. Their distinctive feature is the ending **-ōris** in the Genitive:

Nominative form of comparative	Genitive form of comparative	Stem
longior (m, f) longius (n)	longiōris	longior-

rubrior (m, f) rubrius (n)	rubriōris	rubrior-
simplicior simplicius	simpliciōris	simplicior-

The grammar agreement of the comparative form with nouns follows the common rules:

Positive degree	Comparative degree
m m processus longus	m m processus longior
n n ligamentum longius	n n ligamentum longius
f f costa longa	f f costa longior
n n systema simplex	n n systema simplicius

In anatomical (and histological) terminology only limited forms of adjectives in the comparative degree are used. First of all, comparative forms of the adjectives great (large) and little (small) are used:

Positive degree of Latin adjective	English equivalents	Comparative form of Latin adjectives	English anatomical equivalents
magnus, a, um	great, large	maior (major) maius (majus)	greater, larger, major
parvus, a, um	little, small	minor, minus	lesser, smaller, minor

In the forms minor, minus we don't see the full endings -ior, -ius, but that is a distinctive feature of these forms to remember.

In anatomical terminology four adjectives in the comparative form are also used, although from the point of view of English, not every of such forms expresses comparison:

Latin masculine and feminine form	Latin neural form	Latin dictionary form	English anatomical equivalent
anterior	anterius	anterior, ius	anterior
posterior	posterius	posterior, ius	posterior
superior	superius	superior, ius	upper, superior
inferior	inferius	inferior, ius	lower, inferior

Thus, only 6 adjectives in the comparative degree are used in Latin anatomical terminology:

Latin dictionary form	Genitive form	Stem
anterior, ius	anteriōris	anterior-
posterior, ius	posteriōris	posterior-
superior, ius	superiōris	superior-
inferior, ius	inferiōris	inferior-
major, ius	majōris	major-
minor, us	minōris	minor-

We should note that the stem of the adjectives in the comparative degree coincides with the Nominative masculine and feminine forms ending with -ior.

The Genitive singular form in the comparative degree is formed by adding the ending **-is** to the stem.

It is necessary to remember that Latin adjectives in the comparative degree are always placed last in the multiword term:

facies articularis superior — *superior articular surface*

musculus obliquus capitis inferior — *inferior oblique muscle of head*.

Commonly, the superlative degree is formed by adding the suffix -issim- and gender endings -us, -a, -um to the stem of the positive degree:

Positive degree	Stem	Superlative degree	English equivalent
latus, a, um (broad, vast, wide)	lat-	latissimus, a, um	the broadest (vastest, widest), latissimus (in Anatomy)
longus, a, um (long)	long-	longissimus, a, um	the longest
subtilis, e (fine)	subtil-	subtilissimus, a, um	the finest

Some forms of superlative degree are formed in a special way:

Initial form	Superlative degree	English anatomical equivalent
magnus, a, um (great)	maximus, a, um	the greatest, maximus
parvus, a, um (little, small)	minimus, a, um	the least, minimus
inferior, ius (inferior, lower)	imus, a, um	lower, imus
superior, ius (superior, upper)	supremus, a, um	supreme, the highest

The dictionary form of adjectives in the superlative degree is similar to adjectives of the first group with the endings -us, -a, um. They are declined also like the adjectives of the first group and their stem is determined similarly.

The quality of great (large) or little (small) can be expressed in Latin anatomical terminology by different forms of comparison degrees but the use of these forms, as a rule, is strictly regulated. As to English equivalent forms, unfortunately, we don't observe here such a strict regulation. Moreover, different variants of above mentioned adjectives in different editions of «The International Anatomical Terminology» are used. In this textbook we have decided to use only the terms presented in the last official edition, that is «International Anatomical Terminology. FCAT. Federative Committee on Anatomical Terminology» — Stuttgart — New York: Thieme, 1998. It is necessary to stress that in this edition, the above mentioned Latin adjectives in comparative and superlative forms are namely used as English anatomical equivalents.

Let us systematize the forms of comparison degrees of the above mentioned adjectives:

Latin positive degree	English equivalent	Latin comparative degree	English anatomical equivalent	Latin superlative degree	English anatomical equivalent

magnus, a, um	great, large, magnus	major, majus	greater, larger, major	maximus, a, um	maximus, major
parvus, a, um	little, small	minor, minus, smaller	lesser, smaller, minor	minimus, a, um	minimus, little

Now some notes about the use of Latin degree comparison forms that you should remember.

1. Forms **magnus** / **parvus** are used, if a solitary anatomical structure is indicated:

forāmen (occipitāle) magnum — *foramen (occipital) magnum*

arteria pancreatīca magna — *greater pancreatic artery*

vena magna cerēbri — *great cerebral vein*

nervus aureculāris magnus — *great auricular nerve*

muscūlus adductor magnus — *adductor magnus muscle*

nucleus magnus — *large nucleus*.

2. Forms **major** / **minor** are used if dimensions of two similar and placed next to each other anatomical structures are compared:

ala major / ala minor — *greater wing / lesser wing*

pelvis major / pelvis minor — *greater pelvis / lesser pelvis*

nervus petrōsus major / nervus petrosus minor — *greater petrosal nerve / lesser petrosal nerve*

muscūlus pectorālis major / muscūlus pectorālis minor — *pectoral major muscle / pectoral minor muscle*

musculus teres major / musculus teres minor — *teres major muscle / teres minor muscle*.

There are some exceptions from this rule:

muscūlus adductor magnus / muscūlus adductor minimus — *adductor magnus / adductor minimus*

vena cardiāca magna / vena cardiāca parva — *great cardiac vein / small cardiac vein*

vena saphēna magna / vena saphēna parva — *great saphenous vein / small saphenous vein*.

The forms major / minor are most common in Latin anatomical terminology. As for English equivalents of such terms there is no, unfortunately, universal pattern of systematization of their use, and some irregular translation variants sometimes should be used, compare:

anūlus irīdis major — *outer border of iris*

anūlus irīdis minor — *inner border of iris*.

One more example. It isn't clear why the equivalent to *arteria pancreatīca magna* in English is *greater pancreatic artery*, though there isn't any artery with the opposite sense (lesser, smaller, minor) near this artery. Such examples can be numerous.

3. Forms maximus / minimus are used in two meanings:

a) in the meaning of the positive degree parvus (little):

digītus minīmus — little finger (in the list of the terms of general anatomy).

But in terms with the noun muscle are so-called Latin Technical Termini (naturally, in English pronunciation as in other similar cases) used:

musculus extensor digīti minīmi — *extensor digiti minimi*

musculus adductor digīti minīmi brevis — *adductor digiti minimi brevis*

musculus oppōnens digīti minīmi — *opponens digiti minimi*.

In these cases the English equivalent *minimus* is to be understood as «the least».

b) forms **maxīmus** / **minīmus** only in the meaning the greatest / the least are used in the following terms:

musculus glutēus maxīmus — *gluteus maximus muscle*

musculus glutēus minīmus — *gluteus minimus muscle*

musculus scalēnus minīmus — *scalenus minimus muscle*

And only in one case the English form of the superlative degree is used:

foramīna venārum minimārum — openings of the smallest (cardiac) veins.

1. Write down the dictionary form of each word, translate it into English and make up the Genitive form of each word combination:

ala major; cartilāgo alaris major; cornu majus; facies anterior; ganglion cervicāle superius; incisūra vertebrālis inferior; ligamentum longitudināle anterior; nervus alveolāris inferior; pelvis major; spina tympanīca major; sulcus minor, tuberculum majus.

2. Write down the dictionary form and translate into English:

arcus anterior atlantis; arteria thyroidea ima; concha nasālis suprēma; crista tubercūli majōris; facies anterior partis petrōsae; fossa cranii anterior; labium faciēi inferius; musculus longissīmus capītis (thorācis); musculus palpēbrae superioris; nervus splanchnīcus imus, paries anterior gastris; pars libēra membri superioris; plica duodēni major; spina iliāca posterior inferior; sulcus sinus petrōsi inferioris; vena saphēna parva.

3. Write down the dictionary form and translate from English into Latin:

adductor magnus muscle; anterior ethmoidal opening; bursa of the broadest muscle of back; crest of greater tubercle; gluteus minimus muscle; great auricular nerve; lesser horn; greater palatine groove; greater petrosal nerve; groove for inferior petrosal sinus; groove for lesser petrosal nerve; highest nuchal line; inferior surface of the tongue; large nucleus; latissimus dorsi (muscle); lesser pelvis; lesser splanchnic nerve; lesser wing of sphenoidal bone; lower articular process; lower lip; major sublingual duct; posterior longitudinal ligament; small saphenous vein; smaller rhomboid muscle; superior nerve node; teres minor muscle; upper (lower) head.

Attention! Constructions with the preposition **for** + **adjective** + **noun** are to be translated into Latin as the **Genitive form without a preposition**: canal for vertebral artery — canālis arteriae vertebrālis.

I. Latin–English vocabulary

Nouns of the 1st declension

ala, ae f	wing
concha, ae f	concha (shell-shaped hole)
crista, ae f	crest
fossa, ae f	fossa (little hole)
palpēbra, ae f	eyelid
plica, ae f	fold
spina, ae f	spine

Nouns of the 2nd declension

duodēnum, i n	duodenum
labium, i n	lip
membrum, i n	limb

Nouns of the 3rd declension

atlas, ntis m	atlas (the first cervical vertebra)
cartilāgo, ĩnis f	cartilage
gaster, tris f	stomach
paries, ětis m	wall
pelvis, is f	pelvis
thorax, ācis m	thorax, chest

Adjectives of the 1st group

imus, a, um	imus (ima), lower
longissĭmus, a, um	the longest
parvus, a, um	little, small
saphēnus, a, um	saphenous
suprēmus, a, um	supreme, the highest
thyr(e)oideus, a, um	thyroid

Adjectives of the 2nd group

alveolāris, e	alveolar
cervicālis, e	cervical
longitudinālis, e	longitudinal
vertebrālis, e	vertebral

Adjectives in the form of comparative degree

anterior, ius	anterior
posterior, ius	posterior
superior, ius	superior, upper
inferior, ius	inferior, lower
major, ius	major, greater
minor, ius	minor, lesser, smaller

II. English–Latin glossary

anterior	anterior, ius
----------	---------------

auricular	auriculāris, e
adductor	(muscūlus) adductor, ōris m
back	dorsum, i n
broadest	latissīmus, a, um
bursa (pouch, sac)	bursa, ae f
ethmoidal	ethmoidālis, e
gluteal	glutēus, a, um
greater	major, jus
head	caput, ĩtis n
highest	suprēmus, a, um
imus, ima	imus, a, um
inferior	inferior, ius
large	magnus, a, um
latissimus	latissīmus, a, um
lesser	minor, us
lip	labium, i n
longitudinal	longitudinālis, e
lower	inferior, ius
magnus, magnum	magnus, a, um
major	major, jus
minimus	minīmus, a, um
minor	minor, us
nerve node	ganglion, i n
nucleus	nucleus, i m
nuchal	nuchālis, e
pectoral	pectorālis, e
petrosal	petrōsus, a, um
rhomboid	rhomboideus, a, um
saphenous	saphēnus. a, um
smaller	minor, us
sphenoidal	sphenoidālis, e
splanchnic	splanchnīcus, a, um
superior, upper	superior, ius
thyroid	thyr(e)oideus, a, um

LESSON 6

THE MASCULINE GENDER IN THE THIRD DECLENSION OF NOUNS. NAMES OF MUSCLES PERFORMING DIFFERENT FUNCTIONS

All masculine names in the third declension may be grouped according to the following table:

Nominative ending	Genitive ending	Example	Exceptions
-------------------	-----------------	---------	------------

Nominative ending	Genitive ending	Example	Exceptions
-er	-ēris -ērīs -tris	trochanter, ēris m <i>trochanter</i> vomer, ēris m <i>vomer</i> venter, ntris m <i>belly of the muscle</i>	cadāver, ěris n <i>cadaver, dead body</i> tuber, ěris n <i>tuber</i> gaster, tris f <i>stomach</i> mater, tris f 1) <i>mater</i> , 2) <i>cerebral coat</i>
-es	-ēdis -ētīs	pes, pedis m <i>foot</i> paries, ětis m <i>wall</i>	—
-ex	-īcis	cortex, ěcis m <i>cortex, crust</i>	—
-o	-īnis -ōnis	homo, ěnis m <i>man</i> pulmo, ōnis m <i>lung</i>	—
-or	-ōris	tumor, ōris m <i>tumor</i>	arbor, ōris f <i>tree</i> cor, cordis n <i>heart</i>
-os	-oris	flos, floris m <i>flower</i>	os, oris n <i>mouth</i> os, ossis n <i>bone</i>

Learning by heart this table helps constitute agreement of adjectives and nouns.

1. The noun arbor is used to denote two anatomical structures having a shape similar to a tree:

a) arbor bronchiālis (bronchial tree)

b) arbor vitae cerebelli (arbor vitae of cerebellum, medullar body of cerebellum having a form of a tree in its sections).

2. The noun mater in the combination with adjectives takes the second place:

a) dura mater encephāli (cranialis) — dura mater of brain (cranial dura mater)

b) pia mater medullae spinālis — spinal pia mater

c) arachnoidea mater — arachnoid mater.

Latin names of muscles performing different functions (rotation, raising, pressing, bending and so on) consist of two words. The noun muscūlus (m.) is put in the first place with the name of the muscle following it:

m. (muscūlus) levātor — Levator (muscle)

m. (muscūlus) massēter — Masseter (muscle)

m. (muscūlus) tensor — Tensor (muscle).

As we see, English equivalents contain merely the name of a muscle. This rule relates to all muscle names of English anatomical terms.

It is important to remember that in Latin terms the following strict word order of muscle names is observed.

1. The noun muscle takes the 1st place.

2. The name of muscle takes the 2nd place.

3. The name of the structure, where the muscle is functioning, takes the third place and this name consisting of one or two words is always presented in the Genitive.

4. If the muscle has an adjective (*long, short, vast* and so on), this adjective is the last in the combination:

Extensor digiti minimi — *musculus extensor digiti minimi*

Flexor pollicis brevis — *musculus flexor pollicis brevis*

Pronator quadratus — *musculus pronator quadratus*

Tensor veli palatini — *musculus tensor veli palatini*

Levator anguli oris — *musculus levator anguli oris*.

As we can see, Latin technical terms predominate in English equivalents. Genuine English names are absent and Latin words are transliterated.

As to the Latin names of muscles which denote different functions, they are, as a rule, nouns of the third declension with the ending *-or*, more seldom *-er*. To be more precise, 18 muscles have the ending *-or* and only 3 — the ending *-er*.

In two cases, there are several muscle names to denote the same function. So muscles named *arrector, cremaster, levator* may fulfill elevation. The muscles *compressor, constrictor, sphincter* fulfill compression. In these cases every muscle has its certain sphere of application which is to be memorized.

1. Give the dictionary form of every word and translate from Latin:

ala vomeris; arachnoidea mater; arbor vitae cerebelli; cadaver hominis; cortex renalis; dura mater craniālis seu dura mater encephāli; paries externus ductus cochleāris; paries gastris posterior, pars superior pedis dextri; pia mater spinālis; tumor parietis gastris; venter anterior musculi digastrici; vestibulum oris.

2. Write down the dictionary form and translate into English:

angle of mouth; bronchial tree; cardiac notch of left lung; dorsal artery of foot; frontal tuber of cranium; greater trochanter and lesser trochanter; intelligent man (as a biological species); parietal tuber; pelvic part of ureter; posterior wall of stomach; right border of heart; sole of the foot; vomerine groove (= groove of vomer).

3. Write down the dictionary form and translate into English:

musculus adductor digiti minimi; musculus levator labii superiōris; musculus levator scapulae; musculus pronator quadratus; musculus sphincter pupillae; musculus tensor fasciae latae; pars profunda musculi masseteris.

4 Write down the dictionary form and translate from English into Latin:

Adductor minimus; Depressor of lower lip; Extensor indicis; Flexor digiti minimi brevis; Flexor pollicis longus; Rotator of neck; inferior Constrictor of pharynx; Tensor veli palatini

I. Latin–English dictionary

fascia, ae f
planta, ae f
pupilla, ae f
scapula, ae f
vita, ae f

cerebellum, i n
digītus, i m
vestibulum, i n

m. adductor, ōris m
arbor, ōris f
arbor vitae
cadāver, ěris n
cortex, ĭcis m
homo, ĭnis m
m. levator, ōris m
mater, tris f
m. massēter, ēris m
os, oris n
pes, pedis m
m. pronātor, ōris m
ren, renis m
seu
m. sphincter, ēris m
m. tensor, ōris m
tumor, ōris m
vomer, ēris m
venter, tris m

arachnoideus, a um
digastrīcus, a um
cochleāris, e
durus, a, um
dura mater
latus, a, um
fascia lata
pius, a, um
pia mater
quadrātus, a, um

cochleāris, e
craniālis, e
spinālis, e

fascia
sole
pupil
scapula, shoulder blade
life

Nouns of the 2nd declension

cerebellum
finger
vestibule

Nouns of the 3rd declension

adductor (bringing muscle)
tree
arbor vitae
cadaver (dead body)
cortex (crust)
man, a human
levator (elevating muscle)
mater (cerebral coat)
masseter (chewing muscle)
mouth
foot
pronator (muscle turning the forearm)
kidney
or
sphincter (compressing muscle)
tensor (straining muscle)
tumor (swelling, growth)
vomer
belly (of the muscle)

Adjectives of the 1st group

arachnoid
digastric
cochlear
solid
dura mater
broad
fascia lata
pia (mater)
pia mater
square, quadrate (muscle), quadratus (pronator)

Adjectives of the 3rd group

cochlear
cranial
spinal

II. English–Latin glossary

Adductor (bringing muscle)

m. adductor, ōris m

artery	arteria, ae f
border	margo, ĩnis m
bronchial	bronchiālis, e
Constrictor (compressing muscle)	m. constrictor, ōris m
cranium, skull	cranium, i n
Depressor (lowing muscle)	m. depressor, ōris m
digitus, digiti	digĭtus, i m
dorsal	dorsālis, e
Extensor (unbending muscle)	m. extensor, ōris m
Flexor (bending muscle)	m. flexor, ōris m
foot	pes, pedis m
frontal	frontālis, e
groove	sulcus, i m
heart	cor, cordis n
index, indicis (index finger)	index, ĩcis m
intelligent (a human)	sapiens, ntis
lung	pulmo, ōnis m
man, a human	homo, ĩnis m
mouth	os, oris n
notch	incisura, ae f
or	seu
parietal	parieālis, e
pelvic	pelvĭcus, a, um
pharynx	pharynx, yngis m
pollex, pollicis (thumb)	pollex, ĩcis m
Rotator (rotating muscle)	m. rotātor, ōris m
sole	planta, ae f
stomach	gaster, tris f
Tensor (straining muscle)	m. tensor, ōris m
tree	arbor, ōris f
trochanter	trochanter, ēris m
tuber	tuber, ěris n
ureter	urēter, ēris m
velum, veli (curtain)	velum, i n
vomer	vomer, ěris m
wall	paries, ětis m

LESSON 7

THE FEMININE GENDER IN THE THIRD DECLENSION OF NOUNS

All feminine names in the third declension may be systematized in the following table:

Nominative ending	Genitive ending	Examples	Exceptions
-do	-ĭnis	longitūdo, ĩnis f <i>length</i>	tendo, ĩnis m <i>tendon, sinew</i>

Nominative ending	Genitive ending	Examples	Exceptions
-go	-īnis	cartilāgo, īnis f <i>cartilage</i>	margo, īnis m <i>border, edge</i>
-io	-ōnis	articulatio, ōnis f <i>joint</i>	—
-as	-ātis	cavitas, ātis f <i>cavity</i>	atlas, ntis m <i>atlas</i> ; pancreas, ātis n <i>pancreas</i> ; vas, vasis n <i>vessel</i>
-is	-is (parisylla-ba)	cutis, is f <i>skin</i>	axis, is m <i>axis</i> canālis, is m <i>canal</i> unguis, is m <i>nail</i>
-is	-īdis (imparisyllāba)	pyrāmis, īdis f <i>pyramid</i>	pulvis, ěris m <i>powder</i> sanguis, īnis m <i>blood</i>
-us	-ūdis	incus, ūdis f <i>incus</i> , <i>a little bone of the ear</i>	—
consonant + s	consonant +tis	pars, partis f <i>part</i>	dens, dentis m <i>tooth</i>
vowel + x (except -ex)	vowel + -cis vowel + -gis	radix, īcis f <i>root</i>	fornix, īcis m <i>fornix, arch</i> hallux, ūcis m <i>hallux, toe</i> coccyx, ŷgis m <i>coccyx, tail-bone</i> thorax, ācis m <i>thorax, chest</i>
consonant + x	consonant + -cis consonant + -gis	falx, falcis f <i>falx, sickle</i> phalanx, ngis f <i>phalanx</i>	larynx, ngis m <i>larynx</i> pharynx, ngis m <i>pharynx</i>

1. Write down the dictionary form, translate from Latin into English:

articulatio capitis costae; axis bulbi externus; basis pyramidis renalis; cartilago alaris major; cavitas oris propria; cervix dentis canini; diameter pelvis transversa; margo ciliaris iridis; margo liber unguis; margo uteri dexter; meatus acusticus auris sinistrae; os coccygis; ostium appendicis vermiformis; pars libera gingivae; plexus venosus canalis nervi hypoglossi; regio brachii posterior; sanguis venosus et arteriosus; tuberositas phalangis distalis; vas lymphaticum superficiale

2. Write down the dictionary form, translate into Latin:

accessory pancreas; anterior arch of atlas; blood vessel of hallux; body of nail; canal of greater petrosal nerve; cartilage of nasal septum; thoracic cavity; ciliary margin of iris; endocrine part of pancreas; fornix of pharynx; free part of upper (lower) limb; greater palatine canal; head of phalanx; inguinal falx or conjoint tendon; knee joint; laryngeal vestibule (= vestibule of larynx); neck of the tooth; left medial division; anular part of fibrous sheath; root canal of tooth; superior ligament of incus; surface of incisor tooth; taile of pancreas; third molar tooth or wisdom tooth; tuberosity of distal phalanx; tympanic cavity of middle ear.

§ 45. Vocabulary to lesson 7

I. Latin–English dictionary

Nouns of the 1st declension

cauda, ae f
gingiva, ae f
tunica, ae f

tail
gingiva, gum
membrane

brachium, i n	arm
bulbus, i m	eyeball
diamēter, tri f	diameter
ostium, i n	orifice
utērus, i m	uterus
Nouns of the 3rd declension	
appendix, ĩcis f	appendix
auris, is f	ear
cavĭtas, ātis f	cavity
cervix, ĩcis f	cervix
cutis, is f	skin
coccyx, ŋgis m	coccyx, coccygeal bone
fornix, ĩcis m	vault (of pharynx)
iris, ĩdis f	iris (central part of the eye)
phalanx, ngis f	phalanx
pyrāmis, ĩdis f	pyramid
sanguis, ĩnis m	blood
unguis, is m	nail
Nouns of the 4th declension	
meātus, us m	meatus
plexus, us m	plexus
Adjectives of the 1st group	
arteriōsus, a um	arterial
acustĭcus, a, um	acoustic (meatus)
canĭnus, a um	canine
proprius, a, um	proper
transversus, a, um	transverse
venōsus, a, um	venous
Adjectives of the 2nd group	
alāris, e	alar
ciliāris, e	ciliary
distālis, e	distal
renālis, e	renal
superficiālis, e	superficial
vermiformis, e	vermiform

II. English–Latin glossary

accessory	accessorius, a, um
anular, ring-shaped	anulāris, e
blood	sanguis, ĩnis m
cartilage	cartilāgo, ĩnis f
cavity	cavĭtas, ātis f
ciliary	ciliāris, e
conjoint	conjunctĭvus, a, um

distal	distālis, e
division	divisio, ōnis f
ear	auris, is f
endocrine	endocrīnus, a, um
falx	falx, falcis f
fibrous	fibrōsus, a, um
fornix	fornix, ĩcis m
free	liber, ěra, ěrum
hallux	hallux, ūcis m
incisor	incisīvus, a um
incus	incus, ūdis f
inguinal	inguinalis, e
iris	iris, ĩdis f
larynx	larynx, yngis m
limb	membrum, i n
margin	margo, ĩnis m
medial	mediālis, e
middle	medius, a, um
molar	molāris, e
molar tooth	dens molāris
nail	unguis, is m
nasal	nasālis, e
pancreas	pancreas, ātis n
phalanx	phalanx, ngis f
sheath	vagīna, ae f
septum, dividing wall	septum, i n
surface	facies, ěi f
tail	cauda, ae f
third	tertius, a, um
tendon	tendo, ĩnis m
thoracic	thoracīcus, a, um
tympanic	tympanīcus, a, um
vestibule	vestibŭlum, i n
wisdom	sapientia, ae f

LESSON 8

THE NEUTRAL GENDER IN THE THIRD DECLENSION OF NOUNS

All neutral names in the third declension may be systematized in the following table:

Nomina-tive ending	Genitive ending	Examples	Exception
-al	-ālis	anīmal, ālis n <i>animal</i>	—
-ar	-āris	calcar, āris n <i>spur</i>	—
-e	-is	rete, is n <i>network</i>	—

Nomina-tive ending	Genitive ending	Examples	Exception
-en	-īnis	abdōmen, īnis n <i>abdomen</i>	lien, ēnis m <i>spleen</i> ren, renis m <i>kidney</i> pecten, īnis m <i>pecten, crest</i>
-ma (words of Greek origin)	-ātis	diaphragma, ātis n <i>diaphragm</i>	forma, ae f <i>form</i> ; gemma, ae f bud; mamma, ae f <i>breast</i> ; norma, ae f <i>norm</i> ; rima, ae f <i>rima, fissure, opening</i> ; squama, ae f <i>squamous part, scales</i> ; struma, ae f <i>goiter</i>
-ur	ōris ūris	femur, ōris n <i>femur, thigh bone</i> sulfur, ūris n <i>sulphur</i>	—
-us	ēris ōris uris	glomus, ēris n <i>glomus</i> pectus, ōris n <i>chest</i> crus, cruris n (1. <i>shank, leg</i> ; 2. <i>crus, limb (auditory ossicle)</i> ; 3. <i>bundle (of myocardium)</i>)	—
-ut	-ītis	caput, ītis n <i>head</i>	—

Attention! In the noun *hepar* the last but one vowel of the Genitive form is short: hepātis. Moreover, the stem of this form contains the consonant «t»: *hepat-*.

Now, after having analyzed practically all noun endings of the third declension in the Nominative and the Genitive you can see that sometimes nouns of different gender and declension may possess the same ending in the Nominative. We can single out at least three groups of such nouns.

1. The most numerous are the nouns with the final element **-us** in the Nominative. Such nouns are found in the 2nd declension and are, as a rule, masculine, but, as we shall see in the pharmaceutical part of our course, the names of trees with the ending **-us** are feminine. Compare:

musculus, i m; sulcus, i m **but: Eucalyptus, i f.**

The ending **-us** may have the nouns of the feminine and neutral genders belonging to the 3rd declension:

incus, ūdis f; corpus, ōris n.

Finally, not only the nouns of the masculine gender (ductus, us m; processus, us m) have the ending **-us** in the 4th declension. You should memorize the noun manus, us f (hand), and in the pharmaceutical part you will come across the word Quercus, us f (oak).

2. When studying the endings of the neutral gender in the 3rd declension you could pay attention to the two groups of the nouns with the ending **-ma**:

1) diaphragma, ātis n (nouns of Greek origin) but

2) gemma, ae f (seven nouns of Latin origin).

3. Finally, let us analyse the nouns with the ending **-er**. They are not very numerous and may occur among masculine nouns of the 2nd declension (cancer, cri m). Some of them may be feminine (diameter, tri f). The nouns of the 3rd de-

clension with such an ending may be masculine (trochanter, ēris m), feminine (mater, tris f) and neutral (tuber, ěris n).

Summing up, we have to conclude that a Nominative ending can never give us complete and correct information about the grammar status of a noun. We should memorize every noun only in the dictionary form with all its three elements. Only in this way we can avoid making bad grammar mistakes.

1. Make up grammar agreement of the adjectives with the following nouns:

arcus (dentālis, e; superior, ius; venōsus, a, um); caput (longus, a, um; brevis, e; anterior, ius); cartilāgo (accessorius, a, um; major, jus; alāris, e); crus (ampullāris, e; osseus, a, um; dexter, tra, trum); ligamentum (latus, a, um; longitudinālis, e; minor, us); margo (sinister, tra, trum; teres, ětis; superior, ius); paries (posterior, ius; internus, a, um; simplex, ĭcis); rete (venōsus, a, um; articulāris, e; simplex, ĭcis); tuber (frontālis, e; anterior, ius; major, jus).

2. Write down the dictionary form and translate into English:

calicūlus gustatorius seu gemma gustatoria; corpus adipōsum orbītae; corpus femōris; crus anterius capsūlae internae; diaphragma pelvis; forāmen mastoideum ossis temporālis; glomus carotīcum; pecten ossis pubis; porta hepātis; rima vestibūli laryngis; margo lateralis renis dextri; squama ossis occipitālis; systēma respiratorium.

3. Write down the dictionary form of each word, translate into Latin:

accessory spleen; anterior region of thigh; body of gallbladder; central nervous system; culmen of the body of cerebellum; dorsal venous network of hand; epigastric region of abdomen; fissure for ligamentum longum of liver; forehead and occiput of head; gastric impression of spleen; hand region; inferior segment of right kidney, lactiferous duct of breast; left crus of diaphragm; mobile liver; optic chiasm; pulvinar of thalamus; rete mirabile; simple membranous crus; squamous part of frontal bone; stroma and parenchyma of thyroid gland; stroma of iris; tegmen of the fourth ventricle; the longest muscle of head.

I. Latin–English vocabulary

capsūla, ae f	capsula
gemma, ae f	bud
orbīta, ae f	orbit
porta, ae f	porta (gate of the liver)
rima, ae f	fissure, opening
squama, ae f	squamous part, scales
vesīca, ae f	bladder

2nd declension

calicūlus, i m (gustatorius)	bud
segmentum, i n	segment

3rd declension

crus, cruris n	1) shank, leg 2) crus, limb (of auditory ossicle) 3) bundle (of myocardium)
diaphragma, ātis n	diaphragm
femur, ōris n	femur, thigh bone
gemma, ae f	bud
hepar, ātis n	liver
glomus, ěris n	body, enlargement (choroidal), glomus (aortic)
pecten, ĩnis m	pecten
pubes, is f	pubis
rete, is n	1) rete (mirabile) 2) network (dorsal venous network of hand)
systema, ātis n	system

Adjectives of the 1st group

adipōsus, a, um	fat
carotĭcus, a, um	carotid
felleus, a, um (= biliaris, e)	gall (+Noun)
gustatorius, a, um	taste (+Noun)
osseus, a, um	bony
respiratorius, a, um	respiratory

Adjectives of the 2nd group

ampullāris, e	ampullary
biliāris, e (=felleus, a, um)	gall (+Noun)
dentālis, e	dental
longitudinālis, e	longitudinal

II. English–Latin vocabulary

breast	mamma, ae f
central	centrālis, e
chiasm (chiasma)	chiasma, ātis n
crus	crus, cruris n
culmen	culmen, ĩnis n
diaphragm	diaphragma, ātis
epigastric	epigastrĭcus, a, um
fissure	fissūra, ae f
forehead	sincĭput, ĩtis n
fourth	quartus, a, um
gallbladder	vesĭca fellea (= vesĭca biliāris)
gastric	gastrĭcus, a, um
gland	glandŭla, ae f
hand	manus, us f
impression	impressio, ōnis f
lactiferous	lactifěrus, a, um
liver	hepar, ātis n
membranous	membranaceus, a, um
mirabile	mirabilis, e
mobile	mobĭlis, e
nervous	nervōsus, a, um

occiput
 optic
 parenchyma
 pulvinar
 rete
 spleen
 squamous
 stroma
 system
 tegmen
 thalamus
 thigh
 ventricle

occiput, ĭtis n
 optĭcus, a, um
 parenchĕma, ātis n
 pulvĭnar, āris n
 rete, is n
 lien, ēnis m
 squamōsus, a, um
 stroma, ātis n
 systĕma, ātis n
 tegmen, ĭnis n
 thalāmus, i m
 femur, ōris n
 vertricŭlus, i m

LESSON 9

NOMINATIVE PLURAL OF NOUNS AND ADJECTIVES

The Nominative plural forms for both nouns and adjectives are formed by adding the Nominative plural endings to their stem. These endings, particularly in the 2nd, 3rd and 4th declensions, depend on the gender and declension of nouns and adjectives, as shown in this table:

Declension	Gender	Nominative Singular	Stem	Nominative Plural endings	Nominative Plural Form
I	f	vertebra thoracica	vertebr-thorac-	-ae	vertebrae thoracicae
II	m	sulcus dexter	sulc-dextr-	-i	sulci dextri
	n	septum latum ganglion oticum	sept-lat-gangli-otic-	-a	septa lata ganglia otica
III	m	homo sapiens	homin-sapient-	-es	homĭnes sapientes
	f	pars commūnis	part-commun-	es	partes commūnes
	n	rete mirabile	ret-mirabil-	-ia	retia mirabilia
foramen anterius		foramin-anterior-	-a	foramĭna anteriōra	
IV	m	processus	process-	-us	processus
	n	cornu	corn-	-ua	cornua
V	f	facies	faci-	-es	facies

As we can observe, only neutral nouns of the 3rd declension have two variants. The following rules of their ending differentiation are to be memorized.

1. Neutral nouns with the endings **-al**, **-ar**, **-e** in the Nominative singular get the ending **-ia**:

animal (Nom. sing.) — animalia (Nom. plur.)
 pulvīnar (Nom. sing.) — pulvinaria (Nom. plur.)
 rete (Nom. sing.) — retia (Nom. plur.).

2. Neutral adjectives of the 3rd declension except for adjectives in the comparative form get the ending **-ia**:

Dictionary form	Neutral form	Stem	Nominative Plural form
acer, cris, cre	acre	acr-	acria
celer, ěris, ěre	celěre	celěr-	celeria
frontālis, e	frontāle	frontāl-	frontālia
brevis, e	breve	brev-	brevia
sapiens, ntis	sapiens	sapient-	sapientia
impar, āris	impar	impar-	imparia
simplex, ĩcis	simplex	simplic-	simplicia

Nouns which don't belong to the first point of the shown above rule as well as adjectives in the comparative form get the ending **-a** in the Nominative plural:

foramen superius (sing.) — *foramīna superiōra* (plur.)
 caput minus (sing.) — *capīta minōra* (plur.).

A certain number of nouns in the anatomical terms is used in the shortened forms. You have to memorize these abbreviations:

Singular form		Plural form	
Full form	Abbreviation	Full form	Abbreviation
arteria	A.	arteriae	Aa.
bursa	B.	bursae	Bb.
forāmen	F.	foramīna	Forr.
ganglion	Gangl.	ganglia	Gangll.
glandŭla	Gl.	glandŭlae	Gll.
ligamentum	Lig.	ligamenta	Ligg.
Singular form		Plural form	
muscŭlus	M.	muscŭli	Mm.
nervus	N.	nervi	Nn.
nucleus	Nucl.	nuclei	Nucll.
ramus	R.	rami	Rr.
vagīna	Vag.	vagīnae	Vagg.
vena	V.	venae	Vv.

1. Write down the dictionary form, translate into Latin and then make up the Nominative plural of each word combination:

cervical surface; coccygeal horn; greater palatine canal; impar ganglion; inferior nuchal line; jugular foramen; posterior tubercle; rete mirabile; sphenoidal process; superior nasal meatus; temporal fossa; thoracic region; tympanic cavity; zygomatic bone.

2. Write down the dictionary form and translate into English:

Aa. ciliāres posteriōres breves; cartilagīnes laryngis; Forr. palatīna minōra; Gangll. pelvīca; Gll. thyroideae accessoriae; impressiōnes digitātae seu juga cerebrialia; labia oris; Ligg. collateralia; Mm. rotatōres cervīcis; Nn. splanchnīci sacrāles; nomīna anatomīca; Nucll. vestibulāres; orgāna oculi accessoria; ossa craniī; partes corpōris humāni; plicae transversae recti; radīces craniāles; rami capsūlae internae; rami cardiāci thoracīci; Rr. dorsāles linguae; regiōnes membri superiōris; systemāta genitalia masculīnum et feminīnum; Vv. hepaticae dextrae; Vv. temporāles profundae.

3. Write down the dictionary form and translate into Latin:

anterior and posterior divisions; auditory ossicles; blood vessels of retina; borders of the nail; cavities of the body; costal notches; cranial nerves and sutures; eyebrows and eyelashes; general terms; incisive canals; joints of pelvic girdle; lesser palatine foramina; minor salivary glands; muscular branches of common fibular (peroneal) nerve; muscles of back proper; permanent teeth; planes, lines and regions; posterior ethmoidal cells; renal pyramids; true and false ribs; transverse folds of rectum; roots, trunks and cords of brachial plexus

I. Latin–English vocabulary

1st declension

femīna, ae f	woman
plica, ae f	fold
sutūra, ae f	suture

2nd declension

jugum, i n	yoke
ramus, i m	branch
rectum, i n	rectum
vir, i m	man

3rd declension

impressio, ōnis f	impression
nomen, ĩnis n	name

Adjectives of the 1st group

anatomīcus, a, um	anatomical
digitātus, a, um	digitate
humānus, a, um	human
otīcus, a, um	otic

Adjectives of the 2nd group

alveolāris, e	alveolar
cerebrālis, e	cerebral
collaterālis, e	collateral
dorsālis, e	dorsal
genitālis, e	genital

II. English–Latin glossary

brachial	brachiālis, e
branch	ramus, i m

cell	cellūla, ae f
cord	fascicūlus, i m
division	divisio, ōnis f
eyebrow	supercilium, i n
eyelash	cilium, i n
false	spurius, a, um
fibular (= peroneal)	fibulāris (= peronēus, a, um)
fold	plica, ae
fossa	fossa, ae f
general	generālis, e
girdle	cingūlum, i n
jugular	jugulāris, e
impar	impar, āris
incisive	incisīvus, a, um
line	linea, ae f
mirabile	mirabīlis, e
muscular	musculāris, e
notch	incisūra, ae f
ossicle	ossicūlum, i n
permanent	permānens, ntis
plane	planum, i n
proper	proprius, a, um
retina	retīna, ae f
salivary	salivarius, a, um
suture	sutūra, ae f
true	verus, a, um
trunk	truncus, i m
term	termīnus, i m
zygomatic	zygomatīcus, a, um

LESSON 10

GENITIVE PLURAL OF NOUNS AND ADJECTIVES

Both nouns and adjectives get the Genitive plural forms by adding the Genitive plural endings to their stem depending mostly on noun and adjective declension, as one may see in the following table:

Declension	Gender	Nominative singular	Stems	Genitive plural endings	Genitive plural forms
I	f	vertēbra thoracīca	vertebr- thoracic-	-ārum	vertebrārum thoracicārum
II	m	sulcus	sulc-	-ōrum	sulcōrum
	n	dexter ganglion otīcum	dextr- gangl- otic-		dextrōrum gangliōrum oticōrum
	m	canālis brevis	canal- brev-		canalium brevium

III	f	dens permānens	dent- permanent-	-ium	dentium permanentium
	n	pars laterālis vertebrāle os simplex rete articulāre	part- lateral- vertebral- oss- simplic- ret- articular-		partium lateralium vertebrālium ossium simplicium retium articularium
	m	margo	margin-	-um	margīnum anteriōrum
		anterior	anterior-		articulatiōnum
	f	articulatio	articulation-		inferiōrum
		inferior	inferior-		foramīnum
n	forāmen	foramin-	majōrum		
	majus	major-			
IV	m	arcus	arc-	-uum	arcuum
	n	cornu	corn-		cornuum
V	f	facies	faci-	-ērum	faciērum

As we can see, masculine, feminine and neutral nouns and adjectives of the third declension have two variants of the endings.

The ending **-ium** is added to the stems of:

1. Parisyllaba, i. e. the masculine and feminine nouns which have equal number of syllables in the Nominative and Genitive: canālis, is m *canal*; basis, is f *base*.

2. Masculine, feminine and neutral nouns, if their stem ends with two consonants: dens, dentis m *tooth*; pars, partis f *part*; os, ossis n *bone*.

3. Neutral nouns with the endings **-al**, **-ar**, **-e** in the Nominative singular: animal, ālis n *animal*; calcar, āris n *calcar (spur)*; rete, is n *net, network*.

4. Masculine, feminine and neutral adjectives in the positive degree, see in the table above the adjectives articulāris, e articular; brevis, e short; laterālis, e lateral; permanens, ntis permanent; simplex, ĩcis simple.

The ending **-um** is added to the stems of:

1. All nouns which don't belong to the three first groups of the explained above rules, see, e. g., in the table the nouns margo, ĩnis m *border*; articulatio, ōnis f *joint*; forāmen, ĩnis n *opening*.

2. Masculine, feminine and neutral adjectives in the comparative degree, see in the table the adjectives anterior, ius *anterior*; inferior, ius *upper*; major, jus *major, larger, greater*.

Some Latin nouns are used only in plural and their dictionary forms are accordingly represented in the Nominative and Genitive plural: fauces, faucium f fauces; species, ērum (speciērum) f species.

Attention! The noun vas, vasis n *in singular* belongs to the third declension, but *in plural* — to the second one. Compare: *nervi vasis* — nerves of a vessel, but *nervi vasōrum* — nerves of the vessels.

1. Write down the dictionary form of each word and make up Genitive plural form of each word combination:

anterior tubercle; costal process; floating rib; greater wing; internal base; left spur; lesser opening; lesser sublingual duct; longitudinal ligament; long root; permanent tooth; posterior surface; respiratory region; right crest; sacral horn; short muscle; simple joint; venous network; vertebral canal.

2. Write down the dictionary form of each word and translate into English:

ligamenta ossiculōrum auditoriōrum; medulla ossium flava et rubra; musculi arrectōres pilōrum; musculi palati et faucium; nervi vasōrum lymphaticōrum; ostia venārum pulmonalium; plexus cavernōsi conchārum; processus accessorius vertebrārum lumbalium; situs viscērum inversus; vagīnae fibrōsae digitōrum manus.

3. Give the dictionary form and translate into Latin:

arteries of lower limbs; curvature of the stomach walls; dividing walls of the frontal sinuses; grooves for extensor muscle tendons; heads of the true, false and floating ribs; muscles of auditory ossicles; muscles of soft palate and fauces; nerves and vessels of vessels; nodules of semilunar cusps; sinuses of the venae cavae (Gen. plur.); surface of the permanent teeth; tubercles of thoracic vertebrae (Gen. plur.).

I. Latin–English vocabulary

Nouns of the 1st declension

medulla, ae f	medulla, marrow (bone)
vagīna, ae f (of muscle)	sheath

Nouns of the 2nd declension

ossicūlum, i n	ossicle
ostium, i n	opening
palātum, i n	palate
pilus, i m	hair

Nouns of the 3rd declension

m. arrector, oris m	arrector
fauces, i um f	fauces
viscus, ěris n; usually Plur. viscĕra, um n	viscera, inner organs

Nouns of the 4th declension

manus, us f	hand
situs, us m	site

Adjectives of the 1st group

auditorius, a, um	auditory
cavernōsus, a, um	cavernous
fibrōsus, a, um	fibrous
flavus, a, um	yellow

inversus, a, um
ruber, bra, brum

inverse
red

Adjectives of the 2nd group

lumbālis, e
pulmonālis, e

lumbar
pulmonary

II. English–Latin glossary

cavae
curvature
cusp
extensor (unbending muscle)
false
floating
limb
nodule
ossicle
palate
permanent
respiratory
semilunar
soft
spur
stomach
true
venae
wall

cavus, a, um
curvatūra, ae f
valvūla, ae f
m. extensor, ōris m
falsus, a, um
fluctuans, ntis
membrum, i n
nodūlus, i n
ossicūlum, i n
palātum, i n
permānens, ntis
respiratorius, a um
semilunāris, e
mollis, e
calcar, āris n
gaster, tris f
verus, a, um
vena, ae f
paries, ētis m

LESSON 11

ACCUSATIVE SINGULAR AND PLURAL OF NOUNS AND ADJECTIVES. PREPOSITIONS USED WITH THE ACCUSATIVE

The Latin Accusative case reflects the direct object by answering the questions «Whom? What?». In this function it corresponds to the Russian case called «Винительный» or in German — to the case Akkusativ.

Both nouns masculine and feminine as well as adjectives get the Accusative forms by adding the corresponding endings to their stem, as one may see in the table below. Neutral nouns and adjectives have no special Accusative endings: Accusative singular form corresponds to the form of the Nominative singular and the Accusative plural form — to the form of the Nominative plural:

Dec- len- sion	Gen- der	Nominative singular	Acc. sing. ending	Accusative singular form	Acc.pl. ending	Accusative plural form
I	f	vena cava	-am	venam cavam	-as	venas cavas
II	m	ramus dexter sulcus palatīnus	-um	ramum dextrum sulcum palatīnum	-os	ramos dextros sulcos palatīnos

	n	ganglion oticum septum longum	=Nom. sing.	ganglion oticum septum longum	=Nom. pl. (-a)	ganglia otica septa longa
III	m	margo anterior canālis nutriens	-em	margīnem ante- riōrem canālem nutrientem	-es	margīnes antriōres; canāles nutrientes
	f	pars laterālis basis simplex pelvis major	-em (-im)	partem laterālem basim simplici- cem pelvim majōrem	-es	partes laterāles bases simplices pelves majōres
	n	rete capillāre crus posterius	=Nom. sing.	rete capillāre crus posterius	=Nom. pl. (-a, -ia)	retia capillaria crura posteriōra
IV	m	processus	-um	processum	-us	processus
	n	cornu	=Nom. sing.	cornu	=Nom. pl. (-ua)	cornua
V	f	facies	-em	faciem	-es	facies

Some ending variants are seen in the third declension. Nouns in the Accusative singular can get endings **-im** or **-em**. The ending **-im** should have:

1. Nouns with the ending **-sis** in the Nominative singular:

basis, is f *basis* — basim dosis, is f *dose* — dosim.

