ENGLISH MASTERING ACTIVITIES FOR DENTAL STUDENTS

МИНИСТЕРСТВО ЗДРАВООХРАНЕНИЯ РЕСПУБЛИКИ БЕЛАРУСЬ БЕЛОРУССКИЙ ГОСУДАРСТВЕННЫЙ МЕДИЦИНСКИЙ УНИВЕРСИТЕТ КАФЕДРА ИНОСТРАННЫХ ЯЗЫКОВ

УПРАЖНЕНИЯ ПО АНГЛИЙСКОМУ ЯЗЫКУ ДЛЯ СТУДЕНТОВ-СТОМАТОЛОГОВ

ENGLISH MASTERING ACTIVITIES FOR DENTAL STUDENTS

Учебно-методическое пособие

2-е издание, исправленное



Минск БГМУ 2022

УДК 811.111:616.31(075.8) ББК 81.2Англ-923 У66

Рекомендовано Научно-методическим советом университета в качестве учебно-методического пособия 29.06.2022 г., протокол № 6

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Упражнения по английскому языку для студентов-стоматологов = English mastering У66 activities for dental students : учебно-методическое пособие / М. Ю. Ширяева [и др.]. – 2-е изд. испр. – Минск : БГМУ, 2022. – 111 с.

ISBN 978-985-21-1095-2.

Представляет собой комплекс разнообразных упражнений, что позволяет овладеть профессиональной лексикой, привить навыки чтения текстов по специальности и общаться на профессиональные темы. Основная задача издания — совершенствование приобретённых ранее знаний и умений в разных видах речевой деятельности. Первое издание вышло в 2021 году.

Предназначено для студентов стоматологического факультета.

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ПРЕДИСЛОВИЕ

Учебно-методическое пособие «Упражнения по английскому языку для студентов-стоматологов» предназначено для комплексной подготовки студентов стоматологического факультета медицинского вуза.

Издание состоит из 5 тематических разделов, которые носят автономный и в то же время целостный характер: «Анатомия зубов», «Терапевтическая стоматология», «Эндодонтия», «Протезирование» и «Гигиена полости рта».

Основная задача учебно-методического пособия — совершенствование приобретённых ранее знаний и умений в разных видах речевой деятельности на базе отобранного аутентичного материала. При отборе материалов авторы руководствовались принципами практикоориентированности и взаимосвязанного обучения основным видам иноязычной речевой деятельности. Комплекс разнообразных упражнений позволяет студентам овладеть профессиональной лексикой, развить навыки чтения и обсуждения текстов по специальности, а также навыки общения на профессиональные темы.

UNIT I. TOOTH ANATOMY

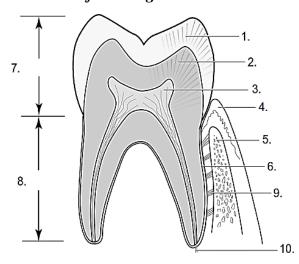
PART I. STRUCTURE OF THE TEETH

LANGUAGE DEVELOPMENT

I. Match the word with its definition:

1. the part above the gum line, the only visible part	a) enamel
2. the hard outer tissue layer covering the root attaching	b) dentine
the surrounding gum tissue to the root of the tooth	
3. the part of the jawbone that surrounds the root of the teeth	c) cementum
4. the outer calcified tissue layer covering the crown of the tooth;	d) dental pulp
it's one of the hardest substances in the body	
5. the soft tissue covering the necks of the teeth	e) gum
6. the inner tissue layer that lies beneath the enamel or cementum	f) apical foramen
7. the center part of the tooth that consists of blood vessels and	g) alveolar bone
nerves that enters the tooth from a hole at the bottom of the root	
8. the region of the tooth that is at the gum line, between the root and	h) periodontal
the crown	ligament
9. a specialized connective tissue that attaches the cementum of	i) crown
a tooth to the alveolar bone	
10. the small opening at the apex of a tooth	j) neck

II. Label the following tooth structures:



Enamel
Cementum
Dentine
Crown
Pulp
Root
Gingiva (Gum)
Periodontal Ligament
Alveolar Bone
Nerve and Blood Vessels

III. Complete the table:

Part	Brief Description	Function
1. crown	_	appearancemaintains proper tooth spacing
2.	- the part of the tooth anchored in the jaw bone	- anchors the tooth

Part	Brief D	escription	Function
3.	- soft tissue		- nourish the tooth
4. enamel	- the outer surface of t	he tooth	-
5.	- hard calcified tissue		- makes up the body of the tooth
6. pulp	-		-
7. cementum	- layer of calcified tiss	ue	-
cementi	word from the box and the box	supporting structure periodontal ligament	attach consists
			ng to 2. the tooth t

V. Fill in the gaps with a suitable word:

of a tooth.

An individual 1	consists of an ex	posed 2.	and a 3.	
buried in the 4.		=		
layer of an especially hard	d substance related to	the bone called	6.	Beneath
the enamel is an intermedia	te layer of material call	ed 7.	, which is als	o similar to
bone but is not nearly as ha	rd as 8. It	surrounds an inne	er pulp cavity	filled with
9. (a living, va	scular and well innerv	ated tissue). Blo	od 10.	and
nerves reach the 11.	through a channel	, called the 12. _	, tha	t penetrates
the root. An additional laye	r of bony material, 13.	, usua	ally surround	s the root.

3. ______ and to allow sensations of touch and pressure. It 4. ______ of the cementum,
5. ______ , alveolar bone, and gingiva. Of these, 6. ______ is the only one that is a part

VI. Read the text. Fill in the blanks with missing words and answer the questions below: The Structure of Teeth

All true teeth have the same general structure and consist of three layers. In mammals an outer layer or the 1. _______, which is wholly inorganic and is the hardest tissue in the body, covers a part or all of the crown of the tooth. The middle layer of the tooth is composed of 2. ______, which is less hard than 3. ______ and similar in composition to bone. The dentine forms the main bulk (основная масса), or core, of each tooth and extends almost the entire length of the tooth, being covered by enamel on the crown portion and by 4. ______ on the roots. Dentine is nourished by the 5. ______, which is the inner portion of the tooth. The pulp consists of cells, tiny blood vessels, and a nerve and occupies a cavity located in the centre of the tooth. The pulp canal is long and narrow with an enlargement, called the pulp 6. ______, in the coronal end. The pulp canal extends almost the whole length of the tooth and communicates with the body's general nutritional and nervous systems through the apical foramina (holes) at the end of the 7. ______. Below the gumline extends the root of

the tooth, which is covered at least partially by 8. The la	atter is similar in
structure to bone but is less hard than dentine. Cementum affords (oбес	печивает) a thin
covering to the root and serves as a medium for attachment of the fibres th	nat hold the tooth
to the surrounding 9 (periodontal membrane). 10	is attached to
the adjacent alveolar bone and to the cementum of each tooth by fibre bund	les.

Answer the questions:

- 1. How many layers are there in a tooth?
- 2. What is the hardest tissue in the body?
- 3. What is the name of the tissue just below the outer layer?
- 4. What is dentine?
- 5. What is the name of the soft center of a tooth?
- 6. What does the pulp consist of?
- 7. How long is the pulp canal?
- 8. What is the main function of cementum?
- 9. What is the name of the soft tissue that surrounds the base of teeth?
- 10. Are you able to retell the text? Do, please.

GRAMMAR PRACTICE

WORD ORDER

Word order in English is strict and inflexible:

Subject (noun/pronoun) + Predicate (verb) + Object + Adverbial Modifier or

Adverbial Modifier of place or time + Subject + Predicate (verb) + Object + + Adverbial Modifier

The lower jaw has its own separate bone, which is called the mandible.

On one side of the root the cementum is attached to the periodontal (gum) ligament.

I. Make sentences from the following words:

- 1. The enamel, is, the white, the tooth, hard, of, covering.
- 2. The crown, that, with, the area, connects, the neck, the root, is.
- 3. The, cementum, at, enamel, the, of, meets, neck, root.
- 4. The, the, blood, contains, and, nerves, dentin, pulp, and, nourishes, vessels.
- 5. Every, into, inserted, is, the, root, jaw, tooth, by, its.

II. Translate the sentences into English:

- 1. Зубная эмаль защитная оболочка зуба и самая твердая ткань в организме человека.
- 2. Все зубы имеют одинаковое строение. В каждом зубе различают три части: коронку зуба, шейку зуба и корень зуба.
 - 3. В середине каждого зуба имеется полость с отверстием на верхушке корня.
 - 4. Под эмалью находится более мягкий слой дентин.
 - 5. Шейка суженная часть зуба, расположенная между коронкой и корнем.

III. Correct the mistake:

- 1. The outer layer of the pulp is with the special cells lined.
- 2. Dental anatomy examines the structures that the teeth of a human being make up.
- 3. The root of the tooth below the cementoenamel junction lies.
- 4. On the other side is the cementum connected to the dentin.

IV. Make your own sentences using the word combinatio	ıons bel	ow:
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- 1. Periodontal membrane ...
- 2. Called gum ...
- 3. The junction of crown and root ...
- 4. Supporting structure ...
- 5. Attached to the socket ...

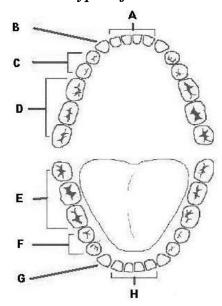
PART II. FIRST AND SECOND DENTITIONS

Preview Test

view	Test			
		Hu	ıman Teeth	
1.	What tissue cove <i>a) enamel;</i>	ers the outer surf b) dentin;		n of the tooth? d) cementum.
2.	How many teeth <i>a)</i> 32;	are there in the b) 10;	primary dentition <i>c)</i> 20;	on? d) 15.
3.	Teeth do not hel a) speaking;	p us in b) breathing;	c) chewing;	d) biting.
4.	How many layer a) 1;	rs are there in a t <i>b) 4;</i>	ooth? c) 2;	d) 3.
5.	Which is not a la <i>a) dentine;</i>	•	c) enamel;	d) pulp.
6.	Canine type of to a) tearing;	eeth helps in b) cutting;	c) chewing;	d) biting.
7.		ue contains the b		ad nerves of the tooth? <i>d) cementum</i> .
8.	How many mola a) 3;	ars are located in b) 6;		d) 12.
9.	Cutting edges ar a) cuspids;	re found on: b) bicuspids;	c) molars;	d) incisors.
10.	The alveolar pro a) is bony; b) supports the c) partially dis d) is a connect e) items a, b, a	e teeth; appears when te ive tissue;	eth are lost;	

LANGUAGE DEVELOPMENT

I. Label the types of teeth:



II. Name the four tooth groups, their functions and location:

Tooth Group	Functions	Location

III. Match the two columns:

- 1. visible part
- 2. outer covering
- 3. soft tissue
- **4.** supporting structures
- 5. bundle of fibres
- **6.** periodontal ligament
- 7. teeth eruption
- 8. cusps
- 9. adjacent tissues
- 10. to attach
- 11. incisor, canine, molar
- 12. to replace deciduous teeth
- **13.** resorption of roots
- 14. a complete dentition
- **15.** the crown of the tooth
- **16.** the root of the tooth

- а) бугорки
- **b**) видимая часть
- с) выдерживать жевательную нагрузку
- **d)** замещать молочные зубы
- е) корень зуба
- **f**) коронка зуба
- g) мягкая ткань
- **h**) наружная оболочка
- і) периодонтальная связка
- **j**) поддерживающие структуры
- **k**) полный зубной ряд
- l) прилегать
- **m**) прилегающие ткани
- **n**) прорезывание зубов
- о) пучок фиброзных волокон
- р) рассасывание корней

- **17.** the neck of the tooth
- **18.** crevices and fissures
- **19.** to withstand the masticatory load
- **q**) резец, клык, моляр
- **r**) шейка зуба
- s) щели и трещины (фиссуры)

IV. Choose a word from the box and complete the text:

deciduous teeth premolars teeth central incisors occurring erupt lateral incisors recognized broad dentition
--

Primary Dentition

These are the first teeth	to 1 into the oral cavit	ty. There is a 2
range of normal times for 3	to push through the gum	tissue into the mouth. For
primary teeth, the 4	_ are the first teeth to erupt, 5.	at about 6 months
of age. By about $2\frac{1}{2}$ years of	age, all the primary teeth can usu	ally be seen in the child's
mouth. The primary 6	is comprised of 20 teeth. Ofter	these teeth are referred to
as 7 In each arc	ch of the mouth, there are two centr	al and two 8 ,
two canines, and four molars.	The teeth are usually 9	by a letter of the alphabet
beginning with "A" (Maxillary	y right second molar) and ending w	vith "T" (Mandibular right
second molar). There are no 10). and third molars in t	he primary dentition.

V. Fill in the blanks with missing words and answer the questions:

When do wisdom teeth erupt and why are they recommended to be removed?

Wisdom Teeth

	Wisdom teeth, which are included among the 1	l, are the final four
2	that most adults develop. These 3	are located in the very 4
of the	e mouth, two in the upper and two in the 5	arches. Wisdom teeth typically
6	during the teen years but can develop at	any time. It also is not unusual for
wisdo	om teeth to be impacted (below the 7.)	and not erupt at all. Not all wisdom
teeth	8. extraction. However, due to the	risk of overcrowding, infection or
misal	lignment, the dentist may determine that the wisdom	teeth should be removed.

VI. Match the word with its definition:

1.	the surface of a posterior tooth facing the cheeks	a)	occlusal
2.	the surface of a tooth that is closest or next to the tongue	b)	labial
3.	the surface of a tooth that faces the lips or cheeks; includes the labial and	c)	palatal
	buccal surfaces		
4.	the parts of the occlusal surface that are raised	d)	incisal
5.	the surface of a tooth that faces the midline	e)	distal
6.	the surface of anterior teeth facing the lips	f)	cusps
7.	any area on the biting surfaces of the front teeth	g)	buccal
8.	the surface of a tooth that is closest or next to the tongue, but on the upper	h)	facial
	teeth		
9.	the surface of a tooth that is away from the midline	i)	mesial
10	the chewing / biting surface of posterior teeth	j)	lingual

VII. Study the word cloud attentively. Choose a noun for each adjective. Make sentences with the words that don't have a pair.



VIII. Fill in the blanks with missing words:

Tooth Surfaces

	• •	s important to name the tooth individual
surfaces. The surfaces a	are named according to their 1	1 in the oral cavity and also
their uses. The number	of surfaces of a tooth is differ	rent for 2. and posterior teeth.
Anterior teeth are	those closer to the 3.	and comprise central incisors,
lateral incisor and 4	Anterior teeth hav	ve 5. surfaces — labial (lip),
palatal 6. (_) and lingual 7. (_), mesial and distal — and one edge —
8. edge.		
Posterior teeth are	those away from the 9.	and comprise 10
and 11 Po	osterior teeth have 12.	surfaces: buccal 13. (),
palatal and lingual, mes	ial, distal and occlusal.	

GRAMMAR PRACTICE

TYPES OF QUESTIONS

Dentine protects the inner part of the tooth.			
1. <i>Does</i> dentine protect [§] the inner part of the tooth?	General		
2. <i>Does</i> dentine protect the inner or outer part of the tooth?	Alternative		
3. Dentine protects the inner part of the tooth, doesn't it?	Disjunctive (tag)		
4. What does protects the inner part of the tooth?	To the subject		
5. What does dentine protect ^{\$} ?			
Who = she, he, it \rightarrow verb+ S			

I. Match the items in column A to the ones in column B to make correct sentences:

Column A

Column B

- 1. Permanent teeth typically erupt in pairs,
- **a)** with the tongue to help you swallow food
- **2.** The microscope shows that enamel
- **b**) the purpose of cutting and tearing food.
- **3.** Each tooth in the mouth contains
- c) in that they may have more than one root.

- **4.** Deciduous incisors and canines are replaced
- **5.** The anterior teeth are designed for
- **6.** Posterior teeth differ from anterior teeth
- 7. After the deciduous teeth loosen,
- **8.** Molars work closely
- **9.** Tooth development in children is individualized
- **10.** The first baby teeth to loosen are the top

- **d)** they are shed and are soon replaced by eruption of their permanent successors.
- e) and often in a predictable order
- f) front teeth (central incisors) around age 6.
- **g**) four different tissues that serve different functions.
- **h)** and eruption times will vary.
- i) by permanent teeth of the same name.
- j) consists of long solid rods, called prisms.

II. Make 5 questions (general, alternative, tag, special, to the subject):

- 1. People have two sets of teeth in their lives.
- 2. The eight incisors cut food by their edges.
- 3. Primary molars are replaced by permanent premolars.
- 4. Cementum meets enamel at the neck of the tooth.
- 5. Children will have between 28 and 32 permanent teeth.

III. Make sentences from the following words:

- 1. The, or, teeth, the, pointed, eye-teeth, between, the, and, canines, are, premolars, long, incisors.
 - 2. Molar, cusps, teeth, have, each, or, more, four.
 - 3. The, and, vessels, of, tooth, nerves, the, called, the, blood, are, pulp.
 - 4. The, alveolar, ligament, the jaw, attaches, the roots, to, the, bone, periodontal, of.
- 5. Most, are, visible, with, no, babies, born, teeth the, are, inside, teeth, gums, forming, the.

IV. Fill in the blanks with correct prepositions:

1.	Primary teeth fall and are replaced 32 permanent teeth.				
2.	Blood vessels and nerves reach the pulp cavity the root canal.				
3.	What is the term front teeth?				
4.	The crown is coated enamel to protect the dentin and pulp				
bacteria.					
5.	The enamel is primarily made calcium phosphate minerals.				
6.	6. After canines there are two premolars each side of the mouth				
both the	top and bottom.				
7.	Cementum forms a protective layer the root portion of the dentin.				
8.	The pulp chamber is located the crown.				
9.	birth the baby has a full set of 20 primary teeth hidden				
the gums	S				
10.	The part of the tooth that you can see the gum is called the crown.				