2. Nouns pelvis, is f *pelvis* — pelvim; febris, is f *fever* — febrim; tussis, is f *cough* — tussim.

There are two ending variants in the Genitive plural, too. The ending **-ium** get:

1. Nouns parisyllaba of masculine and feminine gender:

basis, sis f — basium canālis, is f — canalium.

2. Nouns of the neutral gender with endings **-al**, **-ar**, **-e** in Nominative singular:

ānīmal, ālis n (*animal*) — animalium calcar, āris n (*spur*) — calcarium
rete, is n (*net, network*) — retium.

3. Nouns of masculine, feminine and neutral gender the stem of which ends with two consonants:

dens, dentis m (*tooth*) — dentium pars, partis f (*part*) — partium

os, ossis n (*bone*) — ossium.

4. Adjectives of the third declension of all gender forms being in the positive form:

brevis, e (*short*) — brevium permānens, ntis (*permanent*) — permanentium
simplex, ĩcis (*simple*) — simplicium.

Nouns not belonging to the first three points as well as adjectives in the comparative form get the ending **-um:**

pes, pedis m (*leg*) — pedum; articulatio, ōnis f (*joint*) — articulatiōnum;
forāmen, ĩnis n (*opening*) — foramīnum; anterior, ius (*anterior*) — anteriōrum.

Preposition	Meaning	Examples	Translation
ad	1) to, toward 2) for 3) during, in	ad nervum trigemīnum ad usum externum ad morbum hypertonicum	to the trigeminal nerve for the external use in the hypertonic disease

Preposition	Meaning	Examples	Translation
ante	before, in front of	ante operatiōnem ante pulmōnem dextrum	before the operation in front of the right lung
circum	(a) round	circum liēnem	around the spleen
contra	for	contra febrim	for the fever
in	in, into, on (when answering the question «where to?», Russian «куда?»)	in oesophāgum in partem dextram in canālem longum	into the oesophagus on the right part in the long canal
infra	below, under	infra cor	below (under) the heart
inter	among, between	inter vasa manus inter duo ossa	among the vessels of the hand between two bones
intra	inside	intra thorācem	inside the thorax
per	1) through, via 2) by (means of)	per canālem optīcum per ligamenta	through (via) the optic canal by (means of) the ligaments
post	after, behind	post operatiōnem post costam	behind the rib after the operation
sub	under (when answering the question where to?», Russian «куда?»)	sub scapūlam dextram sub ganglion submandibulāre	under the right shoulder blade under the submandibular ganglion
super, supra	above	super (supra) margīnem sinistrum supra (super) labium superius	above the left margin above the upper lip

1. Give the dictionary form of each word, make up forms of the Nominative singular, Accusative singular and plural:

anterior margin; ascending artery; external base; frontal surface; greater pelvis; hepatic duct; left lung; lesser horn; lymphatic vessel; nasal bone; right part; respiratory system; short nerve; vertebral canal.

2. Give the dictionary form of each word, translate into English:

adītus ad antrum; ante operatiōnem difficīlem; ante pulmōnem dextrum; circum oclum dextrum; in canālem dentis incisīvi; in pariētem gastris; inter ossa; intra venam faciālem; in muscūlos laryngis; per os; per pelvim minōrem; per rectum; post partum; rami ad medullam oblongātam; sub cor; sub ligamenta flava.

3. Give the dictionary form of each word, translate into Latin:

above the left lung; after death; among the incisors; before and after childbirth; between the leg bones; by means of the long canal; for cough; for internal (external) use; into the deep vein; inside the stomach artery; on the superior surface; round the mouth; through the abdomen; under the right kidney; via the common carotid artery.

I. Latin–English vocabulary

Prepositions used with the Accusative

ad	1) to 2) for 3) during
ante	ante
circum	around, round
contra	against
in (to the question «where to?», Russian «куда?»)	in, into, on
infra	below, under
intra	among, between (two objects)
per	through, via 2) by (means of)
post	after (time), behind (place)
sub (to the question «where to?», Russian «куда?»)	under
super, supra	above, over

Other words

aditus, us m	aditus
antrum, i n	antrum, cave
auriculāris, e	auriculare
difficilis, e	difficult
flavus, a, um	yellow
medulla, ae f	medulla
oblongātus, a, um	oblongata (medulla)

II. English–Latin vocabulary

Prepositions

above	super, supra
after	post
among (more than two objects)	inter
around	circum
before	ante
behind	post
between (two objects)	inter
by (means of)	per
during	ad
for	ad
in	1) in (to the question «where to?») 2) ad
in front of	ante
inside	intra
into	in (to the question «where to?») 2) ad
on	in (to the question «where to?») 2) ad
round	see <i>around</i>
to	ad

through
under

per
infra, sub (to the question «where to?»)

Other words

ascending
childbirth
cough
death
leg
operation
use

ascendens, ntis
partus, us m
tussis, is f
mors, mortis f
pes, pedis m
operatio, ōnis f
usus, us m

LESSON 12

ABLATIVE SINGULAR AND PLURAL OF NOUNS AND ADJECTIVES. PREPOSITIONS USED WITH THE ABLATIVE

Ablative is the Latin case reflecting different circumstances and conditions which characterize the indirect object (mood of the action, time, place, reason and so on).

Both nouns and adjectives get the Ablative forms by adding the corresponding endings to their stems, as one may see in the table below:

Declension	Gender	Nominative singular	Abl. sing. ending	Ablative singular form	Abl. plur. ending	Ablative plural form
I	f	vena cava	-ā	vena cava	-is	venis cavis
II	m	ramus dexter sulcus palatīnus	-o	ramo dextro sulco palatīno	-is	ramis dextris sulcis palatīnis
	n	ganglion otīcum septum longum		ganglio otīco septo longo		gangliis otīcis septis longis
III	m	margo anterior canālis nutriens	-e (-i)	margīne anteriōre canāle nutrienti	-ībus	marginībus anteriorībus canalībus nutrientībus
	f	pars laterālis basis simplex		parte laterāli basi simplici		partībus lateralībus basībus simplicībus
	n	rete capillāre crus posterius		reti capillāri crure posterīore		retībus capillarībus crurībus posterīorībus
IV	m	processus	-u	processu	-ībus	processūbus
	n	cornu	-u	cornu		cornūbus
V	f	facies	-e	facie	-ēbus	faciēbus

Some ending variants are seen in the third declension. Nouns and adjectives in the Ablative singular can get endings **-e** or **-i**.

The ending **-i** is added to the stem of:

1. Neutral nouns with the endings -al, -ar, -e in the Nominative singular (we have already mentioned these nouns in the previous lessons): *animālis*, *ālis* n — *animāli*; *calcar*, *āris* n — *calcāri*; *rete*, *is* n — *reti*.

2. Four feminine nouns: *pelvis*, *is* f *pelvis* — *pelvi*; *febris*, *is* f *fever* — *febri*; *tussis*, *is* f *cough* — *tussi*.

3. Feminine nouns with the ending **-sis**: *basis*, *is* f *base* — *basi*.

4. Masculine, feminine and neutral adjectives in the positive degree as well as participles: *brevis*, *e* — *brevi*; *capillāris*, *e* — *capillāri*; *simplex*, *īcis* — *simplīci*; *fluctuans*, *ntis* — *fluctuanti*.

The ending **-e** is added to the stem of:

1. All nouns which don't belong to the first three groups of the explained above rules, — see, e. g., in the table the nouns *canālis*, *margo*, *pars*, *crus*.

2. Masculine, feminine and neutral adjectives in the comparative degree, — see in the table the adjective *anterior*, *ius* and *posterior*, *ius*.

Proposition	Meaning	Examples	Translation
a, ab (before a vowel)	from	a sulco rhināli ab axe optīco	from rhinal sulcus from optical axis
cum	with	cum nervo faciāli cum febris continua	with facial nerve with continued fever
de	about	de ossibus cranii	about the skull bones

Proposition	Meaning	Examples	Translation
e (ex)	1) from (about the movement from within) 2) of, from (about material)	e canāle sacrāli e cavitāte abdominis ex fructibus Rosae e fibrīs elastīcis	from the sacral canal from the abdomen cavity of dog-rose fruits from elastic fibers
in	(when answering the question «where?») in, on	in cavitāte pleurāli in facie unguis	in the pleural cavity on the nail surface
pro	for	pro reti venōso guttae pro oculis	for venous network drops for eyes
sine	without	sine pancreāte accessorio sine dentibus serotinis	without accessory pancreas without wisdom teeth
sub	(when answering the question «where?») under	sub cute capitis sub narcōsi locāli	under the skin of head under a local anesthesia

1. Give the dictionary form of each word, make up the forms of the Ablative singular and plural:

accessory pancreas; continued fever; bony tissue; caninetooth; floating rib; inner base; left canal; lesser pelvis; long spur; lymphatic vessel; right region; sacral horn; short nerve; simple joint

2. Give the dictionary form of each word; translate from Latin into English:

ab angulo inferiōre scapulae; a crista capitis costae; cum febris continua; de structura partium corporis humani; de terminis generalibus; glandulae sine ductibus; in facie unguis; in regionibus membri superioris; pro reti venoso; sanguis ex vena pro analysi; sub musculis facialibus; sub tunica musculari; tunica e textu connectivo.

3. Give the dictionary form of each word; translate from English into Latin:

about the abdominal muscles; a medicine from the forest plants; for external use; for nervous system; from the head to the feet; from the surface of knee; in the heart artery; in the thoracic vein; on the nose skin; under a local (general) anesthesia; with a wandering kidney; without upper wisdom teeth.

Latin–English vocabulary

Prepositions used with the Ablative

a, ab	from
cum	with
de	about, of
e, ex	from, of
in (when answering the question «where?»)	in, on
pro	for
sine	without
sub (when answering the question «where?»)	under

Other words

connectivus, a, um	connective
continuus, a, um	continued
facialis, e	facial
generālis, e	general
glandula, ae f	gland
humānus, a, um	human
muscularis, e	muscular
scapula, ae f	scapula
structura, ae f	structure
terminus, i m	term
tunica, ae f	layer, coat

English–Latin vocabulary

anesthesia	anaesthesia, ae f
continued	continuus, a, um
forest	silvestris, e
general	generālis, e
local	locālis, e
medicine	medicamentum, i n
plant	planta, ae f
wandering	migrans, ntis

LESSON 13

PREFIXES IN ANATOMICAL TERMINOLOGY

Prefixation is the way of word building by adding prefixes to the stem of nouns or adjectives. As a result new meanings of the word are received in which any additional circumstances characteristic of the noun or adjective arise, mainly in respect of space if it concerns anatomical terms, e. g.:

brachium, i n (brachium) + ante (before) → antebrachium, i n — antebrachium

cervicālis, e (cervical) + endo (within) → endocervicālis, e — endocervical

cutaneus, a, um (cutaneous) + sub (under) → subcutaneous, a, um — subcutaneous

Both Greek and Latin prefixes are widely used in anatomical terms. Some of them have the same meaning and in these cases choosing the prefix depends only on tradition of using this or that word in a certain term. In other cases, Greek and Latin prefixes don't duplicate the meaning of each other. According to this connection, we place Greek and Latin prefixes in two tables.

Greek and Latin prefixes with identical meaning

Meaning	Greek prefix	Latin prefix	Latin examples and English equivalents
above — under			
above, over	epi-	super- supra-	epigastrium, i n <i>epigastrium</i> superficiālis, e <i>superficial</i> suprarenālis, e <i>suprarenal</i>
below, under	hypo-	infra- sub-	hypoglossus, a um <i>hypoglossal</i> infraorbitālis, e <i>infraorbital</i> sublinguālis, e <i>sublingual</i>
before — behind			
after, behind	meta-	post-, retro-	metatarsus, i m <i>metatarsus</i> postcavālis, e <i>postcaval</i> retromandibulāris, e <i>retromandibular</i>
inside — outside			
within	en-, endo-	intra-	encephālon, i n <i>brain</i> endocervicālis, e <i>endocervical</i> intracellularis, e <i>intracellular</i>
outside, of	ecto-, exo-	extra	ectoderma, ātis n <i>ectoderm</i> exoskelēton, i n <i>exoskeleton</i> extracellulāris, e <i>extracellular</i>
between or the middle part			
between or the middle	dia-, di-, me- so-,	inter-	diastēma, ātis n <i>diastema</i> mesoderma, ātis n <i>mesoderm</i>

Meaning	Greek prefix	Latin prefix	Latin examples and English equivalents
part	mes-		mesencephālon, i n <i>mesencephalon</i> , <i>the midbrain</i> intercostālis, e <i>intrecostal</i>
together, joined			
together, joined	syn- sym-	col-, com-, con-, cor-	synostōsis, is f <i>synostosis</i> symphŷsis, is f <i>symphysis</i> commissūra, ae f <i>commissure</i> collaterālis, e <i>collateral</i> connectīvus, a, um <i>connective</i> m.corrugātor, ōris m <i>corrugator</i>
not, without			
absence, denying	a-, an- (before a vowel)	in-, im-, ir-	azygos (undeclinable) <i>azygous</i> anonŷmus, a, um <i>innominate</i> insensibīlis, e <i>insensible</i> ; impar, āris <i>impar</i> ir- regulāris, e <i>irregular</i>
against, opposite			
against, opposite	anti-	contra-	antitrāgus, i m <i>antitragus</i> anticorpus, ōris n <i>antibody</i> contralaterālis, e <i>contralateral</i>
from, away from			
away from	apo-	a-, ab-	apocrīnus, a, um <i>apocrine</i> apophŷsis, is f <i>apophysis</i> m. abductor, ōris m <i>abductor</i>
around, round			
around	peri-	circum-	pericardium, i n <i>pericardium</i> circumorālis, e <i>circumoral</i>
through			
through	dia-	per-	diaphragma, ātis n <i>diaphragm</i> perspiratio, ōnis f <i>perspiration</i>
out of			
out, out of	ec-, ex-	e-, ex-	eccrīnus, a, um <i>eccrine</i> effērens, ntis <i>efferent</i> exostōsis, is f <i>exostosis</i> excretorius, a, um <i>excretory</i>

Greek and Latin prefixes without mutual semantic duplication

Greek prefix	Latin prefix	Meaning	Latin examples and English equivalents
—	ad-, ac-, af-, ap-	adition, movement nearer	adrenālis, e <i>adrenal</i> accessorius, a, um <i>accessory</i> affērens, ntis <i>afferent</i> appendix, ĩcis f <i>appendix</i>
—	de-	1. removing 2. downward	m. detrūsor, ōris m <i>detrusor</i> m. depressor, ōris m <i>depressor</i>
—	dis-, dif-, di-	spreading	disseminātus, a, um <i>disseminated</i> diffūsus, a, um <i>diffuse</i> m. dilatator, ōris m <i>dilator</i>
—	in-, im-	moving inward	infundibŷlum, i n <i>infundibulum</i> impressio, ōnis f <i>impression</i>

Greek prefix	Latin prefix	Meaning	Latin examples and English equivalents
—	re-	again or repeated action	reactio, ōnis f <i>reaction</i> recessus, us m <i>recessus, recess</i> reuniens, ntis <i>reunient</i>
para-	—	beside, near	paracervix, īcis f <i>paracervix</i> paranasālis, e <i>paranasal</i>

Meaning	Greek prefix	Latin prefix	Latin examples and English equivalents
one	mono-	uni-	mononucleāris, e <i>mononuclear</i> unicellulāris, e <i>unicellular</i>
two	di-	bi-	digastrīcus, a um <i>digastric</i> bifurcatio, ōnis f <i>bifurcation</i>
three	tri-	tri-	trigōnum, i n <i>trigonum, triangle, trigone</i> trigemīnus, a, um <i>trigeminus</i>
four	tetra-	quadri-	tetrāpus, ōdos <i>tetrapus</i> quadrīceps, ipītis <i>quadriceps</i>
half	hemi-	semi-	hemispherium, i n <i>hemisphere</i> semicanālis, is m <i>semicanal</i>

1. Give the dictionary form of each word and translate into English taking into consideration the meaning of prefixes:

adhesio interthalamica; apparatus respiratorius seu systema respiratorium; circumferentia articularis; dentes decidui; eminentia collateralis; fibrae periventriculares; glandula parotidea accessoria; impressio suprarenalis; lamella circumferentialis externa; ligamenta metacarpalia interossea; mesocolon transversum; musculus bipennatus; ossa metatarsi; plexus submucosus; processus intrajugularis; sectiones mesencephalici; spatium retropharyngeum; substantia perforata interpeduncularis; symphysis intervertebralis; synchondrosis intraoccipitalis; tractus paraventriculohypophysialis; tragus et antitragus auriculae; trigonum cervicale anterius; vena retromandibularis.

2. Give the dictionary form of each word and fill in the gaps with the most suitable Latin prefixes using, if necessary, Atlas of Human Anatomy:

arteria ...currens; arteria ...flexa scapulae; canalis ...circularis; ligamenta ...capsularia; musculus ...pressor anguli oris; musculus ...pennatus; nervus ...ducens; organa oculi accessoria; recessus ...hepatici; vas sanguineum ...forans; zona ...certa.

3. Give the dictionary form of each word and fill in the gaps with the most suitable Greek prefixes using, if necessary, Atlas of Human Anatomy:

...colon descendens; ...condylus lateralis; fossa ...helicis; ...gonum habenulae ...encephali; glandula ...statica; glandulae ...crinae; musculus ...gastricus; plexus ...gastricus; recessus ...tympanicus; regio ...chondriaca; ...sphaerium cerebelli; spatium ...pharyngeum; tractus ...encephalicus nervi trigemini.

4. Give the dictionary form of each word and translate into Latin:

accessory pancreatic duct; common interosseous artery; external intercostal muscles; fascia of forearm; interclavicular ligament; intermandibular suture; interlobar artery; intraglandular lymphatic node; interosseal nerves of leg; parapharyngeal space; paravesical fossa; preoccipital notch; semilunar folds of colon; submandibular gland; supraorbital veins; suprapleural membrane.

I. Latin-English glossary

Nouns of the 1st declension

auricula, ae f	auricle; pinna
circumferentia, ae f	circumference
eminentia, ae f	eminence
lamella, ae f	lamella

Nouns of the 2nd declension

antebrachium, i n	antebrachium, forearm
antitragus, i m	antitragus
diencephalon, i n	diencephalons
hemisphaerium, i n	hemisphere

mesencephālon, i n	mesencephalon
mesocōlon, i n	mesocolon
metatarsus, i m	metatarsus
spatium, i n	space
tragus, i m	tragus
trigōnum, i n	trigone

Nouns of the 3rd declension

adhesio, ōnis f	adhesion
antihēlix, ĩcis f; anthēlix, ĩcis f	antihelix (anthelix)
symphŷsis, is f	symphysis
synchondrōsis, is f	synchondrosis
syndesmōsis, is f	syndesmosis

Nouns of the 4th declension

apparātus, us m	apparatus
recessus, us m	recess

Adjectives of the 1st and 2nd declensions

bipennātus, a, um	bipennate
biventer, tra, trum	two-bellied
deciduus, a, um	deciduous
digitātus, a, um	digitate
endocrīnus, a, um	endocrine
epitympanīcus, a, um	epitympanic
incertus, a, um	incerta(zona)
interosseus, a, um	interosseal, interosseous
interthalamīcus, a, um	interthalamic
hypochondriācus, a, um	hypochondriac
hypogastrīcus, a, um	hypogastric
mesencephalīcus, a, um	mesencephalic

Adjectives of the 3rd declension

circumferentiālis, e	circumferential
collaterālis, e	collateral
extracapsulāris	extracapsular
interpedunculāris, e	interpeduncular
intervertebrālis, e	intervertebral
intrajugulāris, e	intrajugular
intraoccipitālis, e	intraoccipital
metacarpālis, e	metacarpal
pancreatīcus, a, um	pancreatic
paraventriculohypophysiālis, e	paraventriculohypophysial
periventriculāris, e	periventricular
retromandibulāris, e	retromandibular
semicirculāris, e	semicircular
suprarenālis, e	suprarenal

II. English–Latin vocabulary

forearm	antebrachium, i n
interclavicular	interclaviculāris, e
interlobar	interlobāris, e
intermandibular	intermandibulāris, e
interosseous	interosseus, a, um
intercostal	intercostālis, e
intraglandular	intraglandulāris, e
parapharyngeal	parapharyngeālis, e
paravesical	paravesicālis, e
preoccipital	preoccipitālis, e
semilunar	semilunāris, e
submandibular	submandibulāris, e
supraorbital	supraorbitālis, e
suprapleural	– suprapleurālis, e

1. Give the dictionary form of each word, translate the terms into English:

- 1) paries anterior gastris 2) vestibulum oris 3) margo liber unguis
4) pecten ossis pubis 5) partes corpōris humāni 6) plexus cavernōsi conchārum

2. Give the dictionary form of each word, translate the terms into Latin:

- 1) deep vein of the right leg 2) teres minor muscle 3) groove for inferior petrosal sinus 4) surface of incisor tooth 5) planes, lines and regions 6) heads of the true, false and floating ribs

3. Give the dictionary form of each word, translate the terms into Latin:

- 1) by means of the long canal 2) through the abdomen 3) with a wandering kidney 4) for nervous system 5) glands without ducts

Declension	I	II	III	IV	V
Gender					
	-ă		different		
					-ēi
	-ā				
	-ārum	-ōrum			-ērum
			-ībus	-ībus	-ēbus

LATIN–ENGLISH VOCABULARY

A

a, ab (Abl) from
accessorius, a, um accessory
acusticus, a, um auditory
ad (Acc.) 1) to 2) for 3) during
adhesio, ōnis f adhesion
adipōsus, a, um fat
aditus, us m aditus
ala, ae f wing
alāris, e alar
alveolāris, e alveolar
ampullāris, e ampullary
analŷsis, is f analysis
anatomīcus, a, um anatomical
angūlus, i m angle
ante (Acc.) 1) before (time) 2) in front of (place)
antebrachium, i n antebrachium, forearm
anterior, ius anterior
antihēlix, īcis f; anthēlix, īcis f antihelix (anthelix)
antitrāgus, i m antitragus
antrum, i n antrum, cave
apex, īcis m apex, tip
apparātus, us m apparatus
appendix, īcis f appendix
arachnoideus, a um arachnoid
arbor, ōris f tree
arbor vitae arbor vitae
arcus, us m arch
arteria, ae f artery
arteriōsus, a um arterial
articulāris, e articular
articulatio, ōnis f joint
atlas, ntis m atlas (the first cervical vertebra)
auditorius, a, um auditory
auricūla, ae f auricle; pinna
auriculāris, e auricular
auris, is f ear
axis, is m axis

B

basis, is f base
biliāris, e (=felleus, a, um) gall (+noun)
bipennātus, a, um bipennate
biventer, tra, trum two-bellied
brachium, i n arm
brevis, e short
bulbus, i m (ocūli) eyeball

C

cadāver, ěris n cadaver (dead body)
calicūlus, i m (gustatorius) bud
canālis, is m canal
cancer, cri m cancer
canīnus, a um (dens) canine (tooth)
capsūla, ae f capsule
caput, ītis n head
cardiācus, a, um cardiac
carotīcus, a, um carotid
cartilāgo, ĩnis f cartilage
cauda, ae f tail
cavernōsus, a, um cavernous
cavitas, ātis f cavity
celer, ěris, ěre rapid, quick (pulse)
cerebellum, i n cerebellum
cerebrālis, e cerebral
cervicālis, e cervical
cervix, īcis f cervix, neck
ciliāris, e ciliary
circum (Acc.) around, round
circumferentiālis, e circumferential
circumferentia, ae f circumference
coccygēus, a, um coccygeal
coccyx, ŷgis m coccyx, coccygeal bone
cochleāris, e cochlear
collaterālis, e collateral
communīcans, ntis communicative
compositus, a, um complex
concha, ae f concha (shell-shaped hole)
connectivus, a, um connective
continuus, a, um continued
contra (Acc.) against, for (cough)
cor, cordis n heart
cornu, us n horn, horn-shaped process
corpus, ōris n body

cortex, ĩcis m cortex (crust)
costa, ae f rib
costālis, e costal
craniālis, e cranial
cranium, i n skull
crista, ae f crest
crus, cruris n 1) shank, leg; 2) crus, limb
(of auditory ossicle); 3) bundle
(of myocardium)
cum (Abl.) with
cutis, is f skin

D

de (Abl.) about, of
deciduus, a, um deciduous
dens, dentis m tooth
dens canĭnus canine tooth
dens deciduus deciduous tooth
dens incisĭvus incisor tooth
dens molāris molar tooth
dens permānens permanent tooth
dens premolāris premolar tooth
dens sapientiae wisdom tooth
dentālis, e dental
dexter, tra, trum right
diamēter, tri f diameter
diaphragma, ātis n diaphragm
diencephālon, i n diencephalon
difficĭlis, e difficult
digastrĭcus, a um digastric
digitātus, a, um digitate
digĭtus, i m finger, toe
distālis, e distal
dorsālis, e dorsal
ductus, us m duct
duodēnum, i n duodenum
dura mater dura mater (the outermost
meninx of the brain)
durus, a, um solid

E

e, ex (Abl.) from, of
eminentia, ae f eminence
encephālon i n brain
endocrĭnus, a, um endocrine
et and
epitympanĭcus, a, um epitympanic
externus, a, um external

extracapsulāris extracapsular

F

faciālis, e facial
facies, ěi f face, surface
fascia, ae f fascia
fascia lata fascia lata
fauces, ium f fauces
febris, is f fever
felleus, a, um (= biliaris, e) gall (+noun)
femĭna, ae f woman
femur, ōris n femur, thigh (bone)
fibra, ae f fibre
fibrōsus, a, um fibrous
flavus, a, um yellow
forāmen, ĩnis n opening
fornix, ĩcis m fornix (vaginal);
vault (of pharynx)
fossa, ae f fossa (a little hole)
frontālis, e frontal

G

ganglion, i n ganglion, nervous node
gaster, tris f stomach
gemma, ae f bud
generālis, e general
genitālis, e genital
gingĭva, ae f gingiva, gum
glandŭla, ae f gland
glomus, ěris n a cluster of blood vessels,
glomus
gustatorius, a, um taste (+noun)

H

hemispherium, i n hemisphere
hepar, ātis n liver
hepatĭcus, a, um
homo, ĩnis m man, a human
humānus, a, um human
humĕrus, i m humerus
hyoideus, a, um hyoid (bone)
hypochondriācus, a, um hypochondriac
hypogastrĭcus, a, um hypogastric
hypoglossus, a, um hypoglossal (nerve)

I

iliācus, a, um iliac
impar, āris impar, unpaired
impressio, ōnis f impression

imus, a, um imus (ima), the lowest
in (Acc., when answering the question «where to?», Russian «куда?») in, into, on
in (Abl., when answering the question «where?», Russian «где?») in, on
incertus, a, um incerta (zona)
incisīvus, a, um (dens) incisor
incisūra, ae f incisure, slit or notch
inferior, ius inferior
infra (Acc.) below, under
inter (Acc.) among, between (two objects)
interclaviculāris, e interclavicular
intercostālis, e intercostal
interlobāris, e interlobar
intermandibulāris, e intermandibular
internus, a, um internal
interosseus, a, um interosseal, interosseous
interpedunculāris, e interpeduncular
interthalamīcus, a, um interthalamic
intervertebrālis, e intervertebral
intra (Acc.) inside, in
intraglandulāris, e intraglandular
intrajugulāris, e intrajugular
intraoccipitālis, e intraoccipital
inversus, a, um inverse
iris, īdis f iris (central part of the eye)

J

jugum, i n yoke

L

labium, i n lip
lamella, ae f lamella
larynx, yngis m larynx
latus, a, um broad
liber, ěra, ěrum free
ligamentum, i n ligament
lingua, ae f tongue
longissīmus, a, um the longest
longitudinālis, e longitudinal
longus, a, um long
lumbālis, e lumbar
lymphaticus, a, um lymphatic

M

magnus, a, um large (vein), magnus (m. adductor), great (nerve)
major, jus major, greater, larger
mandibŭla, ae f lower jaw, mandible
manus, us f hand
margo, ĩnis m margin, border
massēter, ěris m see below m. masseter
mastoideus, a, um mastoid
mater, tris f mater (cerebral coat)
maxilla, ae f maxilla, upper jaw
meātus, us m meatus (passage)
medulla, ae f medulla
membrum, i n limb
mesencephalicus, a, um mesencephalic
mesencephālon, i n mesencephalon
mesocōlon, i n mesocolon
metacarpālis, e metacarpal
metatarsus, i m metatarsus
minor, us minor, lesser, smaller
minīmus, a, um the least, minimus
molāris, e (dens) molar (tooth)
musculāris, e muscular
musculus, i m muscle
m. adductor, ōris m adductor (bringing muscle)
m. arrector, ōris m arrector (muscle elevating hair)
m. levātor, ōris m levator (elevating muscle)
m. massēter, ěris m masseter
m. pronātor, ōris m pronator (muscle turning the forearm)
m. rotātor, ōris m rotātor
m. sphincter, ěris m sphincter (compressing muscle)
m. tensor, ōris m tensor (straining muscle)

N

nasālis, e nasal
nasus, i m nose
nervus, i m nerve
nucleus, i m nucleus
nomen, ĩnis n name

O

oblongātus, a, um rather long
occipitālis, e occipital
ocūlus, i m eye
operatio, ōnis f operation
orbīta, ae f orbit
orgānon, i n organ
os, oris n mouth
os, ossis n bone
osseus, a, um bony
ossicūlum, i n ossicle
ostium, i n opening, orifice
otīcus, a, um otic

P

palatīnus, a, um palatine
palātum, i n palate
palpēbra, ae f eyelid
pancreatīcus, a, um pancreatic
parapharyngeālis, e parapharyngeal
paraventriculohypophysiālis, e
paraventriculohypophysial
paravesicālis, e paravesical
paries, ētis m wall
parotideus, a, um parotid
pars, partis f part
partus, us m childbirth, delivery
parvus, a, um little, small
pecten, ĩnis m pecten (crest)
pelvīcus, a, um pelvic
pelvis, is f pelvis
per (Acc.) 1) through, via
2) by (means of)
periventriculāris, e periventricular
permānens, entis (dens)
permanent (tooth)
pes, pedis m foot
petrōsus, a, um petrosal, stony
phalanx, ngis f phalanx
pīus, a, um (mater) pia (mater)
pīlus, i m hair
planta, ae f sole
plexus, us m plexus (network,
chiefly of veins or nerves)
plica, ae f fold
porta, ae f porta (gate of the liver)
post (Acc.) after (time), behind (place)

posterior, ius posterior
premolāris, e (dens) premolar (tooth)
preoccipitālis, e preoccipital
pro (Abl.) for
processus, us m process
profundus, a, um deep
proprius, a, um proper
pubes, is f pubis
pulmo, ōnis m lung
pulmonālis, e pulmonary
pulsus, us m pulse
pupilla, ae f pupil
pyrāmis, ĩdis f pyramid

Q

quadrātus, a, um square, quadrate
(muscle), quadratus (pronator)

R

radix, ĩcis f radix, root
ramus, i m branch
recessus, us m recess
rectum, i n rectum
regio, ōnis f region
ren, renis m kidney
renālis, e renal
respiratorius, a, um respiratory
rete, is n 1) rete (mirabile) 2)
network (dorsal venous of hand)
retromandibulāris, e retro- mandibular
retropharyngēus, a, um retropharyngeal
rīma, ae f fissure, opening
ruber, bra, brum red

S

sacrālis, e sacral
sanguis, ĩnis m blood
saphēnus, a, um saphenous
sapiens, ntis intelligent, clever
sapientia, ae f wisdom
scapūla, ae f scapula, shoulder blade
sectio, ōnis f section
segmentum, i n segment
semicirculāris, e semicircular
semilunāris, e semilunar
septum, i n septum, dividing wall
seu or
simplex, ĩcis simple

sine (Abl.) without
sinister, tra, trum left
sinus, us m sinus, hollow curvature
 or cavity
situs, us m site
spatium, i n space
spina, ae f spine
spinālis, e spina
splanchnicus, a, um splanchnic
squama, ae f squamous part, scales
sternum, i n sternum, breastbone
structūra, ae f structure
sub (Acc., when answering the question
«where to?», Russian «куда?»; Abl.,
when answering the question «where ?
«, Russian «где?») under
sublingualis, e sublingual (except
 for nerve and bone)
submandibularis, e submandibular
submucosus, a, um submucous
substantia, ae f substance
sulcus, i m sulcus, furrow or groove
super, supra (Acc.) above, over
superficialis, e superficial
superior, ius superior
supraorbital supraorbitālis, e
suprapleuralis, e suprapleural
suprarenalis, e suprarenal
supremus, a, um supreme, the highest
sutūra, ae f suture
symphysis, is f symphysis
synchondrosis, is f synchondrosis
syndesmosis, is f syndesmosis

T

temporalis, e temporal
teres, ětis round (except for foramen)
terminatio, ōnis f ending

terminus, i m term
textus, us m tissue
thoracicus, a, um thoracic
thorax, ācis m thorax, chest
thyr(e)oideus, a, um thyroid
tractus, us m tract
tragus, i m tragus
transverses, a, um transverse
trigōnum, i n trigone
tuber, ěris n tuber, large rounded swelling
tuberculum, i n tubercle, small
 rounded swelling
tuberositas, ātis f tuberosity
tumor, ōris m tumor (swelling, growth)
tunica, ae f 1) layer, coat 2) membrane
tympanicus, a, um tympanic

U

unguis, is m nail
utērus, i m uterus

V

vagina, ae f (of muscle) vagina, sheath
vas, vasis n vessel
vena, ae f vein
venosus, a, um venous
venter, tris m belly (of the muscle)
vermiformis, e vermiform
vertebra, ae f vertebra
vertebrālis, e vertebral
vesīca, ae f bladder
vestibularis, e vestibular
vestibulum, i n vestibule
vir, i m man
viscus, ěris n; usually Plur. viscēra, um n
 viscera, inner organs
vita, ae f life
vomer, ěris m vomer
systēma, ātis n system

ENGLISH-LATIN VOCABULARY

A

abdomen abdōmen, ĩnis n
abdominal abdominālis, e
about de (Abl.)
above super, supra (Acc.)
accessory accessorius, a, um
adductor (musculus) adductor, ōris m
after post (Acc.)
among (more than two objects) inter (Acc.)
anesthesia anaesthesia, ae f
angle angŭlus, i m
anterior anterior, ius
aorta aorta, ae f
apex, tip apex, ĩcis m
arch arcus, us m
around circum (Acc.)
artery arteria, ae f
articular articulāris, e
ascending ascendens, ntis
auricular auricularis, e
atlas atlas, antis m
auditory auditorius, a, um

B

back dorsum, i n
base basis, is f
before ante (Acc.)
behind post (Acc.)
between (two objects) inter (Acc.)
blood sanguis, ĩnis m
body corpus, ōris n; glomus, eris n (carotĭcum)
bone os, ossis n
bony osseus, a, um
border margo, ĩnis m
brachial brachiālis, e
brain cerĕbrum, i n
branch ramus, i m
breast mamma, ae f
broadest latissĭmus, a, um
bronchial bronchiālis, e
bursa (pouch, sac) bursa, ae f
by means of per (Acc.)

C

canal canālis, is m
cancer, cri m cancer
canine (tooth) canĭnus, a, um (dens)
cardiac cardiācus, a, um
carotid carōtis, ĩdis (artery); carotĭcus, a, um (canalis, sulcus, tubercŭlum)
cartilage cartilāgo, ĩnis f
cava, cavae cavus, a, um
cavity cavĭtas, ātis f
cell cellŭla, ae f
central centrālis, e
cerebellum cerebellum, I n
cervical cervicālis, e
cervix cervix, ĩcis f
chiasm chiasma, ātis n
childbirth partus, us m
ciliary ciliāris, e
coccygeal coccygĕus, a, um
colon colon, i n
column columna, ae f
common commŭnis, e
complex composĭtus, a, um
conjoint conjunctĭvus, a, um
constrictor (compressing muscle) musculus constrictor, ōris m
continued continuus, a, um
cord fascicŭlus, i m
costal costālis, e
cough tussis, is f
cranial craniālis, e
crest crista, ae f
crus crus, cruris n
culmen culmen, ĩnis n
curvature curvatŭra, ae f
cusp valvŭla, ae f

D

death mors, mortis f
deep profundus, a, um
dental dentālis, e

depressor (lowing muscle)
musculus depressor, ōris m
diaphragm diaphragma, ātis n
digitus, digiti digitus, i m
distal distālis, e
dividing dividens, entis
division divisio, ōnis f
dorsal dorsālis, e
duct ductus, us m
during ad (Acc.)

E

ear auris, is f
endocrine endocrīnus, a, um
epigastric epigastrīcus, a, um
ethmoidal ethmoidālis, e
extensor (unbending muscle)
musculus extensor, ōris m
external externus, a um
eyebrow supercilium, i n
eyelash cilium, i n

F

face facies, ēi f
false falsus, a, um
falx falx, falcis f
fascia fascia, ae f
fauces fauces, ium f (plur.)
fever febris, is f
fibrous fibrōsus, a, um
fibular (= peroneal) fibulāris (= peronēus, a, um)
fissure fissūra, ae f
flexor (bending muscle) musculus flexor, ōris m
floating fluctuans, ntis
fold plica, ae f
foot pes, pedis m
for ad (Acc.), pro (Abl.)
forāmen, īnis n opening
forearm antebrachium, i n
forest silvestris, e
forehead sincīput, ītis n
fornix fornix, īcis m (vaginālis)
forth quartus, a, um
fossa fossa, ae f
free liber, ěra, ěrum

from a, ab (Abl.); e, ex (Abl.)
frontal frontālis, e

G

gall bladder vesīca fellea
(= vesīca biliāris)
ganglion, a nervous node ganglion, i n
gastric gastrīcus, a, um
general generālis, e
girdle cingūlum, i n
gland glandūla, ae f
gluteal glutēus, a, um
great magnus, a, um
greater major, jus
groove sulcus, i m

H

hallux hallux, ūcis m
hand manus, us f
head caput, ītis n
heart cor, cordis n
hepatic hepaticus, a, um
highest suprēmus, a, um
horn cornu, us n
hyoid hyoideus, a,

I

ima imus, a, um
impar impar, āris
in in (Acc., when answering the question «where to?»; Abl., when answering the question «where?»)
incisive incisīvus, a, um
incisor incisīvus, a um (dens)
incus incus, ūdis f
index (index finger) index, īcis m
inferior inferior, ius
in front of ante (Acc.)
inguinal inguinalis, e
inner internus, a, um
inside intra (Acc.)
intelligent sapiens, entis
interclavicular interclaviculāris, e
intercostal intercostālis, e
interlobar interlobāris, e
intermandibular
intermandibulāris, e

internal internus, a, um
interosseal interosseus, a, um
interosseous interosseus, a, um
into in (Acc., when answering the question «where to?»)
intraglandular intraglandulāris, e
iris iris, ĩdis f

J

joint articulatio, ōnis f
jugular jugulāris, e

K

kidney ren, renis m
knee genu, us n

L

lacrimal lacrimālis, e
lactiferous lactifērus, a, um
large magnus, a, um
larynx larynx, ngis m
lateral laterālis, e
latissimus latissĭmus, a um
left sinister, tra, trum
leg pes, pedis m
lesser minor, us
ligament ligamentum, i n
limb membrum, i n
line linea, ae f
lingual linguālis, e
lip labium, i n
liver hepar, ātis n
local locālis, e
long longus, a, um
longest longissĭmus, a, um
longitudinal longitudinālis, e
lower inferior, ius
lower jaw, mandible mandibŭla, ae f
lung pulmo, ōnis m
lymphatic lymphaticŭs, a, um

M

magnus, magnum magnus, a, um
major major, jus
man homo, ĩnis m
mandible mandibŭla, ae f
margin margo, ĩnis m
mastoid mastoideus, a, um
meatus meātus, us m

medial mediālis, e
medicine medicamentum, i n
membrane membrāna, ae f
membranous membranaceus, a, um
middle medius, a, um
minimus minĭmus, a, um
minor minor, us
mirabile mirabĭlis, e
mobile mobĭlis, e
molar molāris, e
molar tooth dens molaris
mouth os, oris n
muscular musculāris, e
muscle muscŭlus, i m

N

nail unguis, is m
nasal nasālis, e
neck cervix, ĩcis f
nerve nervus, i m
nerve node ganglion, i n
nervous nervŏsus, a, um
network rete, is n
node nodus, i m
nodule nodŭlus, i m
nose nasus, i m
notch incisŭra, ae f
nuchal nuchālis, e
nucleus nucleus, i m

O

occipital occipitālis, e
occiput occĭput, ĩtis n
on in (Acc. to the question «where to?», Abl. to the question «where?»)
opening forāmen, ĩnis n
operation operatio, ōnis f
optic optĭcus, a, um
ossicle ossicŭlum, i n
oval ovālis, e

P

palate palātum, i n
palatine palatĭnus, a, um
palatini (veli) palatĭnus, a, um
pancreas pancreas, ātis n

pancreatis pancreas, ātis n
parapharyngeal parapharyngeālis, e
paravesical paravesicālis, e
parenchyma parenchŷma, ātis n
parietal parietālis, e
part pars, partis f
pectoral pectorālis, e
pelvis pelvis, is f
pelvic pelvīcus, a, um
permanent permānens, ntis
peroneal peronēus, a, um
petrosal petrōsus, a, um
phalanx phalanx, ngis f
pharynx pharynx, ngis m
plane planum, i n
plant planta, ae f
plexus plexus, us m
pollex, pollicis (thumb) pollex, ģcis m
posterior posterior, ius
preoccipital preoccipitālis, e
process processus, us m
prominent promīnens, ntis
proper proprius, a, um
pterygoid pterygoideus, a, um
pulvinar pulvīnar, āris n
pyramide pyrāmis, ģdis f

R

radix radix, ģcis f
rectum rectum, i n
region regio, ōnis f
renal renālis, e
respiratory respiratorius, a, um
rete rete, is n
retina retīna, ae f
rhomboid rhomboideus, a, um
rib costa, ae f
right dexter, tra, trum
ring-shaped (= anular) anulāris, e
root, radix radix, ģcis f
rotator (rotating muscle)
 musculus rotātor, ōris m
round see around

S

sacral sacrālis, e
salivary salivarius, a, um
saphenous saphēnus, a, um

segment segmentum, i n
semilunar semilunāris, e
septum septum, i n
sheath vagīna, ae f
short brevis, e
sinus sinus, us m
simple simplex, ģcis
skin cutis, is f
skull cranium, i n
small parvus, a, um
smaller minor, us
soft mollis, e
sole planta, ae f
space spatium, i n
sphenoidal sphenoidālis, e
splanchnic splanchnīcus, a, um
spleen lien, ēnis m
spur calcar, āris n
squamous squamōsus, a, um
sternal sternālis, e
sternum sternum, i n
stomach gaster, tris f
stony petrōsus, a, um
stroma stroma, ātis n
sublingual sublinguālis, e
submandibular submandibulāris, e
superficial superficiālis, e
superior, upper superior, ius
supraorbital supraorbitālis, e
suprapleural suprapleurālis, e
surface facies, ēi f
suture sutūra, ae f
system systēma, ātis n

T

tail cauda, ae f
tegmen tegmen, ģnis n
temporal temporālis, e
tendon tendo, ģnis m
tensor (straining muscle)
 musculus tensor, ōris m
teres teres, ģtis
term termīnus, i m
thalamus thalāmus, i m
thigh femur, ōris n
third tertius, a, um
thoracic thoracīcus, a, um

thorax thorax, ācis m
through per (Acc.)
thyroid thyr(e) oideus, a, um
tip apex, ĭcis m
tissue textus, us m
to ad (Acc.)
tongue lingua, ae f
tooth dens, dentis m
transverse transversus, a, um
tree arbor, ōris f
trochanter trochanter, ēris m
true verus, a, um
trunk truncus, i m
tympanic tympanĭcus, a, um

U

under infra (Acc.); sub (Acc. to the question «where to?», Abl. to the question «where?»)
upper superior, ius
upper jaw, maxilla maxilla, ae f
ureter urēter, ēris m
use usus, us m

V

vagina vagĭna, ae f
vein vena, ae f
velum (curtain) velum, i n
vena (vein) vena, ae f
venae see vena
venous venōsus, a, um
ventricle vertricŭlus, i m
vertebra vertēbra, ae f
vertebral vertebrālis, e
vessel vas, vasis n
vomer vomer, ěris m
vault (of pharynx) fornix, ĭcis m

W

wall paries, ětis m
wandering migrans, ntis
wing ala, ae f
wisdom sapientia, ae f

Z

zygomatic zygomaĭcus, a, um

Part III. PHARMACEUTICAL TERMINOLOGY

LESSON 14

INTRODUCTION TO LATIN PHARMACEUTICAL TERMINOLOGY

The words *pharmacal*, *pharmaceutical*, *pharmacy* etc originate from the ancient Greek word *pharmacōn*, i. e. drug, medicine. Historically, the names of drugs and their component parts as well as the names of drug forms and some other pharmaceutical terms, particularly in medical prescriptions, are given in Latin. Nowadays, the use of Latin in the pharmaceutical practice of every country depends on its national tradition and other factors. Namely, the tradition of using Latin both in drug names and medical prescriptions exists in Russia, the Republic of Belarus, the Ukraine and some other European countries.