PART III. THE JAWS

LANGUAGE DEVELOPMENT

I. Match the word with its definition:

1.	the roof of the mouth separating the mouth from the nasal cavity	a)	maxilla
2.	the posterior more or less vertical part on each side of the lower jaw	b)	mandible
	that articulates with the skull		
3.	a rounded prominence at the end of a bone, most often for articulation	c)	palate
	with another bone		
4.	the triangular anterior process of the mandibular ramus, giving	d)	sinus
	attachment to the temporal muscle		
5.	the central bone of the midface	e)	mastication
6.	a hollow cavity in the skull	f)	ramus
7.	the only movable cranial bone	g)	condyle
8.	the process of grinding and chewing food into smaller pieces in	h)	mandibular
	the oral cavity		foramen
9.	an opening on the internal surface of the ramus of the mandible for	i)	coronoid
	divisions of the mandibular nerve and blood vessels to pass through		process
10.	the joint between condylar head of the mandible and the mandibular	j)	TMJ
	fossa of the temporal bone		

II. Match the two columns:

1.	Much the two countris.		
1.	buccal	a)	верхнечелюстная пазуха
2.	palatal	b)	верхняя челюсть
3.	tongue	c)	височно-нижнечелюстной сустав
4.	normal occlusion	d)	вращательные движения
5.	maxilla	e)	выступающая челюсть
6.	mandible	f)	жевательные мышцы
7.	to be attached	g)	мыщелок
8.	rotary movements	h)	небный
9.	muscles of mastication	i)	нижняя челюсть
10.	saliva	j)	правильный прикус
11.	a prominent jaw	k)	прикрепляться
12.	a hard palate	l)	слюна
13.	a maxillary sinus	m)	твердое небо
14.	. condyle	n)	шечный

III. Fill in the blanks with missing words:

15. a temporomandibular joint

Jaw, either of a pair of 1	$_{\perp}$ that form the framewo	ork of the 2. of
vertebrate animals, usually containing 3	and includin	g a movable 4.
jaw 5. () and fixed 6.	jaw 7. (). Jaws function by
moving in opposition to each 8.	and are used 9.	biting, chewing,
and the handling of 10		

о) язык

IV. Choose a word from the box and complete the text:

halves	mandible	central
bones	mandible	midline
alveolar	cranial	skull
aircolai	maxillae	Skutt
	The Lower Jaw	
The left and right 1.	of the lower iaw.	or 2. , begin originally
		ear of life the two bones fuse at
		part on each side is the body
		ly is the 7. margin,
		The projecting chin, at the lower
		nctive characteristic of the human
9. On either side of	of the chin is the mental f	oramen, an opening for the mental
branch of the 10. r	nerve, the third division of	the fifth cranial nerve.
V. Choose a word from the bo	ox and complete the text:	
form	membrane	surface
cheeks	bottom	functions
muscular	speech	swallowed
teeth	flexible	chewing
lingual	taste	functions
	The Tongue	
The tongue is a 1.	organ in the mouth with	h several 2 It is attached
	_	s underside called the 5.
	~	papillae, the tiny nodules or bumps
that include the 7.	buds.	
		nt it also facilitates 9,
digesting, swallowing and spea	king. The tongue is very	10. With the help of
		12. so it can be properly
	•	the teeth to 14 certain
15. patterns, making	g speech possible.	
GRAMMAR PRACTICE		
ACT	TIVE VOICE AND PASSIVE	CVOICE
Active voice		
	molars replace deciduous	molars.
Passive voice	_	
	To be + Participle II	
Deciduo	ous molars are replaced b	y premolars

I. Make correct passive sentences using the prompts below. Make any changes if necessary:

- 1. The alveolar process / make up / of several bony layers.
- 2. The body of the maxilla / shape / like a four-sided, hollow pyramid.
- 3. Canines / use by / some species as weapons in fighting.
- 4. The periodontal ligament / also call / the periodontal membrane.
- 5. Dentine / make of / living cells, which secrete a hard mineral substance.

II. Choose the correct verb form:

1. The teeth (are held, is held, held, hold) within the jaw bones and serve several important functions beyond allowing you to chew. 2. The crown of a tooth (is covered, are covered, covered, coveres) with the enamel. 3. The deciduous teeth (are replaced, replaced, is being replaced, be replaced) by permanent teeth. 4. The deciduous teeth also (are called, is called, called, call) "baby" or "milk" teeth. 5. The maxilla and the mandible (contain, contains, are contained, be contained) the same number and types of teeth. 6. The first permanent teeth (will appear, appeared, are appearing, appear) at six. 7. Each tooth (was divided, will be divided, is divided) into three parts: a crown, a neck, a root. 8. The roots of teeth (are embedded, were embedded, will be embedded) in the sockets of the jaw. 9. The upper teeth usually (are formed, form, will form) a wider arch therefore overlap the lower ones. 10. The bulk of each tooth (compose, is composed, will compose) of a hard substance called dentine.

III. Put the verbs in brackets into the correct active or passive tense:

- 1. The first temporary, or deciduous, set (*know*) as milk teeth.
- 2. Each tooth (*have*) a pulp cavity at the center that (*fill*) with connective and lymphatic tissue, nerves, and blood vessels.
 - 3. Each tooth (*compose*) of a crown, a neck, and a root.
 - 4. A tooth may (*have*) multiple roots or just one root (single-rooted teeth).
 - 5. The normal color of enamel (*vary*) from light yellow to grayish white.
- 6. Primary teeth (*start*) to form between the sixth and eighth weeks in utero, and permanent teeth begin to form in the twentieth week in utero. If teeth (*not start*) to develop at or near these times, they (*not develop*) at all.
- 7. A significant amount of research (*focus*) on determining the processes that initiate tooth development.
- 8. The periodontal ligament is a specialized connective tissue that (*attach*) the cementum of a tooth to the alveolar bone.
 - 9. The alveolar bone (be) the bone of the jaw which (form) the alveolus around teeth.
- 10. Baby teeth (*be*) as important as permanent teeth because they hold space in the jaw for the coming permanent teeth that still (*develop*) under the gums.

IV. Rewrite the sentences in the Passive Voice:

- 1. The periodontal ligament attaches the root to the alveolar processes of the jaws.
- 2. The articular disc covers the condyle.
- 3. The root supports the tooth in the jawbone.
- 4. The pulp forms the central soft part of each tooth.
- 5. Dentine occupies the interior of the crown and root

- 6. The presence of large cusps on pre-molar and molar teeth marks the main difference between them and the front teeth.
 - 7. The body and the ramus compose the mandible.
 - 8. Ligaments do not move the joint; muscles move it.
 - 9. Reflexes usually control the coordinated movements of the right and left joints.
 - 10. As with the maxillae, an alveolar process surrounds the tooth roots.

V. Write questions to which the words in bold are the answers:

- 1. In many species, **incisors** are used as pincers for picking food.
- 2. Wisdom teeth are included **among the molars**.
- 3. The body of the mandible is located in the anterior part of the lower jawbone.
- 4. Eruption is completed at 18 to 25 years of age.
- 5. The teeth are usually recognized **by a letter of the alphabet** beginning with "A" and ending with "T".

FOLLOW-UP ACTIVITIES

I. Match the word with its definition:

1.	the surface of a tooth that faces away from the midline of the face	a)	lingual
2.	it surrounds the teeth and covers the jaw bone, creating a protective	b)	occlusal
	barrier		
3.	the biting edge of anterior teeth	c)	enamel
4.	the chewing surface of posterior teeth	d)	distal
5.	makes up the protective outer surface of the crown of the tooth	e)	dentin
6.	it makes up the majority of the inner part of the tooth. It cannot normally be seen except on X-rays	f)	buccal
7.	the area inside the tooth that holds the nerves and blood vessels of the tooth	g)	canines
8.	it makes up the outer surface of the root of the tooth; it is much softer than enamel	h)	mesial
9.	these teeth are located distal to the lateral incisors and form the corners of the mouth	i)	pulp
10.	the surface of a tooth that is closest to the midline (middle) of the face	j)	cementum
11.	the surface of a posterior tooth facing the cheeks	k)	incisal edge
12.	the large teeth with four cusps located in the back of the mouth	l)	neck
13.	the surface of an anterior tooth facing the lips	m)	gingiva
14.	the surface of a tooth facing the tongue	n)	molars
15.	the junction of the crown and root	0)	labial

II. Give the synonyms to the following:

Deciduous, masticate, mandible, appear / teeth, gingiva, antrum, cuspids, bicuspids, anterior teeth, back teeth, eye-teeth, alveolar bone, adult tooth.

III. Choose the correct preposition:

A. The alveolar mucosa consists **1.** (of, on, at, in) the tissue **2.** (inside, outside) the cheeks, vestibule [the space **3.** (among, between) the lips or cheeks and the teeth], lips,

soft palate, and **4.** (*above*, *under*, *on*, *inside*) the tongue. This tissue is more movable and is lightly attached **5.** (*to*, *in*, *at*, *by*) the underlying bone and muscles. Its texture is smooth and its color is red to bright red.

B. The gingiva, also known as gum tissue, surrounds the teeth and can be attached **1.** (*to*, *in*, *at*, *by*) the underlying bone (attached gingiva) or unattached (free gingiva). When healthy, the gingiva should be firm and well adapted **2.** (*to*, *in*, *at*, *by*) the teeth. Its texture appears similar **3.** (*of*, *to*, *on*, *for*) an orange peel. The colour of healthy gingiva depends **4.** (*to*, *on*, *of*, *by*) the pigmentation of each person, but **5.** (*at*, *in*, *on*, *at*) general it should appear light pink.

vestibule — преддверие

IV. Make 5 questions (general, alternative, tag, special, to the subject) to each sentence:

- 1. The mandibular first molar has five functional cusps.
- 2. Every tooth consists of a crown and one or more roots.
- 3. The crown is the part visible in the mouth.
- 4. Enamel cannot undergo repair.
- 5. The mandibular second molars are arranged similarly to those of the mandibular first molars.

V. Make sentences:

- 1. Pulp, tooth, a, of, the, located, beneath, is, the, layer, dentine, tissue.
- 2. The, front, the, teeth, first, incisors, central, are, to, permanent, erupt.
- 3. Teeth, specific, and, shapes, in, have, different, the, functions, chewing, process.
- 4. The, is, called, bone, the, alveolar, alveolar, also, process.
- 5. Cementum, the, that, tissue, the, of, root, the, very, covers, in, a, thin, layer, is, tooth.
 - 6. Every, root, inserted, into, tooth, is, jaw, the, by, its.

VI. Dental word scramble:

1. NRISSOCI	9. DEDUOCISU EHTET
2. ASNNCEI	10. TDNEIN
3. PAEX	11. OCNWR
4. OORT	12. LPUP
5. UTEMMCNE	13. SCPUS
6. LOEASUVL	14. CISBIDSPU
7. MAENEL	15. LASRMO
8. MOWDIS EETHT	16. MAPNNEERT ETHTE

VII. Fill in the blanks with the missing word and complete the text:

Teeth

	The teeth have two major parts, the	1 and the 2	When looking
at a	ross section of the 3.	the four main 4	that make up the
5	are the enamel, the dentin	, the cementum and the $6.$	All of these
parts	7 important roles in	the proper functioning of	of the 8.
The 9	dentition is made up	of 20 teeth, while the 10.	or adult

dentition contains 32 teeth. Most 11.	professionals refer to a	numbering or
lettering system when identifying the teeth.	There are four main 12	of teeth,
the incisors, the canines, the premolars and	the molars. Each type of the t	ooth serves a
different 13 in eating. Understand	ding dental 14 is esse	ential in order
to begin to develop an appreciation for the rol	e of teeth in digestion, appearance	e, speech and
sensory input. Without the proper function	of the teeth, usually due to dis	eases such as
decay or cavities, a person's health, appearance	ce and nutrition can 15.	affected.

VIII. Translate the following sentences from Russian into English:

- 1. Все зубы имеют одинаковое строение.
- 2. Зубы располагаются в ротовой полости и являются частями верхней и нижней челюстей.
- 3. Коронку зуба покрывает эмаль, которая является самой твёрдой тканью в организме, что объясняется высоким содержанием неорганических веществ (до 97 %) [inorganic compounds].
 - 4. Место соприкосновения десны и коронки зуба называется шейкой зуба.
- 5. Пульпа волокнистая соединительная ткань, заполняющая зубную полость, которая содержит в себе большое количество кровеносных и лимфатических сосудов.
 - 6. Зубы мудрости прорезаются не у всех.

IX. Translate the text into your native language:

A. Teeth vary in shape and size but have an identical structure. Each tooth is composed of the connective tissue, the pulp, covered by three calcified tissues: dentin(e), enamel, and cement(um). The pulp is in the pulp cavity, which comprises a pulp chamber in the crown and one or more root canals in the root(s). The root canals open by apical foramina, which transmit nerves and vessels to the pulp. The cementum is connected to the alveolar bone by periodontium to form a fibrous joint between a tooth and its socket (alveolus).

B. In humans the primary dentition consists of 20 teeth — four incisors, two canines, and four molars in each jaw. The primary molars are replaced in the adult dentition by the premolars, or bicuspid teeth. The 12 adult molars of the permanent dentition erupt (emerge from the gums) behind the primary teeth and do not replace any of these, giving a total of 32 teeth in the permanent dentition. The permanent dentition is thus made up of four incisors, two canines, four premolars, and six molars in each jaw.

X. Match the term in Column II to the appropriate description of the surfaces of the teeth in Column I:

Column I Column II **1.** The broad chewing surface of posterior teeth. a) lingual **2.** The narrow cutting edge of anterior teeth. **b**) facial **3.** The tooth surfaces that face each other. c) occlusal **4.** Faces toward the tongue. d) incisal **5.** Faces toward the cheek or lips. e) proximal **6.** The anterior surface of the tooth. **f**) distal 7. The posterior surface of the tooth. **g**) mesial

XI. Be ready to discuss the following topics: 1. Structure of the teeth 2. Tooth anatomy 3. Occlusion

- 4. Dentitions
- 5. Jaws
- 6. Tissues of the teeth
- 7. Tooth surfaces8. Types of the teeth

	8. Types of the teeth				
		TEST	Γ YOURSELF		
A.		acing the primary of teeth do people ts of teeth that peo h are there in each e referred to as the mandibular molar ixed and not capal	e have? ople have in their dentition? "cornerstone" of is the largest? ole of movement	r life time? of the dental arcl	
the j	primary dentition?				
	10. How many typ	bes of teeth are in	the primary dent	ition? What are	they?
В.	1. All of the follow <i>a) facial;</i>	_	s are axial surface c) mesial;		e surface. e) occlusal.
	2. What is the faci <i>a) labial;</i>	•	erior teeth somet c) distal;		
3. The surface that contacts the central incisor of the the surface.				e opposite side o	of the dental arch is
	4. Which teeth hav <i>a) incisors;</i>	ve more cusps? b) cuspids;	c) bicuspids;	d) molars.	
	5. Which molars h <i>a) maxillary;</i>	ave three roots in b) mandibular			
	6. What teeth tissu <i>a) dentine;</i>	the does the periodo b) cementum;	-		ar bone to?
	7. What tissue formal alveolar bon b) periodontal is c) dentine;	e;	dary of almost ald d) cementum; e) enamel.	ll of the pulp ch	amber?
	8. What is the nam <i>a) canines;</i>	ne of the teeth that b) molars;	comes from the c) incisors;	ir similarity to o	
	9. The area of the	tooth closest to the	e tongue is refer	red to as the	surface.
	10. Which teeth is <i>a) canines;</i>	referred to as the b) molars;	"cornerstone" or c) incisors;		

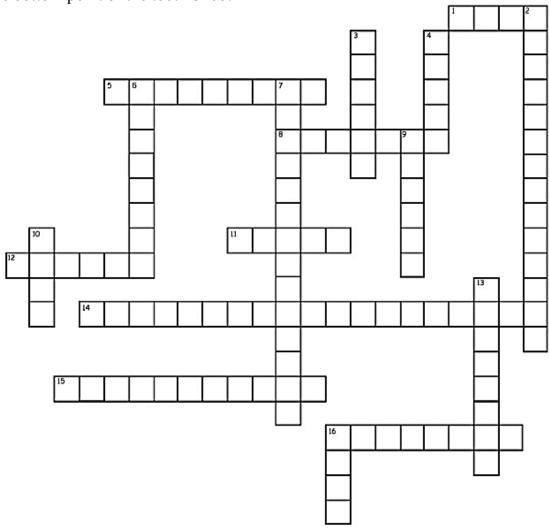
Dental Crossword Puzzle

Across:

- 1. This area consists of blood vessels that bring oxygen and nutrients to the tooth
- 5. The teeth which are located behind the canines
- 8. The name of these teeth comes from their similarity to dogs' fangs
- 11. Portion of the tooth that is visible above the gum line
- 12. These teeth are used for the most forceful chewing
- 14. What attaches the cementum of the tooth to the alveolus?
- 15. Third molars
- 16. A socket in the jawbone through which the root of the tooth is anchored

Down:

- 2. The 32 teeth that replace baby teeth
- 3. The layer beneath the tooth's enamel
- 4. The ridges on top of the crown that are used for grinding and chewing
- 6. These teeth have a straight, sharp edge and are used to cut food
- 7. Baby teeth, or milk teeth
- 9. Forms the outer layer of the tooth and protects it from bacteria and temperature change
- 10. The portion of the tooth below the gum line
- 13. The outer layer of the tooth below the gum
- 16. The bottom point of the tooth's root



ENGLISH TENSES REVISION

Present	Active	Passive
Simple (fact, habitual action)	I treat	I am treated
Continuous (everything we can see/hear	I am treating	
right now)		
Perfect (the result of the action)	I have treated	I have been treated
Perfect Continuous (duration with a starting	I have been treating	
point)	_	

point)	
I. Match the items in column A to the ones	in column B to make correct sentences:
Column A	Column B
1. People have two sets	a) the central soft part of each tooth.
2. Cementum meets enamel	b) five functional cusps.
3. The primary dentition	c) can be attached to the underlying bone.
4. The pulp forms	d) the tooth in the jawbone.
5. The root supports	e) at the neck of the tooth.
6. The roots of teeth are embedded	f) have an identical structure.
7. The gingiva surrounds the teeth and	g) of teeth in their lives.
8. The mandibular first molar has	h) visible in the mouth.
9. The crown is the part	i) in the sockets of the jaw.
10. Teeth vary in shape and size but	j) is comprised of 20 teeth.
II. Choose the best answer:	
1. Shewhen she saw the blood	1.
a) had fainted; b) fainted;	c) faints.
2. The treatment to prevent th	e patient's condition from getting worse.

1. Shewhen sh	e saw the blood.	
a) had fainted;	b) fainted;	c) faints.
2. The treatment	to prevent the patient's c	condition from getting worse.
	b) has given;	
	an allergy to that medicine	
a) developed;	b) develops;	c) have developed.
4. This a safe]	painkiller, with no harmful	side-effects.
a) being;	b) been;	c) is.
5. The doctor a c	ourse of antibiotics after the	e treatment tomorrow.
a) prescribed;	b) will prescribe;	c) prescribes.
6. Every time this patient	badly to the pe	enicillin.
a) have been reacted;	b) will react;	c) reacts.
7. The dentist	the cavity now.	
a) is cleaning;	b) is being cleaning;	c) has cleaned.
8. The patient	from severe toothache for	3 days.
a) suffers;	b) has been suffering;	c) has suffered.
9. I the results	of the tooth X-ray yet.	
a) haven't received;	b) didn't receive;	c) not received.
10. Pulpitis by	the dentist during the exan	nination yesterday.
a) diagnosed;	b) was diagnosed;	c) is diagnosed.

III. Choose the best variant:		
1. Yesterday when you called,	I in the dental of	chair.
a) sat;	b) had sat;	c) was sitting.
2. Many people the	ir wisdom teeth pulled by a	a dentist.
a) get;	b) had got;	c) are getting.
3. Incisors like tiny <i>a) shape;</i>	chisels with flat ends that b) are shaped;	_
4. A significant amount of re	esearch on det	ermining the processes that
initiate tooth development.		
a) has focused;	b) had focused;	c) focus.
5. More and more people, both	n children and adults	orthodontic treatment
today.	7 \ •11 7	, ,
a) are seeking;	b) will seek;	c) seek.
6. The first "British Dental Jou		
a) published is;	b) published;	c) was published.
7. Innovative dental practices _	every day.	
a) are developing;	b) are being developed;	c) develop.
8. Early recognition and treatm	ent of any problems	greatly your chances
of avoiding complications.	1 \ •11.1 •	\ •11 •
a) will be improved;		c) wiii improve.
9. I just by the der		\ 1
a) have been questioned;		c) nave questionea.
10. I my pulpitis t		\ •11.1 · · · · ·
a) will treat;		c) will be treating.
11. I the topic by the		
a) will study;	b) will have studied;	c) have studied.
12. How long denti		
a) have you been studying;	b) are studying;	c) have studied.
13. The denture tor		
a) will make;	b) will be making;	c) will be made.
14. Dr. Lucy Beaman Hobbs _dental school in 1866.	the first won	nan to graduate an American
a) became;	b) had become;	c) was becoming.
15. By 1859 dentists	_ ether anesthesia for oral	surgery.
•	b) had developed;	•
IV. Choose the best answer:		
1. This patient by the	he dentist tomorrow morning	ng.
a) will examine;	c) will be examined;	
b) 's being examined;	d) is examined.	

3. Heas a doctor only for a severely short time. a) 's being working; b) works; c) worked; d) 's been working. 4. The nurseall the instruments before the treatment began. a) had disinfected; d) disinfects. 5. The enamelby this time. a) is forming; c) will have formed; b) form; d) will form. 6. His toothby 5 o'clock tomorrow. a) will be filled; c) 'll have been filled; b) will fill; d) is filled. 7. Heby this dentist 3 weeks ago. a) was treated; c) treated; b) was treating; d) had been treated. 8. The dentist is busy now. Hethe tooth. a) extracted; c) extracts; b) have extracted; c) extracting. 9. The patientfor an hour. a) has been waiting; d) waited. 10. Sheby the best specialist yesterday. a) is treated; d) waited. 10. Sheby the best specialist yesterday. a) is treated; d) has been treated. V. Choose the best answer: 1. Anyone whoever a toothache can attest to the vital role dentists play in ensuring good public health. a) will have; b) has had; c) have had; d) is having. 2. Dr. Smithas an orthodontist for ten years already. a) is working; b) has working; c) 's been working; d) works. 3. While the doctorthe nurse was holding the saliva ejector. a) drilled; b) was drilling; c) has drilled; d) is drilling. 4. I think Ione unit every week. a) does; b) do; c) did; d) will do. 5. Do you think the teacherour homework by Monday morning? a) 'll have marked; b) will mark; c) marks; d) is marking. 6. We know that peopletheir teeth with some type of tool since ancient times. a) clean; b) cleaned; c) have been cleaning; d) has cleaned.		a) was examining;b) examined;		;	
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a) has been waiting; c) waits; b) has waiting; d) waited. 10. She by the best specialist yesterday. a) is treated; c) was treated; b) treated; d) has been treated. V. Choose the best answer: 1. Anyone who ever a toothache can attest to the vital role dentists play in ensuring good public health. a) will have; b) has had; c) have had; d) is having. 2. Dr. Smith as an orthodontist for ten years already. a) is working; b) has working; c) 's been working; d) works. 3. While the doctor the nurse was holding the saliva ejector. a) drilled; b) was drilling; c) has drilled; d) is drilling. 4. I think I one unit every week. a) does; b) do; c) did; d) will do. 5. Do you think the teacher our homework by Monday morning? a) 'll have marked; b) will mark; c) marks; d) is marking. 6. We know that people their teeth with some type of tool since ancient times.	8	a) extracted;	c) extracts;	tooth.	
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 a) 'll have marked; b) will mark; c) marks; d) is marking. 6. We know that people their teeth with some type of tool since ancient times.	4			c) did;	d) will do.
	5				
	6				

2. The dentist _____ the boy's teeth when the nurse came in.

7. At the dentist: Which t <i>a)</i> is troubling;			d) are troubling.
8. A month from now he <i>a) has finished;</i>	all his e	xams. d; c) is finishing;	d) will finished.
9. Toothpastea) has been used;	as long ago as 500	BC in both China a	and India.
10. Was Peter pleased wi — No, he was angry b a) had given; b) w	ecause anesthesia		
11. Doctors have to do a - Yes, but they a) will pay;	well.	c) pay:	d) are paid.
12. You neve <i>a) had studied;</i>	r the structure of the	teeth before enter	ing our University.
13. Dental offices every and laser dentistry.			
a) are started; 14. Excellent communic relationship for years to come. a) are building;	ation between you	and your dentist	a trusting
15. In 1848, Waldo Hand a) patented; b) v			d) were patented.
1. The new method of tre 2. How many patients yo 3. He always 4. I for the 5. She anythi 6. New modern technique morning. (to use) 7. The tooth to 9. I felt a terrible toothace	the dentist in summ dentist for an hour rang yesterday because yes 6 o'clock yesterday be polite and friend the while I	now. (to demonstrate (to examine) er. (to visit) now. I can't wait are she had a toothactin treating this paray. (to fill in) ly to their patients. home. (to drive)	ny longer. (to wait) he. (to eat) tient's tooth tomorrow
10. Nothing i VII.Put the verb in brackets in			
1. My mum fr 2. When your lecture is of 3. Molars cl 4. Sensitivity to pressure the periodontal ligament (to ex 5. The first real electric	om toothache since lover, I for losely with your tong may indicate that tend).	ast night (to suffer you (to wait). gue to help you swathe pulpal inflamn	allow food (work). nation to
(to produce).			

6. In 1859, 26 de	entists in N	lew York and officially	y formed the American
Dental Association (to		•	•
7. By understand	ing normal mouth dev	elopment and learning	to recognize abnormal
conditions, you	spot the early warm	ing signs of problems o	r disease (to be able).
8. You	your report by this tim	e next week (to finish).	
9. Normal tooth e	eruption at about six mo	onths as teet	hing and can be painful
(to know).			
10. There's no do	oubt that Dentistry	a long way and	changed for the better
(to come).			
	swer the phone now,	she is very busy, she	her Anatomy
exam (to take).			
		nd your doctor	, your dentist may
become your real friend	· ·		
	the Anatomy lecture v		
	d that the dentist	•	
	_ four types of teeth a	nd your task	to name them correctly
(to show, to be).			
VIII. Read the dialogi	ue. Choose the most su	itable verb form for ea	ch space.
			.
Patient: Hello, Doctor Dentist: Good morni		today?	
	ng, Sam. How 1. some gum j		
			r mouth that's good
			r mouth that's good.
Patient: (after being Dentist: Well, there			you come
earlier? I think it 5.			you come
			tist's. And every time I
6. to come it		casure to go to the den	ust s. And every time I
	you feel the ache from	cold or hot water?	
	the ache from cold.	cold of not water.	
	_ the ache from cold: hould also do a new set	of X-rays	
	say that? 9 so	=	
			like you may
have a few cavities as v	-	ic every year. It 10	nke you may
Patient: That's not go			
_	st two and they look su	perficial.	
Patient: I hope so.	st two and moy room sa	porriouri	
1. a) is you	b) are you doing	c) do you	d) have you done
2. a) have had	b) have	c) have been	d) have been having
3. a) has	b) will	c) will have	d) have taken
4. a) didn't	b) don't	c) win have	d) isn't
5. a) had hurt	b) has been hurting	c) hurt	d) hurts
6. a) will decide	b) have decided	c) decide	d) decided
7. a) do	b) have decided	c) is	d) will
8. a) am filling	b) had felt	c) feel	d) will feel
9. a) has	b) were	c) does	d) will rect d) is
10. a) looked	b) is looking	c) 's been looking	d) looks
_ 37 50, 1301100	-,	-,	-,

IX. Read the dialogue. Choose the most suitable verb form for each space.

weekend! But you 5 - Well, you 7 several questions? - I can if you like. When the lower jawline. - That's right. And when the lower jawline.	an't now. I 2 the same test is a so hard ready all the at 8 the flower teeth in place, it at are the main parts of	_ for a test on jaws. last Monday. And I 4 ecently, so I think you 6. things on the topic. Cou unction of the mandible 10 in mastica f the mandible?	it easily. Id you help me and ask ? ation and 11.
the maxilla. The boo - You know the subject	ly is a horizontally cur et perfectly! much but	and the ramus and 13. ved portion that 14 not everything. It 16	the lower jawline.
,	b) am preparing	c) are you doingc) preparec) will havec) was learningc) have beenstudying	d) were you doingd) will prepared) hadd) learnd) have studying
6. a) pass 7. a) are reading 8. a) are 9. a) hold 10. a) assists 11. a) is forming 12. a) are composed 13. a) are located 14. a) are created 15. a) have revised 16. a) take	b) will be passing b) have read b) were b) is holding b) assist b) form b) is composed b) are locating b) is created b) revise b) have taken	• •	

UNIT II. THERAPEUTIC DENTISTRY

PART I. CAUSES AND EFFECTS OF CARIES

LANGUAGE DEVELOPMENT

I. Read and translate the words and word combinations:

- 1. **acid:** acid formation, to produce acid, to be attacked by acid, acidic, can be turned into acid, the duration of acid production, the number of acid attacks, caused by acid
 - 2. **consume:** to be consumed, to consume carbohydrates, excessive consumption
- 3. **involve:** involved, the whole side of the face is involved, to be involved in inflammatory swelling
- 4. **bacteria:** bacterium, bacterial, the action of certain bacteria, harmless bacteria, the irritant action of bacteria
- 5. **resistant:** resistance, resistant to acid attack, absolutely resistant, considerable resistance
- 6. **reduce:** to reduce the amount of consumption, considerable reduction, to reduce stagnation areas

II. Match the two columns:

1. to dissolve enamel	a) усиленный кровоток
2. apical foramen	b) болезненное состояние
3. increased blood flow	с) сдавливание кровеносных сосудов
4. blood vessels compression	d) отверстие в десне
5. painful condition	е) растворять эмаль
6. hole in the gum	f) достигать пульпы
7. to reach the pulp	g) апикальное отверстие

III. Fill in the blanks with the missing words:

Tooth 1 (or dental caries) is damage to a 2that can happen
when decay-causing 3 in your mouth make acids that attack the tooth surface
r 4 This can lead to a small hole in a tooth, called a 5 If toot
ecay is not treated, it can cause pain, infection, and even 6. loss.
People of all ages can get tooth decay once they have teeth — from 7.
nrough the senior years.
When decay-causing bacteria come into contact with sugars and starches from food
nd drinks, they form an 8 This acid can attack the tooth 9
ausing it to lose minerals.
This can happen if you eat or drink often, especially foods and drinks containing suga
nd 10 The repeated cycles of these "acid attacks" will cause the enamel to
ontinue to lose 11 Over time, the enamel is weakened and then destroyed
orming a 12.

IV. Form the necessary part of speech:

Dental caries is an **1.** (infection) and communicable disease that causes **2.** (de + mineral) and **3.** (dissolve) of the dental tissues with the **4.** (form) of a cavity. It is

the worldwide health concern, **5.** (affect) humans of all ages. Dental caries is the single most common chronic disease in children, however, due to recession of the **6.** (gingiva) tissues, many older adults experience root caries. Caries has affected humankind since the **7.** (begin) of recorded history. Since the late nineteenth century, dentists have been fighting tooth decay by **8.** (drill) out the decayed tooth structure and **9.** (fill) the tooth with a **10.** (restore) material. Although this **11.** (treat) eliminates decay that is already present, it does nothing to lower levels of bacteria in the mouth that may cause **12.** (add) caries. The cause of **13.** (carious) is bacterial breakdown of the hard tissues of the teeth. This occurs due to acid made from food debris of sugar on the tooth **14.** (superficial). It is an ongoing process that begins with the plaque, a **15.** (colour + "absence"), soft, sticky layer of **16.** (harm) bacteria. Plaque is the most **17.** (danger) when bacteria group into colonies within 24 hours. After repeated attacks, if the plaque is not **18.** (remove), the enamel breaks down and decays.

V. Study the word cloud. Speak about caries development using the suggested words:



GRAMMAR PRACTICE

THE COMPLEX SUBJECT

The Complex Subject consists of **a noun** / **pronoun** (in the nominative case) and **the infinitive.** It is considered to be *the subject of the sentence*; its *Russian equivalent* is in most cases *a subordinate clause*.

a noun (in the nominative case)

+ to + infinitive

Pronoun (in the nominative case)

A noun / pronoun + Passive Predicate + **to** + **infinitive**

But: A noun / pronoun + seem, appear, happen, chance, prove, turn out, etc. (the Active Voice) + to + infinitive

Composites are known to be widely used in dentistry.

Известно, **что композитные материалы широко используются** в стоматологии.

I. Study the forms of the Infinitive:

- to treat Infinitive Simple Active
- to be treated Infinitive Simple Passive
- to have treated Infinitive Perfect Active
- to have been treated Infinitive Perfect Passive

II. Read the following sentences, define the Complex Subject and the forms of the Infinitive in them. Translate the sentences and comment on the translation:

- 1. He is said to consult his patients every day.
- 2. He was said to be treated by this dentist.
- 3. He turned out to have consulted the dentist.
- 4. He is likely to be consulted by this dentist.

III. Choose the best answer:

1. He is known	an outstanding doctor.	
a) to be;	b) being;	c) been.
2. He doesn't	to keep the oral hygiene.	
a) seems;	b) seem;	c) seeming.
3. His father was said	the best dentist i	n the town.
a) being;	<i>b) be;</i>	c) to be.
4. All the doctors	to be wearing rubber	gloves.
a) are supposed;	b) supposed;	c) have supposed.
5. He appears	the treatment.	
a) to have finished;	b) to be finished;	c) finishing.
6. The present article of this medicine.	to be the first	paper published on the clinical use
a) is reported;	b) reports;	c) is reporting.
7. Sensitivity to antibiotic the other members of the family		not only in this patient but in all
	b) have been present;	c) have present.

IV. Paraphrase the sentences using the Complex Subject:

Model: It is known that this method is very effective.

It is known that this method is (=to be) very effective.

This method is known to be very effective.

- 1. It seems he knows everything about this procedure.
- 2. It seemed that his teeth had not been treated for a long time.
- 3. It appeared that he had not heard the recommendations.
- 4. It happened that I was present at the opening of a new clinic.
- 5. It turned out that my prediction about treatment was correct.
- 6. It is certain that the dentist will be back soon.
- 7. It is likely that this new course of treatment will help your patient.
- 8. It is known that this procedure takes much time.

V. Translate the sentences using the Complex Subject:

- 1. Известно, что пульпит развивается, когда кариес разрушает дентин и достигает пульпы.
 - 2. Оказалось, что зубная боль была острой.
 - 3. Говорят, что он хороший стоматолог.
 - 4. Оказалось, что он уже запломбировал все пораженные зубы.
 - 5. Известно, что некоторые продукты способствуют развитию кариеса.
 - 6. Вероятно, что у него разовьется абсцесс.
 - 7. Вряд ли, что этот зуб будет удален.
 - 8. Известно, что боль может быть острой и хронической.

PART II. PULPITIS

LANGUAGE DEVELOPMENT

I. Match the words in column A with the words in column B to make expressions. Use expressions to make sentences:

A	В
1. refined	a) consumption
2. excessive	b) fissures
3. blood	c) treatment
4. pulp	d) carbohydrate
5. occlusal	e) death
6. cavity	f) preparation
7. conservative	g) supply

II. Match the words with their definitions:

1.	a damage to a tooth that can happen when decay-causing bacteria	a) s	tagnation
	in your mouth make acids that attack the tooth surface or enamel		
2.	the practice of caring of your teeth to keep them healthy	b) c	avity
3.	a permanently damaged area in the hard surface of your teeth	c) c	aries
	that develops into tiny openings or holes		
4.	it is usually placed in a thin layer over exposed pulp within	d) p	oulpitis
	a cavity preparation		
5.	the location on the surface of the tissue where there is a tendency	e) p	revention
	for food debris to accumulate		
6.	a condition that causes painful inflammation of the pulp	f) li	ining
7.	a condition affecting the tissues surrounding the teeth, the gums	g) b	acteria
	become swollen, red, and may bleed.		
8.	a substance with particular chemical properties	h) ii	nflammation
9.	a sticky colorless deposit that grows on surfaces within the mouth	i) a	lveolar abscess
10.	a pus pocket adjacent to the tooth root which is related to plaque	j) a	cid
	and calculus deposition		

III. Complete the text with the words given below:

occur	extreme	causes	mild
dentin	enamel	infection	nerve
toothache	symptom	oral	pain
sensitivity findings	inflammation	chamber dental caries	fillings

Pulpitis
Pulpitis is an 1 of dental pulp tissue. Usually it is associated with 2
Increased 3 to stimuli, specifically hot and cold, is a common 4
of pulpitis. A prolonged throbbing 5 may be associated with the disease. However,
pulpitis can also 6 without any pain.
Pulpitis may be caused by 7 that penetrates (goes) through the 8
and 9 to reach the pulp, or it may be a result of trauma and lots of treatments
such as 10 or dental crowns.
Inflammation is commonly associated with a bacterial 11 but can also be
due to other 12 such as repetitive (recurrent) trauma or in rare cases periodontitis.
In the case of penetrating decay, the pulp 13 is no longer sealed off from
the environment of the 14. cavity.
When the pulp becomes inflamed, pressure from inflammation affects the 15.
and can cause from 16 to 17 pain, depending upon the severity of
the inflammation and the body's response.
Diagnosis is based on clinical 18. and confirmed by X-ray.
Answer the questions:
1. What kind of the disease is pulpitis?
2. What are the common symptoms of pulpitis?
3. What are the causes of pulpitis?
4. Why does pain occur in pulpitis?
5. What is the diagnosis of pulpitis based on?
IV. Fill in the blanks with the missing words:
Pulpitis is 1 of the dental 2 resulting from untreated 3,
trauma, or multiple restorations. Its principal symptom is 4 Diagnosis is based on
clinical findings, and results of X-rays and pulp vitality tests. 5 involves
removing decay, restoring the damaged 6, and sometimes doing 7 canal
therapy or extracting the tooth.