To Latin pharmaceutical terms belong:

1. Names of drugs: *Amidopyrīnum* (amidopyrin), *Corvalōlum* (corvalol), *Streptocīdum* (streptocide).

2. Names of medical plants: *Belladonna* (belladonna), *Digitālis* (foxglove), *Quercus* (oak).

3. Names of chemical elements: *Kalium* (potassium), *Oxygenium* (oxygen), *Sulfur* (sulphur).

4. Adjectives: *Mentha piperīta* (pepper mint), *Species antiasthmaticae* (antiasthmatic species), *Suppositoria vaginalia* (vaginal suppositories).

5. Names of drug forms: *Unguentum Tetracyclīni* (ointment of tetracycline), *Tabulettae Myelosāni* (tablets of myelosan), *Tinctūra Menthae* (tincture of mint).

6. Names of the parts of medical plants: *Tinctūra radīcis Valeriānae* (tincture of valerian roots), *Herba Valeriānae* (herb of valerian), *Flores Chamomillae* (flowers of matricary).

7. Supplementary nouns and adjectives (mainly in medical prescriptions): *dosis* (dose), *numērus* (number), *talis* (such).

Now let us systematize the use of capital and small letters in Latin pharmaceutical terms.

The capital letter is used:

1. In the names of drugs: *Codeīnum* (codeine), *Furacilīnum* (furacilin), *Validōlum* (validol).

2. In the names of medical plants: *Calendūla* (calendula), *Eucalyptus* (eucalyptus), *Frangūla* (buckhorn).

3. In the names of chemical elements: *Ferrum* (iron), *Oxygenium* (oxygen), *Zincum* (zinc).

Attention! Nouns of these three groups are written with capital letter in the dictionary form too: *Codeīnum*, i n; *Calendūla*, ae f; *Ferrum*, i n.

4. As the first letter of a name of the drug form, if this name is the first in a multiword term: *Linimentum* Streptocīdi (liniment of streptocide), *Species* antiasthmaīcae (antiasthmatic species), *Tinctūra* Valeriānae (tincture of valerian).

5. As the first letter of a name of the plant component, if this name is the first in a multiword term: *Herba* Valeriānae (herb of valerian), *Flores* Chamomillae (flowers of matricary), *Folia* Menthae piperītae (mint pepper leaves).

The small letter is used:

1. In adjectives both in the structure of a term and in the dictionary form: *Mentha* **piperīta** (piper mint); piperītus, a, um *pepper*;

Acīdum **acetylsalicylicum** (acetylsalicylic acid); acetylsalicylicus, a, um *acetylsalicylic*.

2. In drug form names or plant component names being not the first in the term structure as well as in the dictionary form of these names;

Acīdum acetylsalicylicum in *tabulettis* (acetylsalicylic acid in tablets); *tabuletta*, ae f *tablet*; acetylsalicylicus, a, um *acetylsalicylic*.

Decoctum *corticis* Quercus (decoction of oak bark); cortex, ĩcis m *bark*; decoctum, i n *decoction*.

3. If a drug form name or a plant component name is used without drug names:

unguenta et linimenta (ointments and liniments); solutio ad usum externum (solution for external use); pulvĕres composīti (compound powders); folia et flores (leaves and flowers); radix et rhizōma (root and rhizome).

4. In constructions with a preposition indicating doctor's prescription, destination, order of drug use or way of storage:

Solutio Furacilīni ad **usum externum** (solution of furacilin for external use); Tabulettae contra **tussim** (tablets for cough); Thea medicinaīlis pro **infantibus** (medicinal tea for children); Mixtio pro **inhalationibus** in **vitro nigro** (mixture for inhalation in a dark phial).

Some other peculiarities of using capital or small letter in pharmaceutical terms will be further described in the subsequent parts of this textbook.

Every drug is produced in a physical form most adequate for use. Traditionally, three main forms are used: solid, semisolid and liquid.

Solid forms:

Dragĕes (dragĕe, a French word which is used without latinization in plural and has no Latin dictionary form) — dragees

Granŭla (**granŭlum, i n**) — granules of different form containing drug substances

Pilŭlae (**pilŭla, ae f**) — pills, small balls with a drug substance

Pulvĕres (**pulvis, ĕris m**) — powders

Species (**species, ĕrum f**, only Plural form) — species, mixture of different parts of medicinal plants

Tabulettae (**tabuletta, ae f**) — tablets

Theae (**thea, ae f**) — teas

Semisolid forms

Emplastra (**emplastrum, i n**) — plasters

Pastae (**pasta, ae f**) — pastes, thick ointments

Suppositoria (**suppositorium, i n**) — suppositories

Unguenta (**unguentum, i n**) — ointments

Liquid forms

Decocta (**decoctum, i n**) — decoctions

Emulsa (**emulsum, i n**) — emulsions

Extracta (**extractum, i n**) — extracts

Guttae (**gutta, ae f**) — drops (of liquids)

Infūsa (**infūsum, i n**) — infusions

Linimenta (**linimentum, i n**) — liniments

Mixtūrae (**mixtūra, ae f**) — mixtures

Mucilagīnes (**mucilāgo, ĩnis f**) — mucilages, liquids containing mucous substances

Olea (**oleum, i n**) — oils

Sirūpi (**sirūpus, i m**) — syrups

Solutiōnes (**solutio, ōnis f**) — solutions

Tinctūrae (**tinctūra, ae f**) — tinctures

Some other drug forms

Aërosōla (**aërosōlum, i n**) — aerosols

Capsūlae (**capsūla, ae f**) — capsules

Lamellae (= Membranūlae) ophthalmīcae (**lamella, ae f; membranūla, ae f**) — ophthalmic films with drug.

cortex, ĩcis m — cortex, bark

flos, floris m — flower

folium, i n — leaf

fructus, us m — fruit

herba, ae f — herb

radix, ĩcis f — root

rhizōma, ātis n — rhizome

semen, ĩnis n — seed

Medicinal plant names are mostly nouns of the 1st declension:

Chamomilla, ae f — matricary

Frangūla, ae f — buckhorn

Some names are nouns of the 2nd declension:

Leonūrus, i m — motherwort

Millefolium, i n — milfoil

Less numerous are nouns of the 3rd declension:

Digitālis, is f — foxglove

Adonis, ĩdis m, f — Adonis

Very rarely nouns of the 4th declension are used:

Quercus, us f — oak

One should remember that names of trees are always feminine:

Eucalyptus, i f — eucalyptus

Quercus, us f — oak

Some plant names consist of a noun and an adjective:

Mentha piperīta — pepper mint

Adonis vernālis — spring Adonis

Medical plant names are used:

1. In the names of liquid drug forms: Tinctūra Valeriānae — tincture of valerian; Decoctum cortīcis Quercus — decoction of oak bark.

2. In the labels of different packages containing the components of medical plants:

Folia Urtīcae — leaves of nettle; Semen Lini — seed of flax.

3. As a component of the medical prescription:

Recipe: Extracti Aloēs fluīdi 1 ml — Take: Liquid extract of aloe 1 ml

Recipe: Cortīcis Crataegi 30,0 – Take: Cortex of hawthorn 30,0.

As we see, the name of a plant component is always placed before a plant name.

One-word drug names usually consist of a noun root, a suffix (-īn- is the most common, then follow suffixes -ōl- and -īd-), and, finally, the most common ending — **um**:

Codeīnum — codeine; Dibazōlum — dibazol; Saluzīdum — saluzid.

In drug names specific Greek and Latin noun roots expressing certain pharmaceutical information are widely used. The knowledge of these most common morphological elements enables to write correctly complicated drug names, which is one of the main tasks of learning the pharmaceutical part of our subject. Let us memorize the first part of these morphological elements:

Morphological root	Meaning	Latin example	English equivalent
-cyclin-	antibiotics -tetracycline	Tetracyclīnum	tetracycline
-cyclo-	making an effect on the metabolic processes	Cycloserīnum	cycloserin
-menth-	a product including mint	Menthōlum	menthol
-mycīn-	antibiotics-streptomycin	Monomycīnum	monomycin
-myco-	antimycotic, against fungi	Mycoseptīnum	mycoseptin
-pyr-	influence on the body temperature	Antipyriūnum but: Aspirinum!	antipyrin aspirine
-strept-	different pharmaceutical effects	Streptocīdum	streptocide

You should memorize prefixes of Greek origin used to construct a drug name:

Prefix	Meaning	Latin example	English equivalent
a-, an- (before a vowel)	denying, removing	Apressīnum Analgīnum	apressin analgin
anti-	acting against	antiasthmaticus	antiasthmatic
hyper-	increase, elevation	Hyperōlum	hyperol
hypo-	decrease, lowering	Hypothiazīdum	hypothiazid

Every multiword Latin pharmaceutical term begins, as a rule, with a drug form name. Then, the drug name follows. If the drug form has an adjective, this adjective is the last in the term:

Extractum Crataegi fluīdum — liquid extract of hawthorn

Tabulettae Tetracyclīni obductae — coated tablets of tetracycline.

Sometimes, the drug name is used without a form name, particularly if the prescription or way of storage is indicated:

Aether pro narcōsi — ether for narcosis

Cycloserīnum in capsūlis — cycloserin in capsules

Somatotropīnum humānum pro injectionībus — human somatotropin for injections

Thyreoidīnum in tabulettis — thyreoidin in tablets.

Latin names of drugs with compound composition can be enclosed into quotation marks or inverted commas. But English equivalents of these names are used without quotation marks or inverted commas, compare:

Aërosolum «Camphomenum» — aerosol of camphomen

Suppositoria «Anaesthesolum» — suppositories of anaesthesol

In the vocabulary you can find indication with which nouns these specific signs are used.

§ 77. Exercises

1. Write down the dictionary form of each word and translate it into English:

Extractum Leonūri fluīdum; Linimentum Aloës; Rhizōma cum radicībus Valeriānae; Sirūpus ex fructībus Rosae; Solutio «Testosterōnum» pro injectionībus; Suppositoria vaginalia cum Synthomycīno; Tabulettae Aspirīni obductae; Tinctūra foliōrum Eucalypti; Unguentum Dibiomycīni ophthalmīcum.

2. Give the dictionary form of each word and translate into Latin:

antiasthmatic species; coated tablets of tetracycline; decoction of oak bark; tincture of pepper mint; dry extract of belladonna; ether for narcosis; herb of spring Adonis; liquid extract of hawthorn; medicinal tea for children; mint pepper leaves; ointment of mycoseptin; powder of foxglove leaves; root and rhizome of valerian; simple and compound powders; tablets of antipyrin; tincture of matricary flowers.

I. Latin–English vocabulary

Aloë, ës f	aloe
Aspirīnum, i n cum (Abl.)	aspirin with
Dibiomycīnum, i n ex (Abl.)	dibiomycine of , from
Eucalyptus, i f extractum, i n	eucalyptus extract
fluīdus, a um	liquid
folium, i n	leaf
fructus, us m	fruit
injectio, ōnis f	injection
Leonūrus, i m	motherwort
linimentum, i n	liniment
obductus, a, um	coated
ophthalmīcus, a, um	ophthalmic
pro (+Abl.)	for
radix, ĩcis f	root
Rosa, ae f	dog rose, wild rose
rhizōma, ātis n	rhizome
sirūpus, i m	syrup
solutio, ōnis f	solution
suppositorium, i n	suppository
Synthomycīnum, i n	synthomycin
tabuleta, ae f	tablet
tinctūra, ae f	tincture
Testosterōnum, i n	testosterone
unguentum, i n	ointment
vaginālis, e	vaginal
Valeriāna, ae f	valerian

II. English–Latin vocabulary

adonis, phesant's eye	Adōnis, ĩdis m, f
antiasthmatic	antiasthmaticus, a, um
antipyrin	Antipyri-num, i n
bark	cortex, ĩcis m
belladonna	Belladonna, ae f
children	infantes, ium m, f
coated	obductus, a, um
compound	compositus, a, um
decoction	decoctum, i n
dry	siccus, a, um
ether	aether, ěris m
extract	extractum, i, n
flower	flos, floris m

for	pro (+Abl.)
foxglove	Digitālis, is f
hawrhorn	Crataegus, i f
herb	herba, ae f
leaf	folium, i n
liquid	fluīdus, a,um
matricary	Chamomilla, ae f
medicinal	medicinālis, e
mint	Mentha, ae f
mycoseptin	Mycoseptinum, i n
narcosis	narcōsis, is f
oak	Quercus, us f
ointment	unguentum, i n
pepper	piperītus, a, um
powder	pulvis, ěris m
rhizome	rhizōma, ātis n
root	radix, ĩcis f
simple	simplex, ĩcis
species	species, ěrum f (only plur.)
spring	vernālis, e
tablet	tabuleta, ae f
tea	thea, ae f
tertracycline	Tetracyclīnum, i n
tincture	tinctūra, ae f
valerian	Valeriāna, ae f

LESSON 15

LATIN IN THE MEDICAL PRESCRIPTION. STANDARD VERB FORMS INDICATING ORDER AND INSTRUCTIONS IN MAKING UP THE LATIN PART OF PRESCRIPTION. GENERAL RULES OF MAKING UP THE LATIN PART OF PRESCRIPTION

The use of Latin medical prescription nowadays is still common in many states of Europe, particularly in the countries of the former USSR including the Republic of Belarus and the Russian Federation. That is why the rules of proper use of Latin in medical prescriptions are obligatory in medical university syllabus of these states. Latin inscriptions are written on the labels of drug packing, reference books, and in medical prescriptions.

The Latin part of a medical prescription begins with the Imperative form *Recĭpe: Take:* This word is addressed to a pharmacist who has to prepare and to hand over a drug to a person.

If the drug is produced by a pharmaceutical plant then the prescription includes the name of this drug which is written after *Recĭpe:*

Recĭpe: Unguenti Tetracyclīni ophthalmĭci 10,0 –

Signa	Write on the label	Signētur	Let it be labelled
Sterilīsa!	Sterilize!	Sterilisētur!	Let it be sterilized!

One should remember that the Imperative form «Recīpe» can never be replaced by the Conjunctive one.

The use of the Imperative or Conjunctive forms depends only on the physician writing a medical prescription. As to students, they are to be able to write correctly the grammar form of an order or an instruction according to the initial Latin or English verb form.

Sometimes the physician asks the pharmacist to prepare a drug in the pharmacy. In this case, he writes down all the components of this drug. Such a prescription is called a complex one. Naturally, in such a prescription the physician indicates some components to be mixed: *Misce* — *Mix*. He can also define more precisely for what purpose the mixture is necessary — that is for making some drug form. In this case, two forms are used: **fiat** for the nouns in singular and **fiant** for the nouns in plural:

Misce, fiat pulvis — *Mix to make a powder*

Misce, fiant suppositoria vaginalia — *Mix to make vaginal suppositories*

One should remember that the Imperative form *Misce* is only used in the combination with the forms *fiat* and *fiant*.

Sometimes, the physician indicates in which form and in what amount the drug is to be prepared. In this case, he writes down these standard forms:

Da (Dentur) ales doses numēro ... in tabulettis (ampullis, capsūlis etc) — Give such doses in the amount 10 or: Let such doses be given in the amount 10 in tablets (ampoules, capsules etc.).

If two or more components are taken in the same amount, the dose is indicated only after the latter one, and the adverb *ana* «of each» is written before this amount:

Recīpe: Cortīcis Frangūlae
Foliōrum Urtīcae ana 15,0

Take: Cortex of buckthorn
Leaves of nettle of each 15,0

Now, let us see some complex medical prescriptions with different standard phrases:

Recīpe: Sulfadimezīni
Streptocīdi
Synthomycini ana 1,0
Misce, fiat pulvis
Detur
Signētur:

Take: Sulfadimezine
Streptocide
Synthomycin of each 1,0
Mix to make a powder
Let it be given
Let it be labelled:

Recīpe:	Euphyllini 0,2 Butyri Cacao 2,0 Misce, fiat suppositorium Da tales doses numēro 6 Signa:	Take:	Euphyllin Cocoa oil 2,0 Mix to make a suppository Give such doses in the amount 6 Write on the label:
---------	--	-------	---

Sometimes, the amount of oils or other liquids can be indicated in drops. The number of drops is written in Roman figures. If one drop is indicated, so the Accusative singular form **guttam** is used, if more than one, the Accusative plural form **guttas** is used:

Recīpe: Olei Menthae piperītae guttam I	Take: Mint pepper oil I drop
Recīpe: Olei Eucalypti guttas V	Take: Eucalypt oil V drops

In some cases, the physician doesn't indicate the dosage of a complex prescription component and lets the pharmacist determine the quantity of this component on his own. In this case, the standard expression **quantum satis** — in sufficient amount — is used:

Recīpe:	Chinosōli 0,03 Acīdi borīci 0,3 Tannini 0,06 Olei Cacao quantum satis, fiat suppositorium vaginale Da tales doses numēro 6 Signa:	Take:	Chinosol 0,03 Boric acid 0,3 Tannin 0,06 Cocoa oil in sufficient amount to make a vaginal suppository Give such doses in the amount 6 Write on the label:
---------	---	-------	---

the Latin part of a medical prescription

1. Every new line begins with capital letter.
2. Every first letter of the next new line is written strictly under the first letter of the previous one.
3. If the prescription text is to be continued in the next line, the first letter in the next line should begin under the fourth letter of the previous one.
4. Any correction in the prescription text is forbidden.

alkaloids and glycosides with different pharmaceutical effects

Morphological roots	Latin examples	English equivalents
-anth-	Galanthamīnum, i n Helianthus, i m	galanthamine sunflower
-eph-, -ephedr-, -phedr-	Ephatīnum, i n Ephedrīnum, i n Theophedrīnum, i n	ephatin ephedrin theophedrin
-glyc(y)-	Glycerīnum, i n Corglycōnum, i n Glycyrrhīza, ae f Sed: Glucōsum, i n	glycerin corglycon licorice But: glucose
-phyll-	Euphyllīnum, i n Platyphyllīnum, i n	euphylline platyphylline

Morphological roots	Latin examples	English equivalents
-phyt	Phytīnum, i n Phytolysīnum, i n	phytin phytolysin
-stroph-	Strophanthus, i m Strophosānum, i n	strophanthus strophosan
-the(o) –	Theobromīnum, i n Theophyllīnum, i n	theobromine theophylline

1. Give the dictionary form of each word, translate the terms into English:
Capsūlae Phytomenadiōni; Emulsum olei Helianthi; Granūla Glycyrāmi;
Pulvis Phytīni pro infantibus; Solutio Corglycōni in ampullis; Solutio Glucōsi pro
injectionibus; Suppositoria cum Euphyllīno; Tabulettae «Theophedrīnum»; The-
ophyllīnum in tabulettis.

2. Give the dictionary form of each word, translate the terms into Latin:
aerosol of ephatin; dry (liquid) extract of licorice; glyceric solution of ichthyol;
oily solution of phytomenadion; pectoral species; tincture of strophanthus; sunflower
oil for emulsion; suppositories with theophylline; sublingual tablets of glycin.

3. Write down the dictionary form of the nouns and adjectives as well as
standard verb forms indicating order or instruction in the medical prescription;
translate the texts of medical prescriptions into Latin:

- | | |
|--|--|
| 1. Take: Soluble streptocide 5,0
Solution of glucose 10 % –
100 ml
Mix. Let it be sterilized!
Give.
Write on the label: | Take: Theophylline 0,2
Cocoa oil 2,0
Mix to make a rectal suppository
Give
Write on the label: |
| 3. Take: Tincture of strophanthus 5 ml
Tincture of lily of the valley
Tincture of valerian of each
10 ml
Let it be mixed
Let it be given
Let it be labelled: | 4. Take: Oily solution of nitroglycerin 1 %
— 0,0005
Let such doses be given in the
amount 20 in capsules
Let it be labelled: |
| Take: Solution of strophanthine
0,05 % — 1 ml
Give such doses in the
amount 10 in ampoules
Write on the label: | 6. Take: Bark of althea
Bark of licorice
Seed of flax of each 10,0
Leaves of eucalyptus 2,5
Mix to make a species
Give. Write on the label: |
| 7. Take: Chloroform
Sunflower oil of each 20 ml
Mix to make a liniment
Let it be given
Let it be labelled: | 8. Take: Ichthyol 3,0
Vaseline up to 30,0
Mix to make an ointment
Give.
Write on the label: |

I. Latin–English vocabulary

ampulla, ae f
 capsŭla, ae f
 Corglycōnum, i n
 Glucōsum, i
 Glycyrāmum, i n
 granŭlum, i n
 emulsum, i n
 Euphyllīnum, i n
 Helianthus, i m
 infans, ntis m, f
 Phytīnum, i n
 Phytomenadiōnum, i n
 pulvis, ěris m
 solutio, ōnis f
 tabuletta, ae f
 Theophedrīnum, i n
 Thophyllīnum, i n

ampoule
 capsule
 corglycon
 glucose
 glycyram
 granule
 emulsion
 euphylline
 sunflower
 child
 phytin
 phytomenadion
 powder
 solution
 tablet
 theophedrin
 theophylline

II. English–Latin vocabulary

aerosol
 althea
 amount (= number)
 ampoule
 capsule
 chloroform
 cocoa
 dose
 extract
 ephatin
 emulsion
 eucalyptus
 flax
 glucose
 glyceric
 glycin
 ichthyol
 leave
 licorice
 lily of the valley
 liniment
 make (to make)
 nitroglycerin
 of each
 oil
 oily
 pectoral

aërosōlum, i n
 Althaea, ae f
 numĕrus, i m
 ampulla, ae f
 capsŭla, ae f
 Chloroformium, i n
 Cacāo (without a dictionary form)
 dosis, is f
 extractum, i n
 Ephatīnum, i n
 emulsum, i n
 Eucalyptus, i f
 Linum, i n
 Glucōsum, i n
 glycerinōsus, a, um
 Glycīnum, i n
 Ichthyōlum, i n
 folium, i n
 Glycyrrhīza, ae f
 Convallaria, ae f
 linimentum, i n
 fiat (sing.), fiant (plur.)
 Nitroglycerīnum, i n
 ana
 oleum, i n
 oleōsus, a, um
 pectorālis, e

phytomenadion	Phytomenadiōnum, i n
rectal	rectālis, e
seed	semen, ĩnis n
soluble	solubĭlis, e
solution	solutio, ōnis f
species	species, ěrum f (only plural)
streptocide	Streptocĭdum, i n
strophanthine	Strophanthĭnum, i n
strophanthus	Strophanthus, i m
sublingual	sublinguālis, e
such	talis, e
sunflower	Helianthus, i m
theophylline	Theophyllĭnum, i n
up to	ad (Acc.)
vaseline	Vaselĭnum, i n

LESSON 16

THE USE OF THE ACCUSATIVE OF SOME PHARMACEUTICAL FORMS IN THE FIRST LINE OF A MEDICAL PRESCRIPTION

The Accusative of some pharmaceutical forms is used only in a simple medical prescription. This is the way of prescribing tablets, drops, suppositories, ophthalmic films, sponges for different medical purposes, aerosols. The name of these pharmaceutical forms is written in the Accusative singular or plural. The Latin drug name in the Nominative form is sometimes enclosed in inverted commas or quotation marks, which are omitted in the English text, where in this case the common construction with preposition «of» is used. The amount of the prescribed drug is in so doing not indicated in grams or in milliliters but is expressed by the word «numĕrus» (number) in the Ablative form (numĕro) and a common figure. In the second line the standard verb forms are written:

Recĭpe:	Tabulettas «Antistrumĭnum» numĕro 50	Take:	Tablets of antistrumin number 50
	Detur.		Let it be given
	Signetur:		Let it be labelled:
Recĭpe:	Tabulettas Aloĕs obductas 0,05 numĕro 20	Take:	Coated tablets of aloē number 20
	Da		Give.
	Signa:		Write on the label:

As in English drug names inverted commas or quotation marks are not used, it is impossible when translating to find out which Latin equivalent drug name with these specific signs is to be written. That is why when translating from English into Latin we have to consult the dictionary and to find out whether the drug name is enclosed in inverted commas or quotation marks or not. So, if we

see in the dictionary: psoriasin (ointment) — Unguentum «Psoriasīnum»; antistrumin (tablets) — Tabulettae «Antistrumīnum»; Benspar (capsules) — Capsulae «Bensparum», we know, how the Latin drug name is to be written correctly, for example:

Take:	Capsules of benspar number 100	Recīpe:	Capsūlas «Benspar» numĕro 100
	Give.		Da.
	Write on the label:		Signa:

Now let us see in detail the use of different pharmaceutical forms in the Accusative.

The drug prescription in tablets may proceed in three forms.

In the first case after Recīpe the Accusative singular form Tabulettam is written, then follow the drug name in the Genitive form and the dose. In the second line of the prescription the instruction *Da (Dentur) tales doses numĕro... in tabulettis* is written and after that the standard verb form Signa (Signetur) follows:

Recīpe: Tabulettam Paracetamoli 0,3	Take: Tablet of paracetamol 0,3
Da tales doses numĕro 6 in tabulettis	Give such doses in the amount 6 in tablets
Signa:	Write on the label:

In the second case after «Recīpe» the Accusative plural form «Tabulettas» is written, then follow the drug name in the Genitive form and figures indicating the amount of active medical substance of a tablet and, finally, the dosage expressed by the «numĕro» and a figure:

Recīpe: Tabulettas Paracetamōli 0,3 numĕro 6	Take: Tablets of paracetamol 0,3 number 6
Da.	Give
Signa:	Write on the label:

But the same drug can be prescribed in a traditional form indicating the drug quantity, and that is the third way of drug prescribing in the tablet form. In this case after «Recīpe» the drug name and its dose follow. In the second line the instruction *Da (Dentur) tales doses numĕro 6 in tabulettis* and, finally, the standard form «Signa» («Signetur») are written:

Recīpe: Paracetamōli 0,3	Take: Paracetamol 0,3
Da tales doses numĕro 6 in tabulettis	Give such doses in the amount 6 in tablets
Signa:	Write on the label:

It is absolutely imperative that every physician is to know all the ways of writing out medical prescriptions. But the choice of a prescription form is up to him.

Dragee originates from the French word «dragée». The last word is used as the equivalent in Latin pharmaceutical terminology» and is prescribed mainly in

the plural form. From the grammar point of view, the «dragées» is considered as Accusative depending on the word «Reciĕpe», but as a French word, it has no case and dictionary form. The prescription regulations for dragees are the following. After the «Reciĕpe» follow the form Dragées, the drug names in inverted commas (quotation marks) or in the Genitive form and the Ablative case «numero» with a figure indicating the dose:

Recipe: Dragées «Undevitum» numero 30	Take: Dragees of undevit number 30
Detur.	Let it be given
Signetur:	Let it be labelled:

One should add that sometimes, an other order of drops prescription is used. In this case, after «Reciĕpe» the singular form Dragée is written with the drug name in the Genitive and a figure indicating the dose. In the second line follows the phrase *Da (Dentur tales doses) numero...*:

Recipe: Dragée Diazolini 0,05	Take: Dragée of diazolin 0,05
Da tales doses numero 20	Give such doses in the amount 20
Signa:	Write on the label:

Ophthalmic films are absorbable gelatin films containing drug substances. They are used instead of ophthalmic drops when keeping such a film under the eyelid at night.

The ophthalmic films are usually prescribed with the preposition «cum». The prescription regulations for the ophthalmic films are the following. The verb «Reciĕpe» is followed by the Accusative plural forms lamellas (or membranulas) ophthalmicas, the drug name in the Genitive, the preposition «cum» with the active pharmaceutical component and the form *numĕro* with a figure. In the second and third lines the standard phrases *Da (Dentur) tales doses numero ...* and *Signa (Signetur)* are written:

Recipe: Lamellas ophthalmicas cum	Take: Ophthalmic films with
Novocaĕno numĕro 8	Novocain number 8
Da. Signa:	Give. Write on the label:

A pharmaceutical sponge is a porous substance saturated with a drug. It is applied to the necessary place and has antiseptic, haemostatic and other pharmaceutical effects. Pharmaceutical sponges are usually prescribed in plural form and in two variants.

1. The verb «Reciĕpe» is followed by the Accusative plural form *Songias*, the drug name in quotation marks (inverted commas) and the «numero» with a figure. The second and the third lines contain the standard phrases *Da (Dentur)* and *Signa (Signetur)*:

Recipe: Songias «Methuracolum»	Recipe: Sponges of meturacol
numĕro 10	number 10
Da	Give
Signa:	Write on the label:

2. «*Recīpe*» is followed by the Accusative plural forms *Spongias* and an adjective, the preposition «with», the drug name and the form «numero» with a figure. After that the standard forms *Da (Detur)* and *Signa (Signetur)* follow:

Recīpe: *Spongias antisepticas cum Kanamycīno numēro 5*
 Detur.
 Signētur:

Take: Antiseptic sponges with kanamycin number 5
 Let it be given
 Let it be labelled:

A pharmaceutical suppository is a drug in the form of a round or conical tablet which is solid at room temperature and semisolid at body temperature. They distinguish the rectal suppository and the vaginal one. In the Accusative case, suppositories are prescribed as medical sponges:

1. «*Recīpe*» is followed by the Accusative plural form *Suppositoria* with the adjective *vaginalia (rectalia)* or without these adjectives, the drug name in inverted commas and the numero with a figure. The second and the third lines contain the standard phrases *Da (Detur)* and *Signa (Signetur)*:

Recīpe: *Suppositoria vaginalia «Osarbōnum» numēro 10*
 Da. Signa:

Take: Vaginal suppositories of osarbon number 10
 Give. Write on the label:

2. «*Recīpe*» is followed the Accusative plural form *Suppositoria*, the preposition «cum» and the active pharmaceutical component in the Ablative, a figure indicating the amount of this component, the form «numero» with a figure. After that the standard forms *Da (Detur)* and *Signa (Signetur)* follow in the next lines:

Recīpe: *Suppositoria cum Diprophyllīno 0,5 numēro 30*
 Detur. Signētur:

Take: Suppositories with diprophylline 0,5 number 30
 Let it be given. Let it be labelled:

An aerosol contains the drug in a gaseous form which is contained in a small cylinder provided with a valve.

Aerosols are prescribed in the Accusative singular form in two ways:

1. «*Recīpe*» is followed by the Accusative singular form *Aërosolum*, its name in inverted commas and the numero with a figure. After that the standard forms *Da (Detur)* and *Signa (Signetur)* follow in the next lines:

Recīpe: Aërosōlum «Proposōlum»
 numĕro 2
 Da
 Signa:

Take: *Aerosol of proposal*
number 2
 Give.
 Write on the label:

2. «Recīpe» is followed by the Accusative singular form *Aërosolum* and its name in inverted commas or quotation marks. In the second line, the standard phrase *Da (Dentur) tales doses numero* is written:

Recīpe: Aërosolum «Proposōlum»
 Da tales doses numĕro 2
 Signa:

Take: *Aerosol of proposal*
 Give such doses in the amount 2
 Write on the label:

§ 95. Morphological roots

Morphological roots	Meaning	Latin examples	English equivalents
-aesthes-, -aesth-, -asthes-, -esthes-	correction of sensibility	Anaesthesīnum, i n Aesthocīnum, i n Bellasthesīnum, i n Pavesthesīnum, i n	anaesthesin aesthucin bellasthesin pavesthesin
-cain-	anesthetic effect	Novocaiñum, i n Ultracaiñum, i n	novocain ultracain
-camph-	influence on the central and peripheral nervous system	Bromcamphōra, ae f Camphonium, i n	bromcamphora camphonium
-erythr-, -eryth-, -ery-	1) containing erythromycin 2) produced from erythrocytes	Erythromycīnum, i n Eryhaemum, i n Erycyclīnum, i n	erythromycin eryhaem erycyclin
-haem-	haemostatic or haematopoiesis stimulating effect	haemostatīcus, a, um Haemostimulīnum, i n	haemostatic haemostimulin
-oestr-	female genital hormones	Oestradiōlum, i n Synoestrōlum, i n	oestradiol synoestrol
-test-	male genital hormones	Medrotestrōnum, i n Testosterōnum, i n	medrotestron testosteron
-thym-	immunity stimulators produced by thymus	Thymalīnum, i n Thymoptīnum, i n	thymalin thymoptin
-thyr-	correction of thyroid function	Thyroidīnum, i n Rifathyroīnum, i n	thyroidin rifathyroin

1. Give the dictionary form of each word, translate from Latin into English:

Ampullae cum pulvĕre Rifathyroīni; Granūla Erycyclīni in capsūlis; Injectiones Thymalīni pro adultis; Lamellae ophthalmīcae cum Dicaīno; Pulvis Dicaīni crystallisātus; Solutio Pyromecaīni pro infusionibus intravenōsis; Spongia haemostatīca in vitro vitreo; Suppositoria «Anaesthesōlum»; Thyreoidīnum in tabulettis.

2. Give the dictionary form of each word, translate from English into Latin:

anaesthesin for narcosis; camphoric spirit for triturating; eryhaem in vitreous phials; haemostatic plaster of feracryl; oily solution of synoestrol in the am-

poules; testoenat for injections; tablets of pregoestrol; solution of thymogen for intranasal introduction.

3. Give the dictionary form of the nouns and the adjectives, translate the medical prescriptions into Latin:

- | | |
|--|--|
| 1. Take: Coated tablets of allochol
for children number 25
Give. Write on the label: | 2. Take: Capsules of oestradiol 0,14
number 12
Give. Write on the label: |
| 3. Take: Thyreoidin 0,05
Let such doses be given in
the amount 50 in tablets
Let it be labelled: | 4. Take: Solution of haemophobin 5 ml
Give such doses in the
amount 10 in ampoules
Write on the label: |
| 5. Take: Erynit 0,1
Give such doses in the
amount 20 in tablets
Write on the label: | 6. Take: Ophthalmic films with
neomycin number 8
Let it be given
Let it be labelled: |
| 7. Take: Vaginal suppositories
with synthomycin
0,15 number 10
Give. Write on the label: | 8. Take: Aerosol of camphomen
Give such doses in the
amount 2
Write on the label: |
| 9. Take: Haemostatic collagen
sponge
Let such doses be given in
the amount 4 in plastic
packets
Let it be labelled: | 10. Take: Anaesthesin 2,5
Cocoa oil in sufficient
amount to make a
rectal suppository
Let such dose be given in the
amount 50 in tablets
Let it be labelled: |

I. Latin–English vocabulary

adultus, i, m	adult, an adult person
ampulla, ae f	ampoule
«Anaesthesōlum» (Anaesthesōlum, i n)	anaesthesol
capsūla, ae f	capsule
crystallisātus, a, um	crystal
Dicaīnum, i n	dicain
Erycyclīnum, i n	erycyclin
granūlum, i n	granule
haemostaticus, a, um	haemostatic
infusio, ōnis f	infusion
intravenōsus, a, um	intravenous
lamella, ae f	film (ophthalmic)
Oestradiōlum, i n	oestradiol
ophthalmicus, a, um	ophthalmic
Pyromecaīnum, i n	pyromecain
pulvis, ěris m	powder
Rifathyroīnum, i n	rifathyroin
spongia, ae f	sponge

Thymalīnum, i n	thymalin
Thyreoidīnum, i n	thyreoidin
vitrum, i n	phial, glass
vitreus, a, um	vitreous

II. English–Latin vocabulary

aerosol	aërosōlum, i n
alcohol	Allochōlum, i n
ampoule	ampulla, ae f
anaesthesin	Anaesthesīnum, i n
camphomen	«Camphomēnum» (Camphomēnum, i n)
camphoric	camphorātus, a, um
collagen	collagenīcus, a, um
eryhaem	Eryhaemum, i n
erynit	Erynītum, i n
erythromycin	Erythromycīnum, i n
feracryl	«Feracrȳlum» (Feracrȳlum, i n)
film	lamella, ae f; membranŭla, ae f
glass	1) vitrum, i n 2) vitreus, a, um
haemophobin	Haemophobīnum, i n
haemostatic	haemostatīcus, a, um
in sufficient amount	quantum satis
intranasal	intranasālis, e
introduction	inductio, ōnis f
neomycin	Neomycīnum, i n
number	numērus, m
oily	oleōsus, a, um
oestradiol	Oestradiōlum, i n
packet	fascis, is m
phial	vitrum, i n
plaster	emplasrum, i n
plastic	polyaethylenīcus, a, um
pregoestrol	Praegoestrōlum, i n
sponge	spongia, ae f
synthomycin	Synthomycīnum, i n
spirit (alcohol)	spirītus, us m
synoestrol	Synoestrōlum, i n
testoenat	Testoenātum, i n
thyreoidin	Thyreoidīnum, i n
trituration, trituration	trituration, ōnis f
thymogen	Thymogēnum, i n
vaginal	vaginālis, e
vitrous	vitreus, a, um

LESSON 17

LATIN NAMES OF CHEMICAL ELEMENTS, ACIDS, OXIDES, HYDROXIDES, PEROXIDES

Latin names of chemical elements are, as a rule, nouns of the second declension and of the neuter gender beginning always with a capital letter:

Aluminium, i n *aluminum* Ferrum, i n *iron* Zincum, i n *zinc*

Nouns of two chemical elements are exception from this rule:

Phosphorus, i m *phosphorus*

Sulfur, ūris n *sulphur* (*in American English the spelling is sulfur*)

Some elements have double names:

fluorine *Fluōrum, i n = Phthorum, i n*

magnesium *Magnium, i n = Magnesium, i n*

See the chemical element names of most common usage in the table below:

Latin chemical symbols	Latin names	English names
Al	Aluminium	aluminium
Ag	Argentum	silver
As	Arsenicum	arsenic
Au	Aurum	gold
Ba	Barium	barium
Bi	Bismuthum	bismuth
B	Borum	boron
Br	Bromum	bromine
Ca	Calcium	calcium
C	Carboneum	carbon
Cl	Chlorum	chlorine
Cu	Cuprum	copper
Fe	Ferrum	iron
F	Fluōrum seu Phthorum	fluorine
Hg	Hydrargyrum	mercury
H	Hydrogenium	hydrogen
I	Iōdum	iodine
K	Kalium	potassium
Li	Lithium	lithium
Mg	Magnium seu Magnesium	magnesium
Mn	Mangānum	manganese
Na	Natrium	sodium
N	Nitrogenium	nitrogen
O	Oxygenium	oxygen
Pb	Plumbum	lead
P	Phosphorus	phosphorus
Si	Silicium	silicon
S	Sulfur	sulphur (sulfur)
Zn	Zincum	zinc

Every Latin acid name consists of the noun *acidum* (acid) and an adjective of the first group with the ending **-um** in accordance with the rules of grammar agreement. One should, hereby, pay attention, that in the dictionary form, both nouns and adjective are written with a small letter but in the combination with an adjective the noun *acidum* is written with a capital letter:

acidum, i n — acid *boricus, a, um* — boric **but:** *Acidum boricum*

There are three variants of Latin acid names. The first two variants cover the names of acids which include oxygen, the last one — the names of acids without oxygen.

In the first variant, when an acid contains the greatest amount of oxygen, the suffix **-ic-** and the ending **-um** are added to the stem of a chemical element. English equivalents of these Latin adjectives have the suffix **-ic** as a final element:

Latin noun of chemical element	The stem	Latin adjective indicating the acid	The full Latin name of the acid	The full English name of the acid
<i>Sulfur, ūris n</i>	sulfur-	sulfuricus, a, um	<i>Acidum sulfuricum</i> (H ₂ SO ₄)	sulphuric acid

The same way of acid names building is used when names of organic acids are formed:

Latin noun	The stem	Latin adjective indicating the acid	The full Latin name of the acid	The full English name of the acid
<i>lac, lactis n</i> (milk)	lact-	lacticus, a, um	<i>Acidum lacticum</i>	lactic acid

In the second variant when the acid of the same element contains lesser amount of oxygen, the suffix **-os-** is used. In this case English equivalents have the ending **-ous**:

Latin noun	The stem	Latin adjective indicating the acid	The full Latin name of the acid	The full English name of the acid
<i>Sulfur, ūris n</i>	sulfur-	sulfurōsus, a, um	<i>Acidum sulfurōsum</i> (H ₂ SO ₃)	sulphurous acid

In the third variant, when an acid doesn't contain oxygen, the prefix **hydro-** and the suffix **-ic-** are added to the stem:

Latin noun	The stem	Latin adjective indicating the acid	The full Latin name of the acid	The full English name of the acid
<i>Sulfur, ūris n</i>	sulfur-	hydrosulfuricus, a, um	<i>Acidum sulfurōsum</i> (H ₂ S)	hydrosulphuric acid

One should remember that in acid names (as well as in salt names) formed from the noun *Nitrogenium* only a part of the stem is used: **-nitr-**

Acidum nitricum — nitric acid *Acidum nitrōsum* — nitrous acid

Latin names of oxides, hydroxides, peroxides consist of two words. The first one is always the Genitive form of a chemical element, then the Nominative form oxĭdum (hydroxĭdum, peroxyĭdum) follows:

Zinci oxĭdum — zinc oxide

Aluminii hydroxĭdum — aluminum hydroxide

Hydrogenii peroxyĭdum — hydrogen peroxide.

The names oxĭdum, hydroxĭdum, peroxyĭdum are nouns of the neutral gender of the second declension:

oxĭdum, i n

hydroxĭdum, i n

peroxyĭdum, i n.

Morphological roots	Meaning	Latin examples	English equivalents
-(a)z-, -(a)zid-, -(a)zin-, -(a)zol-, -(a)zon-	presence of nitrogen in the heterocyclic compounds	Azaleptĭnum, i n Phthivazĭdum, i n Sulfapyridazĭnum, i n Norsulfazĕlum, i n Sibazĕnum, i n	azaleptin phthivazid sulfapyridazin norsulfazol sibazon
-benz-	presence of benzene ring	Benzohexonium, i n benzoĭcus, a, um	benzohexon benzoic
-cyan-	cyanic acid, its anions or a cyan group	Cyanocobalamĭnum, i n cyanĭdum, i n	cyanocobalamin cyanide
-hydr-, -hyd-	presence of hydrogen, water or a hydroxyl group	Hydrogenium, i n Formaldehydum, i n	hydrogen formaldehyde
-naphth-	products of petroleum	Naphthalĕnum, i n Naphthyzĭnum, i n	naphthalan naphthyzin
-oxy-	presence of oxygen and its compounds	Chinoxydĭnum, i n Oxylidĭnum, i n	chinoxidin oxylidin
-phtha(l)-	derivatives of phthalic acid	Phthalazĕlum, i n Phthazĕlum, i n	phthalazol phthazol
-phthor-	presence of fluorine compounds	Phthorocortum, i n Phthoracizĭnum, i n	phthoracizin phthorocort
-sulf-	presence of sulphur or its derivatives	Norsulfazĕlum, i n sulfas, ātis m	norsulphazol sulphate
-thi-	presence of sulphur atom in the names of thiosalts and thioacids	Thiopentĕlum, i n thiosulfas, ātis m	thiopental thiosulphate
-yl-	presence of carbohydrogenic radicals	Benzylpenicillĭnum, i n salicylicus, a, um	benzylpenicillin salicylic

1. Give the dictionary form of each word and translate into English:

Acidum arsenicosum anhydricum; Acidum ascorbinicum in dragées; Cyanocobalaminum seu Vitaminum B₁₂; Emplastrum Plumbi simplex; Emulsum Erythrophosphatidi in ampullis; Phthalazolium in tabulettis; Pulvis Magnesii oxydi; Sirupus Aloës cum Ferro; Sulfacylum solubile pro injectionibus; Sensus Hydrocortisoni in flaconibus; Tabulettae Acidi folici; Tabulettae Acidi acetysalicylici enterosolubiles.

2. Give the dictionary form of each word and translate into Latin:

ascorbic acid in dragee; coated tablets of glutaminic acid; clear hydrochloric acid; diluted solution of hydrogen peroxide; emulsion of castor oil; granules of furazolidon for children; powder of foxglove leaves; solution of nicotinic acid; solution of soluthizon for intratracheal injection; spirituous solution of iodine for internal use; suspension of aluminium hydroxide; tablets of lipoic acid; thioacetazon in tablets; white powder of sulphadimidine; yellow mercury oxide.