GRAMMAR PRACTICE

- I. Read the following sentences; define the Complex Subject and the forms of the Infinitive in them. Translate the sentences and comment on the translation:
 - 1. He happened to have attended a seminar on caries prevention.
 - 2. He is known to have been treated by that dentist last year.
 - 3. He is sure to visit the dentist next morning.
 - 4. He is likely to be examined by the doctor soon.

11.	Choose the best answer:					
	1. He is said a lead to have visited;		c) have visited.			
			two surfaces (external,			
inte	ernal) and two borders (supe					
	a) to have;	b) to have been;	c) have.			
and	3. The angle of the mandi ramus of the mandible.	ble is known th	ne angle forming between the body			
	a) to being;	<i>b) be</i> ;	c) to be.			
the	4. Pulpitis is foundpulp.	when caries extend	Is through the dentine and reaches			
		b) to occur;	c) occurring.			
		l caries is thought	_ due to the bacteria on the teeth. c) to have appear.			
		ealed after each a b) to have occurred;	administration of this preparation. <i>c) to be occurring</i> .			
		b) to have had;				
III.	Paraphrase the sentences	using the Complex Subjec	<i>t</i> :			
Mo	del: <u>It is known</u> that this <u>This method</u> is known	method is (= to be) very ef vn to be very effective.	fective.			
		ws everything about his papatients had not undergon	tients. e professional hygiene for a long			
tim						
		not followed the dentist's a invited to a dental conferen				
	* *	nent was performed in 2 app				
	6. It is certain that the der	ntist will make a correct dia	gnosis.			
	7. It proved that caries is caused by bacteria.					
	8. It is known that a cavity in his tooth has reached the pulp.					
IV.	Translate the sentences us	sing the Complex Subject:				
	1. Говорят, что этот стог	•				
	•	е был у стоматолога на пр				
	· · · · · · · · · · · · · · · · · · ·	т бывает острым и хронич	ческим.			
	4. Вероятно, что зуб придется удалить.					
	5. Известно, что гибель пульпы сопровождается болью.6. Известно, что лечение помогло устранить боль.					
	 7. Оказалось, что зуб бы 	• •	•			
		омендации будут соблюда	аться.			

PART III. PREVENTION AND TREATMENT OF CARIES

LANGUAGE DEVELOPMENT

I. Match the antonym	s:	
1. consume	a) decrease	
2. cause	b) disappear	
3. expose	c) result	
4. increase	d) relax	
5. compress	e) produce	
6. occur	f) cover	
II. Match the synonym	s:	
1. destroy	a) defend	
2. regenerate	b) often	
3. modification	c) initial	
4. worsen	d) restore	
5. incipient	e) aggravate	
6. advocate	f) change	
7. frequently	g) impair	
III. Choose the best ans	wer:	
1. If I give you loca a) painless;	al, you won, b) medicine;	n't feel any pain. c) anesthesia.
2. Most people hate <i>a) drill;</i>	e the sound of a dentist b) drift;	
	our dental plan does no b) assist;	t (= pay for) this type of treatment. $c)$ make.
4. You have a <i>a) cavity;</i>	in that tooth. b) cave;	c) chamber.
	a porcelain	
6. We'll have to <i>a) excel</i> ;	that tooth. =	We'll have to remove that tooth. c) extract.
7. Is your cheek still <i>a) dumb</i> ;		ou still have no feeling in your cheek? c) numb.
8. Could you bite d <i>a) grind;</i>	own on this paper and b) grow;	your teeth? (= rub your teeth together) <i>c) greet</i> .

IV. Choose the correct preposition:

Dental caries is a disease resulting **1.** (*in*, *on*, *at*) the destruction of the hard tissues **2.** (*at*, *by*, *of*) the tooth beginning **3.** (*off*, *on*, *with*) the outer surface and progressing inwards at a variable but slow rate. It is always associated **4.** (*by*, *at*, *with*) the presence **5.** (*to*, *of*, *in*) bacteria **6.** (*with*, *at*, *on*) the tooth surface.

In order that the disease should become established it would seem that the bacteria need **7.** (*by*, *at*, *to*) colonize on areas of the tooth sheltered **8.** (*from*, *by*, *in*) the effects of mastication. This colonization produces a film of bacteria **9.** (*from*, *on*, *with*) the surface known as dental plaque. Before the disease can progress **10.** (*by*, *on*, *at*) a significant rate the bacteria require the presence in the plaque of readily fermentable refined carbohydrate.

V. Complete the text with the words which are given below:

cavity	dental floss	molar teeth	braces
dental hygienist	tooth decay	filling	Novocain
getting a tooth pulled		root canal treatment	

Next week I have to go to the dentist's office. I am always nervous to go because

I usually have a 1. _______. The dentist has to put a 2. ______ in it to fix the tooth. I don't like it one bit.

Actually, I don't even like seeing the 3. ______ who cleans my teeth. Last year, when I was at the dentist, I asked for some 4. ______ before they cleaned my teeth. I was informed that this drug was only given for really painful procedures like 5. _____. I wasn't happy about that at all. The dentist told me that I should use 6. _____ to clean my teeth if I didn't want to get so many cavities. One tooth was so bad that I needed a 7. _____. This is not a fun experience. Besides having a lot of 8. ______, I also have some crooked teeth. I should probably get 9. ______ but I don't think I will. They cost a lot of money. I figure that as long as I have my 10. ______ I can still chew my food. That is all I am

One day I will start taking better care of my teeth. I'm sick of painful trips to the dentist's!

GRAMMAR PRACTICE

worried about for now.

I. Make sentences from the words in the columns. Translate them into Russian:

		to have good results in studies
		to treat patients every day
The dentist	is/are said	to clean teeth regularly
Medical students	is/are known	to be the best doctor in this clinic
He	is/was reported	to have too many snacks between meals
She	is believed	to know how to calm the patient
They	is likely	to be examining the patient now
We	seem(s)	to be cleaning the teeth at the moment
	appear(s)	to have received the results of the test
		to have become a skillful dentist

II. Paraphrase the sentences using the Complex Subject:

Model: It is known that this method is (=to be) very effective.

This method is known to be very effective.

- 1. It proved that bacteria in the mouth make acids.
- 2. It is sure that a cavity is a hole that can grow bigger and deeper over time.
- 3. It is likely that your patient will feel better after the treatment.

- 4. It is known that these procedures are not easy to perform.
- 5. It proved that in time treatment had produced a marked effect.
- 6. It was reported that his severe toothache had been associated with pulpitis.
- 7. It appears that the initial diagnosis will be confirmed by laboratory analyses.
- 8. It was known that the patient had not been treated by that doctor before.

III. Translate the sentences using the Complex Subject:

- 1. Известно, что кариес вызывает разрушение тканей зуба.
- 2. Оказалось, что пациент не чистит зубы.
- 3. Оказалось, что пульпит вызывал острую боль.
- 4. Несомненно, что зуб следует удалить.
- 5. Известно, что остатки пищи вызывают развитие кариеса.
- 6. Вероятно, что пациент почувствует боль.
- 7. Известно, что острая боль появилась неделю назад.
- 8. Ожидали, что пациент придет через два дня.

PART IV. FILLINGS

LANGUAGE DEVELOPMENT

I. Read and translate the words and word combinations:

- 1. **restore:** to restore the tooth, the function is restored, pre-constructed restoration, permanent restoration of back teeth, restore normal appearance
- 2. **filling:** temporary filling, permanent filling, according to the type of filling, filling material, to insert a filling
- 3. **retention**: to provide retention, filling retention, maximum retention
- 4. **hard:** hard material, to harden, harden rapidly enough, to harden in the cavity
- 5. **adhere:** adhere rapidly, adhesive, adhesive effect, adhesive material

II. Form the necessary part of speech. Ask and answer questions on the text. Tell the main idea:

A cavity 1. (prepare) is a medical procedure that removes caries or 2. (exist) restorative materials and a limited amount of healthy tooth structure to receive and retain 3. (fill) materials within the cavity. Caries can occur on one or more surfaces and can be of 4. (vary) sizes ranging from very small to those that include all five surfaces of the tooth. Cavities can be divided into simple and compound. A cavity which occurs on the surface of the tooth is called simple. A cavity is considered to be a complex one when three or more surfaces are involved. Cavities may be classified according to the 5. (local) of carious lesions.

A **6.** (dentistry) filling is a type of **7.** (restoration) dental treatment used to repair minimal tooth fractures, tooth decay or damaged surfaces of the teeth. Filling materials, which include composite, porcelain, ceramic, silver or amalgam may be used to even out tooth surfaces for better **8.** (bite) or **9.** (chew). There are also composite fillings, made of plastic or glass.

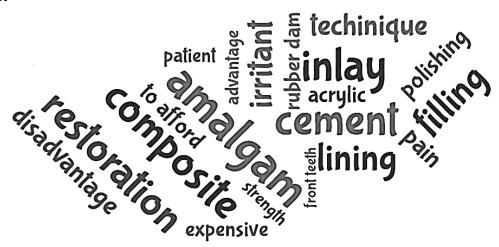
III. Match the words in column A with the words in column B to make expressions. Use expressions to make sentences: A B 1. root a) mixing b) measure

1. root
2. gum
3. temporary
4. adhesive
5. permanent
6. hand
7. saliva
a) mixing
b) measure
c) canal
d) ejector
e) margin
f) filling
g) cement

IV. Complete the sentences with the words which are given below:

pulpitis	implant	cause	cavity	
diagnosis	filling	tooth	pulp	
root canal		infla	mmation	
 Once a spot has appeared, the caries progresses to form a The dentist had removed the before the patient's jaw became inflamed. The dentist has already determined the of the pain. This medication can stop the spreading of Tooth decay has already damaged the If the nerve is damaged, treatment will be carried out first. Complete nerve death is considered to be the consequence of untreated The assistant watched the doctor prepare the material. The X-ray examination is considered to be very important in 				
Choose the best answer: 1. I think my filling				
2. That isn't the too	oth that's causing the	e It's the	e one next to it.	
3. A root		_	ve from a specific tooth.	
4. Does this <i>a) pain;</i>	? = Does this (b) negative;	cause you pain? c) hurt.		
•		•	had your teeth checked?	
6. Your gums are You might have an infection. a) swollen; b) big; c) blown-up.				
		c) sensible.		
8 re	fers to an inflammat	ion of the gums.		
		•		
	1. Once a spot has 2. The dentist had 3. The dentist has a 4. This medication 5. Tooth decay has 6. If the nerve is da 7. Complete nerve 8. The assistant wa 9. The X-ray exam 10. Untreated pulp Choose the best ans 1. I think my filling a) fell out; 2. That isn't the too a) hurt; 3. A root a) canal; 4. Does this a) pain; 5. When was your a) search; 6. Your gums are a) swollen; 7. My gums are rea a) sensory; 8 re	1. Once a spot has appeared, the caries 2. The dentist had removed the 3. The dentist has already determined to the thing medication can stop the spreading to	1. Once a spot has appeared, the caries progresses to form a	

VI. Study the word cloud. Determine its topic. Prepare a speech using the suggested words:



GRAMMAR PRACTICE

7	Chann	41	1 4	
1.	Cnoose	tne	nest	answer:

1. Dr. Jonson	to be the best dentist	of the team.
a) believing;	b) is believed;	c) believed.
-	seem $\underline{\qquad}$ to the w $\underline{\qquad}$ b) to be listening;	
3. The treatment is ex	pected within	an hour.
a) to have started;	b) to start;	c) being started.
4. That tooth	have already been treat	ted.
a) is said to;	b) said to;	c) is said.
5. The dentist	to be wearing a medi	cal mask.
a) is expected;	b) expected;	c) is expecting.
6. Additional studies	to determine the	e cause of the inflammation.
a) to require;	b) are required;	c) have required.
7. He to	be working at an urgent p	oroblem now.
a) have believed;	b) believes;	c) is believed.

II. Paraphrase the sentences using the Complex Subject:

Model: <u>It is said</u> that this procedure is (=to be) very expensive. <u>This procedure is said to be</u> very expensive.

- 1. It is likely that this procedure will not help.
- 2. It was certain that his toothache had been associated with trauma.
- 3. It appears that bacteria are normal residents of the mouth.
- 4. It is likely that the patient will calm down after the injection of a sedative.
- 5. It is known that modern diet contains mainly refined carbohydrates.
- 6. It is considered that pulpitis occurs in acute or chronic forms.
- 7. It turned out that the treatment of that tooth was quite easy.
- 8. It seemed that the treatment was coming to an end.

III. Translate the sentences using the Complex Subject:

- 1. Оказалось, что его зуб уже запломбирован.
- 2. Доказано, что фториды повышают резистентность зубов к влиянию кислот.
- 3. Известно, что постоянная пломба требует специального препарирования полости.
 - 4. Известно, что коронки изготавливаются предварительно в лабораториях.
 - 5. Считают, что тип лечения зависит от состояния пульпы.
 - 6. Оказалось, что пораженные эмаль и дентин не были удалены.
 - 7. Вероятно, она страдает от какого-то серьезного осложнения.
 - 8. Маловероятно, что он соблюдает рекомендации стоматолога.

PART V. INSTRUMENTS

LANGUAGE DEVELOPMENT

I. *Match the antonyms:*

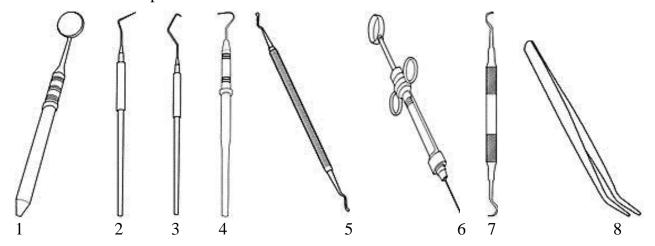
1. restoration a) temporary **2.** conservative **b**) damage 3. insert c) enlarge **4.** permanent **d**) modern **5.** severe e) mild **6.** reduce **f**) extract

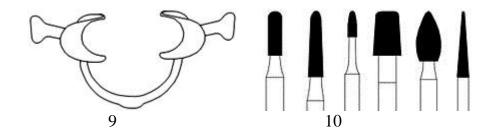
II. Match the synonyms:

1. adherent a) caries 2. decay **b**) reduce **3.** build up c) impair **4.** eliminate **d**) sticky e) accumulate **5.** destroy

III. Lable the instruments:

1. tweezers 2. dental burs 3. sickle probe 4. syringe 5. excavator 6. periodontal probe 7. curette 8. Briault probe 9. mouth mirror 10. dental retractor





IV. Match the words with their definitions:

1. a mechanical instrument used to perform a variety of common dental procedures, including removing decay, polishing fillings, performing cosmetic dentistry, and altering prostheses	a) chisel
2. an instrument used for cutting hard tissues — tooth or bone	b) excavator
3. a long, thin, and blunted at the end instrument used to measure pocket depths around a tooth in order to establish the state of health of the periodontium	c) handpiece
4. a long-bladed hand tool with a beveled cutting edge and a handle	d) bur
5. it is a tube that is responsible for sucking the saliva that accumulates in the oral cavity of the patient	e) periodontal probe
6. an instrument, generally a small spoon or curette, for cleaning out and shaping a carious cavity prepared for filling	f) aspirator
7. it is used to remove subgingival calculus	g) tweezers
8. it is used by dentists and oral surgeons to move the cheeks, lips and tongue out of the way so the mouth and teeth are exposed and accessible	h) syringe
9. it is required for procedures that are known to cause some pain; a numbing or freezing agent will be administered using it	i) curette
10. this instrument is used to place and remove small items like cotton wool pellets into the mouth safely	j) retractor

V. Read the text and choose the correct preposition:

Dental Instruments

You'll find most people despise the dentist whether they have good teeth or not. While many dental procedures aren't painful, many people have developed a fear **1.** (*in*, *of*, *with*) visiting the dentist (often known as "odontophobia") and would rather put up with dental infections, pain or even broken/unsightly teeth **2.** (*in*, *at*, *of*) order to avoid a visit to the dentist. However, there are remedies **3.** (*for*, *at*, *with*) these fears. One such remedy is simply knowing and understanding the instruments used **4.** (*with*, *in*, *by*) your dentist as well as what they do. Often a simple understanding is enough to calm the nerves and put your mind **5.** (*at*, *in*, *off*) ease.



Mouth Mirrors

A mouth mirror or dentist's mirror is an instrument used **6.** (with, in, on) dentistry. The head **7.** (of, at, in) the mirror is usually round, and the most common sizes used are 18 mm and 20 mm. The mouth mirror has a range **8.** (at, of, off) uses, including; allowing indirect vision by the dentist, reflecting light onto desired surfaces and retraction of soft tissue.

Periodontal Probe

A periodontal probe usually has a long, thin and blunted end. Its primary use is to measure pocket depths **9.** (around, in, of) the tooth **10.** (on, in, with) order to establish the state of health of the periodontium (specialized tissue that surrounds and supports the teeth). Most periodontal probes have markings **11.** (in, on, within) the head in order to allow accurate and precise readings.

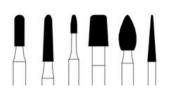
Briault Probe

A Briault probe is similar **12.** (at, to, in) a periodontal probe but has a sharp end to it. Briault probes are most commonly used to detect caries **13.** (of, on, in) the mesial and distal surfaces of your teeth. It can also be used to detect hidden pockets of tartar building **14.** (on, up, with) in the periodontal pockets.



Dental Retractors

A dental retractor is used **15.** (by, with, at) dentists and oral surgeons to move the cheeks, lips and tongue **16.** (in, out, at) of the way so that the mouth and teeth are exposed and accessible. There are various types of dental retractors, used **17.** (on, for, of) different procedures.



Dental Burs

Dental burs are essential cutters which are used with a handpiece **18.** (with, in, at) removable heads. The burs are often made of diamond or tungsten carbide for strength. There are three parts in dental burs; the head, the neck & the shank, the heads of some burs contain the blades which remove material **19.** (in, out, from) teeth. Burs come **20.** (on, off, in) various shapes and sizes for different procedures.



Excavator

Excavators are often double headed instruments used by dentists **21.** (*for*, *in*, *at*) the main purpose of removing carious dentine from teeth, depending **22.** (*out*, *on*, *in*) the cavity that needs to be prepared. There are various sizes and shapes of excavators.



Curettes

Curettes are small hand tools used **23.** (on, with, in) surgical instruments designed to remove subgingival calculus. The tips of curettes come **24.** (at, on, in) various sizes and shapes, but they're always rounded **25.** (in, at, of) the tip to ensure cleansing is less traumatic to the gingiva.

Answer the questions:

- 1. What are mouth mirrors used for?
- 2. Why do most periodontal probes have markings?
- 3. What is the difference between Briault Probe and Periodontal Probe?
- 4. What are dental retractors used for?
- 5. What are dental burs made of?
- 6. Why do burs have various shapes and sizes?
- 7. What is the difference between excavators and curettes?
- 8. Do you have odontophobia?

GRAMMAR PRACTICE

I. Choose the best answer:

	1. You to	o go to the laboratory. Why	are you still here?
	a) were suppose;	b) is supposed;	c) were supposed.
acid	production occurring	from bacterial fermentatio	
the o	3. Sensitivity to anti	b) to be caused by; biotics was reported family as well since their extends b) to have been present;	not only in this patient but in all arly age.
		s revealed after b) to have occurred;	
		nown pulpiti b) to have had;	s accompanied by gum inflammation. <i>c) to be having</i> .
visit	to the hospital.		d toothache a week before his present
	a) to have;	b) to have had;	c) to be having.
	1 1	isto be too comb) is turned out;	•

II. Paraphrase the sentences using the Complex Subject:

Model: <u>It is said</u> that this procedure is (=to be) very expensive. This procedure is said to be very expensive.

- 1. It was considered that the X-ray confirmed pulpitis.
- 2. It was known that the patient had not been diagnosed with caries before.
- 3. It is known that she visits the dentist every year.
- 4. It was known that she was examined by an experienced dentist.
- 5. It is said that she has treated the tooth.
- 6. It is likely that she will be explained the tooth extraction procedure.
- 7. It is known that zinc oxide and eugenol cement are the temporary filling materials.
- 8. It is reported that preparations containing eugenol may cause a burning sensation.

III. Translate the sentences using the Complex Subject:

- 1. Известно, что амальгама широко использовалась для пломбирования дистальных зубов.
 - 2. Маловероятно, что этот зуб удалят.
 - 3. Говорят, что инструменты стерилизуют регулярно.
 - 4. Мне случалось лечить его раньше.
 - 5. Полагают, что обследование не выявит пульпит.
 - 6. Говорят, что эти инструменты используются во многих клиниках.
 - 7. Известно, что акрил используется для постоянных пломб на передних зубах.
 - 8. Известно, что боры используют для сверления твердых тканей.

UNIT III. ENDODONTICS. ORAL SURGERY

PART I. ENDODONTICS

LANGUAGE DEVELOPMENT

I. Match the word with its meaning:

1. causing slight inflammation or other discomfort to the body;	a) abscess, n
2. a hard tough thermoplastic substance which is the coagulated latex.	b) drainage, n
It consists chiefly of a hydrocarbon isomeric with rubber and is	
now used in Dentistry.	
3. a piece of some material used to block up a cavity in a tooth;	c) exposure, n
4. an excitation of a nerve impulse caused by a change or event;	d) extraction, n
a physical reaction to a specific stimulus or situation;	
5. a crack or break in a hard object or material, typically a bone;	e) filling, n
6. the action of removing or taking out something, especially by effort	f) fracture, n
or force;	
7. the state of having no protection from something harmful;	g) gutta-percha, n
8. the action or process that causes or allows liquid in something to	h) irritant, adj
run out, leaving it empty or dry;	
9. a swollen area within body tissue, containing an accumulation of	i) response, n
pus.	

II. Read and translate the words and word combinations:

- 1. **consider** [kənˈsɪdə]: to consider an unpleasant procedure; to consider the pulp to be alive; to consider all the possibilities of treatment; to consider all risks; consideration; to take into consideration
- 2. **contaminate** [kənˈtæmɪneɪt]: contaminated; to contaminate the wound; bacteria in the saliva can contaminate the cleansed root canals
- 3. **determine** [dɪ'tɜːmɪn]: to determine the cause of pulpitis; to determine the state of the pulp; to determine by using vitality tests
- 4. **endodontic** [endou'dontik]: endodontic instruments; to require endodontic treatment; the object of endodontic treatment; endodontics; to treat by endodontics
- 5. **expose** [ɪk'spəuz]: the crown fracture may expose the pulp; to be exposed to mouth bacteria; an alive and unexposed pulp; exposure [ɪk'spəuʒə]; accidental exposure
- 6. **irrigate** ['ɪrɪgeɪt]: to irrigate the canals several times; to irrigate with antimicrobial solutions
- 7. **lead** [li:d]: to lead to an alveolar abscess; to lead to pulp death; to lead to a chain of events; to lead to the cessation of pain; to lead to an ultimate failure of treatment
- 8. **response** [rɪ'spɔns]: the painful response; an apparent response; the response to certain stimuli; the response to heat, cold or electricity
- 9. **result** [ri'zʌlt]: to result **in** the impairment of function; the inflammation resulted **from** infection

III. Study some endodontic instruments.

Part A: match the two columns:

- 1. mirror, probe and tweezers
- 2. local anesthetic equipment
- 3. rubber dam equipment
- 4. handpiece and burs
- **5.** barbed broaches, root reamers and files, spiral root canal fillers
- **6.** sterile paper points and cotton wool
- **7.** drug(s) for sterilizing root canal
- **8.** gutta-percha or silver points and cement

- а) зеркало, зонд и пинцеты
- **b**) наконечник и боры
- **c**) пульпоэкстракторы, римеры, файлы, каналонаполнители
- **d**) стерильные бумажные иглы и ватные валики
- **e**) гуттаперчевые или серебряные штифты и цемент
- **f**) коффердам
- **g)** местная анестезия
- **h**) лекарство(-а) для обработки каналов

Part B: label the pictures using the names of the instruments given in Part A:







1 ______ 2

2 _____

3 _____

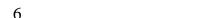






4

5 _____









7

8 _____

IV. Translate the families of the words of the same root:

accidental; accident-free; accidence; accidentology; accidentally

apply; application; applicator; applicatory; applied

consider; consideration; considerate; considered; considerable; considerably; considering **determine**; determination; determinative; determined; determined; determiner; determining

extract; extractable; extracted; extracting; extraction; extractive

response; respond; respondence; respondent/responsive; responsivity; responsiveness

suffice; (in)sufficiency; (in)sufficient; (in)sufficiently

V. Form the necessary part of speech:

Diagnostic and Preparation

Before endodontic therapy is carried out, a correct 1. (diagnostic) of the dental pulp and the surrounding 2. (peri + apex) tissues is required. This allows the 3. (endodontics) to choose 4. (appropriate, superlative) treatment option, allowing 5. (preservative) and longevity of the tooth and surrounding tissues. 6. (Treat) options for an 7. (irreversible) inflamed pulp include either 8. (extract) of the tooth or removal of the pulp.

9. (*Remove*) the **10.** (*infect*) or **11.** (*inflame*) pulp tissue enables the endodontist to help preserve the longevity and **12.** (*functional*) of the tooth. The treatment option chosen involves **13.** (*taken*) into account the expected prognosis of the tooth, as well as the patient's wishes. A full history is required (which includes the patient's symptoms and **14.** (*medicine*) history), along with a clinical **15.** (*examine*) (both inside and outside the mouth), and the **16.** (*useful*) of **17.** (*diagnose*) tests.

VI. Use the synonyms:

- 1. Pulpitis always *leads to* pulp death.
- 2. Endodontic treatment *removes* the source of irritation.
- 3. The exposure of the pulp allows mouth bacteria to enter the pulp chamber.
- 4. Even when the pulp is not exposed, pulpitis can still occur.
- 5. The blow damages the apical blood vessels and pulp death *ensues*.
- 6. The *state* of the pulp determines the dentist's choice of treatment.
- 7. What may the exposure of the pulp be due to?

VII. Choose a word from the box and complete the text:

replace	gutta-percha	insert	dry	pulp
smooth	apex	temporary	pulp chamber	removed
seal off	canal	empty	prevent	filling

Root Filling

The objective of root filling is to remove the inflamed or dead 1. _____ from a tooth and 2. _____ it with a sterile non-irritant, insoluble root canal 3. _____. It is usually done in two stages: the first is to prepare the 4. _____; the second to 5. _____ the root filling. If no difficulties arise, both stages can be completed in one visit. However, many practitioners prefer a separate visit for each stage.

	At the first visit.
	1. The pulp is removed.
	2. The root canal is enlarged and cleaned to prepare a 6. , 7.
8	canal which tapers (сходит на конус) gradually from the 9
tow	vard the 10.
	3. A 11 filling is inserted to cover the entrance to the empty root canal
and	12 contamination of the canal between visits.
	At the second visit:
	1. The temporary filling is 13.
	2. If the root canal is still clean and dry, it is filled with 14 to
15.	the entire canal to within a millimeter of the apex.

VIII. Choose the correct preposition:

1 4 4 1 a final reiail.

What is Endodontics?

Endodontics is a field of dentistry concerned **1.** (*with, to, on*) the biology and pathology of the dental pulp and root tissues of the tooth. It focuses **2.** (*in, on,* –) the prevention, diagnosis, and treatment of diseases and injuries **3.** (*to, with, of*) these tissues. Root canal treatment is a commonly performed endodontic procedure.

Root canal treatment is a treatment sequence **4.** (*before*, *for*, *in*) the infected pulp of a tooth which is intended to result **5.** (*in*, *from*, *to*) the elimination of infection and protection of the decontaminated tooth **6.** (*of*, *out*, *from*) future microbial invasion. Root canals and their associated pulp chamber are the physical hollows **7.** (*at*, *within*, *beneath*) a tooth that are naturally inhabited **8.** (–, *with*, *by*) nerve tissue, blood vessels and other cellular elements.

Endodontic therapy involves **9.** (*in*, *for*, –) removal of these structures, disinfection and subsequent shaping, cleaning, and decontamination of the hollows **10.** (*with*, *by*, *through*) small files and irrigating solutions, and the obturation (filling) **11.** (*in*, *of*, *within*) the decontaminated canals. Obturation of the cleaned and decontaminated canals is done **12.** (*of*, *by*, *with*) an inert filling such as gutta-percha and typically zinc oxide eugenol-based cement.

GRAMMAR PRACTICE

THE FORMS OF THE INFINITIVE

	Active	Passive
Simple infinitive	(to) examine	(to) be
refers to the same time as that of the <u>preceding verb</u>	(10) examine	examined
Continuous infinitive		
refers to the same time as that of the <u>preceding verb</u> and	(to) be	
expresses an action in progress or happening over a period	examining	_
of time		
Perfect infinitive	(to) have	(to) have been
refers to a time before that of the <u>preceding verb</u>	examined	examined
Perfect continuous infinitive		
refers to a time before that of the <u>preceding verb</u> and	(to) have been	
expresses an action in progress or happening over a period	examining	_
of time		

THE USE OF THE COMPLEX OBJECT

Study the following examples:

Everyone *considers* **him to be** an expert in oral surgery.

He *intended* them to go with him to an operating room.

The doctor *advised* **the patient to use** a soft toothbrush.

He asked for saliva to be ejected from the operative area.

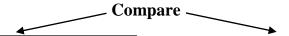
I *like* my patients to come to semi-annual check-ups.

Particle *to* <u>isn't used</u> after the following verbs: *to make* (= *to force*), *to let* (= *to allow*), *to have, to get* (= *to force, to ask*), *to help.*

The teacher *let* dental students watch the procedure.

I *shall have* **him come** whether he likes or not.

After verbs denoting perception by means of sensory organs, <u>a bare infinitive</u> (without *to*) construction or a Participle I construction is used.



Verb + infinitive

I saw him fill a root canal.

I saw the whole action — from giving anesthesia and preparing the cavity till polishing the crown of the filled tooth. We want to emphasize that the action is completed.

Verb + Participle I

I saw him filling a root canal.

An action is repeated or continues over a period of time; we perceive only a part of it.

In the negative, *not* usually comes before the infinitive:

The assistant *asked* the patient not to grasp at the dentist's hands.

In some cases, the verb in the main clause is negative, not the infinitive:

I don't want them to be late for the appointment.

I. Read the sentences with the Complex Object. Spot the construction and define the forms of the Infinitive. Translate the sentences:

- 1. We expect this dentist to clean root canals thoroughly.
- 2. We found out this dentist to have cleaned root canals thoroughly.
- 3. We watched this dentist clean root canals thoroughly.
- 4. We watched this dentist have been cleaning root canals thoroughly for more than half an hour.
 - 5. The patient wanted the root canals in his tooth to be cleaned thoroughly.
- 6. The dentist considered the root canals in the patient's tooth to have been cleaned thoroughly.

II.	Choose the best variant. Translat	te the sentences into Russian:
tre	eatment option. a) to choose;	the endodontist the most appropriate c) to have chosen; d) choosing.
		to an acute alveolar abscess. c) leading; d) have been leading.
the	e first symptoms.	s irreversible before the appearance of c) to have become; d) have become.
pu	lpitis or pulp death.	n or endodontics the only treatment of b) not to be; c) be; d) to not be.
ro	ot canals. a) to use;	st root reamers of different size to shape c) be used; d) to have been used.
ma	6. The dentist recommended saking the treatment plan. a) to have carried; b) to carry;	
	a) to moan;	te near dental chair with pain. c) to have moaned; d) to be moaning.
		s a patient a well-maintained mouth. b) had; c) to have; d) having.
	9. The dentist believed the exposing a) to be caused;b) to have been caused;	
the	10. The dentist observed the ine administration of a proper antibiot <i>a)</i> be disappearing; b) to be disappearing;	c) disappearing;
	St	udy the following:
	A complex sentence:	<u>I</u> <u>know</u> that <u>she</u> <u>brushes</u> her teeth regularly.
	The Complex Object construction:	I know that her to brush her teeth regularly.

III. Paraphrase the sentences using the Complex Object. Use the model given in the chart:

- 1. We know that the use of anaesthesia makes root canal treatment painless.
- 2. The X-ray film proved that the canal had been filled completely.
- 3. We were going to use silver points. The dentist didn't want it.
- 4. The dentist said my treatment could be completed in one visit. I'd like the dentist... *or* I'd like my treatment...
 - 5. The dentist forbade that his assistant use composite materials for root canals.
 - 6. I recommend that gutta-percha point should be cut with heated excavator blade.
- 7. Dental students watched how their teacher was inserting some antiseptic solution to sterilize the root canal.
 - 8. The patient didn't feel that an electric pulp tester was applied on the crown.
 - 9. I like when all the steps of the procedure are explained beforehand.
 - 10. I watched how the dentist was drying a root canal with paper points.

PART II. PULPOTOMY AND APICECTOMY

LANGUAGE DEVELOPMENT

I. Match the word with its definition:

1.	a technique used in dental restorations to prevent the dental pulp from necrosis, after being exposed, or nearly exposed during a cavity preparation;	a) apex, n
2.	become sound or healthy again;	b) escape, v
3.	have a similar appearance to or qualities in common with (someone or something); look or seem like;	c) flap, n
4.	a small part of something that remains when the rest of it has been removed or broken off;	d) heal, v
5.	make stitches to join together the open parts of a wound, especially the one made after a patient has been operated on;	e) perforation, n
6.	the top or highest part of something, especially the one forming a point;	f) pulp capping
7.	continue to live or exist;	g) retrograde, adj
8.	(of a substance) get out of smth; expand; leak from a container;	h) resemble, v
9.	a hole made by buring or piercing which passes through or into something;	i) stump, n
10.	directed or moving backwards;	j) survive, v
11.	a thin, flat piece of tissue which is attached to one side only and covers an opening or hangs down from something;	k) suture, v

WORD FORMATION

NEGATIVE PREFIXES

In English, one way to make negative statements is by adding negative prefixes to nouns, adjectives and verbs. Some English negative prefixes are *a-, dis-, il-, im-, ir-, non-, un-.*

• Words that take *a*- as a negative prefix always begin with a consonant,

but the prefix may become *ab*- or *an*- if a word begins with a vowel.

articular – abarticular, aerobic – anaerobic

• Words that take *dis-* as a negative prefix may begin with a vowel or a consonant.

• Words that take il- as a negative prefix always begin with the letter l.

• Words that take *im*- as a negative prefix always begin with the letter *m* or *p*.

• Words that take in- as a negative prefix can begin with a vowel (except i or u) or a consonant.

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accurate – inaccurate; sensible – insensible
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There are many words that begin with *in*- that are not words with a negative prefix. For example: incline \neq not cline; indulge \neq not dulge; insist \neq not sist; invoke \neq not voke.

• Words that take *ir*- as a negative prefix always begin with the letter *r*.

• Words that take *non-* as a negative prefix may begin with a vowel or a consonant.

• Words that take *un*- as a negative prefix may begin with a vowel or consonant.

Remember, not all words that appear to have a negative prefix are negative:

alike \neq not like; discuss \neq not cuss; universe \neq not iverse; illuminate \neq not luminate; important \neq not portant; involve \neq not volve; irrigate \neq not rigate.

Sometimes the idea of "lack of, no, without" may be expressed by suffix *-less* or *-free*: painless, rootless, symptomless, symptom-free.