3. Give the dictionary form both of the nouns and the adjectives, translate the medical prescriptions:

- | | | | |
|-----------|---|-----------|---|
| 1. Take: | Tablets of phthalazol 0,05
number 20
Give. Write on the label: | 2. Take: | Naphthalan ointment 50,0
Let it be given
Let it be labelled: |
| 3. Take: | Clear hydrochloric acid 6,0
Distilled water up to 100 ml
Let it be mixed
Let it be given
Let it be labelled: | 4. Take: | Purified sulphur
Peach oil of each 30,0
Let it be mixed
Let it be sterilized!
Let it be given
Let it be labelled: |
| 5. Take: | Streptocide
Sulphadimezin
Norsulphazol of each 5,0
Mix to make the finest
powder
Let it be given
Let it be labelled: | 6. Take: | Glutaminic acid 1,5
Solution of glucose 25 %
— 450 ml
Mix
Give
Write on the label: |
| 7. Take: | Menthol 0,1
Zinc oxide
Boric acid of each 0,5
Vaseline 10,0
Mix to make an ointment
Give
Write on the label: | 8. Take: | Boric acid 5,0
Zinc oxide
Wheat starch of each 25,0
Ointment of naphthalan
45,0
Mix to make a paste
Give. Write on the label: |
| 9. Take: | Ascorbic acid 0,2
Nicotinic acid
Riboflavin of each 0,25
Distilled water up to 100 ml
Let it be mixed
Let it be given
Let it be labelled: | 10. Take: | Yellow hydrogen oxide 0,6
Ichthyol 0,8
Zinc ointment 20,0
Mix to make a paste
Give
Write on the label: |
| 11. Take: | Extract of belladonna 0,015
Powder of rhubarb root | 12. Take: | Salicylic acid
Lactic acid of each 6,0 |

Magnesium oxide of each 0,3
 Mix to make a powder
 Give such doses
 in the amount 10
 Write on the label:

Icy acetic acid 3,0
 Collodium up to 20,0
 Mix
 Give
 Write on the label:

I. Latin–English vocabulary

acetylsalicȳlicus, a, um	acetylsalicylic
acĭdum, i n	acid
Aloë, ës f	aloe
anhydrĭcus, a, um	anhydrous
arsenicōsus, a, um	arsenous
ascorbinĭcus, a, um	ascorbic
Cyanocobalamĭnum, i n	cyanocobalamin
depurātus, a, um	purified
dragée, dragées	dragee, dragees
emplastrum, i n	plaster
emulsum, i n	emulsion
enterosolubĭlis, e	enteric soluble
Erythrophosphatĭdum, i n	erythrophosphatide
Ferrum, i n	iron
flaco, ōnis m	phial
folĭcus, a, um	folic
Hydrocortisōnum, i n	hydrocortisone
Magnesium, i n	magnesium
Naphthalānum, i n	naphthalan
Norsulfazōlum, i n	norsulphazol
oxȳdum, i n	oxide
Phthalazōlum, i n	phthalazol
Plumbum, i n	lead
Riboflavĭnum, i n	riboflavin
Ricĭnus, i m	castor-oil plant
seu	or
simplex, ĭcis	simple
solubĭlis, e	soluble
Streptocĭdum, i n	streptocide
Sulfacȳlum, i n	sulfacyl
Sulfur, ūris n	sulphur
suspensio, ōnis f	suspension
vitamĭnum, i n	vitamin

II. English –Latin vocabulary

acetic	acetĭcus, a, um
acid	acĭdum, i n

aluminium
ascorbic
boric
castor oil
castor oil plant
clear
coated
collodium
diluted
distilled
drops
emulsion
finest
furazolidon
glutaminic
hydrochloric
hydrogen
hydroxide
icy
ichthyol
internal
intratracheal
iodine
lactic
lipoic
mercury
naphthalan
nicotinic
oxide
paste
peach
peach oil
peroxide
phthalazol
purified
rhubarb
riboflavin
root
salicylic
soluthizon
spirituous
starch
sulphadimezin
sulphadimidine
suspension
thioacetazone

Aluminium, i n
ascorbinicus, a, um
boricus, a, um
Oleum Ricini
Ricinus, i m
purus, a, um
obductus, a, um
Collodium, i n
dilutus, a, um
destillatus, a, um
dragées
emulsum, i n
subtilissimus, a, um
Furazolidonum, i n
glutaminicus, a, um
hydrochloricus, a, um
Hydrogenium, i n
hydroxydum, i n
glaciālis, e
Ichthyolum, i n
internus, a, um
intratracheālis, e
Iōdum, i n
lacticus, a, um
lipoicus, a, um
Hydrargyrum, i n
Naphthalanum, i n
nicotinicus, a, um
oxydum, i n
pasta, ae f
Persicum, i n
Oleum Persicorum
peroxydum, i n
Phthalazolūm, i n
purificatus, a, um
Rheum, i n
Riboflavīnum, i n
radix, īcis f
salicylicus, a, um
Soluthizonum, i n
spirituosus, a, um
Amylum, i n
Sulfadimezinum, i n
Sulfadimidinum, i n
suspensio, ōnis f
Thioacetazonum, i n

vaseline
use
water
wheat
white
yellow

Vaselīnum, i n
usus, us m
aqua, ae f
Tritīcum, i n
albus a, um
flavus, a, um

LESSON 18

LATIN NAMES OF SALTS ON THE LABELS OF DRUG NAMES AND IN MEDICAL PRESCRIPTIONS

Latin names of salts consist of two parts. First goes the Genitive case of a cation (a chemical element name or, more seldom, a drug name), in the second place is the Nominative of an anion. Anion names are always written with a small letter. If we speak of anions derivatives of acids containing oxygen of different degrees, two variants of these anions are distinguished:

1. Names of anions containing the greatest amount of oxygen are masculine nouns of the third declension with the endings **-as** in the Nominative and **-ātis** in the Genitive singular: Na_2SO_4 — Natrii sulfas → sulfas, ātis m:

Chemical symbol of the salt	Latin name of the salt	The anion and its dictionary form	English equivalent of the anion name	English equivalent of the salt name
Na_2SO_4	Natrii sulfas	sulfas, ātis m	sulphate	sodium sulphate
NaNO_3	Natrii nitras	nitras, ātis m	nitrate	sodium nitrate

So, one can very easily find out the correlation between English and Latin anion names of the first group: the English ending **-ate** corresponds to the Latin ending **-as**. In this way we may instantly determine Latin equivalents of English anions without analyzing their chemical composition, including all the anions of organic acids having the ending **-ate** too:

sodium salicylate — Natrii salicīlas

testosterone propionate — Testosterōni propiōnas

2. The names of anions containing lesser amount of oxygen are masculine nouns of the third declension with the endings **-is** in the Nominative and **-ītis** in the Genitive singular: Na_2SO_3 — Natrii sulfis → sulfis, ītis m:

Chemical symbol of the salt	Latin name of the salt	The anion and its dictionary form	English equivalent of the anion name	English equivalent of the salt name
Na_2SO_3	Natrii sulfis	sulfis, ītis m	sulphite	sodium sulphite
NaNO_2	Natrii nitris	nitris, ītis m	nitrite	sodium nitrite

As you can see, the Latin anion ending **-is** corresponds to the English anion ending **-ite**, and it allows, as it is seen above, to determine any necessary equivalent taking as well into consideration the spelling of each separate word.

The names of anions which don't contain oxygen are neutral nouns of the second declension with the suffix **-id-** and the ending **-um**:

Chemical symbol of the salt	Latin name of the salt	The anion and its dictionary form	English equivalent of the anion name	English equivalent of the salt name
Na ₂ S	Natrii sulfidum	sulfidum, i n	sulphide	sodium sulphide
NaCl	Natrii chloridum	chloridum, i n	chloride	sodium chloride

So, the complex ending **-idum** of the Latin anions which don't contain oxygen corresponds to the English ending **-ide** in the anions with the similar chemical compound.

Conclusion: if you remember the endings of the three seen above variants of Latin anions and if you know which Latin anion ending corresponds to the English one, you do not need to know the chemical compound of any salt to express correctly both English and Latin salt name.

Latin anion names of basic salts are formed by adding the prefix **sub-**:

Bismuthi subnitras — basic nitrate of bismuth
 Aluminium subacetat — basic acetate of aluminium.

Two-component Latin names of potassium and sodium salts are written with a hyphen. Each component of such a name is a neutral noun of the second declension. The second component following the hyphen is written with a small letter. In the dictionary form, after the two-component Nominative cases the ending **-i** and the gender sign **n** follow. English equivalents of these terms are written without a hyphen:

Sulfacilum-natrium, i n — sulphacyl sodium
 Benzylpenicillinum- kalium, i n — benzylpenicillin potassium

Morphological roots	Meaning	Latin examples	English equivalents
-aeth-	presence of ethyl group	aethylicus, a, um Aethacidinum, i n	ethylc ethacridine
-lysin-, -lytin-	removing some destructive factor	Phytolysinum, i n Broncholytinum, i n	phytolysin broncholytin
-meth-	presence of methyl group	Methylenum, i n Methylium, i n	methylen methyl

Morphological roots	Meaning	Latin examples	English equivalents
-morph-	analgetics, derivatives of morphine	Apomorphinum, i n Morpholongum, i n	apomorphin morpholong

-phen-	presence of phenyl group	Phenōlum, i n Phthorophenazīnum, in	phenol phthorophe- nazin
-phthi-	antitubercular effect	Phthivazīdum, i n Phthizopyrāmum, i n	ftivazide phthizopyram
-poly-	large number, multi- tude	polyvitaminōsus, a,um Polyamīnum, i n	multivitaminous polyamin
-thromb-	thrombolytics, against thrombosis	Thrombīnum, i n Thrombocytinum, i n	thrombin thrombocytin

1. Give the dictionary form of each word, translate from Latin into English:

Aether stabilisātus pro narcōsi; Barii sulfas pro rentgēno; Cerebrolysīnum in ampullis ad usum parenterālem; Emulsum Benzylīi benzoātis medicinālis; Granūla Aethazōli-natrii pro infantibus; Membranūlae ophthalmīcae cum Atropīni sulfāte; Methylēnum coeruleum in capsūlis; Phenylii salicīlas in tabulettis; Pulvis Phenoxyethylpenicillīni pro suspensiōne; Solutio Aethacidīni lactātis spirituōsa; Species polyvitaminōsae et pectorāles; Tabulettae Calcii orotātis; Theobromīnum-natrium cum Natrii salicylāte; Spiritus aethylicus rectificātus; Vitamīnum B₆ seu Pyridoxīni hydrochlorīdum.

2. Give the dictionary form of each word, translate from English into Latin:

basic acetate of lead; basic nitrate of bismuth with belladonna extract; coated tablets of tetracycline hydrochloride; hypertonic solution of sodium chloride; isotonic solution of sodium chloride; morpholong for intramuscular injections; ointment of copper citrate; ophthalmic films with fibrinolysin; polyethylenoxide for intravenous use; powder of sarcolysin for solution; precipitated calcium carbonate; rectified ethylic spirit; solution of terrilytin for inhalation; suppositories of methyluracil; syrup of broncholytin in phials; tablets of ethylmorphine hydrochloride for adults; tablets of phthivazid.

3. Give the dictionary form of both nouns and adjectives; translate the medical prescriptions:

1. Take:	Tincture of spring pheasant's eye herb 180 m Amidopyrin 2,0 Sodium bromide 4,0 Codeine phosphate 0,2 Mix Give Write on the label:	2. Take:	Extract of belladonna 0,001 Basic bismuth nitrate Phenyl salicylate of each 0,25 Mix to make a powder Give such doses in the amount 10 Write on the label:
----------	--	----------	---

3. Take:	Ethylmorphine hydrochloride 0,1 Vaseline 10,0 Mix to make an ointment Give.	4. Take:	Rectified ethyl spirit 95 % — 20 ml Water for injections 100 ml Let it be mixed Let it be given
----------	---	----------	---

5. Take: Write on the label:
Platyphylline hydrotartrate
0,005
Phenobarbital
Papaverin hydrochloride of
each 0,02
Give such a dose in
the amount 10
Write on the label:
6. Take: Let it be labelled:
Dimedrol 0,01
Ephedrin hydrochloride 0,1
Peach oil 10 ml
Mint oil I drop
Mix
Give
Write on the label:
7. Take: Coated tablets of
Oleando and omycin
phosphate 0,125
number 25
Let it be given
Let it be labelled:
8. Take: Ophthalmic films with
neomycin sulphate
number 10
Let it be given
Let it be labelled:
9. Take: Morphine hydrochloride
0,015
Apomorphine hydrochloride
0,05
Diluted hydrochloric acid 1ml
Distilled water up to 2000 ml
Let it be mixed
Let it be given
Let it be labelled:
10. Take: Magnesium carbonate 4,0
Potassium carbonate 5,0
Sodium hydrocarbonate 1,0
Glycerin in sufficient
amount
Mix to make a paste
Give
Write on the label:
11. Take: Menthol
Ethylmorphine hydrochloride
of each 200 ml
Sugar 0, 03
Mix to make a powder
Give such a dose
in amount 10
Write on the label:
12. Take: Tincture of althea root
180 ml
Sodium hydrocarbonate
Sodium benzoate of each 5,0
Simple syrup 20,0
Mix.
Give.
Write on the label:

I. Latin–English vocabulary

Aethacridīnum, i n	ethacridine
aethylīcus, a, um	ethyl
aether, ěris m	ether
Aethazōlum-natrium, i n	ethazol sodium
Althaea, ae f	althea
Apomorphīnum, i n	apomorphine
Atropīnum, i n	atropin
benzoas, ātis m	
Benzylum, i n	benzoate
Calcium, i n	benzyl
Cerebrolysīnum, i n	calcium
coeruleus, a, um	cerebrolysin
hydrochlorīdum, i n	blue

lactas, ātis m
 medicinālis, e
 Methylēnum, i n
 orōtas, ātis m
 parenterālis, e
 pectorālis, e
 Phenoxyethylpenicillīnum, i n
 Phenylīnum, i n
 polyvitaminōsus, a, um
 Pyridoxīnum i n
 rentgēnum, i n
 salicīlas, ātis m
 sulfas, ātis m
 Natrium, i n
 spirituōsus, a, um
 spirītus, us m
 suspensio, ōnis f
 Theobrominum-natrium, i n
 vernālis, e
 vitamīnum, i n

hydrochloride
 lactate
 medical
 methylen
 orotate
 parenteral
 pectoral
 phenoxymethylpenicillin
 phenyl
 polyvitaminous
 pyridoxine
 roentgenoscopy
 salicylate
 sulphate
 sodium
 spirituous
 spirit
 suspension
 theobromine sodium
 existing in spring
 vitamin

II. English–Latin vocabulary

amidopyrin
 apomorphine
 basic acetate
 basic nitrate
 belladonna
 benzoate
 bismuth
 bromide
 broncholytin
 calcium
 carbonate
 chloride
 citrate
 codeine
 copper
 diluted
 dimedrol
 ethylmorphine
 fibrinolysin
 film
 glycerin
 hydrocarbonate
 hydrochloride

Amidopyrīnum, i n
 Apomorphīnum, i n
 subacētas, ātis m
 subnītras, ātis m
 Belladonna, ae f
 benzoas, ātis m
 Bismūthum, i n
 bromīdum, i n
 Broncholytīnum, i n
 Calcium, i n
 carbōnas, ātis m
 chlorīdum, i n
 citras, ātis m
 Codeīnum, i n
 Cuprum, i n
 dilūtus, a, um
 Dimedrōlum, i n
 Aethylmorphīnum, i n
 Fibrolysīnum, i n
 lamella, ae f; membranūla, ae f
 Glycerīnum, i n
 hydrocarbōnas, atis m
 hydrochlorīdum, i n

hypertonic	hypertonīcus, a, um
inhalation	inhalatio, ōnis f
intramuscular	intramusculāris, e
intravenous	intravenōsus, a, um
isotonic	isotonīcus, a, um
lead	Plumbum, i n
magnesium	Magnesium, i n
menthol	Menthōlum, i n
morphine	Morphīnum, i n
neomycin	Neomycīnum, i n
papaverine	Papaverīnum, i n
peach	Persīcum, i n
peach oil	Oleum Persicōrum
phenobarbital	Phenobarbitālum, i n
phenyl	Phenylum, i n
phosphate	phosphas, ātis m
phthivazid	Phthivazīdum, i n
platyphylline	Platyphyllīnum, i n
polyethylenoxide	Polyaethylenoxīdum, i n
potassium	Kalium, i n
precipitated	praecipitātus, a, um
salicylate	salicīlas, ātis m
sarcocollin	Sarcocollīnum, i n
sodium	Natrium, i n
spring Adonis (= spring pheasant's eye)	Adōnis (īdis m, f) vernālis (is, e)
spirit	spirītus, us m
sugar	Sacchārum, i n
syrup	sirūpus, i m
terrylitolin	Terrilytīnum, i n
vaseline	Vaselīnum, i n

1. Write down the dictionary form of the Latin equivalents:

- 1) mercury 2) basic acetate 3) mint 4) oxide 5) rhubarb 6) sugar
7) sunflower 8) glucose 9) peach 10) chloroform

2. Give the dictionary form of each word and translate into Latin:

- 1) decoction of oak bark 2) powder of foxglove leaves 3) dry extract of licorice 4) camphoric spirit for trituration 5) eryhaem in glass phials 6) coated tablets of glutaminic acid 7) emulsion of castor oil 8) precipitated calcium carbonate

3. Write down the dictionary form of the nouns and adjectives and translate the following prescriptions into Latin:

1. Take: Ichthyol 3,0
Vaseline up to 30,0
Mix to make an ointment
Give
Write on the label:

2. Take: Clear hydrochloric acid 6,0
Distilled water up to 100 ml
Let it be mixed
Let it be given
Let it be labelled:

3. Take: Ophthalmic films with
neomycin number 8
Let it be given
Let it be labelled:

4. Take: Tincture of althea root 180 ml
Sodium hydrocarbonate
Sodium benzoate of each 5,0
Simple syrup 20,0
Mix.
Give.
Write on the label:

LATIN-ENGLISH VOCABULARY

A

acetylsalicylicus, a, um acetyl-salicylic
acidum, i n acid
ad (Acc.) for
ad usum externum to be taken externally
ad usum internum to be taken internally
ad usum parenteralem to be taken parenterally
adultus, a, um adult
Aethacridinum, i n ethacridine
Aethazolium-natrium, i n ethazol sodium
aether, ěris m ether
aethylicus, a, um ethylic
Aloë, ěs f aloe
Althaea, ae f althea
ampulla, ae f ampoule
Anaesthesolum, i n anaesthesol
anhydricus, a, um anhydrous
Apomorphinum, i n apomorphine
arsenicosus, a, um arsenous
ascorbinicus, a, um ascorbic
Aspirinum, i n aspirin
Atropinum, i n atropine

B

Barium, i n barium
benzoas, ātis m benzoate
Benzylum, i n benzyl

C

Calcium, i n calcium
capsula, ae f capsule
Cerebrolysinum, i n cerebrolysin
coeruleus, a, um blue
Corglyconum, i n corglycon
crystallisatus, a, um crystal
cum (Abl.) with
Cyanocobalaminum, i n cyanocobalamin

D

depuratus, a, um purified

Dibiomycinum, i n dibiomycine
Dicaīnum, i n dicain
dragées dragees

E

emplastrum, i n plaster
emulsum, i n emulsion
enterosolubilis, e enteric soluble
Erycyclinum, i n erycycline
Erythrophosphatidum, i n erythrophosphatide
et and
Eucalyptus, i f eucalyptus
Euphyllinum, i n euphylline
ex (Abl.) from, of
extractum, i n extract

F

Ferrum, i n iron
flaco, ōnis m phial
fluidus, a, um liquid
folicus, a, um folic
folium, i n leaf
fructus, us m fruit

G

Glucosum, i n glucose
Glycyramum, i n glycyram
granulum, i n granule
gutta, ae f drop

H

haemostaticus, a, um haemostatic
Helianthus, i m sunflower
hydrochloridum, i n hydrochloride
Hydrocortisonum, i n hydrocortisone

I

in (Abl.) in
infans, ntis m, f child
infusio, ōnis f infusion
injectio, ōnis f injection
intravenosus, a, um intravenous

L

lactas, ātis m lactate
lamella, ae f film (ophthalmic)
Leonurus, i m motherwort

linimentum, i n liniment

M

Magnesium, i n magnesium

medicinālis, e medical

membranūla, ae f film

Methylēnum, i n methylene

N

Naphthalānum, i n naphthalan

narcōsis, is f narcosis

Natrium, i n sodium

Norsulfazōlum, i n norsulphazol

O

obductus, a, um coated

Oestradiōlum, i n oestradiol

oleum, i n oil

~ **Menthae** mint oil

~ **Persicōrum** peach oil

ophthalmīcus, a, um ophthalmic

orōtas, ātis m orotate

oxŷdum, i n oxide

P

parenterālis, e parenteral

pectorālis, e pectoral

Phenoxymethylpenicillīnum, i n
phenoxymethylpenicillin

Phenylum, i n phenyl

Phthalazōlum, i n phthalazol

Phytīnum, i n phytin

Phytomenadiōnum, i n phytome-
nadiol

Plumbum, i n lead

polyvitaminōsus, a, um polyvita-
minous

pro (Abl.) for

pulvis, ěris m powder

Pyridoxīnum, i n pyridoxine

Pyromecaīnum, i n pyromecain

Q

quantum satis in sufficient amount

Quercus, us f oak

R

radix, ĩcis f root

rectificātus, a, um rectified

rentgenum, i n roentgenoscopy

rhizōma, ātis n rhizome

Riboflavinum, i n riboflavin

Ricīnus, i m castor oil plant

Rifathyroīnum, i n rifathyroin

Rosa, ae f dog rose, wild rose

S

salicylas, ātis m salicylate

seu or

simplex, ĩcis simple

sirūpus, i m syrup

solubīlis, e soluble

solutio, ōnis f solution

species, ěrum f species

spirituōsus, a, um spirituous

spirītus, us m spirit, alcohol

spongia, ae f sponge

stabilisātus, a, um stabilized

Streptocīdum, i n streptocide

Sulfacŷlum, i n sulfacyl

sulfas, ātis m sulphate

Sulfur, ŷris n sulphur

suppositorium, i n suppository

suspensio, ōnis f suspension

Synthomycīnum, i n synthomycine

T

tabuletta, ae f tablet

Testosterōnum, i n testosterone

Theobrominum-natrium, i n
theobromine sodium

Theophedrīnum, i n theophedrin

Theophyllīnum, i n theophylline

Thymalīnum, i n thymalin

Thyreoidīnum, i n thyreoidin

tinctūra, ae f tincture

U

unguentum, i n ointment

usus, us m use

V

vaginālis, e vaginal

Valeriāna, ae f valerian

vernālis, e existing in spring

vitamīnum, i n vitamin

vitreus, a, um vitreous

vitrum, i n phial, glass

ENGLISH–LATIN VOCABULARY

A

acetic acetīcus, a um
acid acīdum, i n
Adonis Adōnis, ĩdis m,f
Adonis vernalis (= **sping pheasant's eye**) Adōnis (ĩdis m, f) vernālis (is, e)
adult adultus, i m; adultus, a, um
aerosol aērosōlum, i n
alcohol Allochōlum, i n
althea Althaea, ae f
aluminium Aluminium, i n
amidopyrin Amidopyrīnum, i n
amount numērus, i m
ampoule ampulla, ae f
anaesthesin Anaesthesinum, i n
antiasthmatic antiasthmaticus, a, um
antipyrin Antipyrīnum, i n
apomorphine Apomorphīnum, i n
ascorbic ascorbinīcus, a, um

B

bark cortex, ĩcis m
basic acetate subacētas, ātis m
basic nitrate subnītras, ātis m
belladonna Belladonna, ae f
benzoate benzoas, ātis m
bismuth Bismūthum, i n
boric borīcus, a, um
bromide bromīdum, i n
broncholytin Broncholytīnum, i n

C

calcium Calcium, i n
camphomen «Camphomēnum»
 (Camphomēnum, i n)
camphoric camphorātus, a, um
capsule capsūla, ae f
carbonate carbōnas, ātis m
castor plant Ricīnus, i m
castor oil Oleum Ricīni
children infantes, ium m, f

chloride chlorīdum, i n
chloroform Chloroformium, i n
citrate citras, ātis m
clear purus, a, um
coated obductus, a, um
cocoa Cacāo (without a dictionary form)
cocoa oil Oleum Cacao
codeine Codeīnum, i n
collagen collagenīcus, a, um
collodium Collodium, i n
compound composītus, a, um
copper Cuprum, i n
cortex cortex, ĩcis m

D

decoction decoctum, i n
diluted dilūtus, a, um
dimedrol Dimedrōlum, i n
distilled destillātus, a, um
dose dosis, is f
dragee dragée
drop gutta, ae f
dry siccus, a, um

E

emulsion emulsum, i n
ephatin Ephatīnum, i n
eryhaem Eryhaemum, i n
erynit Erynītum, i n
erythromycin Erythromycīnum, i n
ether aether, ěris m
eucalyptus Eucalyptus, i f
extract extractum, i n

F

feracryl «Feracrȳlum» (Feracrȳlum, i n)
fibrinolysin Fibrinolysīnum, i n
film lamella, ae f; membranūla, ae f
finest subtilissīmus, a, um
flax Linum, i n
flower flos, floris m
for pro (Abl.); ad (Acc.)

foxglove Digitālis, is f
furazolidone Furazolidōnum, i n

G

glass 1) vitrum, i n 2) vitreus, a, um
glucose Glucōsum, i n
glutaminic glutaminīcus, a, um
glyceric glycerinōsus, a, um
glycerin Glycerīnum, i n
glycin Glycīnum, i n
granule granūlum, i n

H

haemophobin Haemophobīnum, i n
haemostatic haemostaticus, a, um
hawthorn Crataegus, i f
herb herba, ae f
hydrocarbonate hydrocarbōnas, ātis m
hydrochloric hydrochlorīcus, a um
hydrochloride hydrochlorīdum, i n
hydrogen Hydrogenium, i n
hydrotartrate hydrotartras, ātis m
hydroxide hydroxŷdum, i n
hypertonic hypertoniūcus, a, um

I

ichthyol Ichthyōlum, i n
icy glaciālis, e
in in (in pharmaceutical terms with Ablative)
inhalation inhalatio, ōnis f
injection injectio, ōnis f
in sufficient amount quantum satis
internal internus, a, um
intramuscular intramusculāris, e
intranasal intranasālis, e
intratracheal intratracheālis, e
intravenous intravenōsus, a, um
introduction inductio, ōnis f
iodine Iōdum, i n
isotonic isotonīcus, a, um

L

lactic lactīcus, a, um
lead Plumbum, i n
leaf folium, i n

licorice Glycyrrhīza, ae f
lily of the valley Convallaria, ae f
liniment linimentum, i n
lipoic lipoīcus, a, um
liquid fluīdus, a, um

M

magnesium Magnesium, i n
matricary Chamomilla, ae f
medicinal medicinālis, e
menthol Menthōlum, i n
mercury Hydrargŷrum, i n
methyluracil Methyluracīlum, i n
mint Mentha, ae f
morphine Morphīnum, i n
morpholong Morpholongum, i n
mycoseptin Mycoseptīnum, i n

N

naphthalan Naphthalānum, i n
narcosis narcōsis, is f
neomycin Neomycīnum, i n
nicotinic nicotinīcus, a, um
norsulphazol Norsulfazōlum, i n
nitroglycerin Nitroglycerīnum, i n
number numērus, i m

O

oak Quercus, us f
oestradiol Oestradiōlum, i n
of each ana
oil oleum, i n
oily oleōsus, a, um
ointment unguentun, i n
oleandomycin Oleandomycīnum, i n
ophthalmic ophthalmīcus, a, um
oxide oxŷdum, i n

P

packet fascis, is m
papaverine Papaverīnum, i n
paste pasta, ae f
peach Persīcum, i n
peach oil Oleum Persicōrum
pectoral pectorālis, e
pepper piperītus, a, um

phenobarbital Phenobarbitālum, i n
phenyl Phenylum, i n
phial vitrum, i n
phosphate phosphas, ātis m
phthalazol Phthalazōlum, i n
phthivazid Phthivazīdum, i n
phytomenadion Phytomenadiōnum, i n
plaster emplastrum, i n
plastic polyaethylenīcus, a, um
platyphylline Platyphyllinīnum, i n
polyethylenoxid Polyaethylenoxī-
 dum, i n
potassium Kalium, i n
powder pulvis, ěris m
precipitated praecipitātus, a, um
pregoestrol Praegoestrōlum, i n
purified (about solid substances)
 purificātus, a um

R

rectal rectālis, e
rectified (about liquid substances)
 rectificātus, a, um
rhizome rhizōma, ātis n
rhubarb Rheum, i n
riboflavin Riboflavīnum, i n
 radix, ĩcis f

S

salicylate salicȳlas, ātis m
salicylic salicylīcus, a, um
sarcolysin Sarcolysīnum, i n
seed semen, ĩnis n
simple simplex, ĩcis
sodium Natrium, i n
soluble solubīlis, e
soluthizone Soluthizōnum, i n
solution solutio, ōnis f
species species, ěrum f (only plur.)
spirit (alcohol) spirītus, us m
spirituous spirituōsus, a, um
sponge spongia, ae f
spring vernālis, e
starch Amȳlum, i n

streptocide Streptocīdum, i n
strophanthine Strophanthīnum, i n
strophanthus Strophanthus, i m
sublingual sublinguālis, e
such talis, e
sugar Sacchārum, i n
sulphadimezine Sulfadimezīnum, i n
sulphadimidine Sulfadimidīnum, i n
sulphate sulfas, ātis m
sulphur sulfur, ūris n
sunflower Helianthus, i m
sunflower oil Oleum Helianthi
synoestrol Synoestrōlum, i n
synthomycin Synthomycīnum, i n
suppository suppositorium, i n
suspension suspensio, ōnis f
syrup sirūpus, i m

T

tablet tabuletta, ae f
tea thea, ae f
terrilytine Terrilytīnum, i n
tetracycline Tetracyclīnum, i n
testoenat Testoenātum, i n
theophylline Theophyllīnum, i n
thioacetazone Thioacetazōnum, i n
thymogen Thymogĕnum, i n
thyroidin Thyroidīnum, i n
tincture tinctūra, ae f
tritulating (= trituration)
 trituratō, ōnis f

U

up to ad
use usus, us m

V

vaginal vaginālis, e
valerian Valeriāna, ae f
vaseline Vaselīnum, i n
vitreous vitreus, a, um

W

water aqua, ae f
wheat Tritĭcum, i n
white albus, a, um
with cum (Abl.)

Y

yellow flavus, a, um

Z

zinc Zincum, i n

Репозиторий БГМУ

Part IV. CLINICAL TERMINOLOGY

LESSON 19

INTRODUCTION TO LATIN CLINICAL TERMINOLOGY. ONE-WORD TERMS AND THEIR MORPHOLOGICAL STRUCTURE. INITIAL AND FINAL MORPHOLOGICAL ELEMENTS USED FOR WORD BUILDING. NAMES OF BRANCHES OF MEDICINE AND MEDICAL SPECIALISTS. NAMES OF MEDICAL EXAMINATIONS

Clinical names are the most numerous among all medical terms, as these names signify a huge amount of different diseases, pathological conditions and abnormalities, medical examinations and operations. This terminology also includes a great amount of paramedical vocabulary. It is estimated that about 50 % of English medical terms are of Greek origin, but this relation is particularly evident in clinical terms.

The word **clinical** itself is of Greek origin (*klinike* means bed) and it is the acknowledgement of the important role of Greek physicians in both theoretical and practical medicine. Thanks to Greek physicians many diseases got their names and via Latin became a part of European medical languages. New clinical names coming into use were built, as a rule, on the basis of Greek vocabulary and Greek morphological elements. The grammar form of new clinical terms corresponds to the norms of Latin or some European languages. This historical tradition, in particular, is followed in English. For example:

Latin	English	Meaning
adenītis	adenitis	inflammation of a gland
cardiopathia	cardiopathy	disease of the heart
osteōma	osteoma	tumour made up of bone tissue

It is indisputable that clinical terms composed on the basis of Greek morphological elements have a very important advantage: they are short, but may stand for a large clinical definition. That is why they are the priority choice of the physicians all over the world, and everyone who has a M. D. must know the rules of word building of medical terms and learn lexical and morphological word building elements.

From the point of view of their morphological structure, one-word clinical terms can be: 1) simple, containing only one stem and 2) compound, consisting of two or more morphological elements.

About 15 % clinical names belong to the first group, e. g. *asthma*, ātis n — *asthma*; *cancer*, cri m — *cancer*; *herpes*, ětis m — *herpes*; *ulcus*, ěris n — *ulcer*. These noun-terms are mostly used in combination with adjectives or nouns: *asthma bronchiāle* — *bronchial asthma*; *ulcus gastris* — *ulcer of the stomach*.

The majority of one-word clinical terms consist of two or more morphological elements. These elements can be expressed by:

I. Greek affixes (prefixes, suffixes) and roots of nouns or adjectives. In this case, the name can contain:

I.1. A prefix, a root, a suffix and an ending (mostly - **ia**, -**ēma**, -**ismus**, -**ītis**, -**ōma**, -**ōsis**):

parametrītis, īdis f — parametritis (tissue inflammation near uterus). The name includes: a) the prefix **para-** (near) b) the root **metr-** (uterus) c) the suffix **-ītis** (combination of suffix **-it-** and ending **-is**) with the constant meaning of «inflammation»;

I.2. A prefix, one or more roots and an ending:

atrīchia, ae f — atrichia (lack of hair). The name includes: a) the prefix **a-** (absence, lack, cessation of a function) b) the root **trich-** (hair) c) the ending **-ia**;

hypermetropia, ae f — hypermetropia (long-sightedness). The name includes: a) the prefix **hyper-** (excessive function) b) the root - **metr-** (measurement) c) the final root **-opia** (sight);

I.3. A root and a suffix (suffixed ending): **chondrōma, ātis n** — chondroma (tumour of cartilaginous tissue). The name includes: a) the root **chondr-** (cartilage) b) the suffix **-ōma** with the meaning «tumour» (= tumor).

2. The initial and final word building roots in combination with the term endings **-ia**, **-ēma**, **-ismus**, **-ītis**, **-ōma**, **-ōsis**, **-us**. If the initial word building root hereby ends up with a consonant and the final one begins with a consonant too, these roots are joined via a connecting vowel **-o-**:

rhinopathia, ae f — rhinopathy (disease of the nose). The name includes: 1) the root **rhin-** (nose) 2) the connecting vowel **-o-** 3) the root **path-** (disease);

otorhinolaryngolōgus, i m — otorhinolaryngologist (the doctor for treating ear, nose and larynx diseases). The name includes: a) the root **ot-** (ear) b) the root **rhin-** (nose) c) the root **laryng-** (larynx) d) the final root **-logus** (a medical specialist).

If the first root ends with a vowel, the connecting **-o-** is usually omitted:

pelvimetria, ae f — pelvimetry (pelvis measurement);

tachycardia, ae f — tachycardia (abnormally fast heart rate).

If the second root begins with a vowel, the connecting **-o-** as a rule is omitted too:

haemat + uria → **haematuria, ae f** — hematuria (blood in the urine);

odont + algia → **odontalgia, ae f** — odontalgia (toothache, feeling of pain in the tooth).

Though there are some exceptions from this rule: e. g. the roots **broncho-** and **bronchi-** never lose their final vowels: **bronchiectasia, ae f** (= bronchoectasia) — bronchiectasis (expansion of the bronchi); **bronchoadenītis, itīdis f** — bronchoadenitis (inflammation of lymphatic glands). The root **bi-** is always used with the connecting **-o-**: biocycle, biology, microbiology, biopharmaceutics.

In the compound nouns with the ending **-ia** the last but one vowel «i» is, as a rule, stressed contrary to the rule «vowel before vowel is short»: atrichía, bronchiectasía, haematuría, hypermetropía, odontalgía, rhinopathía. The noun **anatómia** (anatomy) and nouns with the final element **-logia** keep the third syllable from the end stressed: cardiología (cardiology), neurología (neurology), fisiología (physiology).

Initial root elements are combined in a one-word term, as you could see above, with the final roots via the connecting vowel -o- or with the final suffixes. These roots are presented in the table of each lesson in the following consequence: 1) the Greek root 2) its Latin equivalent in the dictionary form 3) English meaning 4) English clinical word element:

ger-, geront-	senex, is m	1) old man 2) old age	ger-, geront-
---------------	-------------	-----------------------	---------------

Initial roots can have two or more variants: ger-, geront- (old man or old age); haem-, haemat- (blood). All these variants are to be learnt by heart.

Final root elements are not as numerous as initial ones, but their word building capacity is very high. One should also remember that the final root or suffixed word building element comes first in the literal translation of the term, for example:

The term nephrographia, ae f consists of the initial root **nephr-** (kidney) and the final root **-graphia** (X-ray examination), so the literal translation is «X-ray examination of the kidneys», nephrography.

The term myōma, ātis n consists of the initial root **my-** (muscle) and the final root **-oma** (tumour), so the literal translation is «tumour of muscular tissue», myoma.

Final root elements can be part of an adjective too, e. g.: **-gēnus, a, um** in the **term** biogēnus, a, um — biogenic (caused by a living organism).

The final roots are presented at each lesson in the table like that:

-lōgus — a specialist in a brunch of science or medicine

-iāter — a doctor, specialist in a brunch of clinical medicine

Some roots may be both initial and final. Final roots have common endings, mostly the ending **-ia**. For example: the initial root **ophthalm-** and the final root **-ophthlmia** have the same meaning «eye». In these cases, both roots are placed in the same cell of the table.

Names of the main branches of clinical medicine are usually formed by means of the final root element **-logia** and the appropriate initial one, which determines the cardinal sense of the term. It should be mentioned that the most numerous names of medico-biological sciences are built according to this rule:

ophthalm- (eye) + logia → ophthalmologia, ae f — ophthalmology, a branch of clinical medicine treating eye diseases;

proct- (rectum) + logia → proctologia, ae f — proctology, a branch of clinical medicine treating rectum diseases. Compare as well:

immunologia, ae f — immunology, a science about immunity;

pharmacologia, ae f — pharmacology, a science about drugs and their usage;

physiologia, ae f — physiology, a science about normal vital processes in human organism.

Names of some branches of clinical medicine are built by adding the root **-patho-** (disease) and the final root **-logia** to the initial root:

neur- (nerve) + -patho- + logia → neuropathologia, ae f — neuropathology, clinical neurology, a branch of clinical medicine treating nerve diseases;

sex- (sex) + -patho- + logia → sexopathologia, ae f — sexopathology, a branch of medicine dealing with sexual disorders.

Some names of medical branches are formed by means of the final root element **-iatria**, which means some definite branches of clinical medicine:

geriatria, ae f — geriatrics, a particular branch of medicine treating diseases of older age;

paediatrica, ae f — pediatrics, a branch of medicine treating children's diseases;

phoniatria, ae f — phoniatics, a branch of medicine treating disorders of voice production ;

phthisiatria, ae f — phthisiology, a branch of medicine treating tuberculosis;

psychiatria, ae f — psychiatrics (psychiatry), a branch of medicine treating mental diseases.

Most names of medical specialists are composed of the final root element **-lōgus** and the appropriate initial root element which determines the cardinal sense of the term. In this way the names of most biological and medical specialists are formed:

anthropolōgus, i m — anthropologist, a specialist studying the man in the process of his evolution;

biolōgus, i m — biologist, a specialist studying forms of life and living organisms;

diaetolōgus, i m — dietarian, a specialist in the dietary nutrition;

haematolōgus, i m — hematologist, a specialist in blood diseases.

If the name of a branch of medicine has the ending **-pathologia**, then the name of a specialist has the ending **-patholōgus**:

neuropathologia → **neuropatholōgus, i m** — neuropathologist, a specialist in nerve diseases;

sexopathologia → **sexopatholōgus, i m** — sexopathologist, a specialist treating sexual disorders.

If the name of a branch of medicine has the ending **-iatria**, then the name of a specialist has the ending **-iāter**:

paediatrica → **paediāter, tri m** — pediatrician (= paediatrist), a specialist in children's diseases.

Finally, many Latin names of medical specialists are built by means of the suffix **-ista** and the initial root element:

oculista, ae m — oculist, a specialist treating eye diseases;

therapeutista, ae m — physician, therapist, a specialist treating inner organs.

Names of medical specialists in Latin don't fully coincide with the English equivalents, as seen above. The difference lies not only on the morphological level (phtisiāter, tri m — phtisiologist), — sometimes the lexical units don't correspond to each other. For example, the name otorhinolaryngologist is not quite common for English or American medical vocabulary; — instead three separate terms are used: otologist, rhinologist and laryngologist. But, the term otolaryngologist is used as well. That is why it is more convenient to use this slightly artificial, but formally correct term otorhinolaryngologist, than to bring three English terms as equivalents. And otherwise, we tend to use the terms presented both in modern English and Latin medical language.

The names of medical examinations are usually formed by means of the final root elements **-graphia, -metria, -scopia, -diagnostica**:

cystographia, ae f — cystography, X-ray examination of the urinary bladder;

pelvimetria, ae f — pelvimetry, measuring of pelvis size in women;

proctoscopia, ae f — proctoscopy, internal examination of the rectum;

thermodiagnostica, ae f — thermodiagnosics, a diagnosis via infrared radiation.

Names which signify methods of medical treatment usually contain the final root element **-therapia** and the initial root element indicating a method of treatment:

physiotherapia, ae f — physiatrics, treatment by means of natural or artificial physical factors;

phytotherapia, ae f — phytotherapy, treatment by means of medicinal herbs.

Results of X-ray, electric or other methods of medical examination are expressed by the final root **-gramma**:

haemogramma, ātis n — hemogram, results of quantitative and qualitative examination of blood;

mammogramma, ātis n — mammogram, an X-ray film of breast.

Greek initial roots and its variants	Latin equivalents in dictionary form	English meaning	English word building equivalents
anthrop-	homo, ĩnis m	man	anthrop-
bi-	vita, ae f	life	bi-
cardi-	cor, cordis n	heart	cardi-
ger-, geront-	senex, senis m	old man or old age	ger-, geront-
gynaec-	femĭna, ae f	woman	gynaec-
haem-, haemat-	sanguis, ĩnis m	blood	hem-, hemat-
mast-, mamm-	mamma, ae f	breast	mast-, mamm-
neur-	nervus, i m	nerve	neur-
ophthalm-, -ophthalmia	ocŭlus, i m	eye	ophthalm-, -ophthalmia
ot-	auris, is f	ear	ot-
paed-	infans, ntis m, f	child	ped-
path-	morbus, i m	disease	path-
pharmac-	medicamentum, i n	drug	pharmac-
phthisi-	tuberculōsis, is f	tuberculosis	phthisi-
physi-	natŭra, ae f	nature	physi-
phyt-	planta, ae f	plant, herb	phyt-
proct-	rectum, i n	rectum	proct-
psych-	anĭmus, i m	psyche	psych-
rhin-	nasus, i m	nose	rhin-
somat-	corpus, ōris n	body	somat-
stom-, stomat-	os, oris n	mouth	stom-, stomat-

Final root elements	English meaning
-diagnostĭca	examination of functional state of organs in order to reveal some disorders
-gĕnus, a, um	caused by any factor
-graphia	1) X-ray examination 2) examination by means of electricity 3) recording of the result of some examination
-gramma	result of some medical examination seen on a film or presented graphically
-iāter	medical specialist treating certain inner diseases
-iatria	any definite branch of clinical medicine
-logia	name of some science or branch of clinical medicine
-lŏgus	name of medical or biological specialists
-metria	measurement of physical characteristics of human body
-scopia	visual or instrumental visual examination
-therapia	method of treatment

So, your task is to memorize the word building elements of this and the following lessons and combine these elements in terms. If you are not quite sure of your version of translation, consult the dictionary.

1. Give the dictionary form of the Latin equivalents corresponding to the following Greek roots:

cardi-, neur-, ot-, paed-, path-, pharmac-, physi-, phyt-, proct-, psych-.

2. Give the Greek morphological elements corresponding to the following Latin nouns:

ānīmus, i m; auris, is f; corpus, ōris n; femīna, ae f; homo, ĩnis m;

medicamentum, i n; morbus, i m; oculus, i m; sanguis, ĩnis m; senex, senis m; tuberculōsis, is f; vita, ae f.

3. Determine orally the full dictionary form of each term and the meaning of the initial and final roots, write down the full definition:

anthropologia; anthropogēnus; biolōgia; cardiolōgus; cardiogēnus; craniometria; geriāter; gynaecolōgus; haematologia; iatrogēnus; mastogramma; neuropatholōgus; ophthalmoscopia; otorhinolaryngologia; physiologia; phthisiāter; phytotherapia; proctolōgus; psychiatria; rhinogramma; somatologia; stomatoscopia.

4. Make up the Latin dictionary form of one-word terms with the following meaning:

branch of clinical medicine treating rectum diseases; branch of medicine treating diseases of children; diagnosis via examination of iris; medical specialist treating blood diseases; medical specialist treating diseases of inner organs; measurement of pelvis in women; results of quantitative and qualitative examination of blood; science studying drugs and their usage; treatment by means of natural or artificial physical factors; specialist studying forms of life and living organisms; specialist studying the man in the process of his evolution; treatment by means of medical herbs; the X-ray examination of mamma.

5. Give the Latin dictionary form and the full definition in English of the terms:

anthropologist; biopharmaceutics; cardiogram; cardiography; gerontology; hematology; hemogram; iatrogenic; iridodiagnostics; mammogram; neurogenic; ophthalmoscopy; otogenic; otolaryngologist; pediatrician; pharmacotherapy; phthysiologist; phytotherapy; proctodiagnostics; proctoscopy; psychiatrist; psychogenic; psychologist; rhinoscopy; somatology; stomatology; therapist; thoracometry.