II. Use negative prefixes for the following. Translate the obtained words:

accessible, regular, specific, balance, able, symptomatic, infect, legal, controlled, normal, possible, necessary, occlude, adjacent, legible, complete, reversible, successful, evitable

SUFFIXES -*TOMY*, -*ECTOMY*

Suffix	Meaning	Example
-tomy	incision,	pulpotomy (the removal of a portion of the pulp tissue) —
	<i>partial</i> removal	пульпотомия (удаление коронковой части пульпы)
-ectomy	excision,	pulpectomy (the removal of all the pulp tissue, both in the crown
	complete removal	and roots) — пульпэктомия

III. Read the words. Explain their meaning in English and translate them into Russian using a word combination and a medical term:

- a) adenotomy, frenotomy, sialodenotomy, synusotomy, osteotomy, glossotomy;
- b) apicectomy, gingivectomy, odontectomy, cystectomy, alveolectomy, abscessectomy

IV. Form the necessary part of speech:

If a child complains of pain when cold, hot or **1.** (*sweetness*) things touch their tooth/teeth, it may mean that he/she has **2.** (*pulp*). It is the **3.** (*inflame*) of the pulp and its main cause is **4.** (*negative*, *treat*) cavities. This tooth **5.** (*sensitive*) is usually the first sign that the child may have caries.

The dentist will **6.** (*recommendatory*) that the child undergoes a pulpotomy if on dental **7.** (*examine*) it is discovered that the child has caries that has **8.** (*affect*) the pulp in the crown. It is also done when the tooth decay is so close to the pulp in the crown that **9.** (*remove*) the decay will **10.** (*exposure*) the pulp.

If it is discovered, that the child has **11.** (*negative*, *reverse*) pulpitis caused by tooth decay – where the pulp in the tooth is **12.** (*severe*) damaged — then a **13.** (*pulp* + "incision") will not be **14.** (*performance*). Instead, the child will have to undergo **15.** (*pulp* + "excision") or tooth **16.** (*extract*).

You may be wondering why the child's affected tooth isn't **17.** (*simple*) removed since it is a primary tooth that will eventually be **18.** (*replace*) by a permanent one. The reason is that primary teeth help the permanent teeth to be arranged properly and will have enough space when they start to **19.** (*growth*).

V. Combine the two columns to make a word combination. Use them in the sentences of your own:

healing	the pulp
retrograde	the infected tissue
the pulp	occurs
to cover	a flap
to seal off	into place
to raise	survives
to expose	the apex
to scrape away	syringing
to suture back	the stump
to remove by	root filling

VI. Substitute the words in italics by their synonyms:

Pulpotomy: Procedure

The area around the tooth will be numbed with a topical anaesthetic, then a local **1.** (anaesthetic) will be injected.

The dentist will **2.** (*single out*) the tooth to be treated and **3.** (*eliminate*) any tooth decay on or around the teeth to prevent **4.** (*infection*) of the pulp.

The pulp chamber will be opened by **5.** (perforating with a bur) through the enamel and the dentin. Once the roof of the pulp is drilled through, it will **6.** (discharge some blood). This shows that the pulp is still **7.** (sound). If the pulp chamber is **8.** (full) of pus or it's **9.** (hollow) and dry, the dentist cannot continue with the **10.** (pulp incision). She/he must either perform a **11.** (pulp excision) or tooth extraction.

The coronal pulp will then be **12.** (*removed*). When this is done, **13.** (*wet*) cotton **14.** (*swabs*) or pellets will be used to **15.** (*stop*) the **16.** (*haemorrhage*) and clean the area. Ideally, this blood discharge should stop within a minute or two, or tops five.

If the bleeding doesn't stop after that time, it shows that the pulp in the **17.** (radicular part) is no longer healthy, and has probably been **18.** (affected) by **19.** (caries). So, a pulpectomy or tooth **20.** (pulling) out will have to be performed.

VII. Choose a word from the box and complete the text:

apicectomy	crown	oral hygiene	symptom-free	replaces previously blood clotting treatment uncontrolled	
non-vital	removed	re-treatment	gum		
access	visible	repair	general anaesthesia		
canal	nerves	respond	remnants		
inert	restoration	stump	endodontic		
Apicectomy — What Is It?					

An 1. _____ is a surgical procedure in which the apex of a tooth is 2. _____ and the root tip **3.** _____ is hermetically sealed with a root filling. An apicectomy should be considered only when traditional 4. _____ root filling techniques have failed. A conventional endodontic 5. ______ is indicated if the dental pulp becomes **6.** ______ or is likely to be put at risk due to the type or size of **7.** _____ needed to **8.** the tooth. During endodontic treatment, the dentist removes the dead **9.** of the dental pulp and 10. _____ it with an 11. ____ filling material which is 12. ____ on an X-ray. Most teeth will 13. _____ satisfactorily to this type of treatment and become Apicectomies ARE NOT done on: ✓ teeth that have been 15. _____ apicected (low success rate for repeated apicectomies); ✓ molar teeth (difficult 16. _____, low success rate and potential problems with **17.** and sinuses); ✓ patients who have poor 18. ______, active 19. _____ disease or **20.** _____ tooth decay;

✓	teeth where the post-crowns do not fit the root 21.	or the post has been
	re-cemented on more than one occasion;	
✓	teeth where there is little tooth substance left to place a 22.	on afterwards;
✓	teeth which have post-crowns that can be removed to allow 23.	·
✓	patients who require intravenous sedation / 24;	
✓	patients at risk from bacterial endocarditis or with 25	disorders.

VIII. Choose the correct preposition or adverb:

Frequently Asked Questions about Apicectomies

What is an apicectomy? An apicectomy is a minor procedure to remove the tip (apex) of the root of a tooth. This will be done 1. (in, with, by) association 2. (for, with, of) the root treatment of the tooth. Sometimes, apicectomies also involve the removal of a cyst 3. (on, to, at) the top of the tooth root. Apicectomies are more often performed 4. (for, in, at) front teeth — they are easier to access — but can be carried out 5. (at, on, with) back teeth.

How are apicectomies performed? Apicectomies are usually carried out **6.** (*by, with, under*) local anaesthesia while you are awake. The dentist or oral and maxillofacial surgeon will need to gain access **7.** (*to, at, for*) the tip of the root, which means that they will make an incision **8.** (*of, in, on*) your gum raising a "flap" **9.** (*by, with*) a scalpel and then might need to remove **10.** (*away, off,* –) some bony tissue. The root apex of the tooth is removed by drilling along with the infection or cyst scraped **11.** (*away, out, from*) with an instrument. A small white filling is placed **12.** (*on, at, to*) the end of the tooth to seal it. The gum flap is then replaced and held **13.** (*at, on, in*) place with dissolving sutures (stitches).

How long does it take to heal after the apicectomy? The sutures disappear usually **14.** (*for, during, within*) two weeks and over time the bony window heals up **15.** (*under, on, to*) the gum. If the procedure is successful, it takes **16.** (*away, about, in*) six months for some bone to replace the space where the root apex and cyst were removed.

GRAMMAR PRACTICE

I. Spot the sentences with the Complex Object construction. Translate them into Russian.

- 1. Each group of teeth is known to perform specific function.
- 2. I would like you to consult an oral surgeon.
- 3. They send patients to X-ray examination to make a correct diagnosis.
- 4. They believed the endodontic treatment to have been performed successfully.
- 5. Students watched the dentist perform flap surgery lifting gums to remove underlying tartar.
 - 6. He was the first scientist to suggest water, milk and salt fluoridation.
 - 7. It is impossible to save his broken tooth. It's too late.
- 8. The endodontist considered complete nerve death to be the consequence of untreated pulpitis.
- 9. An oral surgeon recommended his patient to undergo tissue grafting to treat gingivitis.
 - 10. Patient Smith is supposed to have his root canals re-treated next visit.
 - 11. The patient heard the dentist scraping a tooth with a curette.

II. Fill in the appropriate verb from the box. Mind the use of particle "to":

(to) extract	(to) remove	(to) protect	(to) be used	(to) carry out
	(to) have been blocked		(to) have been made	(to) be covered
2. He believe3. We know4. The dentition	she agreed a surged pulpotomy not cementst let his assistant	on ac _ in retrograde re	lult teeth.	ive field with saline
solution.				
5. The X-ray	of the patient's to	ooth showed irrita	ant cement	_ through the apex.
6. She expec	eted pulp capping	the pi	ulp from infection.	
7. The surg	eon advised the	amputated pulp	stump	_ with a calcium
hydroxide dressin	g.			
8. The dent	ist determined th	ne canal	by a broken	instrument during
the previous treatr	nent.			
	ne dentisttist found out the		tality tests sterile before	inserting the filling

III. Translate into English using the Complex Object construction:

- 1. Мы узнали, что после эндодонтического лечения зуб требует установки коронки.
- 2. Стоматолог предположил, что боль была вызвана инфекцией мягких тканей внутри корневого канала.
- 3. Пациент хотел, чтобы лечение корневых каналов было закончено за одно посещение.
- 4. Стоматолог распорядился, чтобы ассистент подготовил набор файлов и штифтов для обработки и пломбирования каналов.
- 5. Серия рентгеновских снимков позволяет стоматологу понять полностью ли запломбирован канал.
- 6. Студенты наблюдали, как гуттаперчевые штифты вводились в канал и обрезались нагретым инструментом.
- 7. После промывания каналов стоматолог заставил пациента прополоскать рот хлоргексидином несколько раз.
 - 8. Я бы хотел, чтобы мой зуб не удалили, а запломбировали корневые каналы.
- 9. Пациент не почувствовал, как хирург-стоматолог поднял десневой лоскут и просверлил отверстие в кости.
- 10. Стоматолог запретил пациенту чистить зубы жесткой щеткой в первую неделю после апикэктомии.

PART III. PERIODONTAL DISEASES

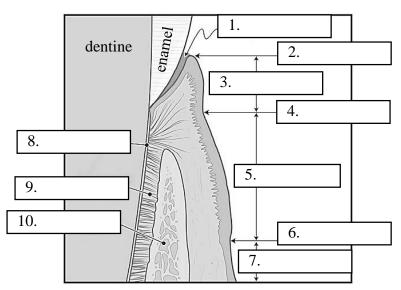
LANGUAGE DEVELOPMENT

I. Match the word with its definition:

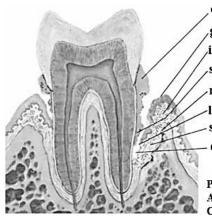
1. a serious gum infection that damages the soft tissue and, without treatment, can destroy the bone that supports the teeth;	a) aggravate, v
2. a dental term indicating the presence of an abnormal depth of the gingival sulcus near the point at which the gingival tissue contacts the tooth;	b) calculus/tartar, n
3. to remove tartar from the teeth above and below the gum line by scraping them with ultrasonic or hand instruments;	c) gingivitis, n
4. a sticky, colourless or pale yellow biofilm of microorganisms (mostly bacteria but also fungi) constantly forming on and between the teeth and along the gum line;	d) periodontal pocket
5. to make a problem, injury, or disease worse or more serious;	e) periodontitis, n
6. tending to hold tightly onto something, clinging or adhering closely;	f) plaque, n
7. a common and mild form of gum disease (periodontal disease) that causes irritation, redness and swelling (inflammation) of the part of the gum around the base of teeth;	g) scale, v
8. to develop into or become affected by small sores;	h) tenacious, adj
9. a mineralized (calcified) bacterial plaque formed on subgingival and/or supragingival tooth surfaces where there is constant supply of saliva.	i) ulcerate, v

II. Label the diagram using the words from the box:

attached gingiva gingival margin
periodontal ligament (=membrane) free gingiva
cementum mucogingival junction
free gingival groove gingival crevice (sulcus)
alveolar mucosa alveolar bone



III. Give the Russian equivalents for the structures shown in the picture:



coronal calculus gingival crest receded inflammatory infiltration subgingival calculus resorption of bone loss of epithelial attachment

swelling, degeneration of periodontal membrane depth of pocket

PERIODONTAL DISEASE AFFECTING THE SUPPORTING STRUCTURES OF THE TOOTH

IV. Match the words logically:

periodontal

chronic deposit / stagnation

underlying smooth solid endodontic accumulation improve tiny acute irritant heal overlying prevent enlarged jagged ulcerate restore

aggravate loose destroy cause

V. Form the necessary part of speech:

Causes of Periodontal Disease

The primary cause of **1.** (gingiva + "inflammation") is poor or **2.** (effective, negative) oral hygiene which leads to the 3. (accumulate) of debris and bacteria at the gum line, called dental plaque. Other 4. (contribute) are poor nutrition and 5. (under + lie) medical conditions such as diabetes.

In some people, gingivitis progresses to periodontitis. This condition is characterized by the **6.** (destroy) of the gingival **7.** (fibrous, plural). The gum tissues separate from the tooth and the sulcus deepens forming the so-called **8.** ("around" + dental) pocket. 9. ("Beneath the gingiva", adjective) microorganisms colonize the periodontal pockets and cause further **10.** (*inflame*) in the gum tissues and progressive bone **11.** (*lose*).

- **12.** (Smoke) is another factor that increases the **13.** (occur) of periodontitis, directly or indirectly, and may interfere with or affect 14. (adverse) its 15. (treat). It is 16. (important, superlative) environmental risk factor for periodontitis. Research has 17. (show) that smokers have more bone loss, **18.** (attach) loss and tooth loss compared to **19.** (smokers, *negative*) because smoking has several effects on the immune **20.** (respond) including:
- ✓ it decreases the time of wound **21.** (heal);
- ✓ it suppresses antibody **22.** (produce);
- ✓ it reduces neutrophilic **23.** (phagocyte + "process; condition").

VI. Choose a word from the box and complete the text:

progresses	destruction	history	anchored	interfere
advance	pulls away	habits	saliva	pregnancy
cause	contribute	precedes	plaque	sockets
bleed	irritated	pockets	debris	deepen
loose	bacterial growth	repair	damage	puberty

Gingivitis and Periodontal Disease

Periodontitis, also generally called gum disease or periodontal disease, begins with
1 in the mouth and may end — if not properly treated — with tooth loss
due to 2 of the tissue that surrounds the teeth.
Gingivitis (gum inflammation) usually 3 periodontitis (gum disease). At
the early stage of gingivitis, bacteria in 4 build up, causing the gums to
become inflamed and to 5 easily during tooth brushing. Although the gums
may be 6. , the teeth are still firmly planted in their 7. No irreversible
bone or other tissue 8. has occurred at this stage.
When gingivitis is left untreated, it can 9 to periodontitis. In a person with
periodontitis, the inner layer of the gum and bone 10 from the teeth and
forms 11 These small spaces between teeth and gums collect 12
and can become infected. As the disease 13, the pockets 14 and
more gum tissue and bone are destroyed. When this happens, teeth are no longer
15. in place, they become 16. , and tooth loss occurs.
Plaque is the primary 17 of gum disease. However, other factors can
18 to periodontal disease. These include:
✓ Hormonal changes, such as those occurring during 19, 20
or menopause make gums more sensitive.
✓ Illnesses may affect the condition of the gums. This includes diabetes, cancer or HIV
that 21. with the immune system.
✓ Medications can affect oral health, because some lessen the flow of 22
which has a protective effect on teeth and gums. Some drugs can cause abnormal growth
of gum tissue.
✓ Bad habits, for example, smoking, make it harder for gum tissue to 23 itself.
✓ Poor oral hygiene 24. like not brushing and flossing on a daily basis, make
it easier for gingivitis to develop.
✓ Family 25 of dental disease can be a contributing factor for the development
of gingivitis.

VII. Choose the correct preposition or adverb:

Periodontitis

1. (*In*, *On*, *At*) the early stages of periodontitis, the gums recede **2.** (*of*, *from*, *away*) the teeth and small pockets are formed **3.** (*between*, *among*, *around*) gums and teeth. The pockets harbour harmful bacteria. The immune system tries to fight **4.** (*with*, *off*, –) the infection and gum tissue starts to recede. The patient will likely experience bleeding during brushing and flossing as well, and possibly some bone loss.

To treat periodontitis the dentist will give some instructions 5. (-, about, on) how to reduce the number of bacteria in the mouth. During a professional cleaning, the doctor will remove plaque build-up and tartar 6. (from, of, away) the teeth and their roots, and then

polish the teeth and treat them **7.** (by, with, for) fluoride. A deep-cleaning method called scaling and root planning will help to scrape **8.** (–, out, off) tartar and remove any rough spots **9.** (on, in, at) the tooth root where bacteria tend to gather.

In some cases, the dentist will prescribe antibiotics to help **10.** (–, with, for) persistent gum infections that haven't responded **11.** (on, for, to) cleanings. The antibiotic might be **12.** (by, as, in) the form of a mouthwash, gel or an oral tablet.

If inflammation persists in sites inaccessible to brushing and flossing, the dentist may recommend a surgical procedure called flap surgery to clean deposits 13. (under, from, off) the gums. 14. (On, Under, Beneath) anaesthesia, the gums are lifted 15. (of, away, from) and the roots of the teeth are cleaned. The gums are then sutured back 16. (to, in, into) place. If any bone loss is observed, a procedure known as bone grafting may be done 17. (at, in, on) the same time as flap surgery to regenerate the lost bone.

GRAMMAR PRACTICE

I. Correct the mistakes:

- 1. Periodontitis can causes teeth to loosen or lead to tooth loss.
- 2. I would like she to consult a dental surgeon.
- 3. We know some periodontal diseases progress rapidly.
- 4. Dentists consider periodontitis destroying the tissues anchoring teeth into the bone.
- 5. I saw my colleague to remove subgingival calculus with hand instruments.
- 6. Scientific studies have shown regular use of mouthwash twice daily to reduces accumulation of dental plaque by 50 %.
- 7. Examining a pregnant woman the dentist found out her to have periodontal disease during her previous pregnancies too.
- 8. The dentist supposed the patient to not have applied an antibiotic gel to his inflamed gums.

II. Make sentences from the words in the columns. Translate them into Russian:

			to affect the supporting structures of
			the teeth.
			to involve the gum alone.
		periodontal	to be caused by accumulation of debris
		disease	at the gum margin.
I	know		to pay attention to their oral hygiene.
		gingivitis	to show me endodontic instruments.
We	recommend(s)	my patients	to be filled carefully.
		root canals	use a rubber dam in endodontic
The dentist	watched		treatment.
		his colleague	shape root canals.
The students	would like	my teeth	introduce gutta-percha points into
			the canals.
		the endodontist	to be scaled.
			to eliminate gingival pockets surgically.
			to remove interdental plaque by
			flossing.

PART IV. SCALING AND GINGIVECTOMY

LANGUAGE DEVELOPMENT

- I. Study the word cloud.
- a) Distribute the words into groups:

Procedures and Actions	Equipment
brush sanite and pocket marker brush 1115 Pocket brush 1115 Pocket marker brush 1115 Pocket marker brush 1115 Pocket marker brush 1115 Pocket brush 1115 P	massaging St. Charling the triple of the probe happing probe napkin saliva ejector

b) Consult Internet or a dictionary to find out the information about unknown instruments. What are they used for?

II. Match the word with its definition:

1. a new occurrence of something that happened or appeared before;	a) detachable, adj
a repeated occurrence;	
2. certain to happen; unavoidable;	b) dislodge, v
3. the beginning of something, especially something unpleasant;	c) entail, v
4. to remove (dirt or moisture) from something using a cloth, a piece	d) futile, adj
of paper, etc;	
5. a hot or cold pad of absorbent material used for treating an injury;	e) inevitable, adj
6. to remove something from where it was fixed or held;	f) onset, n
7. to involve something as a necessary or inevitable part or	g) pack, n
consequence;	
8. made so that it can be removed from the object;	h) recurrence, n
9. having no effective result; unsuccessful.	i) wipe, v

III. Combine the two columns to make a word combination. Translate them into Russian:

- 1. the removal
- a) subgingival deposits
- 2. to cover
- **b**) the gum with a gingivectomy knife

3. to cure

- c) for the treatment of periodontal disease
- 4. to detect
- d) of calculus and plaque

5. to dislodge e) considerable bleeding f) the onset of periodontal disease **6.** to entail g) rapid painless healing 7. to incise **h)** the raw area with a pack **8.** to make i) care over oral hygiene **9.** to perform **10.** to prevent i) detachable blades 11. to produce k) a recurrence of the original condition 1) cases with shallow gingival pockets 12. to promote 13. to result in **m**) much instrumentation n) the procedure painless **14.** to take **15.** to use o) scales of calculus

IV. Choose a word from the box and complete the text:

remove	jet	softer	sub-gingivally	vibrational
pockets	roots	recede	cementum	gum line
damaging	debris	smooth	manual	beneficial
calculus deposits	gently	surfaces	plaque biofilms	shallow

What Is an Ultrasonic Scaler?

The infection and inflammation of gum tissue can cause what are called periodontal
1 which are spaces in between the teeth and gums as the gums 2
and begin to pull away from your teeth. Ultrasonic scalers are as effective as 3.
instruments for removing calculus in 4 gum pockets, but if you have any pockets
greater than 4 mm, then they are significantly more effective.
An ultrasonic scaler allows a hygienist to 5 calculus from the teeth in a way
that is very gentle, producing minimal or no damage to your teeth and tooth 6.
which is critical. Part of the purpose of a hygiene treatment is to leave your tooth surfaces
nice and 7, because the smoother the surface, the harder it is for 8
to re-attach themselves.
Ultrasonic scalers use ultrasound to remove 9 from the teeth more
effectively. They work mechanically using high 10 energy that effectively
breaks calculus, so that it will be easier to remove. The 11 of water helps to
cool the tip of the ultrasonic scaler and is highly effective at helping to flush away
12. from the tooth being treated.
Initially ultrasonic scalers were used to only remove calculus deposits on tooth
13 visible in the mouth, but they can also be used 14, meaning
they can remove calculus deposits from just below the 15, cleaning
the surfaces of tooth roots without 16 them. While the teeth are covered with
a hard layer of enamel, tooth roots are covered with something called 17.
which is much 18 than enamel and more easily damaged, so it's vital that any
calculus on the tooth roots is 19 removed. Ultrasonic scalers can be especially
20 if a patient has any signs of gum disease.

V. Choose the correct preposition or adverb:

Gingival or periodontal flap surgery is indicated **1.** (*in*, *for*, *against*) advanced periodontal disease, when the stability of the teeth is compromised **2.** (*with*, *by*, *of*) infection, which displaces the ligament and bone. **3.** (*At*, *In*, *On*) gingivectomy, the gingival

flap is resected or separated **4.** (of, away, from) the bone, exposing the root. The calculus build-up **5.** (on, at, near) the tooth, down to the root, is removed. The surgery is performed **6.** (with, under, at) local anaesthesia.

Surgery will take place in the periodontist's office and usually takes a few hours 7. (by, since, from) the time of surgery 8. (until, to, for) the anaesthetic wears off. After that, normal activities are encouraged. It takes a few days or weeks 9. (to, for, -) the gums to heal completely. Ibuprofen or acetaminophen are very effective 10. (with, against, for) pain. Dental management after surgery that includes deep cleaning 11. (by, by means of, with) a dental hygienist will be put in force to maintain the health of the gums. Visits 12. (-, to, of) the dentist 13. (for, since, in) the first year are scheduled every three months to remove plaque and tartar build-up. After a year, periodontal cleaning is required 14. (for, -, in) every six months.

GRAMMAR PRACTICE

THE FORMS OF THE GERUND

	Active	Passive
 Simple gerund can refer to the same time as that of the verb in the main clause can also refer to a time before that of the verb in the main clause 	writing	being written
Perfect gerund refers to a time before that of the verb in the main clause. It is only used if the time of the action expressed by the gerund is not obvious from the context. If it is clear that an earlier time is meant, we use the simple gerund.		having been written

In the negative, *not* usually comes before the gerund:

There is no point in **applying** for the grant. There is no point in **not applying** for the grant.

In some cases, the verb in the main clause is negative, not the gerund:

I don't like using too much anaesthetics.

I. Fill the gaps with a preposition and an -ing form:

	from	of		placing	treating and repairing		
	in	on		sealing	recommending or beginning		
	of	before		developing	filling		
	for	by		growing	detecting		
	by	with		returning	tapping		
	1. Restoration is the process something to its original condition.						
2. Filling prevents the decay deeper.							
	3. In many cases sensitivity of a decayed tooth is eliminated						
an	an appropriate dental filling material.						
	4. The clinical signs of abscess include swollen face, permanent pain and severe						
to	toothache the tooth.						
	5. The t	ooth can be	saved		the cavity.		

6. Untreated gingivitis increases the r	isk serious periodontal
problems in future.	
7. Flap surgery is the leading method _	periodontal pockets if they
can't be removed by scaling and cleaning.	
8. The dentist is busy	the root canal with gutta-percha.
9. The dentist should take X-rays, carry	out visual examination and make a diagnosis
scaling and root planing.	
10. A significant success has been ach	ieved the etiological and
nathological links between periodontal disease	e and other systemic conditions.

THE FORMS OF THE PARTICIPLE

	Active	Passive
Present participle shows that this time is the same as the time of the preceding verb or the verb in the main clause	writing	being written
Perfect participle shows that the time of the action that it refers to is before that of the verb in the main clause	having written	having been written
Past participle	written	written

THE DIFFERENCE BETWEEN THE GERUND AND THE PRESENT PARTICIPLE

A **Gerund** always functions as a **noun**:

Root canal filling can be an alternative to the extraction.

What I really like is **consulting** paediatric patients.

The dentists suggested taking some more X-rays.

The patient rushed out of the consulting room without saying a word.

Could you give up **smoking**?

We had no drinking water left.

The **Present Participle** has the following functions:

Function	Function Example sentence		
Continuous The patient wasn't moaning.			
aspect	What have you been doing?		
-	You must be sterilizing the instruments.		
	I happened to be passing your clinic.		
Adjective	The survey revealed some worrying results.		
v	The results of the survey were/seemed worrying.		
Participle	The man holding the jaw was not injured.		
clauses	The patient was moaning with pain (while) waiting for the doctor.		
	Opening the cupboard, I found two boxes with gutta-percha points.		
	Having nothing left to do, the nurse went home.		

II. Read and translate the sentences. Define the type of -ing form:

- 1. Periodontal disease is a common, complex, inflammatory disease characterized by the damage of tooth-supporting tissues of periodontium including periodontal ligament and alveolar bone.
 - 2. All filling materials are used to smooth dental surfaces to improve biting and chewing.
 - 3. Quitting smoking is very important for periodontal therapy to be successful.
- 4. The surrounding alveolar, or exposed bone, may require reforming to ensure proper healing.
 - 5. A putty-like coating spread over the teeth and gums protects the sutures.
- 6. This coating serves as a kind of bandage and allows the eating of soft foods and drinking of liquids after surgery.
- 7. If it hurts only when eating or drinking something cold or sweet, or when breathing cold air, the decay is deep enough for the nerve to feel temperature changes.
 - 8. Aggressive periodontal disease involves a rapid worsening of symptoms.
- 9. All periodontal diseases have similar symptoms but they may vary depending on the form of the condition.
- 10. In gingivitis red and swollen gums, gums that easily bleed while brushing and flossing, receding gum line, bad breath can be observed.

III. Choose the best form of an	n -ing form:
1. Diabetics, pregnant we gingivitis.	omen and steroid users face increased risks of
a) developing;	c) being developed; d) having been developed.
examine the mouth, measure th <i>a) determining;</i>	rerity of periodontitis a dentist may review a medical history, the pocket depth and take dental X-rays. c) having determined; d) having been determined.
bacteria and removes bacterial a) having discouraging	the root surfaces further build-up of tartar and by-products. g; c) being discouraged; d) having been discouraged.
4. More than one in three beyond gingivitis.	ee people over the age of 30 have a form of periodontitis
a) advancing;b) being advanced;	c) having advanced; d) having been advanced.
5. When the disease prog bone destruction. <i>a) being led; b) leading;</i>	
from your teeth. <i>a) doing;</i>	can help to remove most of the plaque c) being done;
b) having done;	d) having been done.

/. The female patient with	i gingivitis has started an oral contraceptive recently.
a) taking;	c) having taken;
b) being taken;	d) having been taken.
8 on two we	eeks before the patient with acute periostitis is still receiving
antibiotics intravenously.	
a) operating;	c) being operated;
b) having operated;	d) having been operated.
9. Bacteria	_ to grow, spread and cause damage have destroyed
the connective tissues that supp	ort the teeth.
a) allowing;	c) having allowed;
b) being allowed;	d) having been allowed.
10. The second step of	periodontal therapy involves surgical procedures with
the intention oft	he prognosis of teeth and aesthetics.
a) improving;	c) being improved;
b) having improved;	d) having been improved.

PART V. ORAL SURGERY

LANGUAGE DEVELOPMENT

I. Match the word with its definition:

1. to break (a bone) into several small fragments;	a) biopsy, n
2. a tooth that, for some reason, has been blocked from breaking	b) bruxism, n
through the gum;	
3. the action of taking out something, especially using effort or force;	c) comminute, v
4. to insert or fix (tissue or an artificial object) in a person's body,	d) complication, n
especially by surgery;	_
5. an examination of body fluid or tissue removed from a living body	e) denture, n
to discover the presence, cause, or extent of a disease;	
6. to reattach surgically to the body (a part that has been removed or	f) extraction, n
severed);	
7. to dislocate, put something out of its normal position;	g) impacted (tooth)
8. the involuntary or habitual grinding of the teeth, typically during	h) implant, v
sleep;	_
9. a removable plate or frame holding one or more artificial teeth;	i) luxate, v
10. a medical problem that occurs as a result of another illness or	j) replant, v
disease.	

II. Translate the following word combinations:

- 1. the branch of dentistry; to branch;
- 2. to suffer a trauma; traumatic injuries; to traumatize teeth;
- 3. removable denture; fixed denture; to replace by a denture;
- 4. to luxate; luxation; to become luxated;
- 5. comminuted teeth; to comminute
- 6. to replant a totally displaced tooth; a tooth may be replanted

III. Choose a word from the box and complete the text:

office	treatment	permanent	hospital	
anaesthesia	trauma	procedures	removal	
fracture	surgery	extraction	impacted	
When you hear	the words "oral surge	ery", you may think	of a 1.	setting,
general 2.	and one or more day	s in recovery from th	is type of dental prod	cedure.
But you might be su	rprised to know wha	t is actually consid	ered oral 3	in
Dentistry. Many 4	done in a g	eneral dental 5	are consider	ed oral
surgery and patients	s that require such	procedures are b	ooked for them v	without
the inconvenience of b	being put on a waiting	list for 6.	<u>_</u> .	
The most recogn	nized form of oral sur	gery is tooth 7	Reasons fo	r tooth
extraction can range fi	om:			
✓ 8 or j	partially erupted wisdo	om teeth		
✓ teeth beyond repair	either from tooth dec	ay, root 9.	or 10.	_;
✓ primary teeth that l	nave failed to fall out,	preventing the erupti	on of 11.	teeth;
✓ orthodontic treatm	ent plans may require	the 12.	_ of some teeth to a	achieve
the optimum result				

IV. Change the words in italics for their synonyms:

If you've been told, "you need to have a tooth extracted", it's natural to feel **1.** (a bit nervous). But the old phrase "it's like pulling teeth" no more will really describe how dentists **2.** (carry out) this **3.** (standard manipulation).

Dentists always try to **4.** (*maintain*) your natural teeth, but sometimes it is impossible. If **5.** (*caries*) has gone untreated for a long time, it may **6.** (*damage*) or destroy most of the structures that **7.** (*hold*) the tooth. A tooth like this may not **8.** (*be sound at work*).

Because of severe gum diseases, the tooth can **9.** (*separate*) from the tissues that **10.** (*encircle*) and **11.** (*hold*) it in the mouth. When this happens, **12.** (*removing*) the tooth is sometimes the best option.

V. Form the necessary part of speech:

Corrective Jaw Surgery. Orthognathic surgery, known as jaw surgery, is performed by an oral and 1. (maxilla + face) surgeon. Common reasons for jaw surgery include:

- ✓ TMJ or 2. (templum + mandible) joint pain and dysfunction caused by trauma or 3. (deform);
- ✓ major or minor **4.** (traumatic);
- ✓ 5. (mal + occlude) or incorrect bite;
- ✓ bruxism or clenching, grinding of the teeth causing **6.** (excess) tooth wear;
- \checkmark difficulty 7. (chew, eat, open) and 8. (close) the mouth or 9. (talk);
- ✓ 10. (correct, negative) jaw position and unproportioned facial 11. (appear).

Your dentist will refer you to see an oral surgeon if he/she expects the situation to benefit from a **12.** (*surgeon*) treatment option.

Dental Implants. Dental implants are becoming a common procedure to replace **13.** (*miss*) teeth or provide **14.** (*stable*) to a new or existing denture. Performed by a dentist or oral surgeon, the procedure for placing a dental implant may **15.** (*various*) depending on the technique used by the specialist and type of a **16.** (*use*) implant. Most people that have had a dental implant report the **17.** (*recover*) was similar to that of a tooth **18.** (*extract*) and they were able to return to normal eating within a week after the procedure.

VI. Choose the correct preposition or adverb:

Detection and Treatment of Diseases

Over 34,000 Americans will be diagnosed **1.** (with, of, –) oral cancer resulting **2.** (from, in, to) 8,000 deaths every year. The dentist is considered to be highly skilled in case he is able to detect oral cancer, as the signs of this devastating disease typically go unnoticed and are not easily detected. If the dentist discovers something suspicious **3.** (on, at, in) an area of the mouth, face, neck or jaw that may have an underlying problem, a biopsy may be performed to further diagnose the condition. A biopsy is usually a surgical procedure that is used to remove **4.** (–, from, out) a piece of tissue in an area of the body that is suspected as being diseased. The patient may be referred **5.** (for, to, –) an oral surgeon for the biopsy, but **6.** (within, on, in) some cases this procedure may be performed by a general dentist. Oral surgery is commonly used to treat oral cancer and may be used in combination treatment **7.** (with, by, along) radiation therapy. Chemotherapy uses drugs to kill cancer cells. Researchers are looking **8.** (at, for, after) effective drugs or drug combinations to treat oral cancer. They are also exploring ways to combine chemotherapy with other forms of cancer treatment to help destroy the tumour and prevent the disease **9.** (against, away, from) spreading.

GRAMMAR PRACTICE

THE ABSOLUTE CONSTRUCTIONS

1. The Nominative Absolute Participial construction

The toothache being severe, I took a pain-killer tablet.

<u>Так как</u> зубная боль была сильной, я принял таблетку обезболивающего.

The tooth <u>having been X-rayed</u>, the dentist could make a correct diagnosis.

<u>После того, как</u> был сделан снимок зуба, стоматолог смог поставить правильный диагноз.

The dentist extracted the destroyed tooth, the assistant stopping minor bleeding from the wound.

Стоматолог удалил зуб, а ассистент остановил незначительное кровотечение из раны.

2. The Prepositional Absolute Participial construction

It is formed of the previous construction by adding the preposition *with* at the beginning. In the research data, the age of the children in group 1 ranged from 9–12 years, <u>with</u> most participants being 10 years old (74 %).

По данным исследования, возраст детей в 1-й группе варьировал от 9 до 12 лет, <u>причем</u> большинству участников было 10 лет (74 %).

3. The Nominative Absolute construction

It is formed of the Nominative Absolute Participial construction by *omitting* the participle of the verb *to be*.

The patient set in the dental chair, the dentist and the assistant being at his side.

Пациент сидел в стоматологическом кресле, а стоматолог и ассистент были рядом с ним.

4. The Prepositional Absolute construction

It is a combination of models 2 and 3.

With both a dentist and a nurse being out, the surgery was locked.

<u>Поскольку</u> ни стоматолога, ни медсестры не было на месте, кабинет был закрыт.

I. Read and translate the following sentences. Mind the Absolute constructions:

- 1. The patient wearing dentures, oral mucosa showed some signs of irritation.
- 2. One needs to consult a dentist as soon as possible, certain changes in oral cavity becoming apparent.
- 3. Hypercementosis complicating the course of periodontitis, the sequence of treatment procedures should be carefully considered.
 - 4. All the doctors decided to postpone the operation, the issue having been discussed.
 - 5. Cells becoming abnormal and dividing without control or order, cancer occurs.
- 6. Cancer cells breaking away from a malignant tumour, they can enter the bloodstream or the lymphatic system.
 - 7. The patient having teeth with curved roots, surgical removal was the best option.
 - 8. The tooth having been numbed, the dentist uses an elevator to loosen it.
- 9. The diagnosis of TMJ disorder was suggested, the patient complaining of headaches, difficulty opening and closing the mouth.
- 10. Implants being anchored to the bone and covered with a crown, they don't require other teeth for support.