I. Latin-English vocabulary

anthropologia, ae f	anthropology, science studying the man in the process of his evolution
anthropolōgus, i m	anthropologist, specialist studying the man in the process of his evolution
biologia, ae f	biology, science studying forms of life and vital organisms
cardiolōgus, i m	cardiologist, medical specialist treating heart diseases
cardiogēnus, a, um	cardiogenic, happening because of the heart
craniometria, ae f	craniometry, measurement size of the skull
geriāter, tri m	geriatrician, medical specialist treating diseases of the aged
gynaecolōgus, i m	gynecologist, medical specialist treating genital diseases in women
haematologia, ae f	hematology, branch of medicine studying blood and its diseases
iatrogēnus, a, um	iatrogenic, happening because of the physician's manner or injudicious remarks
mastogramma, ātis n	mastogram, result of breast X-ray examination
neuropatholōgus, i m	neuropathologist, specialist treating diseases of the nervous system
ophthalmoscopia, ae f	ophthalmoscopy, instrumental-visual examination of the eye
otorhinolaryngologia, ae f	otorhinolaryngology, branch of medicine treating diseases of ear, nose and larynx
physiologia, ae f	physiology, science studying normal vital processes in human body
phthisiāter, tri m	phthisiologist, specialist treating tuberculosis
phytotherapia, ae f	phytotherapy, method of treatment by means of medicinal herb
proctolōgus, i m	proctologist, specialist treating diseases of rectum
psychiatria, ae f	psychiatry, branch of medicine treating mental diseases
rhinogramma, ātis n	rhinogram, X-ray film of the nose
somatologia, ae f	somatology, branch of anthropology, studying structure of the human body
stomatoscopia, ae f	stomatoscopy, visual examination of the oral cavity

II. English-Latin vocabulary

anthropologist, specialist studying the man in the process of his evolution	anthropolōgus, i m
biopharmaceutics, study of physical and chemical properties of medicinal substances	biopharmaceutīca, ae f
branch of clinical medicine treating rectum diseases, proctology	proctologia, ae f

branch of medicine treating diseases of children, paediatrics	paediatrica, ae f
cardiogram 1) result of X-ray examination of the heart 2) graphical picture of heart action	cardiogramma, ātis n
cardiography 1) X-ray examination of the heart 2) graphical recording of heart action	cardiographia, ae f
diagnosis via examination of iris, iridodiagnostics	iridodiagnostīca, ae f
gerontology, science studying living processes in the aged	gerontologia, ae f
hematology, branch of medicine studying blood and its diseases	haematologia, ae f
hemogram, results of quantitative and qualitative examination of blood	haemogramma, ātis n
iatrogenic, happening because of the physician's manner or injudicious remarks	iatrogēnus, a, um
iridodiagnostics, diagnosis via examination of iris	iridodiagnostīca, ae f
mammogram, result of breast X-ray examination	mammogramma, ātis n
measurement of pelvis in women, pelvimetry	pelvimetria, ae f
medical specialist treating blood diseases, hematologist	haematolōgus, i m
medical specialist treating diseases of inner organs, therapist	therapeutista, ae m
neurogenic, happening because of the nervous system disorders	neurogēnus, a, um
ophthalmoscopy, instrumental-visual examination of the eye	ophthalmosopia, ae f
otogenic, happening because of the ear	otogēnus, a, um
otolaryngologist, specialist treating ear and larynx diseases	otolaryngolōgus, i m
pediatrician, specialist treating children diseases	paediāter, tri m
pharmacotherapy, science studying drugs and their usage in the treatment of diseases	pharmacotherapia, ae f
phytotherapy, method of treatment by means of medical herbs	phytotherapia, ae f
proctodiagnostics, examination of the functional state of the rectum	proctodiagnostica, ae f
proctoscopy, instrumental-visual examination of the rectum	proctosopia, ae f
psychiatrist, specialist treating mental diseases	psychiāter, tri m
psychogenic, developing or originating of mental causes	psychogēnus, a, um

psychologist, specialist studying mental activities of a human personality	psycholōgus, i m
phthisiologist, specialist treating tuberculosis	phthisiāter, tri m
results of quantitative and qualitative examination of blood, hemogram	haemogramma, ātis n
rhinoscopy, instrumental-visual examination of the nose	rhinoscopia, ae f
science studying drugs and their usage, pharmacology	pharmacologia, ae f
somatology, branch of anthropology, studying structure of human body	somatologia, ae f
specialist studying forms of life and living organisms, biologist	biolōgus, i m
specialist studying the man in the process of his evolution, anthropologist	anthropolōgus, i m
specialist treating diseases of inner organs, therapist (therapist)	therapeutista, ae m
stomatology, branch of clinical medicine treating diseases of the oral cavity	stomatologia, ae f
therapist, medical specialist treating diseases of inner organs	therapeutista, ae m
thoracometry, measurement of the size of the thorax	thoracometria, ae f
treatment by means of natural or artificial physical factors, physiotherapy	physiotherapia, ae f
the X-ray examination of mamma, mammography	mammographia, ae f

LESSON 20

ONE-WORD NAMES OF FUNCTION DISORDERS, PATHOLOGICAL PROCESSES AND ABNORMAL CONDITIONS

Usually, one-word names of functional disorders are composed of Greek prefixes and roots. There are the following prefixes:

1. The prefix **a-** (before a consonant) or **an-** (before a vowel). This prefix signifies cessation or loss of a function as well as lack of property:

adentia, ae f — lack of teeth, adentia;

anuria, ae f — complete cessation of the secretion and excretion of urine, anuria;

aphagia, ae f — a condition in which the ability of swallowing is lacking, aphagia;

In the same way the Latin prefix **in-** (**im-** before consonants **b** or **m**) combined with Latin roots is used both in nouns and adjectives:

incontinentia, ae f — lack of voluntary control over the discharge of faeces or urine, incontinence;

insufficiētia, ae f — state of being inadequate to perform normal functions, insufficiency;

immobilitas, ātis f — lack of mobility, immobility;

insensibilis, e — lack of sensibility or intelligence, insensible.

2. The prefix **dys-** signifies functional disorders:

dysgeusia, ae f — impairment or perversion of the sense of taste, dysgeusia;

dysthyreōsis, is f — imperfect functioning of the thyroid gland, dysthyreōsis;

dysuria, ae f — condition in which the passage of urine is difficult, dysuria.

3. The prefix **en-** (**em-** before consonants **b, m, p**) indicates the inner location of any morbid condition:

empyēma, ātis n — accumulation of pus in a cavity;

enophthalmus, i m — recession of the eyeball into the cavity of the orbit

As prefixed elements some Greek adjectives, pronouns and numerals are used:

Prefix	Meaning	Latin example	English translation
auto-	self-, resulting of one's own action	autopepsia, ae f (autolýsis, is f)	the process of spontaneous disintegration of cells and tissues resulting from the action of intracellular enzymes, autopepsia (autolysis)
mono-	one (part)	monoplegia, ae f	a pathological condition in which only one muscle, one group of muscles or one part of the body is affected, monoplegia
di-	two (parts)	diplegia, ae f	paralysis of similar parts on both sides of the body, diplegia
hemi-	half	hemialgia, ae f	neuralgic pain affecting the right or the left side of the body or the right or the left side of any part of the body, hemialgia

The majority of one-word names of pathological processes and abnormal conditions are composed of Greek roots, suffixes and endings which are adapted to Latin grammar system. One group of terms consists of a root, a suffix and an ending. Two suffixes of this group compose a morphological unity with their endings:

Latin suffix	Meaning	Latin example	English equivalent	Full English explanation
-ismus (suffix -ism- + -us , ending of the 2 nd declension)	abnormality or pathological process, the meaning of which is determined by the root element	botulismus, i m	botulism	a form of food poisoning due to the botulinum toxin
-ōsis (suffix -os- + -is , ending of the 3 rd declension)	pathological condition or process	dermatōsis, is f	dermatōsis	any skin disease

Attention! The final suffix *-ōsis* may be used as the morphological part of a noun term not denoting a disease:

diagnōsis, is f — diagnosis, the scientific recognition of the disease from which a person suffers;

symbiōsis, is f — symbiosis, the intimate association of two organisms.

The next two suffixes are considered as final suffixed elements of the nouns of the 3rd declension:

Latin suffix	Meaning	Latin example	English equivalent	Full English explanation
-ēma	different pathological conditions	enanthēma, ātis n	enanthema	the rash or eruption on the mucous tissue
-iāsis	different pathological conditions	psoriāsis, is f	psoriasis	a chronic disease of the skin characterized by the appearance of laminated scales

But the majority of terms composed of morphological elements present with initial and final roots. First of all, the root **path-** combined with the ending **-ia** is used:

arthropathia, ae f — any disease affecting a joint, arthropathy;

nephropathia, ae f — a disease of the kidney, nephropathy;

rhinopathia, ae f — any morbid condition of the nose, rhinopathy.

Other roots are also used as final elements which define more precisely the character of pathological condition, e. g.:

angiorrhagia, ae f — a hemorrhage from a vessel, angiorrhagia;

arthralgia, ae f — any kind of pain affecting a joint, arthralgia;

cancerophobia, ae f — unfounded or unreasonable fear that there is a predisposition to carcinoma, cancerophobia (= carcinomatophobia).

Nevertheless, about 20 % of one-word terms signifying pathological processes and abnormal conditions are nouns comprised of one root:

coma, ātis n — the state of complete loss of consciousness with a disorder of vitally important functions, coma;

infarctus, us m — an area of dead tissue produced by the obstruction of an end artery, infarction;

insultus, us m — cerebral thrombosis, stroke;

sepsis, is f — infection with pyogenic microorganisms, sepsis

Initial Greek roots and their variants	Latin equivalents in dictionary form	English meaning	English word building equivalents
angi-	vas, vasis n	vessel	angi-
arthr-	articulatio, ōnis f	joint	arthr-
brady-	lentus, a, um	slow	brady-
cephal-	caput, ĩtis n	head	cephal-
chondr-	cartilāgo, ĩnis f	cartilage	chondr-

Initial Greek roots and their variants	Latin equivalents in dictionary form	English meaning	English word building equivalents
dactyl-, -dactylia	digītus, i m	finger or toe	dactyl-
derm-, dermat-, -dermia	cutis, is f	skin	derm-, dermat-, -dermia
encephal-	cerēbrum, i n	brain	encephal-
my-	muscūlus, i m	muscle	my-
nephr-	ren, renis m	kidney	nephr-
oste-	os, ossis n	bone	oste-
phon-, -phonia	vox, vocis f	voice	phon-, -phonia
phot-	lux, lucis f	light	phot-
phleb-	vena, ae f	vein	phleb-
pseud-	falsus, a, um	false	pseud-
spasm-, -spasmus	spasmus, i m	spasm	spasm-, -spasm
tox-, toxic-	venēnum, i n	poison	tox-, toxic-
tachy-	celer, ěris, ěre	fast, quick	tachy-
trich-, -trichia	capillus, i m; pilus, i m	hair	trich-
xer-	siccus, a, um	dry	xer-

Final root elements	English meaning
-algia	pain in any part of the body
-geusia	different pathological conditions of taste
-kinesia	different pathological conditions of voluntary motion
-malacia	pathological softening of an organ or tissue
-mania	any form of mental disorder accompanied by some degree of excitation
-mycōsis	a morbid condition caused by a pathogenic fungus
-opia, -opsia	any condition of vision
-pathia	a general name of a disease of any organ due to various causes
-pepsia	any condition of digestion
-phagia	any pathological condition in the act of swallowing
-philia	predisposition to any morbid condition
-phobia	a pathological fear
-plegia	paralysis (palsy) of the muscles of any organ
-pnoë	a pathological condition of breathing
-trophia	nutrition

1. Give the dictionary form of the Latin equivalents corresponding to the following Greek roots:

angi-, arthr-, chondr-, nephr-, phon-, phot-, phleb-, pseud-, tachy-, trich-

2. Give the Greek roots corresponding to the following Latin nouns or adjectives:

caput, ĩtis n; cutis, is f; digĭtus, i m; lentus, a, um; os, ossis n; siccus, a, um; vena, ae f; venĕnum, i n.

3. Complete (orally) the dictionary form of each noun. Determine the meaning of each initial and final morphological element; write down the full definition of each term and its English equivalent:

angiopathia; arthromalacia; autohaemotherapia; autopepsia; bradyphagia; bradypnoĕ; chondropathia; dactylospasmus; dermatōsis; dermatomycōsis; dysgeusia; encephalogramma; gastrospasmus; hemicrania; hemianopsia; hemiplegia; monodactylismus; myoplegia; osteomalacia; osteopathia; phlebocarcinōma; photophobia; pseudoarthrōsis; spasmophilia; stomatomycōsis; tachycardia; toxicomania; xerophthalmia.

4. Make up the Latin dictionary form of one-word terms with the following meaning:

abnormal quickness in eating; a chronic disease of the skin, characterized by the appearance of laminated scales; a condition in which the ability to swallow is lacking; any disease affecting a joint; any disease of the skin; any morbid condition or abnormal growth of the hair; any morbid condition of the nose; a pathological condition in which only one muscle, one group of muscles or one part of the body is affected; impairment of any voice; any kind of pain affecting a joint; paralysis of similar parts on both sides of the body; the rash or eruption on the mucous tissue; the X-ray examination of the great vessels and the chambers of the heart; unfounded or unreasonable fear that there is a predisposition to carcinoma.

5. Give the full definition in English and the Latin dictionary form of the terms:

angiology; apnoea; arthralgia; atrichia; atrophy; autolaryngoscopy; autopsy; biopsy; bradycardia; cephalalgia; didactylism; dystrophy; encephalomalacia; enophthalmus; hemiatrophy; hemophilia; mastopathy; monopathophobia, myopia, nephrogenic, nephropathy, ophthalmoplegia, osteochondrosis; osteodystrophy; pharmacophobia; phoniatics; phlebography; phonocardiogram; photophobia; proctospasm; rhinopathy; tachyphagia; toxicosis; xerostomia.

I. Latin–English vocabulary

angiopathia, ae f	any disease of blood vessels, angiopathy
arthromalacia, ae f	softening of joints, arthromalacia
autohaemotherapia, ae f	a method of treatment in which the patient's own blood is administered to him, autohaemotherapy
autopepsia, ae f	the process of a spontaneous disintegration of cells and tissues resulting from the action of intracellular enzymes, autopepsia
bradyphagia, ae f	slowing of swallowing, bradyphagia
bradypnoĕ, es f	an abnormally slow rate of breathing, bradypnoea
chondropathia, ae f	any disease affecting a cartilage, chondropathy
dactylospasmus, i m	spasmodic contraction of a finger or toe, dactylospasm

dermatōsis, ae f	any disease of the skin, dermatosis
dermatomycōsis, ae f	a generic term for all cutaneous infections due to fungi
dysgeusia, ae f	impairment or perversion of the sense of taste, dysgeusia
encephalogramma, ātis n	any X-ray film obtained in the radiological examination of the ventricles and subarachnoid space of the brain, encephalogram
gastrospasmus, i m	an involuntary contraction of the stomach muscle, gastrospasm
hemicrania, ae f	a periodic morbid condition with localized headaches, hemicrania
hemianopsia, ae f (=hemianopia, ae f)	loss of half the vision in each eye, hemianopsia (hemianopia)
hemiplegia, ae f	paralysis of one side of the body, hemiplegia
monodactylismus, i m	a congenital condition in which only one finger or toe is present on the hand or the foot, monodactylism
myoplegia, ae f	paralysis of muscle or a condition in which muscular force is decreased, myoplegia
osteomalacia, ae f	softening of bones, osteomalacia
osteopathia, ae f	disease of bones, osteopathia
phlebocarcinōma, ātis n	a malignant epithelial tumour affecting a vein, phlebocarcinoma
photophobia, ae f	abnormal intolerance to light, photophobia
pseudoarthrōsis, is f	a false joint formed between the fragments of a fractured bone which have failed to unite, pseudoarthrosis
spasmophilia, ae f	a morbid state in which there is a tendency to convulsions and a spasm, spasmophilia
stomatomycōsis, is f	any morbid condition caused by a microscopical fungus, stomatomycosis
tachycardia, ae f	a rapid action of the heart, tachycardia
toxicomania, ae f	an insane desire for poison, toxicomania
xerophthalmia, ae f	a morbid condition of eyes, characterized by a shrunken appearance of the conjunctiva, xerophthalmia (= xeroma)

II. English–Latin vocabulary

abnormal quickness in eating, tachyphagia	tachyphagia, ae f
angiology, the science of blood vessels	angiologia, ae f
apnea, the cessation of breathing	apnoë, ës f
arthralgia, any kind of pain affecting a joint	arthralgia, ae f
atrachia, not having hair	atrachia, ae f
atrophy, a condition of general malnutrition from whatever cause	atrophia, ae f
autolaryngoscopy, the examination of one's own larynx with a laryngoscope	autolaryngoscopia, ae f
autopsy, post-mortem examination of a body in order to establish the cause of death	autopsia, ae f
biopsy, examination for purposes of diagnosis of issue cut from the living body	biopsia, ae f

bradycardia, slowing of the heart rate	bradycardia, ae f
cephalalgia, pain in the head	cephalalgia, ae f
a chronic disease of the skin, characterized by the appearance of laminated scales, psoriasis	psoriāsīsis, is f
a condition in which the ability to swallow is lacking, aphagia	aphagia, ae f
didactylism, the congenital condition of having only two fingers on a hand or two toes on a foot	didactylismus, i m
any disease affecting a joint, arthropathy	arthropathia, ae f
any disease of the skin, dermatosis	dermatōsis, is f
dystrophy, a disorder of the structure and functions of an organ or tissue due to perverted nutrition	dystrophia, ae f
encephalomalacia, softening of the brain	encephalomalacia, ae f
enophthalmus, recession of the eyeball into the cavity of the orbit	enophthalmus, i m
hemiatrophy, atrophy affecting only one side of the body, or one half of an organ	hemiatrophia, ae f
hemophilia, a severe hereditary bleeding disease affecting males and transmitted by females	haemophilia, ae f
impairment of the voice, dysphosnia	dysphonia, ae f
any kind of pain affecting a joint, arthralgia	arthralgia, ae f arthalgia, ae f
mastopathy, any diseased condition of the mammary gland	mastopathia, ae f
any morbid condition of the nose, rhinopathy	rhinopathia, ae f
any morbid condition or abnormal growth of the hair, trichopathy	trichopathia, ae f
myopia, short sight	myopia, ae f
nephrogenic, produced by or originating in the kidney	nephrogēnus, a um
nephropathy, a disease of the kidney	nephropathia, ae f
ophthalmoplegia, palsy (paralysis) of ocular muscles	ophthalmoplegia, ae f
osteochondrosis, a degenerative change in bony and cartilage tissues	osteochondrōsis, is f
osteodystrophy, a disorder of bone nutrition	osteodystrophia, ae f
paralysis of similar parts on both sides of the body, diplegia	diplegia, ae f
pharmacophobia, a morbid fear of taking drugs or medicines	pharmacophobia, ae f
phoniatics (= phoniatriy), the treatment of disorders of speech	phoniatria, ae f
a pathological condition in which only one muscle, one group of muscles or one part of the body is affected, monoplegia	monoplegia, ae f
phlebography 1) a radiographic visualization of veins 2) the tracing of the venous pulse by means of a phlebograph	phlebographia, ae f
phonocardiogram, the record produced by an instrument for recording heart sounds	phonocardiogramma, ātis n

photophobia, abnormal intolerance to light	photophobia, ae f
phthisiologist, a specialist treating tuberculosis	phthisiāter, tri m
phytotherapy, method of treatment by means of medical herbs	phytotherapia, ae f
proctospasm, a spasmodic contraction of the rectum	proctospasmus, i m
the rash or eruption on the mucous tissue, enanthema	enanthēma, ātis n
rhinopathy, any morbid condition of the nose	rhinopathia, ae f
tachyphagia, abnormal quickness in eating	tachyphagia, ae f
toxicosis, a pathological condition caused by the absorption of poisons	toxicōsis, is f
unfounded or unreasonable fear of a predisposition to carcinoma	cancerophobia, ae f
xerostomia, dryness of the mouth due to failure of the salivary gland	xerostomia, ae f
the X-ray examination of the great vessels and the chambers of the heart, angiocardiology	angiocardigraphia, ae f

LESSON 21

NAMES OF QUALITATIVE AND QUANTITATIVE ABNORMALITIES IN MORPHOLOGICAL STRUCTURES AND PHYSIOLOGICAL PROCESSES

§ 130. INCREASE AND DECREASE IN DIFFERENT QUANTITATIVE CONDITIONS

Increase and decrease of different quantitative conditions may, as a rule, be expressed by means of the prefixes **hyper-** and **hypo-** which are joined by final root elements:

hyperaesthesia, ae f — excessive sensitiveness of the skin, hyperaesthesia;

hyperkinesia, ae f — a condition in which there is abnormally great strength of movement, hyperkinesias;

hyperplasia, ae f — any condition in which there is an increase in the number of cells in any body's part, hyperplasia;

hypodynamia, ae f — diminished muscular or nervous energy, hypodynamia;

hypogalactia, ae f — the secretion of a too small quantity of milk, hypogalactia;

hypopepsia, ae f — abnormal slowness and weakness of the process of digestion, hypopepsia.

Increase and decrease in the functional activity is sometimes expressed by means of the initial roots **tachy-** and **brady-**:

tachypnoë, ës f — abnormally rapid breathing, tachypnoea

bradykinesia, ae f — abnormal sluggishness of physical movements, bradykinesia

Increase in size of anatomical or histological structures is expressed by means of the following initial and final roots: **dolich-**, **macr-**, **mega-**, **megal-**, **-megalia**:

dolichocōlon, i n — an abnormally long colon of normal diameter, dolichocolon

macrocytū, i m — a red blood cell that is larger than normal, macrocyte

megaduodēnum, i n — duodenum of abnormally large size, megaduodenum

megalosplēnia, ae f — enlargement of the spleen, megalosplēnia

hepatomegalia, ae f — a condition of enlargement of the liver, hepatomegalia.

Decrease in size of anatomical and histological structures is expressed by means of the initial roots **brachy-** and **micr-**:

Brachydactylia, ae f — a condition in which there are abnormally short fingers or toes, brachydactylia

microcephālus, i m — a person with an unusually small size of head, microcephalus.

Dilatation or narrowing in volume of a hollow organ, cavity or tube is expressed by means of the following roots: **-ectasia**, **-ectāsis**, **-dilatatio**, **sten-**, **-stenōsis**:

bronchiectāsis, is f — a condition of dilatation of a bronchus or bronchi, bronchiectasis

gastrectasia, ae f — dilatation of the stomach, gastrectasia

vasodilatatio, ōnis f — dilatation of a blood vessel, vasodilatation

stenostomia, ae f — abnormal narrowness of the mouth, stenostomy

oesophagostenōsis, is f — narrowing of the oesophagus, oesophagostenosis.

Increase and decrease in the quantity of anatomical and histological structures is expressed by means of the roots **olig-**, **poly-**, **-penia**:

oligodontia (= oligodentia), ae f — a state in which most of the teeth are lacking, oligodontia

polyarthropathia, ae f — a pathological condition involving many joints, polyarthropathy

erythropenia, ae f — a state in which there are too few erythrocytes in the blood, erythropenia

Increase in the quantity of any anatomical or histological structure may also be expressed by the final prefix **-ōsis**:

leucocytōsis, is f — an increase in the total number of leucocytes in the blood, leucocytosis

papillomatōsis, is f — the condition of diffuse formation of papillomata, papillomatosis

Greek root and its variants	Latin equivalents in dictionary form	English meaning	English word - building equivalents
-----------------------------	--------------------------------------	-----------------	-------------------------------------

Greek root and its variants	Latin equivalents in dictionary form	English meaning	English word - building equivalents
aesthes-, -aesthesia	sensus, us m	sensibility, sensi- tiveness	aesthes-, -aesthesia
brachy-	brevis, e	short	brachy-
cheil-, -cheilia	labium, i n	lip	cheil-, -cheilia
cyt-, -cŷtus	cellŭla, ae f	cell	cyt-, -cyte
dolich-	longus, a, um	long	dolich-
erythr-	ruber, bra, brum	red	erythr-
gloss-, -glossia	lingua, ae f	tongue	gloss-, -glossia
glyc-	dulcis, e	sugar	glyc-
gnath-, -gnathia	maxilla, ae f	maxilla, upper jaw	gnath-, -gnathia
leuc-	albus, a, um	white	leuc-
macr-, mega-, megal-, -megalia	magnus, a, um	large	macr-, mega-, megal-, -megalia
melan-	niger, gram, grum	black	melan-
micr-	parvus, a, um	small	micr-
myel, -myelia	1) medulla ossium 2) medulla spinālis	1) bone marrow 2) spinal cord	myel, -myelia
odont-, -odonia, -dentia	dens, dentis, m	tooth	odont-, -odonia -dentia
olig-	parvus, a, um	few	olig-
pod-, -podia	pes, pedis m	foot	pod-, -podia
poly-	multus, a, um	many	poly-
splen-, -splenia	lien, ēnis m	spleen	splen-, -splenia
sphygm- -sphygmia	pulsus, us m	pulse	sphygm- , -sphygmia
therm-, -thermia	1) calor, ōris m 2) temperaturā, ae f	1) heat 2) temperature	therm-, -thermia
thyre-	glandŭla thyr(e)oidea	thyroid (gland)	thyro-

Attention! 1. The initial roots **macr-** and **megal-** may be used in many (but not in all!) cases as synonyms: macrocephalia = megalcephalia, macropodia = megalopodia. When choosing the necessary variant of the initial root one should consult the dictionary.

2. The root **cyt-** can be omitted if the term begins with **erythrocyt-** or **leucocyt-** and ends with **-penia**:

erythrocytopenia = erythropenia; leucocytopenia = leucopenia, but: monocytopenia, thrombocytopenia — the only variants.

Final root elements	English meaning
-aemia	any condition of the blood
-genēsis	the origin and (formative) development
-genia	any condition of mandible
-mnesia	any condition of the memory
-penia	a diminution in the number of any kind of cells present in the blood
-phrenia	a condition associated with a serious mental disorder
-plasia	the development of tissues

Final root elements	English meaning
-poësis	the formation 1) of cells present in the blood 2) of lymph 3) of urine
-sthenia	any condition of strength, vigour or forcefulness
-tensio	a condition of arterial blood pressure
-tonia	a condition of muscular tension in the walls of vessels and bowels

1. Give the dictionary form of the Latin equivalents corresponding to the following Greek roots:

brachy-, dolich-, erythr-, glyc-, leuc-, melan-, micr-, olig-, poly-, thyre-.

2. Write the dictionary form of the Latin equivalents and then give:
1) Greek equivalents corresponding to every Latin equivalent 2) English meaning of every pair of equivalents:

calor; cellūla; dens; labium; lingua; lien; magnus; maxilla; medulla ossium; pes; pulsus; sensus.

3. Complete (orally) the dictionary form of each noun. Determine the meaning of each initial and final morphological element; write down the full definition of each term as well as its English equivalent:

amnesia; anaesthesiolōgus; apodia; asthenia; brachycephālus; brachydactylia; dolichocephalia; dysthyreōsis; erythropenia; glossoplegia; glycaemia; hyperaemia; hyperthermia; hypotonia; leucocytōsis; melanoderma; microgenia; micromyelia; odontogenēsis; oligocytaemia; oligophrenia; polymastia; prognathia; sphymogramma; splenomegalia; thermotherapia; thrombocytopoësis; thyreotoxicōsis.

4. Make up the Latin dictionary form of one-word terms with the following meaning:

abnormal narrowness of the mouth; abnormal slowness and weakness of the process of digestion; abnormal sluggishness of physical movements; a condition in which there are abnormally short fingers or toes; a condition of enlargement of the liver; an abnormally long colon of normal diameter; an increase in the total number of leucocytes; a pathological condition involving many joints; a person with an unusually small size of head; a red blood cell that is larger than normal; a state in which most of the teeth are lacking; a state in which there are too few erythrocytes; dilatation of the stomach; excessive sensitiveness of any organ or part of the body; the origin and development of bone marrow; the origin and development of morbid condition; extremely rapid breathing.

5. Give the full definition and the Latin dictionary form of the terms:

aglossia; anaemia; brachyoesophagus; cytology; dolichocolon; dystonia; erythema; gnathalgia; haematomyelia; hepatomegalia; hyperaesthesia; hyperglycaemia; hypertension; hypomnesia; hypophrenia; hypoplasia; hypothermia; macrocyte; megaloduodenum; megalomania; melanocarcinoma; micromastia; microsphygmy; monocytopenia; myelocytæmia; oligodactylia; podagra; podalgia; polyavitaminosis; splenohepatomegaly.

I. Latin–English vocabulary

amnesia, ae f	loss of memory of varying degree, amnesia
anaesthesiolōgus, i m	a specialist in the administration of anaesthetics, anaesthesiologist
apodia, ae f	congenital absence of feet, apodia
asthenia, ae f	loss of vital forces, asthenia
brachycephālus, i m	an individual with disproportionately short head, brachycephalic
brachydactylia, ae f	a condition in which there are abnormally short fingers or toes, brachydactylia
dolichocephalia, ae f	the state of having a relatively long skull, dolichocephalia
dysthyreōsis, ae f	imperfect functioning of the thyroid gland, dysthyreosis
erythropenia, ae f	a state in which there are too few erythrocytes, erythropenia
glossoplegia, ae f	paralysis of the tongue, glossoplegia
glycaemia, ae f	a condition in which the circulating blood contains a quantity of sugar above normal amounts, glycaemia
hyperaemia, ae f	an excess of blood in any part of the body, hyperaemia
hyperthermia, ae f	very high body temperature, hyperthermia
hypotonia, ae f	lessened tension in any body structure, hypotonia
leucocytōsis, is f	an increase in the total number of leucocytes in the blood, leucocytosis
melanoderma, ātis n	a condition in which there is an unusually large accumulation of melanin in the skin, melanoderma
microgenia, ae f	a condition in which the chin is of unusually small size, microgenia
micromyelia, ae f	general reduction in size of the spinal cord, micromyelia
odontogenēsis, is f	the origin and formative development of teeth, odontogenesis
oligocytaemia, ae f	a condition in the blood in which there is cell deficiency, oligocytaemia
oligophrenia, ae f	congenital lack of the mentality, oligophrenia
polymastia, ae f	a state in which in human beings there are more than two distinct mammary glands, polymastia
prognathia, ae f	a condition in which there is abnormal projection of one or both jaws, prognatism
sphygmogramma, ātis n	a record of the arterial pulse waves, sphygmogram
splenomegalia, ae f	enlargement of the spleen, splenomegalia
thermotherapia, ae f	the use of heat in the treatment of disease, thermotherapy
thrombocytopoēsis, is f	the formation of blood platelets, thrombocytopoiesis
thyreotoxicōsis, is f	any toxic condition attributable to hyperactivity of the thyroid gland, thyrotoxicosis

II. English–Latin vocabulary

an abnormally long colon of normal diameter, dolichocolon	dolichocōlon, i n
abnormally rapid breathing, tachypnea	tachypnoēs, es f

abnormal slowness and weakness of the process of digestion, hypopepsia	hypopepsia, ae f
abnormal sluggishness of physical movements, bradykinesia	bradykinesia, ae f
aglossia, a congenital condition of being devoid of a tongue	aglossia, ae f
anaemia, a condition of the blood in which there are quantitative and qualitative changes in the red cells resulting in a reduction in the total amount of blood	anaemia, ae f
brachyoesophagus, a congenitally short oesophagus	brachyoesophāgus, i m
a condition of enlargement of the liver, hepatomegalia	hepatomegalia, ae f
a condition in which there are abnormally short fingers or toes, brachydactylia	brachydactylia, ae f
cytology, the science of the form and functions of cells	cytologia, ae f
dilatation of the stomach, gastrectasia	gastrectasia, ae f
dolichocolon, an abnormally long colon of normal diameter	dolichocōlon, i n
dystonia, a state of disordered tonicity	dystonia, ae f
erythema, redness of the skin due to hyperaemia	erythēma, ātis n
excessive sensitiveness of any organ or part of the body, hyperaesthesia	hyperaesthesia, ae f
extremely rapid breathing, tachypnea	tachypnoē, ēs f
gnathalgia, pain in one or both jaws	gnathalgia, ae f
haematomyelia, bleeding within the substance of the spinal cord	haematomyelia, ae f
hepatomegalia, a condition of enlargement of the liver	hepatomegalia, ae f
hyperaesthesia, excessive sensitiveness of any organ or part of the body	hyperaesthesia, ae f
hyperglycaemia, an excessive amount of sugar in the blood	hyperglycaemia, ae f
hypertension, high arterial blood pressure	hypertensio, ōnis f
hypomnesia, a weak or defective state of the memory	hypomnesia, ae f
hypophrenia, feebleness of mind	hypophrenia, ae f
hypoplasia, underdevelopment of a tissue or part	hypoplasia, ae f
hypothermia, deficiency of body heat	hypothermia, ae f
an increase in the total number of leucocytes, leucocytosis	leucocytōsis, is f
macrocyte, a red blood cell that is larger than normal	macrocytus, i m
megaloduodenum, duodenum of abnormally large size	megaloduodēnum, i n
megalomania, a mental condition in which a person has grandiose delusions about himself and his own intellect, power, importance and so on	megalomania, ae f
melanocarcinoma, a darkly pigmented malignant epithelial tumor	melanocarcinōma, ātis n
micromastia, abnormal smallness of the mammary glands	micromastia, ae f
microsphygmy, diminished strength of pulse	microsphygmia, ae f
monocytopoiesis, the production of monocytes in the bone marrow	monocytopoēsis, is f
myelocyaemia, the presence of myelocytes in the blood	myelocyaemia, ae f
oligodactylia, a congenital deficiency of fingers or toes	oligodactylia, ae f

the origin and development of a morbid condition, pathogenesis	pathogenēsis, is f
the origin and development of the bone marrow, myelogenesis	myelogenēsis, is f
a person with an unusually small size of head, microcephalus	microcephālus, i m
podalgia, sensation of pain in the foot	podalgia, ae f
polyavitaminosis, a morbid condition caused by deficiency of several vitamins	polyavitaminōsis, is f
a state in which most of the teeth are lacking, oligodontia	oligodontia, ae f
a state in which there are too few erythrocytes, erythropenia	erythropenia, ae f
splenohepatomegaly, enlargement of the spleen	splenohepatomegalia ae f

LESSON 22

NAMES OF INFLAMMATORY PROCESSES WHICH OCCUR IN ORGANS AND TISSUES. NAMES OF ABNORMALITIES IN THE STATES OF PHYSIOLOGICAL FLUIDS

The state of inflammation in any organ or tissue, as a rule, is usually expressed by means of the final suffixed element **-ītis** which is transformed into **itīdis** in the Genitive form. The suffix **-ītis** is added to the initial root of the noun which defines the place of a morbid state. All the terms with the suffix **-ītis** are nouns of the 3rd declension:

arthr- (joint) + ītis → **arthrītis, itīdis f** — inflammation of a joint, arthritis
hepat- (liver) + ītis → **hepatītis, itīdis f** — inflammation of the liver, hepatitis

titis

The suffix **-ītis** may be added both to the Greek and Latin roots:

nephr- (Greek *nephros kidney*) + ītis → **nephrītis, itīdis f** — an inflammatory disease of the kidneys, nephritis

tonsill- (Latin *tonsilla, ae f tonsil*) + ītis → **tonsillītis, itīdis f** — an inflammation of the tonsil, tonsillitis.

The site of the inflammatory process can be defined more precisely by means of the following prefixes of the Greek origin:

1) **endo-** (inner, mostly a mucous part of an organ):

endo + metr- (*utērus, i m*) + ītis → **endometrītis, itīdis f** — an inflammation of the inner mucous membrane of the uterus, endometritis;

2) **para-** (cellular, connective and other tissues near an organ):

para- + cyst (*urinary bladder*) + ītis → **paracystītis, itīdis f** — a condition of inflammation affecting the connective and other tissues lying close to the bladder, paracystitis;

3) **peri-** (tissues enclosing an organ):

peri- + card- (heart) + ĩtis → **pericardĭtis, itĭdis f** — an inflammation of the membrane enveloping the heart, pericarditis.

Names of some inflammatory morbid conditions are formed without suffix -ĭtis, e. g.:

panarĭtium, i n — an inflammation in the nail fold, panaris (= panarĭtium);

pneumonia, ae f — an inflammation of the spongy tissue of the lung, pneumonia

Due to inflammatory processes some specific fluids may accumulate or be produced in cavities and tissues:

exsudātum, i n — a fluid extravasated into a cavity, exudate;

transsudātum, i n — any fluid that has passed through a membrane or the skin, transudate.

The abnormal accumulation of fluid in a tissue or cavity space is generally called **hydrops, ōpis m** — hydrops, dropsy. This noun is used with adjectives and any other noun:

hydrops vesicae felleae — fluid swelling in the gall bladder.

The presence of excessive fluid in the cavity of a definite part of the body is expressed by the prefix **hydro-** and a final root with the ending of the 1st, 2nd or 3rd declension:

hydrometra, ae f — an accumulation of watery fluid in the cavity of the uterus, hydrometra;

hydropericardium, i n — excessive accumulation of serous fluid in the pericardium, hydropericardium;

hydrarthrōsis, is f — a watery effusion into the cavity of a joint, hydrarthrosis.

Pus also refers to the fluids accumulated due to the inflammatory processes. The presence of pus is expressed in one-word terms by the initial root **py-** (Greek pus) and the final roots together with the grammar ending:

pyopericardium, i n — an accumulation of pus in the pericardium, pyopericardium;

pyuria, ae f — a condition in which pus is present in the urine.

The meaning «lymph» is denoted by the initial roots **chyl-** and **lymph-**.

The root **chyl-** is used if lymph is present in a cavity, in the blood or urine:

chylothōrax, ācis m — a condition in which there is an effusion of lymph into the thoracic cavity, chylothorax;

chyluria, ae f — a condition in which the urine contains lymph, chyluria.

The root **lymph-** is used if lymph is considered as a part of lymphatic cells, glands and vessels:

lymphocytōsis, is f — an increase in the number of lymphocytes present in the blood, lymphocytosis;

lymphadenopathia, ae f — any morbid condition of the lymph gland, lymphadenopathy;

lymphangiitis, itidis f — an inflammation of lymphatic vessels, lymphangiitis.

Abnormal presence of blood in a cavity is expressed by the initial root **haem-** or **haemat-** which is added to a root and the final suffix **-ōsis** as well as any grammar ending of the 1st, 2nd or 3rd declension:

haemarthrōsis, is f — an extravasation of blood into a joint, haemarthrosis;

haematomētra, ae f — an accumulation of blood or menstrual fluid in the cavity of uterus, haematometra;

haemotympānum, i n — the presence of blood in the tympanic cavity, haemotympanum.

An abnormal state of blood circulation is mostly caused by embolaemia — a condition in which emboli are present in the blood. As a result, there occurs a sudden blocking of a blood vessel, usually an artery, by the emboli — fragments of a blood clot, clumps of bacteria or other foreign bodies introduced into the circulation. Such a condition is named thromboembolism (thromboembolismus, i m or thromboembolia, ae f).

An abnormal cessation of the flow of blood, lymph or other physiological fluid is marked by the final root **-stāsis**:

galactostāsis, is f — an arrest or stagnation in the secretion of milk, galactostasis;

lymphostāsis, is f — cessation of the flow of lymph, lymphostasis.

Greek roots and their variants	Latin equivalents in dictionary form	English meaning	English word building elements
aden-	1) glandūla, ae f 2) adenoīdes, um f 3) nodus lymphaticus	1) gland 2) adenoids 3) lymphatic node	aden-
aēr-, pneum-, pneumat-	aēr, is m	air or a gas	aēr-, pneum-, pneumat-
chole-	bilis, is f; fel, fellis n	bile	chole-
cholecyst-	vesīca biliāris (fellea)	gall bladder	cholecyst-
1) chyl-, 2) lymph-	lymp̄ha, ae f	chyle or lymph	chyl-, lymph-
col-, -colon	1) intestīnum crassum 2) colon	1) large intestine 2) colon	col-, -colon col-, -colon
cyst-	1) saccus, i m 2) vesīca, ae f 3) vesīca urinaria	1) sac 2) bladder 3) urinary bladder	cyst-
dacry-	lacrīma, ae f	tear	dacry-
dacryocyst-	saccus lacrimālis	lacrimal sac	dacryocyst-
enter-	1) intestīnum tenue 2) intestīnum	1) small intestine 2) intestine	enter-
galact-,	lac, lactis n	milk	galact-,

Greek roots and their variants	Latin equivalents in dictionary form	English meaning	English word building elements
-galactia			-galactia
hidr-	sudor, ōris m	sweat	hidr-
hydr-	1) aqua, ae f 2) liquor cerebrospinalis 3) exsudātum, i n 4) transsudātum, i n	1) water 2) cerebrospinal fluid 3) exudate 4) transudate	hydr-
lip-, seb-	1) adeps, īpis m 2) sebum, i n	1) fatty tissue of the body 2) the fatty secretion of the sebaceous glands	lip-, seb-
men-	mensis, is m	menses, the monthly discharge of blood from the uterus	men-
pan-, pant-	omnis, e	all	pan-, pant-
poli-	griseus, a, um	grey	poli-
py-	pus, puris n	pus	py-
sial-, -sialia	1) salīva, ae f 2) ductus salivarii	1) saliva 2) salivary ducts	sial-, -sialia
ur-, -uria	1) urea, ae f 2) urīna, ae f	1) urea, the chief nitrogenous constituent of urine 2) urine	ur-, -uria
xanth-	flavus, a, um	yellow	xanth-

Final root elements	English meaning
-chlorhydria	any state of free hydrochloric acid in the gastric juice
-chylia	secretion of the gastric juice
-menorrhoea	any condition of menses
-mētra	any condition of the uterus
-rrhagia	hemorrhage (bleeding) in any part of the body
-rrhoea	profuse discharge of mucus or other fluid substance
-salivatio	secretion of saliva
-salpinx	any condition of the uterine tube
-stāsis	cessation of the flow of any physiological fluid
-thōrax	any condition of the thorax
-uria	any condition of the urine

1. Give the dictionary form of Latin equivalents corresponding to the following Greek roots:

aden-, chole-, col-, cyst-, dacry-, enter-, hidr-, lip-, men-, poli-, py-, xanth-.

2. Give the dictionary form of Latin words and Greek equivalents to the Latin ones:

adeps, aēr, aqua, flavus, griseus, lac, lacrima, liquor cerebrospinalis, salīva, sudor, vesīca urinaria.

3. Complete orally the dictionary form of each Latin noun and define the meaning of each word building element. Write down in English a full definition of each term and its English one-word equivalent:

achlorhydria; adenalgia; adenasthenia; aërobion; amenorrhoea; anaërobion; chylothōrax; cholecystītis; cystorrhagia; dacryostenōsis; empyēma; enterocolītis; galactorrhoea; haemarthrōsis; hidradenītis; hydromētra; hypochylia; hyposalivatio; lipuria; lymphostāsis; menalgia; megacōlon; pantalgia; poliomyelītis; pyogēnus; pyopneumothōrax; pyosalpinx; uraemia; xanthopsia; xanthōsis.

4. Make up the Latin dictionary form of one-word terms with the following meaning:

a condition in which the amount of gastric juice is lessened; acute inflammation of the gray matter of the brain; an accumulation of pus in the pericardium; a discharge of pus; a disturbance of color vision when every-thing appears yellow; an excessive flow of milk; any fluid that has passed through the membrane of the skin; a watery effusion into the cavity of a joint; inflammation in the nail fold; inflammation of the inner mucous membrane of the uterus; inflammation of the liver; narrowing or stricture of the duct of the lacrimal gland; profuse discharge of mucous fluid from the nose; the presence of air or gas within a thorax; the presence of blood in the tympanic cavity; a sudden blocking of a blood vessel, usually an artery, by the emboli; the presence of blood in the urine.

5. Give the Latin dictionary form and the full definition of each term in English:

achylia; aerobic; anaerobic; chyluria; colonorrhagia; cystitis; dacryorrhoea; dysmenorrhoea; dropsy; embolaemia; endometritis; enteromegalia; enterogastri-
tis; galactostasis; haematosalpinx; hydrarthrosis; hidrosis; hydrometra; hypersaliv-
ation; hypogalactia; lymphangitis; lymphocytosis; menalgia; panaris; parane-
phritis; pericystitis; pneumonia; pneumohaemothorax; polioencephalopathy; pyu-
ria; thromboembolism; tonsillitis.

I. Latin–English vocabulary

achlorhydria, ae f	a complete lack of free hydrochloric acid in the astric juice, achlorhydria
adenalgia, ae f	a painful condition of a gland, adenalgia
adenasthenia, ae f	functional deficiency in a gland, adenasthenia
aërobion, i n	a microorganism which utilizes and assimilates atmospheric oxygen, aerobe (aerobian)
amenorrhoea, ae f	the pathological absence or stoppage of the menstrual discharge from the uterus, amenorrhoea
anaërobion, i n	a microorganism which is able to exist and multiply although deprived of either free oxygen or air, anaerobe
cholecystītis, itīdis f	inflammation of the gallbladder, cholecystitis
cystorrhagia, ae f	haemorrhage from the urinary bladder, cystorrhagia

dacryostenōsis, is f	narrowing or stricture of the duct of the lacrimal gland, dacryostenosis
empyēma, ātis n	an accumulation of pus in a cavity, empyema
enterocolītis, itīdis f	an inflamed condition of the small intestine and the colon, enterocolitis
galactorrhoea, ae f	an excessive flow of milk, galactorrhoea
haemarthrōsis, is f	extravasation of blood into a joint, haemarthrosis
hidradenītis, itīdis f	inflammation of the sweat glands, hidradenitis
hydromētra, ae f	an accumulation of watery fluid in the cavity of the uterus, hydrometra
hypochylia, ae f	a condition in which the amount of gastric juice is lessened, hypochylia
hyposalivatio, ōnis f	a condition in which there is an abnormal decrease in the secretion of saliva, hyposalivation
lipuria, ae f	the presence of an oily emulsion or fat in the urine, lipuria
lymphostāsis, is f	cessation of the flow of lymph, lymphostasis
megacōlon, i n	a condition in which there is a great dilatation of the large intestine, megacolon
menalgia, ae f	painful menstruation, menalgia
pantalgia, ae f	pain affecting all parts of the body, pantalgia
polimyelītis, itīdis f	an acute inflammation of anterior horn cells of the spinal cord due to polioviruses, polimyelitis
pyogēnus, a, um	or producing pus, pyogenic
pyopneumothōrax, ācis m	an inflammatory condition characterized by the presence of purulent fluid and gas in a pleural cavity, pyopneumothorax
pyosalpinx, ngis f	inflammation of the uterine tube which has progressed to pus formation, pyosalpinx
uraemia, ae f	the condition which is associated with the retention of metabolic products in the blood and disturbance of acid-base ratio of the latter, uraemia
xanthopsia, ae f	a disturbance of color vision, when everything appears yellow, xanthopsia
xanthōsis, is f	yellowish discoloration, especially of the skin, xanthosis

II. English -Latin vocabulary

an accumulation of pus in the pericardium, pyopericardium	pyopericardium, i n
achylia, absense of acid and pepsin from the gastric juice	achylia, ae f
acute inflammation of the gray matter of the brain	poliencephalītis, itīdis f
chyluria, the condition in which the urine contains lymph	chyluria, ae f
colonorrhagia, haemorrhage from the colon	colonorrhagia, ae f
cystitis, inflammation of the urinary bladder	cystītis, itīdis f
a discharge of pus	pyorrhoea, ae f
a disturbance of color vision when everything appears yellow, xanthopsia	xanthopsia, ae f

aerobe, a microorganism which utilizes and assimilates atmospheric oxygen	aërobion, i n
aerobic, requiring gaseous oxygen in order to live	aërobĭcus, a, um
anaerobe, a microorganism which is able to exist and multiply although deprived of either free oxygen or air	anaërobion, i n
anaerobic, able to sustain life without free oxygen	anaërobĭcus, a, um
dacryorrhoea, an excessive flow of tears	dacryorrhoea, ae f
dropsy, an abnormal collection of fluid in tissue or cavity space	hydrops, ōpis m
dysmenorrhoea, pain occurring in the back and lower abdomen at or about the time of menses	dysmenorrhoea, ae f
embolaemia, a condition in which emboli are present in the blood	embolaemia, ae f
endometritis, an inflammation of the inner mucous membrane of the uterus	endometrĭtis, itĭdis f
enterogastritis, an inflammation of the small intestine and the stomach	enterogastrĭtis, itĭdis f
enteromegalia, an unusually large size of the intestine	enteromegalia, ae f
an excessive flow of milk, galactorrhoea	galactorrhoea, ae f
any fluid that has passed through the membrane of the skin, transudate	transudātum, i n
galactostasis, an arrest or stagnation in the secretion of milk	galactostāsis, is f
haemosalpinx, a collection and retention of blood in an uterine tube	haemosalpinx, ngis f
hidrosis 1) a process of secreting sweat 2) abnormally profuse sweating	hidrōsis, is f
hydrarthrosis, a watery effusion into the cavity of a joint	hydrarthrōsis, is f
hydrometra, an accumulation of watery fluid in the cavity of the uterus	hydromētra, ae f
hypersalivation, excessive secretion of saliva	hypersalivatio, ōnis f
hypogalactia, secretion of too small a quantity of milk	hypogalactia, ae f
inflammation in the nail fold, panaris	panarĭtium, i n
inflammation of the inner mucous membrane of the uterus, endometritis	endometrĭtis, itĭdis f
inflammation of the liver, hepatitis	hepatĭtis, itĭdis f
lymphangitis, inflammation of lymphatic vessels	lymphangĭtis, itĭdis f
lymphocytosis, an increase in the number of lymphocytes	lymphocytōsis, is f
narrowing or stricture of the duct of the lacrimal gland;	dacryostenōsis, is f
panaris, an inflammation in the nail fold	panarĭtium, i n
paranephritis, an inflammatory condition involving the connective tissue adjacent to the kidney	paranephritĭtis, itĭdis f
pericystitis, an inflammation in which the structures around the urinary bladder are affected	pericystĭtis, itĭdis f

pneumohaemothorax, an accumulation of gas or air and blood in the cavity of the thorax	pneumohaemothōrax, ācis m
pneumonia, an inflammation of the spongy tissue of the lung	pneumonia, ae f
polioencephalopathy, any pathological condition of the gray matter of the brain	polioencephalopathia, ae f
the presence of air or gas within a thorax, pneumothorax	pneumothōrax, ācis m
the presence of blood in the tympanic cavity, haemotympanum	haemotympānum, i n i
the presence of blood in the urine, haematuria	haematuria, ae f
profuse discharge of mucous fluid from the nose, rhinorrhoea	rhinorrhoea, ae f
pyuria, a condition in which pus is present in the urine	pyuria, ae f
a sudden blocking of a blood vessel, usually an artery, by emboli, thromboembolia (thromboembolism)	thromboëmbolia, ae f
thromboembolism, a sudden blocking of a blood vessel, usually an artery, by emboli	m (thromboëmbolismus, i m) thromboëmbolia, ae f
tonsillitis, inflammation of the a tonsil	tonsillītis, itīdis f
a watery effusion into the cavity of a joint, hydrarthrosis	hydrarthrōsis, is f

LESSON 23

ONE-WORD NAMES OF ENDOGENOUS PATHOLOGICAL CHANGES AND MALFORMATIONS

Conditions of abnormal adhesions of tissues are signified by means of the prefix **sym-** or **syn-** (before the consonants **d, p, t** or vowels) and the final roots defining the place of malformation:

symblephāron, i n — an adhesion of eyelid to the eyeball, symblepharon

syndactylia, ae f — a condition in which two or more fingers or toes are fused, syndactylia.

One-word names of fissures are formed by means of the final root **-schīsis**:

cystoschīsis, is f — a congenital fissure of the urinary bladder, cystoschisis

gnathoschīsis, is f — a congenital fissure in the maxilla, gnathoschisis

Abscesses, cysts and hernias usually belong to pathological cavities.

Abscess (**abscessus, us m**) is an accumulation of pus circumscribed in a cavity produced by tissue disintegration. This Latin noun is used mainly with adjectives:

abscessus apicalis — apical abscess, an abscess at the apex of the root of a tooth

abscessus tonsillāris — tonsillar abscess, a suppurative condition of the parenchyma of a tonsil.

Cyst (**cysta, ae f**) is a cavity lined by a well-defined epithelium, fibrous or degenerating tissue. This noun both in Latin and English is mainly used in two-word terms with adjectives and nouns:

cysta choledōchi — choledochus cyst, cystic dilatation in the common bile duct

cysta pancreaticā — pancreatic cyst, a cyst arising within or in close proximity to the pancreas.

Hernia (**hernia, ae f**) is the protrusion of an internal organ through a defect in the wall of the anatomical cavity in which it lies. The noun is used like the previous one with adjectives and nouns:

hernia cerēbri — hernia of the brain, protrusion of the brain through a defect in the skull

hernia inguinālis — inguinal hernia, hernia in the inguinal canal.

In one-word terms, the idea of hernia is expressed by the final root **-cele**:

gastrocēle, es f — hernia of the stomach, gasrocele

myocēle, es f — hernia of a muscle, myocele

Names of tumors of a definite organ or tissues are formed by means of final suffix **-ōma** added to the initial root which indicates the localization of abnormal growth. All these names are nouns of the 3rd declension:

angiōma, ātis n — angioma, a tumor composed of blood vessels or of lymphatic vessels

nephrōma, ātis n — nephroma, a tumor derived from renal substance

osseōma, ātis n — osseoma, a tumor of bone.

Some names of innocent tumors are formed without the suffix **-oma**:

polypus, i m polypus, a tumor with a stalk arising from mucous membranes or the body surface

verrūca, ae f — a wart, a small circumscribed epidermal tumor.

Both nouns are used in multiword terms:

polypus laryngis — a polypus of larynx

verrūca plana — a plane wart.

A malignant tumor or any malignant growth is named cancer — cancer, crim. This name is used with the nouns and adjectives which define localization of the tumor:

cancer cutis — cancer of the skin

cancer gastris — cancer of the stomach

cancer osteolyticus — osteolytic cancer, a cancer which destroys the bone that it has invaded.

A malignant epithelial tumor is called carcinoma — **carcinōma, ātis n**. This noun is used with adjectives mostly:

carcinōma bronchogenicum — a bronchogenic carcinoma, carcinoma originating from a bronchus

carcinōma cutaneum — carcinoma cutaneum, a squamous-celled carcinoma of the skin.

The name *carcinoma* can also be used as a final root of one-word terms:

adenocarcinōma, ātis n — a carcinomatous tumor of glandular epithelium and connective tissue, adenocarcinoma

chondrocarcinōma, ātis n — a carcinoma the fragment of which contains cartilaginous elements, chondrocarcinoma.

A concrement is a pathological concretion — mostly a small mass which has become calcified in a cavity or in the tissue of a hollow anatomical structure. Such a concretion is denoted in Latin by the nouns **concrementum, i n** or **calcūlus, i m** and an adjective defining the localization of the concretion:

concrementum nasāle — nasal calculus

calcūlus dentālis — dental calculus.

The names of these concretions may also be expressed by one-word terms by means of the final root -lithus (Greek **lithos** stone) added to initial roots: rhinolīthus, i m = concrementum nasāle

odontolīthus, i m = calcūlus dentālis.

The condition in which a number of calculi are present in any part of the body is called calculosis — **calculōsis, is f**. The formation of concretions is named lithiasis — **lithiāsis, is f**. The same word is used as a final root of several one-word terms:

broncholithiāsis, is f — a condition in which calculi occur in the lumina of bronchial tubes, broncholithiasis

cholecystolithiāsis, is f — a condition in which there are gall-stones in the gall bladder or bile duct, cholelithiasis

nephrolithāsis, is f — a condition characterized by the presence of gravel or of renal calculi, nephrolithiasis

urolithiāsis, is f — a morbid state due to the presence of calculi in the urinary system, urolithiasis.

Abnormal hardening (induration) of a tissue is expressed by the initial root **scler-** (Greek **skleros** hard) or the final element **-sclerosis**:

sclerodesmia, ae f — abnormal induration of ligaments, sclerodesmia

osteosclerōsis, is f — hardening of bony spaces, osteosclerosis.

Abnormal softening of a tissue is expressed by the final root **-malacia** (Greek **malakia** softness):

chondromalacia, ae f — a pathological softening of a cartilage, chondromalacia.

Greek roots and their variants	Latin equivalents in dictionary form	English meaning	English word building elements
carcin-	cancer, cri m	cancer	carcin-
hist-	textus, us m	tissue	hist-
lith-	calcūlus, i m concrementum, i n	stone concretion	lith-
mening-	pia mater, arachnoidea mater, dura mater — the membranes which form the covering or sheaths of the spinal cord and brain	pia mater, arachnoidea mater, dura mater	mening-
morph-	forma, ae f	form	morph-
necr-	mortuus, a, um	dead, lifeless	necr-
ne(o)-	novus, a, um	new	ne(o)-
onc-	tumor, ōris m	tumor, swelling	onc-
onych-	unguis, is m	nail	onych-
pachy-	crassus, a, um	thick	pachy-
pyel-	pelvis renālis	pelvis of the kidney	pyel-
sarc-	caro, carnis f	flesh	sarc-
scler-	durus, a, um	hard, hardening	scler-
splanchn-	viscus, ěris n; viscĕra, um n	a viscus; the viscera	splanchn-
spondyl-	vertĕbra, ae f	vertebra	spondyl-
sten-	strictus, a, um	narrow, narrowing	sten-
typhl-	caecum, i n	caecum	typhl-
uran-	palātum, i n	palate	palat-, uran-

Attention! Instead of the initial Greek root **uran-** the Latin root **palat-** can be used: palatoplegia, ae f (palatoplegia, paralysis affecting the soft palate) = uranoplegia, ae f (uranoplegia) palatoschĭsis, is f (palatoschisis, cleft palate, a congenital fissure in the midline of the hard palate) = uranoschĭsis, is f (uranoschisis)

Final root elements	English meaning
-carcinōma	a malignant epithelial tumor
-cele	hernia
-lithiāsis	the formation of concretions
-lĭthus	a concretion
-malacia	pathological softening of an organ or tissue
-morphōsis	any state of the body form
-necrōsis	death of a portion of a tissue
-onychia	any abnormal condition of the nail
-porōsis	abnormal rarefaction of a bone by thinning of its trabeculae
-schĭsis	congenial fissure of a tissue
-sclerōsis	hardening of a tissue
-stenōsis	the constriction or narrowing of an orifice or the lumen of a hollow or tubular organ

§ 150. Exercises

1. Give the dictionary form of Latin equivalents corresponding to the following Greek roots:

carcin-, hist-, lith-, mening-, morph-, necr-, ne(o)-, onc-, onych-, pachy-, scler-, typhl-.

2. Give the dictionary form of Latin words and Greek equivalents to the Latin ones:

caecum, calcūlus, cancer, crassus, durus, mortuus, palātum, pelvis, renālis, strictus, textus, viscēra.

3. Complete orally the dictionary form of each Latin noun and define the meaning of each word building element. Write down in English a full definition of each term and its English one-word equivalent:

adenocarcinōma; broncholithiāsis; carcinomatōsis; cystoschīsis; dacryostenōsis; gastrocēle; histolýsis; meningiōma; metamorphōsis; micronychia; myocele; necropneumonia; nephrolithiāsis; neoplasma; odontolīthus; oncolōgus; onychomycōsis; osteonecrōsis; osteoporōsis; pachydactylia; palatoplegia; pyelītis; sarcōma; sclerōma; splanchnosclerōsis; spondylītis; stenothōrax; typhlectasia; uranoschīsis.

4. Make up the Latin dictionary form of one-word terms with the following meaning:

abnormal narrowing of the internal diameter of a vessel; a carcinoma the fragment of which contains cartilaginous elements; any diseased condition of the viscera; calculus on the teeth; causing the growth of tumors; congenital cleft of a vertebral arch or arches; congenital fissure of the urinary bladder; hardening of bony spaces; herniation of the uterus; inflammation affecting the pelvis of the kidney and the urinary bladder; inflammation of the membranes of the brain or spinal cord; paralysis affecting the soft palate; pathological softening of a cartilage; separation of a tissue as a result of its death; spasm of the caecum; the formation of concretions; the origin, formation and development of body tissue; the production and evolution of a form; the production of urinary calculi and the morbid state due to the presence of calculi in the urinary system.

5. Give the Latin dictionary form and the full definition of each term:

adiponecrosis; angioma; calculosis; cancerogenic (= carcinogenic); carcinoma; cholecystolithiasis; chondroporosis; enterolithiasis; gnathoschisis; macronychia; meningoencephalitis; necraemia; neoarthrosis; oesophagostenosis; oncologist; oncotherapy; onychodystrophy; osteomalacia; pachycheilia; polyposis; rhinolith; sarcomatosis; sclerodermatitis; sialolith; spondylopathy; symblepharon; synphalangism; typhlocele.

I. Latin-English vocabulary

adenocarcinōma, ātis n	a carcinomatous tumor of glandular epithelium and connective tissue, adenocarcinoma
broncholithiāsis, is f	a condition in which calculi occur in the lumina of bronchial tubes, broncholithiasis
carcinomatōsis, is f	a condition in which carcinoma is widely distributed throughout the body, carcinomatosis
cystoschīsis, is f	a congenital fissure of the urinary bladder, cystoschisis
dacryostenōsis, is f	a narrowing or stricture of the duct of the lacrimal gland, dacryostenosis
gastrocēle, es f	a hernia of the stomach or of a portion which has become pouched, gastrocele
histolýsis, is f	a spontaneous dissolution of living organic tissue, histolysis
meningiōma, ātis n	a meningeal tumor, thought to arise from the arachnoidal villi, meningioma
metamorphōsis, is f	a change of a form or structure, metamorphosis
micronychia, ae f	a small nail or small nails, micronychia
necropneumonia, ae f	gangrene of the lung, necropneumonia
nephrolithiāsis, is f	a condition characterized by the presence of gravel or renal calculi, nephrolithiasis
neoplasma, ātis n	any new and morbid formation of tissue, neoplasm
odonthlīthus, I m	a calculus on the teeth, odontolith
oncolōgus, i m	a specialist treating tumors, oncologist
onychomycōsis, is f	an infection of nails caused by a fungus, onychomycosis
osteonecrōsis, is f	death of bony tissue, osteonecrōsis
osteoporōsis, is f	a rarefaction of bone, osteoporosis
pachydactylia, ae f	abnormal thickening of a finger or toe, pachydactyly
palatoplegia, ae f	paralysis affecting the soft palate, palatoplegia
pyelītis, itīdis f	an inflammation of the pelvis of the kidney, pyelitis
sarcōma, ātis n	a malignant tumor of connective tissue or its derivatives, sarcoma
sclerōma, ātis n	an area of indurated tissue, particularly in the mucous membrane of the nose or larynx, scleroma
splanchnosclerōsis, is f	hardening of any viscus, splanchnosclerosis
spondylītis, itīdis f	an inflammation of the spine, spondilitis
stenothōrax, ācis m	a short, narrow thorax or chest, stenothorax
typhlectasia, ae f	a dilatation of the caecum, typhlectasia
uranoschīsis, is f	cleft palate, a congenital fissure in the midline of the hard palate, uranoschisis

II. English-Latin vocabulary

an abnormal thickening of a finger or toe, pachydactyly	pachydactylia, ae f
adiponecrosis, necrosis affecting the fatty tissue of the body	adiponecrōsis, is f
angioma, a tumor composed of blood vessels or lymphatic vessels	angiōma, ātis, n
calculosis, a condition in which a number of	calculōsis, is f

calculi are present in any part of the body	
a calculus on the teeth, odontolith	odontolīthus, i m
cancerogenic (= carcinogenic), producing carcinoma	cancerogēnus, a, um
carcinoma, a malignant epithelial tumor	carcinōma, ātis n
a carcinoma the fragment of which contains cartilaginous elements, chondroma	chondrōma, ātis n
a carcinomatous tumor of glandular epithelium and connective tissue, adenocarcinoma	adenocarcinōma, ātis n
causing the growth of tumors, oncogenous	oncogēnus, a, um
cholecystolithiasis, a condition in which there are gall-stones in the gall bladder or bile duct	cholecystolithiāsis, is f
chondroporosis, a porous condition of cartilage shown in thinning of the cartilage and formation of spaces and sinuses	chondroporōsis, is f
a condition characterized by the presence of gravel or of renal calculi, nephrolithiasis	nephrolithiāsis, is f
a congenital cleft of a vertebral arch, spondyloschisis	spondyloschīsis, is f
a congenital fissure of the urinary bladder, cystoschisis	cystoschīsis, is f
any diseased condition of the viscera, splanchnopathy	splanchnopathia, ae f
enterolithiasis, formation of calculi or concretions in the intestine	entherolithiāsis, is f
gnathoschisis, a congenital fissure in the maxilla	gnathoschīsis, is f
hardening of bony spaces, osteosclerosis	osteosclerōsis, is f
herniation of the uterus, metrocele	metrocēle, es f
inflammation affecting the pelvis of the kidney and the urinary bladder, pyelocystitis	pyelocystītis, itīdis f
inflammation of the membranes of the brain or spinal cord, meningitis	meningītis, itīdis f
macronychia, excessive length or size of the nails	macronychia, ae f
meningoencephalitis, an inflammatory condition of the brain and its meninges	meningoencephalitis, itīdis f
necraemia, a condition in which the blood loses its vitality	necraemia, ae f
nearthrosis, an artificial joint implanted by the surgical operation	nearthrōsis, is f
oesophagostenosis, a narrowing of the oesophagus	oesophagostenōsis, is f
oncologist, a specialist treating tumorous diseases	oncolōgus, i m
oncotherapy, the treatment of tumours	oncotherapia, ae f
onychodystrophy, malformation of the nails due to impaired nutrition	onychodystrophia, ae f
osteomalacia, softening of the bones	osteomalacia, ae f
pachycheilia, abnormal thickness or swelling of the lips	pachycheilia, ae f
paralysis affecting the soft palate, palatoplegia	palatoplegia, ae f
pathological softening of cartilage, chondromalacia	chondromalacia, ae f
polyposis, a condition in which the colon is studded	polypōsis, ls f

with polypi growing from the mucous membrane	
production of urinary calculi and a morbid state due to the presence of calculi in the urinary system, urolithiasis	urolithiāsis, is f
rhinolith, a concretion in the cavity of the nose	rhinolīthus, i m
sarcomatosis, a condition in which a number of sarcomata develop here and there on the body surface	sarcomatōsis, is f
sclerodermatitis, an inflammation and induration of the skin	sclerodermatitis, itīdis f
sialolith, a salivary calculus	sialolīthus, i m
spasm of the caecum, typhlospasm	typhlospasmus, i m
spondylopathy, any disease of the vertebrae	spondylopathia, ae f
symblepharon, adhesion of the eyelid to the eyeball	symblephāron, i n
synphalangism, a condition in which the joints of certain fingers or toes are fused	synphalangismus, i m
the formation of concretions, lithiasis	lithiāsis, is f
the origin, formation and development of body tissue, histogenesis	histogenēsis, is f
the production and evolution of a form, morphogenesis	morphogenēsis, is f
typhlocele, a hernia involving the caecum	typhlocēle, es f

LESSON 24

NAMES OF DEFORMATIONS OF TISSUE CAUSED BY EXOGENOUS FACTORS. NAMES OF SURGICAL OPERATIONS

The most known general names of tissue deformations are the following one-word terms:

deformatio, ōnis f — a destruction of the form, deformation

laesio, ōnis f — an injury, damage suffered by the body

trauma, ātis n — a trauma, injury

vulnus, ěris n — a wound, any interruption by violence or by surgery, in the continuity of the external surface of the body or of the surface of any internal organ.

More definite names are the following one-word terms:

avulsio, ōnis f — avulsion, a forcible removal of a portion from a hollow structure

combustio, ōnis f — burn, an injury caused by heat or by chemical or physical agents having an effect similar to heat

congelatio, ōnis f — congelation, frostbite, a local morbid condition, caused by freezing

commotio, ōnis f — a concussion or a violent shaking of a soft structure

compressio, ōnis f — compression, the process of decreasing the volume and increasing the density of the body by means of force applied externally

dislocatio, ōnis f — a dislocation, an abnormal displacement of one bone upon another in a joint

ectopia, ae f — ectopia, a morbid congenital malposition or traumatic displacement of an organ or its part

fractūra, ae f — a fracture, a break in the continuity of a bone

luxatio, ōnis f — a luxation, a dislocation of a bone

ruptūra, ae f — a rupture, the breaking or forcible disruption of continuity of the bone or another anatomical structure. With the same meaning, but only in one-word terms, the final root — **rrhexis** (Greek rhexis a break) is used:

metrorrhexis, is f — metrorrhexis, rupture of the uterus

ophthalmorrhexis, is f — ophthalmorrhexis, rupture of the eyeball

prolapsus, us m — prolapse, a sinking down or protrusion of a viscus or its part.

With the same meaning the final root **-ptōsis** is used:

gastroptōsis, is f — gastroptosis, a downward displacement of the stomach

splenoptōsis, is f — splenoptosis, a prolapse of the spleen.

The most common names of surgical operations are the following:

operatio, ōnis f — an operation, surgical intervention upon a part of the body

amputatio, ōnis f — an amputation, the surgical removal of a limb or a portion of a limb or of any other appendage

extirpatio, ōnis f — an extirpation, a removal of the entire pathological structure, organ or part

extractio, ōnis f — an extraction, the act or process of drawing out a part of body or a foreign body

implantatio, ōnis f — an implantation, the introduction of one tissue or structure into another with the aim of improving the function of any part of the body

punctūra, ae f (punctio, ōnis f) — a puncture, the operation of piercing a viscus or a swelling either to establish the nature of its content or to empty it. In one-word terms, the final root **-centēsis** corresponds to the two-word terms which include the noun **puncture** and the second noun signifying the site of this operation, e. g.:

punctūra thorācis = thoracocentēsis **punctūra pulmōnis = pneumocentēsis**

replantatio, ōnis f — replantation, the replacement a separated by accident part of some anatomical structure back to its natural place.

transplantatio, ōnis f — a transplantation, the operation of transference of a tissue or an organ from one place to an other with the aim of improving or renewing the function

resectio, ōnis f — a resection, a surgical removal of a part, usually of some magnitude, e. g. jaw, stomach, colon etc.

sectio, ōnis f — a section, the act of cutting

Latin prefix	Meaning	Latin example	English equivalent and its meaning
a-, ab-	away, from	avulsio, ōnis f aberratio, ōnis f	avulsion, the forcible removing a portion from a hollow structure aberration, a deviation from the normal
de(s)-	away, from	decapsulatio, ōnis f descensus, us m	decapsulation, surgical removal of a capsule or sheath descent, the sinking down or protrusion of a viscus or its part
dis-	apart, separation	disarticulatio, ōnis f	disarticulation, separation or amputation in a joint without cutting through bone
im-, in-	in, into	implantātum, i n invasio, ōnis f	implant, any piece of tissue for use as a graft invasion, the entrance and establishment of parasites into the body of a host
e-, ex-	from, out of	extractio, ōnis f evisceratio, ōnis f	extraction, the act or process of drawing out a part of body or a foreign body evisceration, removal of the contents of an organ or its part
re-	again	replantatio, ōnis f	replantation, the replacement a separated by accident part of some anatomical structure back to its natural place
trans-	through, across	transplantatio, ōnis f	transplantation, the operation of transfer of tissue from one site to another

Greek roots and their variants	Latin equivalents in dictionary form	English meaning	English word building elements
blephar-	palpēbra, ae f	eyelid	blephar-
chir-	manus, us f	hand	chir-
colp-	vagīna, ae f	vagina	colp-
cry-	gelu, us n	cold	cry-
crypt-	latens, ntis	hidden	crypt-
desm-	ligamentum, i n	ligament	desm-
embry-	1) embryo, ōnis m 2) fetus, us m	1) embryo, a living organism from the fertilized ovum to the first 8 weeks of intrauterine life 2) fetus, a living organism after first 8 weeks of intrauterine life	embry-
Greek roots	Latin equivalents in	English meaning	English word

and their variants	dictionary form		building elements
kerat-	cornea, ae f	1) cornea 2) the horny layer of the skin	kerat-
lapar-	abdōmen, ĩnis n	abdomen	lapar-
pneum-, pneumon-	pulmo, ōnis m	lung	pneum-, pneumon-
salping-	1) tuba uterīna 2) tuba auditīva (= tuba auditoria)	1) the uterine tube 2) the pharyngotympanic tube (=auditory tube)	salping-
ten-	tendo, ĩnis m	tendon	ten-
top-	locus, i m	place	top-

Final roots elements	English meaning
-chirurgia	surgical operation
-centēsis	tapping or puncture of a cavity, -centesis
-dēsis	operative fixation of a structure, -desis
-ectomia	amputation or excision of an organ or its part, -ectomy
-implantatio	the introduction of one tissue or structure into another with the aim of improving the function of any part of the body, -implantation
-lysis	surgical freeing of a tissue from adhesions
-pexia	surgical fixation by means of sutures, -pexis, -pexy
-plastīca	an operation dependent upon the transposition of skin or other tissue, -plasty
-rrhaphia	the suturing together of the cut or torn edges of a wound, -rrhaphy
-rrhexis	rupture or bursting of an organ or vessel, -rhexis
-stōma	an artificial opening created by surgical operation
-stomia	creation of an artificial opening, -stomy
-tomia	operative cutting, incision or section, -tomy
-transplantatio	the operation of transference of a tissue or an organ from one place to another with the aim of improving or renewing the function, -transplantation

1. Give the dictionary form of Latin equivalents corresponding to the following Greek roots:

blephar-, chir-, colp-, cry-, crypt-, desm-, embryo-, kerat-, lapar-, pneum-, salping-, ten-, top-.

2. Give the dictionary form of Latin words and Greek equivalents to the Latin ones:

abdōmen, cornea, embryo, gelu, latens, locus, manus, palpēbra, pulmo, tendo, tuba uterīna.

3. Complete orally the dictionary form of each Latin noun and define the meaning of each word building element. Write down in English the full definition of each term and its English one-word equivalent:

avulsio; blepharītis; blepharoplastīca; colpotomia; combustio; cryochirurgia; cryotherapia; cryptophthalmia; decapsulatio; descensus; desmorrhaxis;

desmurgia; disarticulatio; embryologia; embryotomia; evisceratio; gastrostōma; hyperkeratōsis; implantatio; implantātum; keratotomia; laparoscopia; laparogastrostomia; pneumocentēsis; prolapsus; pneumoēmpyēma; replantatio; resection; salpingectomy; salpingolysis; spondylodēsis; tenorrhaphia; tenotomia; thoracentēsis; toponeurōsis.

4. *Make up the Latin dictionary form of one-word terms with the following meaning:*

a concussion or a violent shaking of a soft structure; adenoma of the eyelid; a medical practitioner skilled in general surgery, who specializes in the operative treatment of diseases of the nervous system; a neoplasm originating in embryonic elements or blighted ovum; any disease affecting ligaments; any morbid condition affecting the lungs; any plastic operation to repair or reconstruct the urinary bladder; any plastic surgical operation on the vagina; a tumor consisting of connective-tissue element; incision of the abdominal wall and excision of the uterus; inflammation of abdominal muscles; inflammation of the cornea; polypus of the vagina; puncture of the cornea; removal of an entire pathological structure, organ or part; retention of the menstrual flow due to congenital acquired genital-canal stenosis; surgical operation on small structures with the aid of a microscope; the act or process of drawing out a part of body or a foreign body; the entrance and establishment of parasites into the body of a host; the operation for the relief of hernia and the resultant reduction of the size of the latter; the operation of removal of the adenoid growth by excision; the operation of transference of a tissue of an organ from one place to another with the aim of improving or renewing a function; the surgical establishment of a permanent or semipermanent opening into the urinary bladder; total or partial surgical removal of diseased lung tissue; use of cold or freezing as a therapeutic measure.

5. *Give the full definition of each term and its Latin dictionary form:*

arthrocentesis; autoplasty; blepharotomy; colpocystotomy; colpomyomec-tomy; colpohysteropexy; congelation; cryosurgery; cryptolith; cryptopsoriasis; desmalgia; desmotomy; dislocation; ectopia; embryectomy; embryopathology; implant; implantation; keratomycosis; keratoplasty; oesophagostoma; pneumorrhaphy; pneumotomy; puncture; salpingogram; salpingopexy; tenodesis; tenolysis; tonsillotomy; topography; topophobia.

I. Latin-English vocabulary

avulsion, ōnis f	a forcible removing a portion from a hollow structure, avulsion
blepharītis, itīdis f	an inflammation of the eyelids, blepharitis
blepharoplastīca, ae f	a plastic operation for restoration of an eyelid or any part of it, blepharoplasty
colpotomia, ae f	any cutting operation on the vagina, colpotomy
combustio, ōnis f	an injury caused by heat or by chemical or physical agents having an effect similar to heat, burn

cryochirurgia, ae f	surgical procedures in which tissue is destroyed by freezing, cryosurgery
cryotherapia, ae f	the science of the use of cold as a therapeutic measure, cryotherapy
cryptophthalmia, ae f	a congenital adhesion of the eyelids so that the eyeballs can not be seen, cryptophthalmia
decapsulatio, ōnis f	a surgical removal of a capsule or sheath, decapsulation
desmorrhaxis, is f	rupture of a ligament, desmorrhaxis
desmurgia, ae f	the science of applying ligatures or bandages to a part, desmurgy
disarticulatio, ōnis f	a separation or amputation at a joint, without cutting through bone, disarticulation
embryologia, ae f	a branch of biological science which is concerned with the origin and development of the embryo from the ovum to the stage of extra-uterine life, embryology
embryotomia, ae f	a dissection of an embryo or fetus, embryotomy
evisceratio, ōnis f	a removal of the contents of an organ or part, evisceration
gastrostōma, ātis n	a natural or artificial gastric fistula, gastrostoma
hyperkeratōsis, is f	a hypertrophy of the stratum corneum of the skin, hyperkeratosis
implantatio, ōnis f	the introduction of one tissue or structure into another with the aim of improving the function of any part of the body, implantation
keratotomia, ae f	making an incision into the cornea, keratotomy
laparoscopia, ae f	the act or process of examining the peritoneal cavity and its contents by means of a laparoscope, aparoscopy
laparogastrostomia, ae f	the operation to create an artificial opening in the stomach, laparogastrostomy
pneumocentēsis, is f	a lung puncture in order to aspirate the contents of a cavity, pneumocentesis
pneumoēmpyēma, ātis n	the presence of pus and gas within the pleural space, pneumoēmpyema
prolapsus, us m	the sinking down or protrusion of a viscus or its part, prolapse
replantatio, ōnis f	the replacement a separated by accident part of some anatomical structure back to its natural place, a replantation
resectio, ōnis f	a surgical removal of a part, usually of some magnitude, e. g. jaw, stomach, etc., a resection
salpingectomy, ae f	an excision of an uterine tube, salpingectomy
salpingolysis, is f	breaking-down of adhesions in an uterine tube, salpingolysis
spondylodēsis, is f	the operation of fusion of the spine, usually by a bone graft, spondylodesis
tenorrhaphia, ae f	an operation for the suturing of the divided ends of a tendon, tenorrhaphy
tenotomia, ae f	the cutting of a tendon, tenotomy
thoracocentēsis, is f	a puncture of the wall of the thorax to remove fluid, thoracocentesis
toponeurōsis, is f	localized neurosis, a functional derangement in any part of the body, toponeurosis

II. English-Latin vocabulary

the act or process of drawing out a part of body or a foreign body, extraction	tenodēsis, is f
adenoma of the eyelid, blepharoadenoma	blepharoadenōma, ātis n
arthrocentesis, the surgical procedure of puncturing a joint	arthrocentēsis, is f
autoplasty, the repair of a diseased or injured tissue or organ by the material taken from another part of the body	autoplastīca, ae f
blepharotomy, an incision of an eyelid	blepharotomia, ae f
colpocystotomy, a surgical incision into the urinary bladder through the wall of the vagina	colpocystotomia, ae f
colpohysteropexy, the operative fixation of the uterus through the vagina	colpohysteropexia, ae f
colpomyomectomy, a removal of a myoma from the uterus by the vaginal route	colpomyomectomia, ae f
a concussion or a violent shaking of a soft structure, concussion	commotio, ōnis f
congelation, frostbite, a local morbid condition, caused by freezing	congelatio, ōnis f
cryosurgery, surgical procedures in which tissue is destroyed by freezing	cryochirurgia, ae f
cryptolith, a calculus contained in a crypt	cryptolīthus, i m
cryptopsoriasis, hidden, latent psoriasis	cryptopsoriāsis, is f
desmalgia, pain in a ligament	desmalgia, ae f
any disease affecting the ligaments, desmopathia	desmopathia, ae f
dislocation, abnormal displacement of one bone upon another in a joint	dislocatio, ōnis f
ectopia, a morbid congenital malposition or traumatic displacement of an organ or its part	ectopia, ae f
embryoectomy, the surgical removal of the embryo	embryoēctomia, ae f
embryopathology, the branch of pathology concerned with defective or abnormal development of embryo	embryopathologia, ae f
the entrance and establishment of parasites into the body of a host, invasion	invasio, ōnis f tenolysis, is f
implant, any piece of tissue used as a graft	implantātum, i n
incision of the abdominal wall and excision of the uterus, laparohysterectomy	laparohysterectomy, ae f
inflammation of the abdominal muscles, laparomyositis	laparomyosītis, itīdis f
the introduction of one tissue or structure into another with the aim of improving the function of any part of the body, implantation	implantatio, ōnis f extractio, ōnis f
keratomycosis, a disease of cornea caused by a fungus	keratomycōsis, is f
keratoplasty, plastic surgery on the cornea	keratoplastīca, ae f
a medical practitioner skilled in general surgery who specializes in the operative treatment of diseases of the nervous system, a neurosurgeon	neurochirurgus, i m
any morbid condition affecting the lungs, pneumopathy	pneumopathia, ae f

oesophagostoma, any opening into the esophagus apart from the normal entrance and exit	oesophagostōma, ātis n
the operation for the relief of hernia and the resultant reduction of the latter, herniotomia	herniotomia, ae f
the operation of removal of the adenoid growth by excision, adenotomy	adenotomia, ae f
the operation of transference of a tissue of an organ from one place to an other with the aim of improving or renewing of a function, transplantation	transplantatio, ōnis f
ophthalmorrhaxis, rupture of the eyeball	ophthalmorrhaxis, is f
any plastic operation to repair or reconstruct the urinary bladder, cystoplasty	cystoplastīca, ae f
any plastic surgical operation on the vagina, colpoplasty	colpoplastīca, ae f
a polypus of the vagina, colpopolypus	colpopolŷpus , i m
pneumocentesis, a lung puncture in order to aspirate the contents of the cavity	pneumocentēsis, is f
pneumoempyema, the presence of pus and gas within the pleural space	pneumoēmpyēma, ātis n
pneumorrhaphy, the operation of suturing a wound of the lung	pneumorrhaphia, ae f
pneumotomy, making an incision into the lung	pneumotomia, ae f
a prolapse, the sinking down or protrusion of a viscus or its part	prolapsus, us m
puncture, the operation of piercing a viscus or a swelling either to establish the nature of its content	punctura, ae f; punctio, ōnis f
a puncture of the cornea, keratocentesis	keratocentēsis, is f
removal of an entire pathological structure, organ or part, amputation	amputatio, ōnis f; extirpatio, ōnis f
retention of the menstrual flow due to congenital or acquired genital canal stenosis, cryptomenorrhoea	cryptomenorrhoea, ae f
salpingogram, the radiograph made during the radiographic visualization of the uterus and uterine tubes	salpingogramma, ātis n
salpingopexy, surgical fixation of the uterine tube	salpingopexia, ae f
tenolysis, the freeing of a tendon from adhesions	tenolŷsis, is f
the surgical establishment of a permanent or semipermanent opening into the urinary bladder, cystostomy	cystostomia, ae f
a surgical operation on small structures with the aid of a microscope, microsurgery	microchirurgia, ae f
tonsillotomy, the surgical operation for removal of a part of a tonsil	tonsillotomia, ae f
topography, the anatomical description of any particular part of the body	topographia, ae f
topophobia, unreasoned fear of certain places	topophobia, ae f
total or partial surgical removal of diseased lung tissue, pneumonectomy	pneumonectomia, ae f
a tumor consisting of connective tissue, desmoneoplasm	desmoneoplasma, ātis n
use of cold or freezing as a therapeutic measure, cryotherapy	cryotherapia, ae f

LESSON 25

MULTIWORD CLINICAL TERMS. PART № 1

Multiword terms are widely used in medical diagnoses. Any multiword term consists, as a rule, of two or three words. The noun containing the cardinal information of the term is placed first, and then one or two nouns or one or two adjectives follow. The second and third nouns indicate the localization of the diseased organ or tissue; adjectives give qualitative and quantitative characteristics of the morbid condition:

infarctus cerēbri — cerebral infarct, an infarct of cerebral tissue due to failure of blood supply resulting from vascular thrombosis, embolism or spasm

tachycardia ventricūli sinistri — tachycardia of the left ventricle, abnormally rapid rate of the left ventricle

anaemia haemorrhagica — haemorrhagic anaemia, anaemia caused by acute or chronic loss of blood because of whatever cause

myocarditis bacterialis acūta — acute bacterial myocarditis, acute inflammation of the myocardium due to invasion of bacteria

The combination of a noun and an adjective after the first noun of the term can be present too:

cirrhōsis biliāris infantium — biliary cirrhosis of children, cirrhosis of young children due to congenital anomalies of the bile ducts

luxatio coxae congenita — congenital dislocation of the hip

To sum up, we can say that multiword clinical terms are built similar to anatomical ones. First of all, the dictionary form of every word should be given. After that, the term is built according to the already known rules.

§ 160. EXERCISES

1. Give the dictionary form of every word and the full definition of the italicized words; translate the multiword terms into English:

abdōmen acūtum; *diabētes* mellītus; diagnōsis aetiologīca; febris continua; fetor ex ore sive *halitōsis*; herpes labiālis; indigestio gastris; *infarctus* thromboticus; insufficientia renālis chronīca; morbus maculōsus neonatōrum; *palpatio* et *percussio* hepātis; *polyuria* diabetīca; *prophylaxis* morbōrum allergicōrum; *syndrōmum* unguium flavōrum; *toxicōses* gravidārum; vitium cordis congenitum.

2. Give the dictionary form of every word and the full definition of the italicized words; translate the multiword terms into Latin:

acute suppurative *bronchitis*; allergic *stomatitis*; cardinal *symptoms*; cerebrospinal hereditary *paralysis*; chronic superficial *dermatitis*; *collapse* of the lung; *endogenous eczema*; *exogenous* tuberculosis; hypoglycaemic *coma*; intermittent hepatic fever; plasma *transfusion*; primary atypical *pneumonia*; simple *urethritis*; spongiform subacute *encephalopathy*; *syndrome* of the cerebral peduncle; tissue *emphysema*; ultrasonic *tomography*.

I. Latin–English vocabulary

acūtus, a, um	acute
aetiologīcus, a, um	aetiologic, based on the aetiology — the science of the investigation of the cause or origin of any phenomenon
chronīcus, a, um	chronic, long continued
congenītus, a, um	congenital
continuus, a, um	continued
diabētes, ae m	diabetes, a group of diseases in which there is polyuria and a disturbed metabolism
diabetīcus, a, um	diabetic, suffering from or relating to diabetes
diagnōsis, is f	diagnosis, medical denotion of the disease from which a person suffers
febris, is f	fever
foetor, ōris m	fetor, a foul odour or stench
gravīda, ae f	gravida, a woman who is pregnant
halitōsis, is f	halitosis, fetid or offensive breath
herpes, ētis m	herpes, inflammation of the skin or mucous embrane, with clusters of deep-seated vesicles
indigestio, ōnis f	indigestion, any disturbance of the normal process of digestion
infarctus, us m	infarct (infarction), a wedge-shaped area of dead tissue, with or without haemorrhage, produced by the obstruction of an end artery
insufficiētia, ae f	insufficiency, the state of being inadequate to perform normal function
maculōsus, a, um	a maculate, marked by maculae
mellitū, a, um (diabētes)	mellitus (diabetes), characterized by a high level of blood sugar
morbus, i m	a disease
meonātus, i m	a newly born child (a boy)
palpatio, ōnis f	palpation, the method of physical examination in which the hands are applied to the surface of the body, so that by sense of touch information is obtained about the condition of inner organs
percussio, ōnis f	percussion, the art of striking the thoracic or abdominal wall in order to produce sound vibration from which the nature of the underlying strectures can be assessed
polyuria, ae f	polyuria, increase in the amount of the exerted urine
prophylaxis, is f	prophylaxis, the art of preventing disease
sive	or
syndrōmum, i n	a syndrome, a distinct group of signs which form a characteristic clinical picture of the disease
thrombolytīcus, a, um	thrombotic, characterized or caused by thrombosis
toxicōsis, is f	toxicosis, the pathological condition caused by the adsorption of poison
vitium, i n	a defect or a nice

II. English–Latin vocabulary

acute	acūtus, a, um
alimentary	alimentarius, a, um
cardinal	cardinālis, e
chronic	chronīcus, a, um
collapse, a state of extreme weakness with physical and mental depression	collapsus, us m
coma, the state of complete loss of consciousness from which the patient cannot be roused by any ordinary external stimulus	coma, ātis n
eczema, a non-contagious inflammatory disease of the skin with much itching and burning	eczēma, ātis n
emphysema, a condition in which the alveoli of the lungs are dilated	emphysēma, ātis n
endogenous, having origin within the organism	endogēnus, a, um
exogenous, belonging to aetiological factors outside the organism	exogēnus, a, um
fever	febris, is f
hereditary	hereditarius, a, um
hypoglycaemic, relating or belonging to, or bringing about hypoglycaemia, a low blood sugar concentration	hypoglycaemīcus, a, um
intermittent, coming and going at intervals	intermittens, ntis
paralysis, loss of motor power due to a functional or organic disorder of neural or neuromuscular mechanism	paralýsis, is f
plasma, the fluid portion of the blood in which the blood corpuscles are suspended	plasma, ātis n
pneumonia, an inflammation of the spongy tissue of the lung	pneumonia, ae f
peduncle	peduncŭlus, i m
primary	primarius, a, um
spongiform, having resemblance to a sponge	spongiformis, e
subacute, (disease) running a moderately rapid and severe course for which the word acute would not be appropriate	subacūtus, a, um
suppurative, pus-forming	suppuratīvus, a, um
a symptom, the consciousness of a disturbance in a bodily function	symptōma, ātis n
a syndrome, a distinct group of signs which form a characteristic clinical picture of the disease	syndrōmum, i n
a tissue	textus, us m
a transfusion, the introduction into the blood vessels of the circulatory system of sterile fluids such as blood, plasma, serum and other solutions	transfusio, ōnis f
tomography, body-section radiography	tomographia, ae f
ultrasonic, ultrasound	ultrasonarius, a, um

LESSON 26
MULTIWORD CLINICAL TERMS. PART № 2

1. Give the dictionary form of every word and the full definition of the italicized words; translate the multiword terms into English:

alopecia occipitālis neonatōrum; *gastrorrhoea* continua chronīca; *granulōma* benignum glandūlae thyroideae; *infectio* latens; inflammatio bacteriālis; insufficientia arteriārum mesentericārum; *lymphangiōma* simplex; *melanōsis* irīdis; *myasthenia* laryngis; *myelītis* traumātica; *neuralgia* faciālis vera; *neurītis* puerperālis; *osteītis* deformans; *osteōma* spongiōsum; *prolapsus* recti; *psychōsis* senīlis; situs viscērum inversus; *spasmus* intestinōrum.

2. Give the dictionary form of every word and the full definition of the italicized words; translate the multiword terms into Latin:

acquired immune deficiency *syndrome* (AIDS); benign lymphocytic *meningitis*; cerebral *oedema*; chronic *glossitis* with *anaemia*; diffuse *goitre*; direct *metastasis*; *dropsy* of the gall bladder; fetal gigantism; geminated composite *odontome*; intravenous *narcosis*; infective *hepatitis*; monostotic fibrous *dysplasia*; odontogenic *fibroma*; pelvic *haematoma*; postoperative *thrombosis*; *psychogenic* headache; secondary *glaucoma*; senile *osteoporosis*; viral *enteritis*.

I. Latin–English vocabulary

alopecia, ae f	alopecia, loss of hair
bacteriālis, e	bacterial, belonging to or consisting of bacteria
benignus, a, um	benign
continuus, a, um	continued
deformans, ntis	deforming
gastrorrhoea, ae f	gastrorrhoea, the secretion by the stomach of an abnormally large quantity of gastric juice or of mucus
granulōma, ātis n	a granuloma, a tumour composed of granulation tissue
infectio, ōnis f	an infection, the invasion of a pathogenic organism into the body and its subsequent multiplication
inflammatio, ōnis f	an inflammation
insufficientia, ae f	insufficiency
inversus, a, um	inverse
latens, ntis	hidden
lymphangiōma, ātis n	lymphangioma, a tumor formed of lymphatic tissue
mesenterīcus, a, um	mesenteric
melanōsis, is f	melanosis, an abnormal deposition of the black pigment (melanin) in the skin or other tissues
myasthenia, ae f	myasthenia, weakness of muscles from whatever cause
myelītis, itīdis f	myelitis, an inflammation of the bone marrow
neuralgia, ae f	neuralgia, a painful affection of the nerves due to functional disturbances or to neuritis

neurītis, itīdis f	neuritis, an inflammation of a nerve
osteītis, itīdis f	osteitis, an inflammation of a bone due to infection or injury
osteōma, ātis n	osteoma, an innocent tumor of a bone
prolapsus, us m	prolapse, the sinking down or protrusion of a part or viscus
psychōsis, is f	psychosis, any kind of mental disorder
puerperālis, e	puerperal
senīlis, e	senile
situs, us m	a position, a site
spasmus, i m	a spasm, a sudden, powerful, involuntary contraction of a muscle
spongiōsus, a, um	spongy (spongioid), full of small holes, like a sponge
traumatīcus, a, um	traumatic
verus, a, um	true
viscus, ěris n	a viscus or viscera, the internal organs of the body which are closely related to the great serous cavities — pleural, pericardial or peritoneal

II. English–Latin vocabulary

acquired	acquisītus, a, um
benign	benignus, a, um
composite	compositus, a, um
deficiency	deficientia, ae f
diffuse	diffūsus, a, um
direct	directus, a, um
dropsy	hydrops, ōpis m
dysplasia, abnormal development of tissue	dysplasia, ae f
enteritis, inflammation of the mucous membrane of the intestines	enterītis, itīdis f
fetal	fetālis, e
fibroma, an innocent tumor composed chiefly of connective tissue	fibrōma, ātis n
fibrous	fibrōsus, a, um
geminated	geminātus, a, um
gigantism, a condition of excessive tallness	gigantismus, i m
glaucoma, a condition of increased intraocular pressure and its consequences	glaucōma, ātis n
glossitis, an inflammation of the tongue	glossītis, itīdis f
goitre, an enlargement of the thyroid gland	struma, ae f
headache	dolor (ōris m) capitis
haematoma, a tumor or swelling composed of blood	haematōma, ātis n
immune	immūnus, a, um
immunodeficiency	immunodeficientia, ae f
infective	infectīvus, a, um
intravenous	intravenōsus, a, um
lymphocytic	lymphocytīcus, a, um

metastasis, the transfer of disease from its primary site to distant parts of the body by blood vessels, lymphatics or direct contiguity	metastāsīs, is f
monostotic, pertaining to a single bone	monostotīcus, a, um
narcosis, stupor produced by drugs and tending to insensibility and paralysis	narcōsis, is f
odontome, a solid or cystic tumour occurring in the jaws which is derived from cells concerned in tooth development	odontōma, ātis n
odontogenic, relating to the development of the teeth	odontogēnus, a, um
oedema, the presence of excessive amounts of fluid in the intercellular tissue spaces of the body	oedēma, ātis n
osteoporosis, a rarefaction of bone	osteoporōsis, is f
postoperative	postoperatīvus, a, um
psychogenic, developing or originating because of mental causes	psychogēnus, a, um
secondary	secundarius, a, um
senile	senīlis, e
thrombosis, intravascular coagulation during life, producing a thrombus	thrombōsis, is f
viral	virālis, e

LESSON 27

MULTIWORD CLINICAL TERMS. PART № 3

1. Give the dictionary form of every word and the full definition of the italicized words; translate the multiword terms into English:

abscessus gingivālis; *avulsio* nervi phrenīci; calcūlus venōsus; *carcinōma* in situ; *combustio* thermālis faciēi; *commotio* cerēbri; *congelatio* digitōrum pedis dextri; *ectopia* oculi; *erosio* cervīcis utēri; *extractio* corpōris aliēni; *polypi* laryngis; *punctio* lumbālis; ruptūra ligamentōrum hepātis; *sectio* cadavēris; *transplantātum* corneae; ulcus perfōrans duodēni; *verrūcae* planae.

2. Give the dictionary form of every word and the full definition of the italicized words; translate the multiword terms into Latin:

breast *amputation*; chemical burn of the oesophagus; closed fracture of the right femur; *concussion* of the retina; *evisceration* of the eye; functional aortic *stenosis*; internal injury; lung calculi; open operation; partial *ophthalmoplegy*; *resection* of a joint and a rib; splenic *puncture*; subcutaneous wound; *replantation* of the left hand; tendon *transplantation*; traumatic *erythema*; *ulceration* of the stomach.

I. Latin–English vocabulary

abscessus, us m	abscess, an accumulation of pus circumscribed in a cavity produced by tissue disintegration
aliēnus, a, um	foreign
avulsio, ōnis f	avulsion, the forcible removing a portion from a follow structure
combustio, ōnis f	burn, an injury caused by heat or by chemical or physical agents having an effect similar to heat
commotio, ōnis f	a concussion or a violent shaking of a structure
congelatio, ōnis f	congelation, frostbite, a local morbid condition caused by freezing
ectopia, ae f	ectopia, a morbid congenital malposition or traumatic displacement of an organ or part
erosio, ōnis f	erosion, any superficial destructive process
extractio, ōnis f	extraction, the act or process of drawing out a part of body or foreign body
gingivālis, e	gingival
partiālis, e	partial
planus, a, um	plane
phrenīcus, a, um	phrenic
perfōrans, ntis	perforating
polýpus, i m	a polyp, a tumor with a stalk arising from mucous membranes or the body surface
punctio, ōnis f	a puncture, the operation of piercing a viscus or a swelling either to establish the nature of its content or to empty it
ruptūra, ae f	rupture, the breaking or forcible disruption of continuity of a bone or another structure
sectio, ōnis f	a section, the act of cutting
sectio cadavēris	a post - mortem examination of dead body
thermalis, e	thermal
transplantātum, i n	a transplant, a piece of tissue to transfer from one site to another
verrūca, ae f	a wart

II. English–Latin vocabulary

amputation, the surgical removal of limb or a portion of a limb or of any other appendage	amputatio, ōnis f
aortic	aortīcus, a, um
breast	mamma, ae f
burn	combustio, ōnis f
calculus (plur. calculi), a solid pathological concretion	calcūlus, i m
chemical	chemīcus, a, um
closed	clausus, a, um
concussion, a violent shaking of a structure	commotio, ōnis f
erythema, redness of the skin due to hyperaemia	erythēma, ātis n
fracture, a break in the continuity of a bone	fractūra, ae f
functional	functionālis, e
ingury	laesio, ōnis f
open	apertus, a, um
operation	operatio, ōnis f

ophthalmoplegia, palsy (paralysis) of the ocular muscles	ophthalmoplegia, ae f
partial	partiālis, e
puncture, the operation of piercing a viscus or a swelling either to establish the nature of its content or to empty it	punctio, ōnis f
resection, surgical removal of a part, usually of some magnitude, e.g. jaw, stomach, colon etc.	resectio, ōnis f
splenic	splenīcus, a, um

1. Give Greek initial roots and Latin equivalents (in the dictionary form) with the following meaning:

1) ear 2) child 3) head 4) voice 5) quick 6) short 7) many 8) lacrimal sac

2. Compose one-word terms with the dictionary form with the following meaning:

1) specialist studying the man in the process of his evolution 2) results of quantitative and qualitative examination of blood 3) any kind of pain affecting a joint 4) any morbid condition or abnormal growth of the hair 5) the origin and development of bone marrow 6) a person with an unusually small size of head 7) acute inflammation of the gray matter of the brain 8) calculus on the teeth

3. Write down the Latin dictionary form and give the full definition of the following terms in English:

1) iatrogenic 2) psychiatrist 3) apnea 4) phlebography 5) erythema 6) megaduodenum 7) galactostasis 8) typhlocele

4. Give the dictionary form of each word and the full definition of italicized words; translate into Latin the multiword terms:

1) acquired immune deficiency syndrome 2) secondary glaucoma 3) replantation of the left hand 4) partial *ophthalmoplegy* 5) chemical burn of the oesophagus 6) *dropsy* of the gall bladder 7) monostotic fibrous *dysplasia* 8) benign lymphocytic *meningitis*

LATIN–ENGLISH VOCABULARY

A

abdōmen, ĩnis n abdomen

abscessus, us m an accumulation of pus circumscribed in a cavity produced by tissue disintegration, abscess

achlorhydria, ae f complete lack of free hydrochloric acid in the gastric juice, achlorhydria

acūtus, a, um acute

adenalgia, ae f a painful condition of a gland, adenalgia

adenasthenia, ae f functional deficiency in a gland, adenasthenia

adenocarcinōma, ātis n

a carcinomatous tumor of glandular epithelium and connective tissue, adenocarcinoma

aërobion, i n a microorganism which utilizes and assimilates atmospheric oxygen during growth, aerobe, aerobion

aetiologĭcus, a, um aetiologic, based on the aetiology — the science of the investigation of the cause or origin

aliēnus, a, um foreign

allergĭcus, a, um allergic

alopecia, ae f loss of hair, alopecia

amenorrhoea, ae f the pathological absence or stoppage of the menstrual discharge from the uterus, amenorrhoea

amnesia, ae f loss of memory of varying degree, amnesia

anaërobion, i n a microorganism which is able to exist and multiply being deprived of either free oxygen or air, anaerobe

anaesthesiolōgus, i m a specialist in the administration of anaesthetics, anaesthesiologist

angiopathia, ae f any disease of blood vessels, angiopathy

anthropogēnus, a, um caused by human activities

anthropologia, ae f science studying the man in the process of his evolution, anthropology

anthropolōgus, i m specialist studying the man in the process of his evolution, anthropologist

apodia, ae f congenital absence of feet, apodia

arteria, ae f artery

arthromalacia, ae f softening of the joints, arthromalacia

asthenia, ae f loss of vital forces, asthenia

autohaemotherapia, ae f a method of treatment in which the patient's own blood is administered to him, autohaemotherapy

autopepsia, ae f the process of spontaneous disintegration of cells and tissues resulting from the action of intracellular enzymes, autopepsia

avulsio, ōnis f the forcible removing a portion from a hollow structure, avulsion

B

bacteriālis, e bacterial, originating or derived from, belonging to or consisting of bacteria

benignus, a, um benign

biologia, ae f science studying forms of life and living organisms, biology

blepharĭtis, itĭdis f inflammation of the eyelids, blepharitis

blepharoplastĭca, ae f a plastic operation to restore an eyelid, blepharoplasty

brachycephālus, i m an individual with disproportionately short head, brachycephalic
brachydactylia, ae f a condition in which there are abnormally short fingers or toes, brachydactylia
bradyphagia, ae f slowing of swallowing, bradyphagia
bradypnoë, ës f an abnormally slow rate of breathing, bradypnoea
broncholithiāsis, is f the condition in which calculi occur in the lumen of bronchial tubes, broncholithiasis

C

cadāver, ěris n a corpse; a lifeless human body
calcūlus, i m a solid pathological concretion, usually of inorganic matter, formed in any part of the body, calculus
carcinōma, ātis n a malignant epithelial tumor, carcinoma
carcinomatōsis, is f the condition in which carcinoma is widely distributed throughout the body, carcinomatosis
cardiogēnus, a, um cardiogenic, arising because of the heart
cardiolōgus, i m a specialist treating heart diseases, cardiologist
cerēbrum, i n cerebrum
cervix, icis f cervix
cholecystītis, itīdis f inflammation of the gallbladder, cholecystitis
chondropathia, ae f any disease affecting a cartilage, chondropathy
chronīcus, a, um chronic, long continued
chylothōrax, ācis m the condition in which there is an effusion of the lymph into the thoracic cavity, chylothorax
colpotomia, ae f any cutting operation on the vagina, colpotomy

combustio, ōnis f burn, an injury caused by heat or by chemical or physical agents having an effect similar to heat, combustion
commotio, ōnis f a concussion or a violent shaking of a structure, concussion
congelatio, ōnis f frostbite, a local morbid condition caused by freezing, congelation
congenītus, a, um congenital
continuus, a, um continued
cor, cordis n heart
cornea, ae f cornea
corpus, ōris n body
craniometria, ae f measurement of the skull, craniometry
cryochirurgia, ae f surgical procedures in which tissue is destroyed by freezing, cryosurgery
cryotherapia, ae f the science of the use of cold as a therapeutic measure, cryotherapy
cryptophthalmia, ae f congenital adhesion of the eyelids so that the eyeballs can not be seen, cryptophthalmia
cystorrhagia, ae f haemorrhage from the urinary bladder, cystorrhagia
cystoschīsis, is f a congenital fissure of urinary bladder, cystoschisis

D

dacryostenōsis, is f narrowing or stricture of the duct of the lacrimal gland, dacryostenosis
dactylospasmus, i m spasmodic contraction of a finger or toe, dactylospasm
decapsulatio, ōnis f surgical removal of a capsule or sheath, decapsulation
deformans, ntis deforming

dermatomycōsis, is f a generic term for all cutaneous infections due to fungi, dermatomycosis

dermatōsis, is f any disease of the skin, dermatosis

descensus, us m the sinking down or protrusion of a viscus or its part, descent

desmorrhēxis, is f rupture of a ligament, desmorrhēxis

desmurgia, ae f the science of applying ligatures or bandages to a part, desmurgy

dexter, tra, trum right

diabētes, ae m anyone of a group of diseases in which there is polyuria and a disturbed metabolism, diabetes

diabetīcus, a, um diabetic, suffering from or relating to diabetes

diagnōsis, is f medical denotation of the disease from which a person suffers, diagnosis

digītus, i m finger, toe

disarticulatio, ōnis f separation or amputation in a joint, without cutting through bone, disarticulation

dolichocephalia, ae f the state of having a relatively long skull, dolichocephalia

duodēnum, i n duodenum

dysgeusia, ae f impairment or perversion of the sense of taste, dysgeusia

dysthyreōsis, is f imperfect functioning of the thyroid gland, dysthyreosis

E

ectopia, ae f a morbid congenital malposition or traumatic displacement of an organ or part, ectopia

embryologia, ae f the branch of biological science which is concerned with the origin and development of the embryo from the ovum to the stage of extrauterine life, embryology

embryotomia, ae f dissection of an embryo or fetus, embryotomy

empyēma, ātis n a collection of pus in a cavity, empyema

encephalogramma, ātis n any X-ray film obtained in the radiological examination of the ventricles and subarachnoid space of the brain, encephalogram

enterocolītis, itīdis f an inflamed condition of the small intestine

and the colon, enterocolitis

erosio, ōnis f any superficial destructive process, erosion

erythropenia, ae f a state in which there are too few erythrocytes, erythropenia

evisceratio, ōnis f removal of the contents of an organ or part, evisceration

extractio, ōnis f the act or process of drawing out a wing part of body or foreign body, extraction

F

faciālis, e facial

facies, ēi f face

febris, is f fever

fetor, ōris m a foul odour or stench, fetor

G

galactorrhoea, ae f an excessive flow of milk, galactorrhoea

gaster, tris f stomach

gastrocēle, es f hernia of the stomach or of a portion which has become pouched, gastrocele

gastrorrhoea, ae f the secretion by the stomach of an abnormally large quantity of gastric juice or of mucus, gastrorrhoea

gastrospasmus, i m an involuntary contraction of the stomach muscle, gastrospasm

gastrostōma, ātis n natural or artificial gastric fistula, gastrostoma
geriāter, tri m a specialist treating diseases of the aged, geriatrician
glandūla, ae f gland
gingivālis, e gingival
glossoplegia, ae f paralysis of the tongue, glossoplegia
glycaemia, ae f a condition in which the circulating blood contains a quantity of sugar above normal amounts, glycaemia
granulōma, ātis n a tumour composed of granulation tissue, granuloma
gravīda, ae f a woman who is pregnant, a gravida
gynaecolōgus, i m a specialist for treatment genital diseases in women, gynecologist

H

haemarthrōsis, sis f extravasation of blood into a joint, haemarthrosis
haematologia, ae f branch of medicine studying blood and its diseases, hematology
halitōsis, is f fetid or offensive breath, halitosis
hemianopsia, ae f (= hemianopia, ae f) loss of half the vision in each eye, hemianopsia (hemianopia)
hemicrania, ae f a periodic morbid condition with localized headaches, hemicrania
hemiplegia, ae f paralysis of one half of the body, hemiplegia
hepar, ātis n liver
herpes, ētis m inflammation of the skin or mucous membrane, with clusters of deep-seated vesicles, herpes
hidradenītis, itīdis f inflammation of the sweat glands, hidradenitis
histolýsis, is f spontaneous dissolution of living organic tissue, histolysis

hydromētra, ae f an accumulation of watery fluid in the cavity of the uterus, hydrometra
hyperaemia, ae f an excess of blood in any part of the body, hyperaemia
hyperkeratōsis, is f hypertrophy of the stratum corneum of the skin, hyperkeratosis
hyperthermia, ae f very high body temperature, hyperthermia
hypochylia, ae f a condition in which the amount of gastric juice is lessened, hypochylia
hyposalivatio, ōnis f a condition in which there is abnormal decrease in the secretion of saliva, hyposalivation
hypotonia, ae f lessened tension in any body structure, hypotonia

I

iatrogēnus, a, um happening because of the physician's manner or injudicious remarks, iatrogenic
implantatio, ōnis f the introduction of one tissue or structure into another with the aim of improving the function of any part of the body, implantation
implantātum, i n any piece of tissue for use as a graft, implant
indigestio, ōnis f any disturbance of the normal process of digestion, indigestion
infarctus, us m a wedge-shaped area of dead tissue, with or without haemorrhage, produced by the obstruction of an end artery, infarction
infectio, ōnis f the invasion of a pathogenic organism into the body and its subsequent multiplication, infection
inflammatio, ōnis f inflammation

insufficiētia, ae f the state of being inadequate to perform normal function, insufficiency

intestīnum, i n intestine

inversus, a, um inverse

iris, ĩdis f iris

K

keratotomia, ae f making an incision into the cornea, keratotomy

L

labiālis, e labial

laparogastrostomia, ae f the operation to create an artificial opening in the stomach, laparogastrostomy

laparoscopia, ae f the act or process of examining the peritoneal cavity and its contents by means of a laparoscope, laparoscopy

larynx, yngis m larynx

latens, ntis hidden

leucocytōsis, is f an increase in the total number of leucocytes in the blood, leucocytōsis

ligamentum, i n ligament

lipuria, ae f the presence of an oily emulsion or fat in the urine, lipuria

lumbālis, e lumbal

lymphangiōma, ātis n a tumor formed of lymphatic tissue, lymphangioma

lymphostāsis, is f cessation of the flow of lymph, lymphostasis

M

maculōsus, a, um maculate, marked by maculae

mastogramma, ātis n result of breast X-ray examination, mastogram

megacōlon, i n a condition in which there is great dilatation of the large intestine, megacolon

melanoderma, ātis n a condition in which there is an unusually large accumulation of melanin in the skin, melanoderma

melanōsis, is f an abnormal deposition of the black pigment (melanin) in the skin or other tissues, melanosis

mellitūs, a, um (diabētes) mellitus (diabetes) characterized by a high level of blood sugar

menalgia, ae f painful menstruation, menalgia

meningiōma, ātis n a meningeal tumor, thought to arise from the arachnoidal villi, meningioma

mesenterīcus, a, um mesenteric

metamorphōsis, is f change of form or structure, metamorphosis

microgenia, ae f a condition in which the chin is of unusually small size, microgenia

micromyelia, ae f general reduction in size of the spinal cord, micromyelia

micronychia, ae f small nail or nails, micronychia

monodactylismus, i m a congenital condition in which one finger or toe only is present on the hand or the foot, monodactylism

morbus, i m disease

myasthenia, ae f weakness of muscles from whatever cause, myasthenia

myelītis, itīdis f inflammation of bone marrow, myelitis

myocēle, es f hernia of a muscle, myocele

myoplegia, ae f paralysis of muscle or a condition in which is decreased muscular force, myoplegia

N

necropneumonia, ae f gangrene of the lung, necropneumonia

neonātus, a, um s newly born child

neoplasma, ātis n any new and morbid formation of tissue, neoplasm

nephrolithiāsis, is f a condition characterized by the presence of gravel or of renal calculi, nephrolithiasis
nervus, i m nerve
neuralgia, ae f a painful affection of the nerves, due to functional disturbances or to neuritis, neuralgia
neurītis, itīdis f inflammation of a nerve, neuritis
neuropatholōgus, i m a specialist treating diseases of nervous system, neuropathologist

O

occipitālis, e occipital
ocūlus, i m eye
odontolīthus, i m calculus on the teeth, odontolith
odontogenēsis, is f the origin and formative development of teeth, odontogenesis
oligocytaemia, ae f a condition in the blood in which there is cell deficiency, oligocytaemia
oligophrenia, ae f congenital lack of the mentality, oligophrenia
oncolōgus, i m a specialist treating tumors, oncologist
onychomycōsis, is f infection of nails caused by a fungus, onychomycosis
ophthalmoscopia, ae f instrumental-visual examination of the eye, ophthalmoscopy
os, oris n mouth
osteītis, itīdis f inflammation of bone due to infection or injury, osteitis
osteōma, ātis n an innocent tumor of bone, osteoma
osteomalacia, ae f softening of the bones, osteomalacia
osteonecrōsis, is f death of bony tissue, osteonecrosis

osteopathia, ae f disease of bones, osteopathia
osteoporōsis, is f rarefaction of bone, osteoporosis
otorhinolaryngologia, ae f branch of medicine for treating diseases of ear, nose and larynx, otorhinolaryngology

P

pachydactylia, ae f abnormal thickening of a finger or toe, pachydactyly
palatoplegia, ae f paralysis affecting the soft palate, palatoplegia
palpatio, ōnis f the method of physical examination in which the hands are applied to the surface of the body, so that by sense of touch information is obtained about the condition of inner organs, palpation
pantalgia, ae f pain affecting all parts of the body, pantalgia
partialis, e partiāl
percussio, ōnis f the art of striking the thoracic or abdominal wall in order to produce sound vibration from which the nature of the underlying structures can be assessed, percussion
perfōrans, ntis perforating
pes, pedis m leg
phlebocarcinōma, ātis n a malignant epithelial tumour affecting a vein, phlebocarcinōma
photophobia, ae f abnormal intolerance to light, photophobia
phrenīcus, a, um phrenic
phthisiāter, tri m a specialist treating tuberculosis, phthisiotherapist
physiologia, ae f science studying normal vital processes in human body, physiology

phytotherapia, ae f method of treatment by means of medical plants, phytotherapy

planus, a, um plane

pneumocentēsis, is f lung puncture in order to aspirate the contents of a cavity, pneumocentesis

pneumoēmpyēma, ātis n the presence of pus and gas within the pleural space, pneumoēmpyema

poliomyelītis, itīdis f an acute inflammation of anterior horn cells of the spinal cord due to polioviruses, poliomyelitis

polymastia, ae f the state in which in human beings there are more than two distinct mammary glands, polymastia

polypus, i m a tumor with a stalk arising from mucous membranes or the body surface, polyp

polyuria, ae f increase in the amount of the excreted urine, polyuria

proctolōgus, i m a specialist treating diseases of rectum, proctologist

prognathia, ae f a condition in which there is abnormal projection of one or both jaws, prognatism

prolapsus, us m the sinking down or protrusion of a viscus or its part, prolapse

prophylaxis, is f the art of preventing disease, prophylaxis

pseudoarthrōsis, is f a false joint formed between the fragments of a fractured bone which have failed to unite, pseudarthrosis

psychiatria, ae f branch of medicine treating mental diseases, psychiatry

psychōsis, is f any kind of mental disorder, psychosis

puerperālis, e puerperal

punctio, ōnis f the operation of piercing a viscus or a swelling either to establish the nature of its content or to empty it, puncture

pyelītis, itīdis f inflammation of the pelvis of the kidney, pyelitis

pyogēnus, a, um forming or producing pus, pyogenic

pyopneumothōrax, ācis m an inflammatory condition characterized by the presence of purulent fluid and gas in a pleural cavity, pyopneumothorax

pyosalpinx, ngis f inflammation of the uterine tube which has progressed to pus formation, pyosalpinx

R

rectum, i n rectum

renālis, e renal

replantatio, ōnis f the plantation of a removed part of the whole again, replantation

resectio, ōnis f surgical removal of a part, usually of some magnitude, e. g. jaw, stomach, colon etc., resection

rhinogramma, ātis n X-ray film of the nose, rhinogram

ruptūra, ae f the breaking or forcible disruption of continuity of the bone or an other structure, rupture

S

salpingectomy, ae f excision of a uterine tube, salpingectomy

salpingolysis, is f breaking-down of adhesions in a uterine tube, salpingolysis

sarcōma, ātis n a malignant tumor of connective tissue or its derivatives, sarcoma

sclerōma, ātis n an area of indurated tissue, particularly in the mucous membrane of the nose or larynx, scleroma

sectio, ōnis f the act of cutting, section

sectio cadavēris a post - mortem examination of dead body

senīlis, e senile

simplex, ĭcis simple

situs, us m position, site

sive or

somatologia, ae f branch of anthropology, studying structure of human body, somatology

spasmophilia, ae f a morbid state in which there is a tendency to convulsions and spasm, spasmophilia

spasmus, i m a sudden, powerful, involuntary contraction of muscle, spasm

sphygmogramma, ātis n a record of the arterial pulse waves, sphygmogram

splanchnosclerōsis, is f hardening of any viscus, splanchnosclerosis

splenomegalia, ae f enlargement of the spleen, splenomegalia

spondylītis, itīdis f inflammation of the spine, spondylitis

spondylodēsis, is f the operation of fusion of the spine, usually by a bone graft, spondylodesis

spongiōsus, a, um spongy (spongy), full of small holes, like a sponge

stenothōrax, ācis m a short, narrow thorax or chest, stenothorax

stomatomycōsis, is f any morbid condition of the oral cavity caused by a microscopical fungus, stomatomycosis

stomatoscopia, ae f visual-instrumental examination of the oral cavity, stomatoscopy

syndrōmum, i n a distinct group of signs which form a characteristic clinical picture of the disease, syndrome

T

tachycardia, ae f rapid action of the heart, tachycardia

tenorrhaphia, ae f an operation for the suturing of the divided ends of a tendon, tenorrhaphy

tenotomia, ae f the cutting of a tendon, tenotomy

thermālis, e thermal

thermotherapia, ae f the use of heat in the treatment of disease, thermotherapia

thoracocentēsis, is f a puncture of the wall of the thorax with the aim of any diagnostic, thoracocentesis

thrombocytopoēsis, is f the formation of blood platelets, thrombocytopoiesis

thrombotīcus, a, um characterized or caused by thrombosis, thrombotic

thyroideus, a, um thyroid

thyr(e)otoxicōsis, is f any toxic condition attributable to hyperactivity of the thyroid gland, thyrotoxicosis

toponeurōsis, is f localized neurosis, a functional derangement in any part of the body, toponeurosis

toxicomania, ae f an insane desire for poison, toxicomania

toxicōsis, is f the pathological condition caused by the adsorption of poison, toxicosis

transplantātum, i n a piece of tissue to transfer from one site to another, transplant

traumaticus, a, um traumatic

typhlectasia, ae f dilatation of the caecum, typhlectasia

U

ulcus, ěris n ulcer

unguis, is m nail

uraemia, ae f the condition which is associated with the retention of metabolic products in the blood and disturbance of acid-base ratio of the latter, uraemia

uranoschĭsis, is f cleft palate, a congenital fissure in the midline of the hard palate, uranoschisis

utĕrus, i m uterus

V

venōsus, a, um venous

verrūca, ae f wart

verus, a, um true

viscus, ěris n the internal organs of the body which are closely related to the great serous cavities:

pleural, pericardial or peritoneal

vitium, i n a defect or a vice

X

xanthopsia, ae f a disturbance of color vision, when everything appears yellow, xanthopsia

xanthōsis, is f yellowish discoloration, especially of the skin, xanthosis

xerophthalmia, ae f a morbid condition of eyes characterized by a shrunken appearance of the conjunctiva, xerophthalmia (=xeroma)

ENGLISH-LATIN VOCABULARY

A

- an abnormally long colon of normal diameter, dolichocolon**
dolichocōlon, i n
- abnormally rapid breathing, tachypnoea** tachypnoë, ës f
- abnormal narrowing of the mouth, stenostomy**
stenostomia, ae f
- abnormal narrowing of the internal diameter of a vessel, angiostenosis** angiostenōsis, is f
- abnormal quickness in eating, tachyphagia** tachyphagia, ae f
- abnormal slowness and weakness of the process of digestion, hypopepsia** hypopepsia, ae f
- abnormal sluggishness of physical movement, bradykinesia**
bradykinesia, ae f
- abnormal thickening of a finger or toe, pachydactyly**
pachydactylia, ae f
- an accumulation of pus in the pericardium, pyopericardium**
pyopericardium, i n
- achylia, absence of acid and pepsin from the gastric juice**
achylia, ae f
- acquired** acquisītus, a, um
- the act or process of drawing out a part of body or a foreign body, extraction** extractio, ōnis f
- acute** acūtus, a, um
- acute inflammation of the gray matter of the brain, polioencephalitis**
polioencephalītis, itīdis f
- adenoma of the eyelid, blepharadenoma** blepharadenōma, ātis n
- adiponecrosis, necrosis affecting the fatty tissue of the body**
adiponecrōsis, is f
- aerobe, a microorganism which utilizes and assimilates atmospheric oxygen** aërobion, i n
- aerobic, requiring gaseous oxygen in order to live**
aërobīcus, a, um
- aglossia, the congenital condition of being without a tongue**
aglossia, ae f
- alimentary** alimentarius, a, um
- allergic** allergīcus, a, um
- amputation, the surgical removal of a limb or a portion of a limb or of any other appendage**
mputatio, ōnis f
- anaemia, changes in the red cells resulting in a reduction in the total amount of blood**
anaemia, ae f
- anaerobe, a microorganism which is able to exist although deprived of free oxygen or air** anaërobion, i n
- anaerobic, able to sustain life without free oxygen**
anaërobīcus, a, um
- angiology, the science of the blood vessels** angiologia, ae f
- angioma, a tumor composed of blood vessels or of lymphatic vessels** angiōma, ātis, n
- anthropologist, a specialist studying the man in the process of his evolution**
anthropolōgus, i m
- aortic** aortīcus, a, um
- apn(o)ea, the cessation in breathing** apnoë, ës f
- arthrocentesis, the surgical procedure of puncturing a joint** arthrocentēsis, is f
- arthralgia, any kind of pain affecting a joint** arthralgia, ae f

atrichia, not having hair atrichia, ae f
atrophy, a condition of general malnutrition from whatever cause atrophia, ae f
atypical atypicus, a, um
autolaryngoscopy, the examination of one's own larynx with a laryngoscope autolaryngoscopia, ae f
autoplasty, the repair of a diseased or injured tissue or organ by material taken from another part of the body autoplastica, ae f
autopsy, post-mortem examination of a body in order to establish the cause of death autopsia, ae f

B

benign benignus, a, um
biopharmaceutics, study of physical and chemical properties of medicinal substances biopharmaceutica, ae f
biopsy, examination for purposes of diagnosis of tissue cut from the living body biopsia, ae f
blepharotomy, incision of an eyelid blepharotomia, ae f
brachyoesophagus, a congenitally short oesophagus brachyoesophagus, i m
bradycardia, slowing of the heart rate bradycardia, ae f
branch of clinical medicine treating rectum diseases, proctology proctologia, ae f
branch of medicine treating diseases of children, paediatrics paediatrica, ae f
breast mamma, ae f
bronchitis, an inflamed condition of the bronchi bronchitis, itidis f
burn combustio, onis f

C

calculosis, the condition in which a number of calculi

are present in any part of the body calculōsis, is f
calculus (plur. calculi), a solid pathological concretion calculus, i m
calculus on the teeth, odontolith odontolithus, i m
cancerogenic (= carcinogenic), producing carcinoma cancerogēnus, a, um
carcinoma, a malignant epithelial tumor carcinōma, ātis n
a carcinoma the fragment of which contains cartilaginous elements, chondroma chondrōma, ātis n
a carcinomatous tumor of glandular epithelium and connective tissue, adenocarcinoma adenocarcinōma, ātis n
cardinal cardinālis, e
cardiogram 1) result of X-ray examination of the heart
 2) graphical picture of heart work cardiogramma, ātis n
cardiography 1) X-ray examination of the heart
 2) graphical recording of heart activity cardiographia, ae f
causing the growth of tumors, oncogenous oncogēnus, a, um
cephalalgia, pain in the head cephalalgia, ae f
cerebral cerebrālis, e
cerebrospinal cerebrospinālis, e
changes in the red cells resulting in a reduction in the total amount of blood anaemia, ae f
chemical chemicus, a, um
cholecystolithiasis, the condition in which there are gall-stones in the gall bladder or bile duct cholecystolithiāsis, is f

chondroporosis, a porous condition of cartilage shown in thinning of cartilage and formation of spaces and sinuses
 chondroporōsis, is f

chronic chronīcus, a, um

a chronic disease of the skin, characterized by the appearance of laminated scales, psoriasis psoriāsīsis, is f

chyluria, the condition in which the urine contains lymph
 chyluria, ae f

closed clausus, a, um

collapse, a state of extreme weakness with physical and mental depression collapsus, us m

colonorrhagia, haemorrhage from the colon colonorrhagia, ae f

colpocystotomy, surgical incision into the urinary bladder through the wall of the vagina
 colpocystotomia, ae f

colpohysteropexy, the operative fixation of the uterus through the vagina colpohysteropexia, ae f

colpomyomectomy, removal of a myoma from the uterus by the vaginal route colpomyomec-tomia, ae f

coma, the state of complete loss of consciousness from which the patient cannot be roused by any ordinary external stimulus coma, ātis n

composite composītus, a, um

a concussion or a violent shaking of a soft structure commotio, ōnis f

a condition characterized by the presence of gravel or of renal calculi, nephrolithiasis
 nephrolithiāsīsis, is f

a condition in which the ability to swallow is lacking, aphagia aphagia

a condition in which the amount of gastric juice is lessened, hypochylia hypochylia, ae f

a condition in which there are abnormally short fingers or toes, brachydactylia
 brachydactylia, ae f

a condition of enlargement of the liver, hepatomegalia
 hepatomegalia, ae f

congelation, frostbite, a local morbid condition caused by freezing congelatio, ōnis f

congenital cleft of a vertebral arch or several arches, spondyloschisis
 spondyloschīsis, is f

congenital fissure of the urinary bladder, cystoschisis
 cystoschīsis, is f

cryosurgery, surgical procedures in which tissue is destroyed by freezing cryochirurgia, ae f

cryptolith, a calculus contained in a crypt cryptolīthus, i m

cryptopsoriasis, hidden, latent psoriasis cryptopsoriāsīsis, is f

cystitis, inflammation of the urinary bladder cystītis, itīdis f

cytology, the science of the form and functions of cells
 cytologia, ae f

D

dacryorrhoea, an excessive flow of tears dacryorrhoea, ae f

deficiency deficientia, ae f

dermatitis, inflammation of the skin dermatītis, itīdis f

desmalgia, pain in a ligament
 desmalgia, ae f

desmotomy, incision of the ligament desmotomia, ae f

diagnosis via examination of iris, iridodiagnostics
 iridodiagnostīca, ae f

didactylism, the congenital condition of having only two fingers on a hand or two toes on a foot didactylismus, i m

diffuse diffūsus, a, um
dilatation of the stomach,
gastrectasia gastrectasia, ae f
direct directus, a, um
a discharge of pus, pyorrhoea
 pyorrhoea, ae f
any disease affecting a joint,
arthropathy arthropathia, ae f
any diseased condition of the
viscera, splanchnopathy
 splanchnopathia, ae f
any disease of skin, dermatosis
 dermatōsis, is f
a disturbance of color vision when
everything appears yellow,
xanthopsia xanthopsia, ae f
dislocation, abnormal
displacement of one bone upon
another in a joint dislocatio, ōnis f
dolichocolon, an abnormally long
colon of normal diameter
 dolichocōlon, i n
dropsy, the abnormal accumu-
lation of fluid in tissue or
cavity space hydrops, ōpis m
dysmenorrhoea, pain occurring in
the back and lower abdomen at
or about the time of the menses
 dysmenorrhoea, ae f
dysplasia, abnormal development
of tissue dysplasia, ae f
dystonia, a state of disordered
tonicity dystonia, ae f
dystrophy, a disorder of the
structure and functions of an
organ or tissue due to perver-
ted nutrition dystrophia, ae f

E

ectopia, a morbid congenital
malposition or traumatic
displacement of an organ or
part ectopia, ae f
eczema, a nocontagious
inflammatory disease of the
skin with much itching and
burning eczēma, ātis n

embolaemia, a condition in which
emboli are present in the blood
 embolaemia, ae f
embryectomy, the surgical
removal of the embryo
 embryectomia, ae f
embryopathology, the branch of
pathology concerned with
defective or abnormal
development of embryo
 embryopathologia, ae f
emphysema, a condition in which
the alveoli of the lungs are
dilated emphysēma, ātis n
encephalomalacia, softening of the
brain encephalomalacia, ae f
encephalopathy, any morbid
condition of the brain
 encephalopathia, ae f
endogenous, having origin within
the organism endogēnus, a, um
endometritis, an inflammation of
the inner mucous membrane
of the uterus endometrītis,
 itīdis f
enophthalmus, recession of the
eyeball into the cavity of the
orbit enophthalmus, i m
enteritis, inflammation of the
mucous membrane of the
intestines enterītis, itīdis f
enterogastritis, inflammation of
the small intestine and the
stomach enterogastrītis, itīdis f
enterolithiasis, the formation of
calculi or concretions in the
intestine enterolithiāsīs, is f
enteromegalia, an unusually large
size of the intestine
 enteromegalia, ae f
the entrance and establishment of
parasites into the body of a
host, invasion invasio, ōnis f
erythema, redness of the skin due
to hyperaemia erythēma, ātis n
evisceration, a removal of the

contents of an organ or part
evisceratio, ōnis f
an excessive flow of milk,
galactorrhea galactorrhoea, ae f
excessive sensitiveness of any
organ or part of the body,
hyperaesthesia hyperaesthesia, ae f
exogenous, belonging to
aetiological factors outside the
organism exogēnus, a, um
eye oculus, i m

F

fetal fetālis, e
femur femur, ōris n
fever febris, is f
fibroma, an innocent tumor composed
chiefly of connective tissue fibrōma,
ātis n
fibrous fibrōsus, a, um
any fluid that has passed through
the membrane of the skin,
transudate transsudātum, i n
the formation of concretions,
lithiasis lithiāsis, is f
fracture, a break in the conti-
nuity of a bone fractūra, ae f
functional functionālis, e

G

galactostasis, arrest or stagnation
in the secretion of milk
galactostāsis, is f
gall bladder vesīca fellea (biliāris)
geminated geminātus, a, um
gerontology, science studying
living processes in the aged
gerontologia, ae f
gigantism, a condition of excessive
tallness gigantismus, i m
glaucoma, a condition of
increased intraocular pressure
and its consequences
glaucoma, ātis n
glossitis, inflammation of the
tongue glossītis, itīdis f
gnathalgia, pain in one or both
jaws gnathalgia, ae f

gnathoschisis, a congenital fissure
in the maxilla gnathoschīsis, is f
goitre, an enlargement of the
thyroid gland struma, ae f

H

haematology, branch of medicine
studying blood and its diseases
haematologia, ae f
haematoma, a tumor or swelling
composed of blood
haematōma, ātis n
haematomyelia, bleeding within
the substance of the spinal
cord haematomyelia, ae f
haematosalpinx, collection and
retention of blood in a uterine
tube haematosalpinx, ngis f
haemogram, results of
quantitative and qualitative
examination of blood
haemogramma, ātis n
haemophilia, a severe hereditary
bleeding disease affecting
males and transmitted by
females haemophilia, ae f
hand manus, us f
hardening of bony spaces,
osteosclerosis osteosclerōsis, is f
headache dolor (ōris m) capītis
hemiatrophy, atrophy only
affecting one half of the body,
or one half of an organ
hemiatrophia, ae f
hepatic hepaticus, a, um
hepatitis, inflammation of the
liver hepatītis, itīdis f
hepatomegalia, a condition of
enlargement of the liver
hepatomegalia, ae f
hereditary hereditarius, a, um
herniation of the uterus,
metrocele metrocēle, es f
hidrosis 1) the process of secreting
sweat 2) abnormally profuse
sweating hidrōsis, is f
hydrarthrosis, a watery effusion

into the cavity of a joint
 hydrarthrōsis, is f
hydrometra, an accumulation of watery fluid in the cavity of the uterus hydromētra, ae f
hyperaesthesia, excessive sensitiveness of any organ or part of the body
 hyperaesthesia, ae f
hyperglycaemia, an excessive amount of sugar in the blood
 hyperglycaemia, ae f
hypersalivation, excessive secretion of saliva
 hypersalivatio, ōnis f
hypertension, high arterial blood pressure hypertensio, ōnis f
hypogalactia, the secretion of too small quantity of milk
 hypogalactia, ae f
hypoglycaemic, relating or belonging to, or bringing about hypoglycaemia, a low blood sugar concentration
 hypoglycaemīcus, a, um
hypomnesia, a weak or defective state of the memory
 hypomnesia, ae f
hypophrenia, feebleness of mind
 hypophrenia, ae f
hypoplasia, underdevelopment of a tissue or part hypoplasia, ae f
hypothermia, deficiency of body heat
 hypothermia, ae f

I

iatrogenic, happening because of the physician's manner or injudicious remarks, iatrogenic
immune immūnus, a, um
immunodeficiency
 immunodeficientia, ae f
impairment of the voice, dysphonia dysphonia, ae f
implant, any piece of tissue used as a graft implantātum, i n
implantation, the introduction of

one tissue or structure into another with the aim of improving the function of any part of the body implantatio, ōnis f
incision of the abdominal wall and excision of the uterus, laparohysterectomy
 laparohysterectomy, ae f
an increase in the total number of leucocytes, leucocytosis
 leucocytōsis, is f
infective infectīvus, a, um
inflammation of the cornea, keratitis keratītis, itīdis f
 ~ **affecting the pelvis of the kidney and the urinary bladder, pyelocystitis**
 pyelocystītis, itīdis f
 ~ **in the nail fold, panaris**
 panaritium, i n
 ~ **of the abdominal muscles, laparomyositis** laparomyosītis, itīdis f
 ~ **of the inner mucous membrane of the uterus, endometritis**
 endometrītis, itīdis f
 ~ **of the liver, hepatitis** hepatītis, itīdis f
 ~ **of the membranes of the brain or spinal cord, meningitis**
 meningitis, itīdis f
injury laesio, ōnis f
intermittent, coming and going at intervals intermittens, ntis
internal internus, a, um
intravenous intravenōsus, a, um
iridodiagnostics, diagnosis via examination of iris iridodiagnostīca, ae f

J

joint articulatio, ōnis f

K

keratomycosis, disease of cornea caused by a fungus
 keratomycōsis, is f

keratoplasty, plastic surgery of the cornea keratoplastīca, ae f
any kind of pain affecting a joint, arthralgia arthralgia, ae f

L

left sinister, tra, trum

lung pulmo, ōnis m

lymphangiitis, inflammation of lymphatic vessels

lymphangiītis, itīdis f

lymphocytic lymphocytīcus, a, um

lymphocytosis, an increase in the number of lymphocytes

lymphocytōsis, is f

M

macrocyte, a red blood cell that is larger than normal

macrocytus, i m

macronychia, excessive length or size of the nails macronychia, ae f

mammogram (= mastogram)

result of breast X-ray

examination mammogramma, ātis n

a malignant tumor of connective tissue or its derivatives,

sarcoma sarcōma, ātis n

mastopathy, any diseased condition of the mammary gland

mastopathia, ae f

measurement the size of pelvis in women, pelvimetry

pelvimetria, ae f

a medical practitioner skilled in general surgery, who

specializes in the operative treatment of diseases of the

nervous system, neurosurgeon neurochirurgus, i m

medical spedialis treating diseases of inner organs

therapeutista, ae m

megaloduodenum, duodenum of abnormally large size

megaloduodēnum, i n

megalomania, a mental condition in which a person has

grandiose delusions about himself and his own intellect, power, importance and so on

megalomania, ae f

melanocarcinoma, a darkly pigmented malignant epithelial tumor

melanocarcinōma, ātis n

a meningeal tumor thought to arise from the arachnoidal villi, meningioma meningiōma, ātis n

menalgia, painful menstruation

menalgia, ae f

meningitis, inflammation of the membranes of the brain or spinal cord

meningiītis, itīdis f

meningoencephalitis, an inflammatory condition of the brain and its meninges

meningoencephalītis, itīdis f

metastasis, the transfer of disease from its primary site to distant parts of the body by blood vessels, lymphatics or direct

contiguity metastāsis, is f

micromastia, abnormal smallness of the mammary glands

micromastia, ae f

microsphygmy, diminished strength of pulse

microsphygmia, ae f

monocytopoiesis, the production of monocytes in the bone marrow

monocytopoēsis, is f

monopathophobia, fear of a particular disease

monopathophobia, ae f

monostotic, pertaining to a single bone monostotīcus, a, um

any morbid condition affecting the lungs, pneumopathy

pneumopathia, ae f

any morbid condition of the nose, rhinopathy rhinopathia, ae f

any morbid condition or abnormal growth of the hair,

trichopathy trichopathia, ae f
myelocyaemia, the presence of myelocytes in the blood
myelocyaemia, ae f
myopia, short sight myopia, ae f

N

narcosis, stupor produced by drugs and tending to insensibility and paralysis
narcōsis, is f
narrowing or stricture of the duct of the lacrimal gland, dacryostenosis dacryostenōsis, is f
necraemia, a condition in which the blood loses its vitality necraemia, ae f
nearthrosis, an artificial joint implanted by the surgical operation nearthrōsis, is f
a neoplasm originating in embryonic elements or blighted ovum, embryoneoplasm
embryoneoplasma, ātis n
nephrogenic, produced by or originating in a kidney
nephrogēnus, a um
nephropathy, disease of the kidney nephropathia, ae f
neurogenic, happening because of the nervous system neurogēnus, a, um

O

odontogenic, relating to the development of the teeth
odontogēnus, a, um
odontome, a solid or cystic tumour occurring in the jaws which is derived from cells conserved in tooth development odontōma, ātis n
oedema, the presence of excessive amounts of fluid in the intercellular tissue spaces of the body oedēma, ātis n
oesophagostenosis, narrowing of the oesophagus
oesophagostenōsis, is f
oesophagostoma, any opening into the oesophagus apart from the

normal entrance and exit
oesophagostōma, ātis n
oesophagus oesophāgus, i m
oligodactylia, a congenital deficiency of fingers, or toes
oligodactylia, ae f
oncologist, a specialist treating tumorous diseases oncolōgus, i m
oncotherapy, the treatment of tumours oncotherapia, ae f
onychodystrophy, malformation of the nails due to impaired nutrition onychodystrophia, ae f
open apertus, a, um
operation operatio, ōnis f
the operation for the relief of hernia and the resultant reduction of the latter, herniotomia herniotomia, ae f
the operation of removal of the adenoid growth by excision, adenotomy adenotomia, ae f
the operation of transference of a tissue of an organ from one place to an other with the aim of improving or renewing a function, transplantation
transplantatio, ōnis f
ophthalmoplegy, palsy (paralysis) of the ocular muscles
ophthalmoplegia, ae f
ophthalmorrhaxis, rupture of the eyeball ophthalmorrhaxis, is f
ophthalmoscopy, instrumental-visual examination of the eye
ophthalmoscopia, ae f
the origin and development of bone marrow, myelogenesis
myelogenēsis, is f
the origin and development of morbid condition, pathogenesis pathogenēsis, is f
the origin, formation and development of body tissue, histogenesis histogenēsis, is f
osteochondrosis, a degenerative

change in bony and cartilage tissues osteochondrōsis, is f
osteodystrophy, a disorder of bone nutrition osteodystrophia, ae f
osteomalacia, softening of the bones osteomalacia, ae f
osteoporosis, rarefaction of bone osteoporōsis, is f
otogenic, happening because of the ear otogēnus, a, um
otolaryngologist, a specialist treating ear and larynx diseases otolaryngolōgus, i m

P

pachycheilia, abnormal thickness or swelling of the lips pachycheilia, ae f
panaris, inflammation in the nail fold panaritium, i n
paralysis affecting the soft palate, palatoplegia palatoplegia, ae f
paralysis, loss of motor strength due to a functional or organic disorder of neural or neuromuscular mechanism paralýsis, is f
paralysis of similar parts on both sides of the body, diplegia diplegia, ae f
paranephritis, an inflammatory condition involving the connective tissue adjacent to the kidney paranephritīs, itīdis f
partial partiālis, e
a pathological condition in which one muscle, one group of muscles or one part of the body is only affected, monoplegia monoplegia, ae f
a pathological condition involving many joints, polyarthropathy polyarthropathia, ae f
pathological softening of cartilage, chondromalacia chondromalacia, ae f
pediatrician, a specialist treating

children's diseases paediāter, tri m
peduncle peduncūlus, i m
pelvic pelvīcus, a, um
pericystitis, inflammation in which the structures around the urinary bladder are affected pericystītis, itīdis f
a person with an unusually small size of head, microcephalus microcephālus, i m
pharmacophobia, morbid fear of taking drugs or medicines pharmacophobia, ae f
pharmacotherapy, science studying drugs and their usage in treating diseases pharmacotherapia, ae f
phlebography 1) radiographic visualization of veins 2) the tracing of the venous pulse by means of a phlebograph phlebographia, ae f
phoniatics (= phoniatriy), the treatment of disorders of speech phoniatria, ae f
phonocardiogram, the record produced by an instrument for recording heart sounds phonocardiogramma, ātis n
photophobia, abnormal intolerance to light photophobia, ae f
phthysiologist, a specialist treating tuberculosis phthysiāter, tri m
phytotherapy, method of treatment by means of medical plants phytotherapia, ae f
plasma, the fluid portion of the blood
in which the blood corpuscles are suspended plasma, ātis n
any plastic operation for repair or reconstruction of the urinary bladder, cystoplasty cystoplastīca, ae f

any plastic surgical operation on the vagina, colpoplasty
colpoplastica, ae f

pneumocentesis, lung puncture in order to aspirate the contents of the cavity pneumocentēsis, is f

pneumoempyema, the presence of pus and gas within the pleural space pneumoempyēma, ātis n

pneumohaemothorax, an accumulation of gas, air and blood in the cavity of the thorax pneumohaemothōrax, ācis m

pneumonia, inflammation of the spongy tissue of the lung
pneumonia, ae f

pneumorrhaphy, the operation of suturing a wound of the lung
pneumorrhaphia, ae f

pneumotomy, the making of an incision into the lung
pneumotomia, ae f

podagra, gout, a disease of the purine metabolism characterized by attacks of arthritis with an associated raised serum uric acid
podāgra, ae f

podalgia, sensation of pain in the foot podalgia, ae f

polioencephalopathy, any pathological condition of the gray matter of the brain
polioencephalopathia, ae f

polyavitaminosis, a morbid condition caused by deficiency of several vitamins
polyavitaminōsis, is f

polyposis, a condition in which the colon is studded with polypi growing from the mucous membrane polypōsis, is f

polypus of the vagina, colpopolypus colpopolŷpus, i m

postoperative postoperatīvus, a, um

primary primarius, a, um

proctodiagnosics, examination of the functional state of the rectum proctodiagnostica, ae f

proctoscopy, instrumental-visual examination of the rectum
proctoscopia, ae f

proctospasm, spasmodic contraction of the rectum
proctospasmus, i m

profuse discharge of mucous fluid from the nose, rhinorrhoea
rhinorrhoea, ae f

prolapse, the sinking down or protrusion of a viscus or its part prolapsus, us m

psychiatrist, specialist treating mental diseases psychiāter, tri m

psychogenic, developing or originating of mental causes
psychogēnus, a, um

psychologist, specialist studying mental activities of a human personality psycholōgus, i m

puncture of the cornea, keratocentesis keratocentēsis, is f

puncture, the operation of piercing a viscus or a swelling either to establish the nature of its content or to empty it
punctūra, ae f; punctio, ōnis f

pyuria, a condition in which pus is present in the urine pyuria, ae f

R

a red blood cell that is larger than normal, macrocyte macrocŷtus, i m

removal of an entire pathological structure, organ or part, amputation amputatio, ōnis f

removal of an entire pathological structure, organ or part, extirpation extirpatio, ōnis f

replantation, the plantation of a removed part of the whole to its site again replantatio, ōnis f

resection, surgical removal of a part, usually of some magnitude, e.g. jaw, stomach, colon etc. resectio, ōnis f
results of quantitative and qualitative examination of blood, hemogram haemogramma, ātis n
retention of the menstrual flow due to congenital or acquired genital canal stenosis, cryptomenorrhoea cryptomenorrhoea, ae f
retina retīna, ae f
rhinolith, a concretion in the cavity of the nose rhinolīthus, i m
rhinopathy, any morbid condition of the nose rhinopathia, ae f
rhinoscopy, instrumental-visual examination of the nose rhinoscopia, ae f
rib costa, ae f
right dexter, tra, trum

S

salpingogram, the radiograph made during the radiographic visualization of the uterus and uterine tubes salpingogramma, ātis n
salpingopexy, surgical fixation of the uterine tube salpingopexia, ae f
sarcomatosis, the condition in which a number of sarcomata develops here and there on the body sarcomatōsis, is f
science studying drugs and their usage, pharmacotherapy pharmacotherapia, ae f
scientist studying normal vital processes in human organism physiologist physiolōgus, i m
sclerodermatitis, inflammation and induration of the skin sclerodermatītis, itīdis f
secondary secundarius, a, um
senile senīlis, e
separation of a tissue as a result of its death, necrosis

necrolýsis, is f
sialolith, a salivary calculus sialolīthus, i m
simple simplex, ĭcis
somatology, branch of anthropology studying structure of human body somatologia, ae f
spasm of the caecum, typhlospasm typhlospasmus, i m
specialist studying forms of life and vital organisms, biologist biolōgus, i m
specialist studying the man in process of his evolution, anthropologist anthropolōgus, i m
medical specialist treating
 ~ ~ ~ **blood diseases, hematologist** haematolōgus, i m
 ~ ~ ~ **children's diseases, pediatrician** paedīāter, tri m
 ~ ~ ~ **ear and larynx diseases, otolaryngologist** otolaryngolōgus, i m
 ~ ~ ~ **inner organs, therapist** therapeutista, ae m
 ~ ~ ~ **mental diseases, psychiatrist** psychiāter, tri m
 ~ ~ ~ **tumorous diseases, oncologist** oncolōgus, i m
 ~ ~ ~ **tuberculosis, phthisiologist** phthisiāter, tri m
splenic splenīcus, a, um
splenohepatomegaly, enlargement of the spleen splenohepatomegalia ae f
spondylopathy, any disease of the vertebrae spondylopathia, ae f
spongiform, having resemblance to a sponge spongiformis, e
a state in which most of the teeth are lacking, oligodontia oligodontia, ae f
a state in which there are too few erythrocytes, erythropenia

erythropenia, ae f
stenosis, narrowing or stricture of an orifice or of the lumen of a hollow or tubular organ
 stenōsis, is f
stomach gaster, tris f
stomatology, branch of clinical medicine treating diseases of the oral cavity stomatologia, ae f
stomatitis, inflammation of the oral cavity stomatītis, itīdis f
subacute, (disease) running a moderately rapid and severe course for which the word acute would not be appropriate
 subacūtus, a, um
subcutaneous subcutaneus a, um
a sudden blocking of a blood vessel, usually an artery, by the emboli, thromboembolism
 thromboēbolismus, i m
superficial superficiālis, e
suppurative, pus-forming
 suppuratīvus, a, um
surgical operation on the small structures with the aid of a microscope, microsurgery
 microchirurgia, ae f
symblepharon, adhesion of the eyelid to the eyeball
 symblephāron, i n
symptom, the consciousness of a disturbance in a bodily function symptōma, ātis n
syndrome, a distinct group of signs which form a characteristic clinical picture of the disease syndrōmum, i n
synphalangism, a condition in which the joints of certain fingers or toes are fused
 synphalangismus, i m

T

tachyphagia, abnormal quickness in eating, tachyphagia
 tachyphagia, ae f

tendon tendo, ĩnis m
tenodesis, operative fixation of a tendon tenodēsis, is f
the presence of air or gas within a thorax, pneumothorax
 pneumothōrax, ācis m
the presence of blood in the tympanic cavity, haemotympanum
 haemotympānum, i n
the presence of blood in the urine, haematuria haematuria, ae f
the production and evolution of form, morphogenesis
 morphogenēsis, is f
the production of urinary calculi and the morbid state due to the presence of calculi in the urinary system, urolithiasis
 urolithiāsis, is f
the rash or eruption on the mucous tissue, enanthema
 enanthēma, ātis n
the surgical establishment of a permanent or semipermanent opening into the urinary bladder, cystostomy
 cystostomia, se f
therapist, specialist for treating diseases of inner organs therapeutista, ae m
thoracometry, measurement of the size of the thorax
 thoracometria, ae f
thromboembolism, a sudden blocking of a blood vessel, usually an artery, by the emboli thromboēbolismus, i m
tenolysis, the freeing of a tendon from adhesions tenolýsis, is f
thrombosis, intravascular coagulation
 during life producing a thrombus
 thrombōsis, is f
tissue textus, us m

tomography, body-section radiography tomographia, ae f
tonsillitis, inflammation of the tonsil tonsillītis, itīdis f
tonsillotomy, the surgical operation for removal of a part of a tonsil tonsillotomia, ae f
topography, the anatomical description of any particular part of the body topographia, ae f
topophobia, unreasoning fear of certain places topophobia, ae f
total or partial surgical removal of diseased lung tissue, pneumonectomy pneumonectomia, ae f
toxicosis, the pathological condition caused by the absorption of poisons toxicōsis, is f
transfusion, the introduction of sterile fluids such as blood, plasma, serum and other solutions into the blood vessels of the circulatory system transfusio, ōnis f
transplantation, the operation of transference of a tissue or an organ from one place to another with the aim of improving or renewing the function transplantatio, ōnis f
traumatic traumātīcus, a, um
treatment by means of medical plants, phytotherapy phytoterapia, ae f
treatment by means of natural or artificial physical factors, physiotherapy physiotherapia, ae f
tuberculosis tuberculōsis, is f
a tumor consisting of connective tissue element, desmoneoplasm desmoneoplasma, ātis n
typhlocele, a hernia involving the caecum typhlocēle, es f

U

ulceration, the process of formation of an ulcer ulceratio, ōnis f
ultrasonic, ultrasound ultrasonarius, a, um
urethritis, inflammation of the urethra urethrītis, itīdis f
use of cold or freezing as a therapeutic measure, cryotherapy cryotherapia, ae f

V

viral virālis, e

X

xerostomia, dryness of the mouth due to failure of the salivary gland xerostomia, ae f
the X-ray examination of the great vessels and the chambers of the heart, angiocardiology angiocardiology, ae f
the X-ray examination of breast, mammography mammographia, ae f

W

a watery effusion into the cavity of a joint, hydrarthrosis hydrarthrōsis, is f
wound vulnus, ěris, n

THE INTERNATIONAL STUDENTS' ANTHEM «GAUDEAMUS»

**Gaudeāmus igītur,
Juvēnes dum sumus!
Post jucundam juventūtem,
Post molestam senectūtem
Nos habēbit humus. (bis)**

Let us rejoice therefore
While we are young!
After a pleasant youth,
After a troubling old age
The earth will have us.

Ubi sunt qui ante nos
In mundo fuēre?
Transeas ad supēros,
Transeas ad infēros,
Hos si vis vidēre. (bis)

Where are they who before us
Were in the world?
You may go up to the gods,
You may cross into the underworld,
If you wish to see them.

Vita nostra brevis est,
Brevi finiētur:
Venit mors velocīter,
Rapit nos atrocīter,
Nemīni parcētur. (bis)

Our life is brief,
It will shortly end:
Death comes quickly,
Snatches us cruelly,
It spares no one.

**Vivat Academia!
Vivant professōres!
Vivat membrum quodlibet,
Vivant membra quaelibet,
Semper sint in flore! (bis)**

Long live the academy!
Long live the teachers!
Long live each student!
Long live all students!
May they always flourish!

**Vivant omnes virgīnes,
Gracīles, formōsae!
Vivant et muliēres,
Tenēre, amabīles,
Bonae, laboriōsae. (bis)**

Long live all girls,
Slender and beautiful!
Long live wives as well,
Tender, loveable,
Good and productive.

**Vivat et Respublīca
Et qui illam regunt!
Vivat nostra civitas,
Maecenātum caritas,
Qui nos hic protēgunt! (bis)**

Long live the state as well
As they who rule it!
Long live our city
[And] the charity of benefactors
Who protect us here!

Pereat tristitia,
Pereant dolōres!
Pereat diabōlus,
Quivis antiburschius
Atque irrisores! (bis)

Let sadness perish,
Let sorrows perish!
Let the devil perish,
Let [perish] whoever who is anti-student
As well those who mock us!

The most popular stanzas nowadays are typed in black type

LATIN PROVERBS AND QUOTATIONS

1. Aes debitōrem leve, grave
inimīcum facit *If you want to keep a friend, never
borrow, never lend*
2. Amīcus certus in re incerta
cernitur *A friend in need is a friend
indeed*
3. Amor non est medicabilis herbis *No herb will cure love*
4. Amor tussisque non celantur *Love and cough cannot be hidden*
5. Aquīla muscas non captat *An eagle doesn't catch the flies*
6. Arte et humanitāte, labōre et
scientia *By art and humanity, by labor and
knowledge*
7. Audiatur et altēra pars *Let's hear the opposite side!*
8. Aurōra Musis amīca *He that will thrive, must rise at
five*
9. Bis dat qui cito dat *He gives twice who gives in a
trice*
10. Bona valetūdo melior est quam
maxīmae divitiāe *Good health is above wealth*
11. Cogitatiōnes posteriōres saepe
sunt meliōres *Second thoughts are the best*
12. Cogito ergo sum *I think, therefore I am*
13. Consuetūdo est altēra natūra *Custom is second nature*
14. Copia non est inopia *Store is no sore*
15. Cum promisēras, facias *Promise is a debt*
16. De gustibus non est
disputandum *Tastes are not to be argued*
17. De mortuis aut bene aut nihil *Speak nothing but good of the
dead*
18. Diabōlus non est tam ater, ac
pingitur *The devil is not so black as he is
painted*
19. Dictum — factum *Said and done*
20. Dies levat lucrum *Time heals most sorrows*
21. Divīde et impēra *Divide and rule*
22. Domus propria domus optīma *My house is my castle
(East or west, home is best)*
23. Dum spiro spero *As long as I breathe, I hope*
24. Duos qui lepōres sequitur,
neutrum capit *If you run after two hares, you will
catch neither*
25. Dura lex sed lex *The law is the law and must be
obeyed*
26. Experientia est optīma magistra
(=Usus est optīmus magister) *Experience is the best teacher*
27. Ebrietas est voluntaria insania *Drunkenness is nothing but
voluntary madness*
28. E cantu dignoscitur avis *A bird may be known by its song*

29.	Equi donāti dentes non sunt inspiciendi	<i>Don't look a gift horse in the mouth</i>
30.	Errāre humānum est	<i>It's human to err</i>
31.	Est avis in dextra melior guam quattuor extra	<i>A bird in the hand is worth one hundred in flight</i>
32.	Facīle dictu, difficīle factu	<i>Easier said than done</i>
33.	Facta, non verba	<i>Better to do well than to say well</i>
34.	Festīna lente	<i>Make haste slowly</i>
35.	Finis corōnat opus	<i>All is well that ends well</i>
36.	Fronti nulla fides	<i>Appearances are deceitful</i>
37.	Fortes fortūna adjūvat	<i>Fortune favours the brave</i>
38.	Homīnes amplius oculis credunt quam auribus	<i>A picture is worth a thousand words</i>
39.	Homo a se ortus	<i>A self — made man</i>
40.	Homo doctus in se divitias habet	<i>The wealth of the mind is the only true wealth</i>
41.	Homo est anīmal sociāle	<i>Man is by nature a political animal</i>
42.	Homo homīni lupus est	<i>Man is a wolf to man</i>
43.	Homo propōnit, sed Deus dispōnit	<i>Man proposes but God disposes</i>
44.	Homo sum, humāni nihil a me alienum esse puto	<i>I am a man, I count nothing human alien to me</i>
45.	Ignorantia non est argumentum	<i>Lack of knowledge is no excuse (= Ignorance is no argument)</i>
46.	In medio stat virtus	<i>Virtue stands in the middle</i>
47.	Ira furor brevis est	<i>Anger is short madness</i>
48.	Labor et patientia omnia vincunt	<i>Diligence is the mother of success</i>
49.	Mala herba cito crescit	<i>Great weeds grow apace</i>
50.	Manus manum lavat	<i>One hand washes the other</i>
51.	Mare verbōrum, gutta rerum	<i>Great boast, small roast</i>
52.	Medīcus curat, natūra sanat	<i>The physician heals, nature convalesces</i>
53.	Mens sana in corpōre sano	<i>A healthy mind in a healthy body</i>
54.	Nemo sine vitio est	<i>No one is without a fault</i>
55.	Ne diffēras in crastīnum	<i>Never put off till tomorrow what you can do today</i>
56.	Ne noceas, si juvare non potes	<i>Do no harm, if you can not help</i>
57.	Nomen est omen	<i>The name is the sign</i>
58.	Ne Juppiter quidem omnibus placet	<i>He who pleased everybody died before he was born</i>
59.	Nihil volenti difficīle est	<i>Anything is possible if you wish hard enough</i>
60.	Non est fumus absque igne	<i>There is no smoke without fire</i>
61.	Non est via in medicīna sine lingua Latīna	<i>There is no way in medicine without Latin</i>
62.	Non scholae, sed vitae	<i>We learn not for school but for life</i>

discimus

63. Nulla aetas ad discendum sera *It is never too late to learn*
64. Nulla regūla sine exceptione *There is no rule without exception*
65. Nulla dies sine linea *Not a day without a line*
66. Nullum malum sine aliquo bono *No great loss without some small gain*
67. Omnia fluunt, omnia mutantur *Everything flows and everything changes*
68. Omnia mea mecum porto *All I have, I carry with me*
69. O tempōra, o mores! *What times! What customs!*
70. Otium post negotium *Work done, have your fun*
71. Pacta sunt servanda *Agreements should be obeyed*
72. Paulātim summa petūntur *Learn to creep before you leap*
73. Per aspēra ad astra *Through the thorns (hard-ships) to the stars!*
74. Pigritia est mater vitiōrum *Idleness is the mother of all evil*
75. Plenus venter non studet libenter *A full stomach is deaf to learning*
76. Potius sero quam nunquam *Better is late than never*
77. Primum noli nocēre *First, do no harm*
78. Principium dimidium totius *Well begun is half done*
79. Procul ex oculis — procul ex mente *Out of sight, out of mind*
80. Quem Deus perdēre vult, dementat prius *Whom God wishes to ruin, he first deprives him of reason*
81. Quidquid latet apparēbit *What is done by night appears by day*
82. Quidquid Latīne dictum sit, altum vidētur *Anything said in Latin sounds profound*
83. Qui non est nobiscum adversus nos est *He that is not with us is against us*
84. Qui quaerit, repērit *He will find who is searching*
85. Qui scribit, bis legit *He who writes reads twice*
86. Qui seminat mala, metet mala *The ill you do will rebound upon you*
87. Qui tacet consentīre vidētur *Silence gives consent*
88. Quod erat demonstrandum *Which was to be proved*
89. Quod licet Jovi, non licet bovi *What Jupiter is allowed to do cattle are not*
90. Quot capīta, tot sententiae *So many men, so many minds*
91. Radīces litterārum amārae, fructus dulces *Whatever is good to know is difficult to learn*
92. Repetitio est mater studiōrum *Repeating is the mother of learning*
93. Saltāre ad tibiam alicūjus *To dance after somebody's tune*
94. Scientia potentia est *Knowledge is power*
95. Scio me nihil scire *I know that I know nothing*
96. Sero venientibus ossa *There is nothing left for the late-comers*

97.	Sine ira et studio	<i>Without ill-will and without favor</i>
98.	Sine labōre non erit panis in ore	<i>No pains, no gains</i>
99.	Si vis amari, ama!	<i>To be loved, love!</i>
100.	Suae quisque fortūnae faber est	<i>Each man is the maker of his own fortune</i>
101.	Sudōre et sanguīne, opera et studio	<i>By blood, toil, tears and sweat</i>
102.	Suis quaeque temporibus	<i>There is a time and place for everything</i>
103.	Suum cuique	<i>To each his own</i>
104.	Tamdiu discendum est, quamdiu discendum vivis	<i>Live and learn</i>
105.	Tantum possūmus, quantum scimus	<i>We can do as much as we know</i>
106.	Temperantia est custos vitae	<i>Excesses destroy our powers</i>
107.	Tempōra mutantur et nos mutāmur in illis	<i>The times change and we are changing with them</i>
108.	Tempōris filia veritas	<i>Truth is a daughter of time</i>
109.	Totus mundus agit histriōnem	<i>All the world's a stage</i>
110.	Ubi concordia ibi victoria	<i>Where is the unity, there is the victory</i>
111.	Umbram suam timēre	<i>He is afraid of his own shadow</i>
112.	Una hirundo non facit ver	<i>One swallow makes no summer</i>
113.	Ut salūtas, ita salutabēris	<i>As the call, so the echo</i>
114.	Verba docent, exempla trahunt	<i>Words are teaching, examples are pulling</i>
115.	Verum amīcum pecunia non parābis	<i>Money cannot buy friendship</i>
116.	Vincuntur molli pectōra dura prece	<i>A word warmly said gives comfort even to a cat</i>
117.	Vox popūli — vox Dei	<i>The voice of the people is the God's voice</i>

MEDICAL PROFESSIONAL EXPRESSIONS

1. Abactus venter *Artificially induced abortion*
2. Abalienatio mentis *Insanity; mental derangement*
3. Ad aurem (ad aur.) *At the ear*
4. Ad libitum (ad lib.) *At pleasure, freely*
5. Ad usum externum (inter-
6. num) *To be taken externally (internally); for external (in-
ternal) use*
7. Alienatio partis *Gangrene*
8. Alternis diēbus (alt. d.) *Every other day*
9. Alternis horis (a. h.) *Every other hour*
10. Ante meridiem (a. m.) *Morning, before noon*
11. Ante mortem *Before death*
12. Ante partum *Before childbirth*
13. Ante prandium (a. p.) *Before dinner*
14. Auris dextra (a. d.) *Right ear*
15. Auris laevis (sinistra)
(a. l., a. s.) *Left ear*
16. Aures utrae *Both ears*
17. Bipāra *A woman who has had born two children at
separate births*
18. Bis in die (b. i. d.) *Twice a day*
19. Compos mentis *Of sound mind*
20. Dolōres vagi *Wandering pains*
21. Facies hippocratīca *The appearance of a dying person
described by Hippocrates: a pale or livid
face with dull sunken eyes, pinched
nose, hollow cheeks and temples, open
mouth and dropped lower jaw*
22. Habitus aegrōti *The general physical appearance
of a diseased person; habit*
23. Horrīda cutis
(= cutis anserīna) *Goose flesh*
24. Impotentia coēundi *Sexual impotence in the male*
25. Impotentia erigendi *Sexual impotence due to lack of the
power of erection of the penis*
26. Impotentia generandi *Inability to reproduce*
27. In articūlo mortis *At the instant of death*
28. In extrēmīs *At the point of death*
29. In situ *1. In the normal, natural or original position
2. In a given place*
30. Inter alia *Among the other*
31. In utēro *Within the uterus*
32. In vacuo *In a vacuum*
33. In vitro *Within a glass vessel; applied to changes*

	<i>taking place in the test - tube method of investigation</i>
34. In vivo	<i>Within the living organism</i>
35. Intra vitam	<i>During life</i>
36. Locum tenens	<i>A medical practitioner who acts as deputy for another</i>
37. Locus minōris resistantiae	<i>The place of least resistance (an organ or tissue most likely to be a particular disease)</i>
38. Lusus natūrae	<i>A teratism or other freak of nature</i>
39. Malum aegyptīcum	<i>Diphtheria (literally — Egyptian evil)</i>
40. Malum arteriārum senīle	<i>Senile arteriosclerosis (literally — senile evil of arteries)</i>
41. Malum cadūcum	<i>Epilepsy (literally — falling evil)</i>
42. Malum venereum	<i>Syphilis (literally — venereal evil)</i>
43. Minīmum audibīle	<i>The auditory threshold; the least sound that can be heard</i>
44. Minīmum cognoscibīle	<i>The visibility threshold for recognizing shapes</i>
45. Minīmum sensibīle	<i>The threshold of consciousness</i>
46. Muscae volitantes	<i>The appearance in the fields of vision of variously shaped figures caused by defect of the vitreous humor (literally — flying flies)</i>
47. Noli - me - tangere	<i>An old but colorful name for rodent ulcer (literally — do not touch me)</i>
48. Non compos mentis	<i>A person who is not sufficiently sound of mind to manage his own affairs</i>
49. Nostrum	<i>A quack remedy or a medicine the ingredients of which are kept secret</i>
50. Nullipāra	<i>A woman who has not given birth to a child</i>
51. Ocūlus dexter (OD, o. d.)	<i>Right eye</i>
52. Omnībus alternis horis (o. alt. hor.)	<i>Every other hour</i>
53. Omni mane (o. m.)	<i>Every morning</i>
54. Omni nocte (o. n.)	<i>Every night</i>
55. Per rectum (p. r.)	<i>Per rectum (through the rectum)</i>
56. Post meridiem (p. m.)	<i>Evening or afternoon</i>
57. Post mortem	<i>After death</i>
58. Post partum	<i>After childbirth</i>
59. Post prandium	<i>After dinner</i>
60. Potentia coeundi	<i>The capacity to have sexual intercourse</i>
61. Potentia concipiendi	<i>The capacity to conceive</i>
62. Potentia generandi	<i>The power to beget children</i>
63. Primigravīda	<i>One who is pregnant for the first time</i>
64. Primipāra	<i>A woman who has had one child</i>

65.	Prognōsis anceps	<i>An uncertain prognosis</i>
66.	Prognōsis fausta	<i>A good prognosis</i>
67.	Prognōsis infausta	<i>An unfavorable prognosis</i>
68.	Prognōsis quoad vitam	<i>An opinion as to whether the patient will live</i>
69.	Pro ratiōne aetātis (p. r. aet.)	<i>According to age</i>
70.	Pro re nata (p. r. n.)	<i>Occasionally, when required</i>
71.	Pubertas plena	<i>The attainment of full sexual maturity</i>
72.	Pubertas praecox	<i>Puberty occurring at an abnormally early age</i>
73.	Quantum libet (=quantum placet)	<i>As much as you please</i>
74.	Quaqua hora (q. q. h.)	<i>Every hour</i>
75.	Quater in die (q. i. d.)	<i>Four times a day</i>
76.	Secundigrāvīda	<i>A woman who is pregnant for the second time</i>
77.	Secundipāra	<i>A woman who has had 2 children, in two different pregnancies</i>
78.	Status asthmaticus	<i>A severe and continuous attack of asthma in which there is marked dispnoea and finally exhaustion and collaps</i>
79.	Status convulsīvus sive epilepticus	<i>Repeated and prolonged epileptic seizures without recovery of consciousness between attacks</i>
80.	Status praesens	<i>The present condition</i>
81.	Ter de die (t. d. d.)	<i>Thrice a day</i>
82.	Unipāra	<i>A woman who has given birth once only</i>
83.	Vis conservātrix	<i>The innate strength of an organism enabling it to withstand disease</i>
84.	Vis medicātrix natūrae	<i>The natural ability of the organism to prevail over disease without external assistance</i>
85.	Vis vitae (vitālis)	<i>The life force</i>

LITERATURE

1. *Англо-русский* медицинский словарь : более 90 000 терминов / [Сост. И. Ю. Марковина, Е. В. Бабченко, З. К. Максимова и др.]. Москва : Медицинское информационное агенство, 2008. 896 с.
2. *Волмянская, О. А.* Англо-русский словарь для специалистов-медиков / О. А. Волмянская. Минск : Асар, 2000. 304 с.
3. *Международная* анатомическая номенклатура (с официальным списком русских эквивалентов) / Под ред. Л. Л. Колесникова. Москва : Медицина, 2003. 424 с.
4. *Русско-англо-латинский* словарь крылатых слов и выражений / сост. А. С. Альбов. Москва : АСТ ; Санкт-Петербург : Сова, 2006. 606 с.
5. *Цисык, А. З.* Латинский язык = The Latin Language : учеб.-метод. пособие А. З. Цисык. 2-е изд. Минск : БГМУ, 2015. 212 с.
6. *Цисык, А. З.* Латинский язык (Lingua Latina) : учебник / А. З. Цисык. Минск : Новое знание, 2018. 456 с.
7. *polyglotta.* Медицинская терминология на пяти языках. / G. Arnaudov. София : Медицина и физкультура, 1979. 943 с.
8. *Butterworths Medical Dictionary.* 2nd ed. London ; Boston ; Sydney ; Wellington ; Durban ; Toronto : Butterworth, 1979. 1942 p.
9. *Kondratiev, D.* Latin and Fundamentals of Medical Terminology for Medical Students / Д. К. Кондратьев, О. Е. Вылегжанина, Ю. В. Князева. Гродно : Гр. ГМУ, 2005. 250 с.
10. *Stadman's Medical Dictionary.* 25th ed. Baltimore ; Hong Kong ; London ; Sydney : Williams and Wilkins, 1989. 1751 p.

CONTENTS

Preface	3
Introduction to the subject.....	3
Part I. Phonetic rules of pronunciation.....	7
Lesson 1 the latin alphabet. The pronunciation of vowels, consonants and letter combinations	7
§ 1. Latin alphabet.....	7
§ 2. Division of latin sounds	8
§ 3. Pronunciation of vowels.....	8
§ 4. Pronunciation of two vowel combination	8
§ 5. Pronunciation of consonants	9
§ 6. Pronunciation of consonant combinations	10
§ 7. Pronunciation of some letter combinations.....	10
§ 8. Exercises.....	11
Lesson 2. Accent rules	12
§ 9. Accent in the words consisting of two syllables	12
§ 10. Accent in polysyllabic words. Length and brevity of the second end syllable.....	12
§ 11. Long suffixes.....	13
§ 12. Short suffixes.....	13
§ 13. Suffixes with similar quality of vowel in all parts of medical terminology .	13
§ 14. The way of accent determination when the second end vowel is not a part of a long or a short suffix.....	14
§ 15. Some rules of syllable length determination.....	14
§ 16. The rules of syllable brevity.....	14
§ 17. Exercises.....	15
Part ii. Anatomical terminology	17
Lesson 3. The structure of latin anatomical terms. Noun and its grammar categories	17
§ 18. The latin terminology in anatomy and its structure	17
§ 19. Grammar categories of noun.....	17
§ 20. Dictionary form of nouns	18
§ 21. The stem of the noun and the way to determine it.....	19
§ 22. Description of declensions	19
§ 23. Exercises.....	20
§ 24. Vocabulary to lesson 3	21
Lesson 4. Adjectives and their dictionary form. Adjective and noun agreement.....	22
§ 25. Introductory information about adjectives in latin.....	22
§ 26. 1st group of adjectives	23
§ 27. 2nd group of adjectives	24
§ 28. Adjective and noun agreement.....	25

§ 29. Exercises	26
§ 30. Vocabulary to lesson 4.....	27
Lesson 5. Degrees of comparison of adjectives. Peculiarities of the use of comparative and superlative degrees in anatomical terms.....	29
§ 31. Introductory remarks to the topic.....	29
§ 32. The comparative degree.....	29
§ 33. Comparative forms in anatomical terminology	30
§ 34. The superlative degree	31
§ 35. Peculiarities of the use of the comparison degrees of the adjectives magnus, a, um and parvus, a, um in latin anatomical terminology	31
§ 36. Exercises	33
§ 37. Vocabulary to lesson 5.....	34
Lesson 6. The masculine gender in the third declension of nouns. Names of muscles performing different functions	35
§ 38. Masculine names in the third declension from the point of view of their endings in the nominative and the genitive.....	35
§ 39. Some explanations to the exceptions presented in the table.....	36
§ 40. Latin names of muscles performing different functions.....	36
§ 41. Exercises	37
§ 42. Vocabulary to lesson 6.....	37
Lesson 7. The feminine gender in the third declension of nouns	39
§ 43. Systematization of the feminine names in the third declension	39
§ 44. Exercises	40
Lesson 8. The neutral gender in the third declension of nouns	42
§ 46. Systematization of the neutral names of the third declension	42
§ 47. Some explanations concerning the nouns having similar endings but different gender and declension	43
§ 48. Exercises	44
§ 49. Vocabulary to lesson 8.....	44
Lesson 9. Nominative plural of nouns and adjectives	46
§ 50. Nominative plural endings of nouns and adjectives.....	46
§ 51. Abbreviations of nominative plural forms used in anatomical terms.....	47
§ 52. Exercises	47
§ 53. Vocabulary to lesson 9.....	48
Lesson 10. Genitive plural of nouns and adjectives	49
§ 54. Genitive plural endings of nouns and adjectives	49
§ 55. Exercises	51
§ 56. Vocabulary to lesson 10.....	51
Lesson 11. Accusative singular and plural of nouns and adjectives. Prepositions used with the accusative.....	52
§ 57. Accusative singular and plural endings	52
§ 58. Prepositions used with the accusative.....	53

§ 59. Exercises.....	54
§ 60. Vocabulary to lesson 11	55
Lesson 12. Ablative singular and plural of nouns and adjectives. Prepositions used with the ablative	56
§ 61. Ablative and its formation.....	56
§ 62. Prepositions used with the ablative	57
§ 63. Exercises.....	57
§ 64. Vocabulary to lesson 12	58
Lesson 13. Prefixes in anatomical terminology	59
§ 65. Prefixation in the word building	59
§ 66. Prefixes in anatomical terminology	59
§ 67. Greek and latin numerals as prefixes	61
§ 68. Exercises.....	62
§ 69. Vocabulary to lesson 13	62
§ 70. Model (sample) of the final test in anatomical terminology.....	64
Latin–english vocabulary	65
English–latin vocabulary.....	70
Part III. Pharmaceutical terminology	75
Lesson 14. Introduction to latin pharmaceutical terminology	75
§ 71. General information on latin pharmaceutical terminology.....	75
§ 72. The drug form names	76
§ 73. Components of medical plants	77
§ 74. Medicinal plants in pharmaceutical terms	77
§ 75. The morphological structure of one-word latin drug names.....	78
§ 76. Some rules of building multiword pharmaceutical terms	79
§ 78. Vocabulary to lesson 14	80
Lesson 15. Latin in the medical prescription. Standard verb forms indicating order and instructions in making up the latin part of prescription. General rules of making up the latin part of prescription.....	81
§ 79. Current use of latin in medical prescription.....	81
§ 80. The imperative verb forms used in a simple medical prescription	81
§ 81. The conjunctive forms in medical prescription	82
§ 82. The structure of a complex medical prescription.....	83
§ 83. Some peculiarities of quantityexpression in a medical prescription.....	84
§ 84. Some important rules for making up the latin part of a medical prescription	84
§ 85. Morphological roots of plant origin indicating alkaloids and glycosides with different pharmaceutical effects	84
§ 86. Exercises.....	85
§ 87. Vocabulary to lesson 15	85
Lesson 16. The use of the accusative of some pharmaceutical forms in the first line of a medical prescription	87

§ 88. General information on the use of the accusative of the pharmaceutical forms in a medical prescription.....	87
§ 89. The prescription of tablets in the accusative form.....	88
§ 90. The prescription of deagees in the accusative form.....	88
§ 91. The prescription of ophthalmic films.....	89
§ 92. The prescription of medical sponges	89
§ 93. The prescription of suppositories in the accusative case	90
§ 94. The prescription of aerosols in the accusative case	90
§ 96. Exercises	91
§ 97. Vocabulary to lesson 16.....	92
Lesson 17. Latin names of chemical elements, acids, oxides, hydroxides, peroxides	94
§ 98. Latin names of chemical elements.....	94
§ 99. Latin names of acids	95
§ 100. Latin names of oxides, hydroxides, peroxides.....	96
§ 101. Morphological roots reflecting chemical information	96
§ 102. Exercises	96
§ 103. Vocabulary to lesson 17	98
Lesson 18. Latin names of salts on the labels of drug names and in medical prescriptions	100
§ 104. Latin names of salts, whose anions contain oxygen	100
§ 105. Latin names of salts whose anions do not contain oxygen.....	100
§ 106. Anion names of basic salts.....	101
§ 107. Two-component names of potassium and sodium salts	101
§ 108. Morphological roots reflecting pharmaceutical information.....	101
§ 109. Exercises	102
§ 110. Vocabulary to lesson 18.....	103
§ 111. Model (sample) of the final test in pharmaceutical terminology.....	105
Latin–english vocabulary.....	107
English–latin vocabulary.....	Ошибка! Закладка не определена.
Part IV. Clinical terminology.....	113
Lesson 19. Introduction to latin clinical terminology. One-word terms and their morphological structure. Initial and final morphological elements used for word building. Names of branches of medicine and medical specialists.	
Names of medical examinations	113
§ 112. General remarks on latin clinical terminology	113
§ 113. The morphological structure of one-word clinical terms	113
§ 114. Some notes on the word stressing in clinical names.....	115
§ 115. Initial and final root elements	115
§ 116. Names of the main branches of clinical medicine	115
§ 117. Names of medical specialists	116
§ 118. Some notes on the names of medical specialists in latin and english.....	117

§ 119. Names of medical examinations and methods of treatment	117
§ 120. Table of initial root elements	118
§ 121. Table of final root elements	118
§ 122. Exercises.....	119
§ 123. Vocabulary to lesson 19	120
Lesson 20. One-word names of function disorders, pathological processes and abnormal conditions	122
§ 124. One-word names of functional disorders	122
§ 125. One-word names of pathological processes and abnormal conditions.....	123
§ 126. Initial greek roots and their latin equivalents.....	124
§ 127. Table of final root elements	125
§ 128. Exercises.....	125
§ 129. Vocabulary to lesson 20	126
Lesson 21. Names of qualitative and quantitative abnormalities in morphological structures and physiological processes	129
§ 130. Increase and decrease in different quantitative conditions	129
§ 131. Increase or decrease in dimension of anatomical and histological structures	130
§ 132. Increase and decrease in the quantity of anatomical and histological structures	130
§ 133. Table of initial root elements	130
§ 134. Table of final roots	131
§ 135. Exercises.....	132
§ 136. Vocabulary to lesson 21	132
Lesson 22 names of inflammatory processes which occur in organs and tissues. Names of abnormalities in the states of physiological fluids.....	135
§ 137. Names of inflammatory conditions.....	135
§ 138. Names of morbid conditions of physiological fluids.....	136
§ 139. Table of initial roots	137
§ 140. Table of final roots	138
§ 141. Exercises.....	138
§ 142. Vocabulary to lesson 22	139
Lesson 23. One-word names of endogenous pathological changes and malformations.....	142
§ 143. Names of abnormal adhesions and fissures	142
§ 144. Names of pathological cavities	142
§ 145. Names of tumors	143
§ 146. Names of concretions	144
§ 147. Names of abnormal hardening and softening of tissues	144
§ 148. Table of initial roots	145
§ 149. Table of final roots	145
§ 151. Vocabulary to lesson 23	147

Lesson 24 names of deformations of tissue caused by exogenous factors.	
Names of surgical operations	149
§ 152. General names of tissue deformations caused by different exogenous factors.....	149
§ 153. Names of surgical operations.....	150
§ 154. Prefixes widely used in surgical names	151
§ 155. Table of initial roots.....	151
§ 156. Table of final roots.....	152
§ 157. Exercises	152
§ 158. Vocabulary to lesson 24.....	153
Lesson 25. Multiword clinical terms. Part № 1	157
§ 159. The structure and vocabulary of multiword clinical terms.....	157
§ 160. Exercises	157
§ 161. Vocabulary to lesson 25.....	157
Lesson 26. Multiword clinical terms. Part № 2	160
§ 162. Exercises	160
§ 163. Vocabulary to lesson 26.....	160
Lesson 27. Multiword clinical terms. Part № 3	162
§ 164. Exercises	162
§ 165. Vocabulary to lesson 27.....	163
§ 166 model (sample) of the final test in clinical terminology.....	164
Latin–english vocabulary.....	165
English-latin vocabulary	174
The international students’ anthem «Gaudeamus».....	187
Latin proverbs and quotations.....	188
Medical professional expressions	192
Literature	195

Учебное издание

Цисык Андрей Зиновьевич

ЛАТИНСКИЙ ЯЗЫК

THE LATIN LANGUAGE

Учебно-методическое пособие

На английском языке

3-е издание, переработанное

Ответственная за выпуск Н. А. Круглик
Переводчик А. З. Цисык
Компьютерный набор З. В. Позняк
Компьютерная верстка А. В. Янушкевич

Подписано в печать 11.10.18. Формат 60×84/16. Бумага писчая «Снегурочка».

Ризография. Гарнитура «Times».

Усл. печ. л. 11,74. Уч.-изд. л. 10,16. Тираж 200 экз. Заказ 708.

Издатель и полиграфическое исполнение: учреждение образования
«Белорусский государственный медицинский университет».

Свидетельство о государственной регистрации издателя, изготовителя,
распространителя печатных изданий № 1/187 от 18.02.2014.

Ул. Ленинградская, 6, 220006, Минск.