II. Choose the best form of the participle. Translate the sentences:

1.	. The dentist	the patient about her condition, she did not mention any
sympto	oms.	
	a) asking;	c) being asked;
	b) having asked;	d) having been asked.
	. The doctorimmediately.	the patient about the treatment plan, the patient agreed to
	a) informing;	c) being informed;
		d) having been informed.
	. The jawsotal periodontitis.	_ together hard, a condition called concussion may develop
	a) striking;	c) being struck;
		d) having been struck.
	The tooth patient keeps it for 30 r	, the place of extraction is covered with a piece of gauze minutes.
	a) extracting;	c) being extracted;
	b) having extracted;	d) having been extracted.
5.	. Ice packs	_, the patient still complained of the extraction side being
sore.		
	a) applying;	c) being applied;
	b) having applied;	d) having been applied.
6.	. Implants	of titanium, the body accepts them well.
	a) making;	c) being made;
	b) having made;	d) having been made.

	mmonly on the buccal mucosa, they may be
found throughout the oral cavi	ty.
a) locating;	c) being located;
b) having located;	d) having been located.
8. The fracture	frontal teeth, the patient needed a suitable method of
fixation.	
a) involving;	c) being involved;
b) having involved;	d) having been involved.
9. A severe loss of bony	tissue loss of function, it may be considerable
interference with the patient's	normal mastication, speech and appearance.
a) causing;	• • • • • • • • • • • • • • • • • • • •
	d) having been caused.
10. The luxation of a pa	artially displaced tooth, the tooth is held in its
natural position with wires or s	special splints.
a) reducing;	c) being reduced;
b) having reduced:	d) having been reduced.

UNIT IV. PROSTHETICS. ORTHODONTICS

PART I. PROSTHETICS

LANGUAGE DEVELOPMENT

I. Fill in the gap	os with a suitable word and	say what prosthodontic	es is:
Prosthetic de	ntistry, also known as 1.	is a branch of 2	• that covers
the scope of repla	cing 3 teeth b	y the use of 4.	and other artificial
dental methods. It	also deals with the reconst	ruction of other oral def	fects like missing parts
of teeth and proble	ems on the structures of 5.	and tooth b	ones. Prosthetic dental
treatment means th	nat a damaged single 6.	or all teeth are l	being 7. by
an artificial method	d constructed in a dental lab	oratory.	
Dental prostl	hetics is changing the way	we face dental defect	s nowadays. It boosts
confidence in a 1	person for smiling and 8	• This is	not just for aesthetic
9. , but	it also has a significant ro	le. Modern dental pros	thesis restores normal
10. fun	action in a patient, thus, ens	uring overall good healt	h.

II. Read the text. Choose the best word and answer the questions below:

Tooth Loss: Cause and Effect

Strong **1.** (*tooth*, *teeth*) symbolize **2.** (*poor*, *better*, *good*) health and a healthy **3.** (*lifestyle*, *life*). The loss of a tooth not only has serious physiological effects but harms self-confidence and the quality of **4.** (*lifestyle*, *life*).

There **5.** (*is*, *are*) many reasons **6.** (*on*, *for*, *to*) tooth loss: congenital condition, injury, periodontal disease, or decay. A single tooth **7.** (*must*, *should*, *may*) be missing, or several teeth or more, including all upper or all lower teeth.

After losing one or more teeth, changes occur in the oral **8.** (*mouth*, –, *cavity*). The adjacent teeth, jaw bone, and jaw joint **9.** (*is, are*) all affected **10.** (*by, to, in*) the length of time the site remains **11.** (*with, without*) a tooth. Adjacent teeth may **12.** (*displace, be displaced, displaced*) and close to the **13.** (*open, filled, empty*) space. This shift causes changes in the distance **14.** (*among, between*) the teeth, leading **15.** (*to, from, in*) occlusion issues. Changes to the jaw joint can produce **16.** (*diseases, illness, disorders*) such as facial pain that manifests over time. There may be bone loss around the **17.** (*missing, existing, lacking*) tooth, which leads to aesthetic issues and may **18.** (*restricted, be restricted, restrict*) future restoration options.

Extensive **19.** (*loss of, missing, existing*) teeth causes significant damage **20.** (*for, to, in*) the aesthetics of the face, the profile, and the jawline. Over time, tooth loss leads **21.** (*to, for, in*) an older appearance as the cheeks, chin, or jaw shrink or sag. Beyond the aesthetics, of course, tooth loss impairs your ability to **22.** (*swallow, chew, breathe*). You may avoid eating certain difficult-to-chew foods such as apples or carrots, which may affect your overall health. Tooth loss can also change speech and pronunciation.

Answer the following questions:

- 1. What does the loss of teeth harm?
- 2. What are the reasons for tooth loss?
- 3. Where do changes occur in case of tooth loss?
- 4. What kind of changes are there in the mouth in case of tooth loss? Describe them.
- 5. What can extensive loss of teeth cause?

III. Match the word with its definition:

- U	
1. a physical condition resulting either from a faulty or inadequate diet	a) denture
2. a denture anchored to teeth on either side of missing teeth	b) artificial
3. biting and grinding food in your mouth so it becomes soft enough to	c) full denture
swallow	
4. having lost teeth	d) malnutrition
5. a usually removable artificial replacement of all teeth	e) prosthetics
6. something that holds fast or prevents from moving	f) mastication
7. a physical condition in which there is a disturbance of normal	g) edentulous
functioning	
8. the branch of medicine dealing with the production and use of	h) trap
artificial body parts	_
9. an artificial replacement for one or more teeth	i) bridge
10. made or produced by human beings rather than occurring naturally,	j) disorder
especially as a copy of something natural	

IV.	Match	the	synonyms	and try	to	find	a mistake:

1 v. Maich the synonyms and if y to find a mista					
1. artificial	a) poor				
2. full denture	b) develop				
3. disorder	c) bridgework				
4. bridge	d) partial denture				
5. mastication	e) false				
6. oral cavity	f) edentulous				
7. restoration	g) disease				
8. toothless	h) chewing				
9. bad	i) return				
10. arise	j) mouth				

V. Choose a word from the box and complete the text:

replacement	full dentures	mouth	!			
tissues	natural	most				
spaces	removal	partia	l dentures			
	Dentures					
Dentures are removable	1. for miss	sing teeth and adjoin	ing 2.			
3. fill in the 4.	created by mi	ssing teeth, keep ren	naining teeth from			
shifting and are an option if you have some 5. teeth remaining. If you have lost						
6. or all of your tee	eth, complete or 7	are recommen	nded. "Immediate"			
dentures are inserted immediately after 8. of the natural teeth; "conventional"						
dentures are placed in the 9. about three to six months after tooth removal.						
VI. Fill in the gaps with a suitable word:						
Dental Bridges						
A dental 1. i	s a false 2. th	at is fused 3.	two porcelain			
4. to fill in or bridge	e the space left by a 5	tooth. The tv	wo crowns holding			
the 6. bridge in place	e are cemented 7	your teeth on ea	ch 8. of			
the space; the bridge is secured into place and is irremovable. Some bridges also may contain						
two or more false 9 between the crown components, depending 10 the case.						

SEQUENCE OF TENSES

Present Tenses → Past Tenses Past Simple → Past Perfect Will → Would

The patient said (that) he (lost) had lost his tooth (yesterday) the day before.

I. Read the text. Complete the text using the verbs in brackets in appropriate Active or Passive voice (see p. 16) following the Sequence of Tenses. Answer the questions below the text:

First Dental Impressions

The idea of making dental impressions **1.** (to date) back to the 18th century and German dentists in Prussia. Philipp Pfaff **2.** (to serve) as a dentist to the King of Prussia, Frederick the Great, and **3.** (to describe) taking impressions in wax. First Pfaff **4.** (to soften) the wax in hot water, molded it to the teeth, removed it, then **5.** (to use) plaster of Paris to make the cast. Around the same time, German surgeon Matthaus Purmann **6.** (to describe) using the same type of wax model for making prosthetic teeth.

Fast forward about 50 years to "the New York Daily" advertisement in 1787, where John Greenwood 7. (to practise) medicine in Boston before the Revolutionary War. In the ad, he 8. (to promise) to make "false teeth" by using beeswax impressions. It 9. (to be) the first known use of a dental model in prosthetic dentistry in America. Greenwood's son and grandson also 10. (to become) dentists, and used their grandfather's technique of beeswax molds, but 11. (not to add) plaster of Paris until after 1820.

Levi S. Parmly **12.** (*to be*) another dentist who **13.** (*to write*) about use of molds in 1819: "Where the teeth mostly **14.** (*to go*), in both or in either of the jaws, the method **15.** (*to be*) to form an artificial set, by first taking a mould of the risings and depressions of every point along the surface of the jaw, and then making a corresponding artificial socket for the whole". Parmly **16.** (*to consider*) it one of the great advances in dentistry.

In 1820, a French dentist, C. F. Delabarre, **17.** (*to invent*) the first impression tray — you know, those trays we all **18.** (*to come*) to know nowadays. So **19.** (*to thank*) Delabarre for that. Rather than using wax alone, he **20.** (*to create*) a metal tray and **21.** (*to line*) it with wax to get a better imprint. The trays also **22.** (*to keep*) the cheeks from getting in the way of the impression.

Soon, "the manner of obtaining a model" **23.** (*to become*) widely documented in dental textbooks.

Answer the following questions:

- 1. Who were the first dentists to make dental impressions?
- 2. What did they do to make an impression?
- 3. What could people read in the advertisement?
- 4. When did the ad appear?
- 5. What did Levi S. Parmly write about dental work?
- 6. What is C. F. Delabarre famous for?

II. Turn the following sentences into the Reported Speech:

- 1. The teacher said, "Tooth loss is a common dental problem that can be brought about by a variety of factors."
 - 2. "Patients wearing dentures don't realize they are losing bone," she said.
- 3. He said: "The issue of bone loss after tooth loss has been ignored in the past by traditional dentistry."
- 4. The lecturer mentioned, "People think that United States President George Washington was one of the people of the time that had dentures."
- 5. "Implants, bridges and dentures will help to restore an aesthetically pleasing and functional smile, giving the face back a more youthful appearance," the doctor said.
- 6. The doctor's assistant said, "The loss of teeth can add 10 or more years to a person's face."
- 7. "After the teeth have been removed and the gum tissue has begun to heal, the doctor will be ready to make a denture," the nurse said.
- 8. "Eating with new dentures will take a little practice and may be uncomfortable for some wearers for a few weeks!" the doctor said.
- 9. "If dentures 'click' while you're talking, you must contact the dentist," the nurse recommended.
- 10. "While there are many different types of restorative dental materials in the market, we will suggest the best option according to your individual tooth conditions," the dentist said.

PART II. IMPRESSION MATERIALS

LANGUAGE DEVELOPMENT

. Match the synonyms:				
1. distortion	a) deep			
2. a reproduction of teeth	b) edge			
3. detect	c) teething			
1. margin	d) deformation	on		
5. capture	e) properties	i		
6. features	f) define			
7. tray	g) take/catch	1		
3. saturated	h) show			
9. dentition	i) baseplate			
10. demonstrate	j) an imprint	t of teeth		
II. Fill in the gaps with a suitabl	e word:			
A dental impression is an in with specific types of 3ncluding Prosthodontics.				
A correctly made 5.	6.	will captur	re a part or all o	of a person's
7 and surrounding 8.				
Forms an imprint of teeth and soft of the dentition.				

III. Choose a word from the box and complete the text:

margin	accuracy	distortion
plaster	odor	include
divided	structures	prostheses
details	shrink	demonstrate
tray	requirements	case
choice	depend	rigid
application	detect	features

Impression Materials

Impression	materials are used in dentis	stry to record the 1	of intraoral
2	to fabricate a reproduction o	of teeth and soft tissues fo	r the construction of
dental 3	An ideal impression	n material should have ma	ıny 4.
It should not 5.	during polyme	erization, shipping or stora	age and should have
excellent flow.	The color of the impression	on material should be s	saturated enough to
6. v	whether the prepared tooth 7.	is captured.	An ideal impression
material should	also 8 excellent	detail reproduction, good	tear strength, and no
	hen removed from the mouth.		
an acceptable 10	0. and taste. Desi	irable features also include	e long working time,
short setting tin	ne, and a long shelf life. Dis	sinfection should not redu	ice surface detail or
11	An ideal impression coul	ld be poured multiple ti	mes, without losing
accuracy. No in	mpression material meets all	l of these 12.	, but significant
improvements ha	ave been made.		
Impression	materials can be categorize	ed as 13 an	d elastic impression
materials. Rigid	ones include 14.	and compo/zinc oxide	e-eugenol; however,
since they canno	ot engage the undercuts, their	15. is limited	ed nowadays. Elastic
impression mate	erials can be further 16.	into hydrocol	loid and elastomeric
impression. Hyd	rocolloid materials 17	agar, which is rev	ersible, and alginate,
which is irrever	rsible. Elastomeric materials	include polysulfide, poly	ether, condensation-
cured silicone, a	nd addition-cured silicone.		
The 18.	of which impression	material to use in each cas	se will 19.
not only on the s	specific needs of each 20	, but also on the i	mpression technique
and 21.	to be used.		
Answer the	e questions:		

- 1. What are impression materials used for?
- 2. What properties should the impression materials have?
- 3. What categories are they divided into?
- 4. What does the choice of impression materials depend on?
- 5. What rigid impression materials can you name? What elastic impression materials do you know?
 - 6. Why is the use of rigid impression materials limited?

IV. Put different types of questions in the form of a plan. Entitle and retell the text:

Usually made from plastic or metal, dental impression trays hold the impression material while the imprint is being created intraorally, and then provide a firm backing to make sure the impression is free of distortions as it finishes setting. Some impression trays are designed to be reused while others essentially become a part of the impression when it is sent to the dental laboratory. Available in various sizes, trays are designed to capture a specific part of the patient's anatomy such as a full arch, a quadrant or opposing dentition. Because different restorative situations require the use of different types of trays, it can be helpful to have a variety of tray sizes and styles on hand.

GRAMMAR PRACTICE

CLAUSES WITHOUT CONJUNCTIONS

We know (that) *metal trays are the most commonly used impression trays*.

I. Translate the following sentences into your own language. Pay attention to the clauses without conjunctions:

- 1. A porcelain crown that has been designed to match your surrounding teeth will be cemented or screwed onto the abutment.
- 2. Plaster of Paris that is used for edentulous impressions cannot be removed in one piece.
 - 3. The dentist explains dentures are made in a dental laboratory.
- 4. Everybody knew George had to wait several months for the bone to heal before he received the implant.
- 5. Adults that have missing teeth in their mouths because of tooth decay or any other reason have few options of closing the gaps between their teeth.
- 6. The only option that comes close to real teeth is dental implants that are designed to look, feel, and function like natural teeth.
 - 7. The patient I am treating now is very anxious about his appearance.
- 8. A partial denture which is filled in the spaces created by missing teeth prevents other teeth from changing position.
- 9. Advances in prosthetic dentistry have made it possible to fill the spaces with bridges and implants that are more functional and attractive than the teeth they have replaced.
- 10. It's happened. The day has come when the dentist informs you oral surgery is required to resolve the problem you're experiencing in your mouth.

II. Match the items in column A to the ones in column B to make correct sentences:

- 1. I don't think
- **2.** The denture I made last time
- **3.** This is the denture
- **4.** It's sometimes possible to successfully implant permanent teeth
- **5.** Different types of impression materials are available
- **6.** Dental surgery is any of a number of medical procedures
- **7.** Dentists monitor new tested and certified materials

- **a**) that supports fabricated teeth.
- **b**) that involve artificially modifying dentition.
- c) the market regularly offers.
- **d**) dentistry has evolved (developed) over the last 25 years.
- e) speaks for the need of a complete denture.
- **f)** that have been knocked out.
- **g**) we have received from the laboratory.

- **8.** Dentures are made out of a plastic base
- **9.** The fact that all the teeth are missing
- 10. Dental implants have changed the way | i) which vary in their properties.
- **h)** this impression tray will do.
- i) looks like natural healthy teeth.

III. Make the correct sentences using your active grammar rules:

- 1. That are broken or damaged by decay teeth can be fixed with a filling, crown, or other dental treatment.
- 2. Dental amalgam has served that is a metal-like restorative material as a dental restoration for more than 165 years.
- 3. Some people which can result in dental crowding as permanent teeth grow in are born with a smaller jaw (genetics).
 - 4. Many people can cause dental crowding impacted wisdom teeth believe.
- 5. Dental alginate, when mixed with water, is a powder impression material that turns into a flexible and elastic gel.

IV. Read the text. Put the verbs in brackets into the correct Active or Passive tense. Choose correct prepositions:

Dental implants as we 1. (to know) them today 2. (to invent) 3. (at, on, in) 1952 **4.** (with, by, for) a Swedish orthopedic surgeon named Per-Ingvar Brånemark. Today, they **5.** (to consider) to be the standard **6.** (of, for, in) care **7.** (for, of, in) prosthetic replacement of missing teeth 8. (at, to, in) dentistry. A dental implant 9. (to be) a surgical fixture that 10. (to place) 11. (on, onto, into) the jawbone and allowed 12. (to, -, of) fuse 13. (by, in, with) the bone. The dental implant 14. (to act) as a replacement 15. (for, in, by) the root **16.** (in, of, on) a missing tooth. **17.** (In, at, on) turn, this "artificial tooth root" **18.** (to serve) to hold a replacement tooth or bridge. The process 19. (in, of, -) fusion 20. (among, between) the dental implant and jawbone 21. (to call) "osseointegration". Most dental implants are made 22. (of, in, at) titanium, which 23. (to allow) them to integrate 24. (in, with, from) bone without being recognized as a foreign object 25. (in, over, within) our body. 26. (From, over, through) time, technology and science 27. (to progress) to greatly improve the outcomes 28. (from, on, of) dental implant placement. Today, the success rate **29.** (to, for, on) dental implants is close **30.** (to, of, by) 98 %.

Read the text. Put the verbs in brackets into the correct Active or Passive Tense:

The 1930s 1. (to be) an incredibly important time for the advancement of composites. Glass fibre 2. (to introduce) by Owens Corning who also 3. (to start) the first fibre reinforced polymer (FRP) industry. The resins engineered during this era 4. (to use) still to this day and, in 1936, unsaturated polyester resins 5. (to patent). Two years later, higher performance resin systems 6. (to become) accessible.

The first carbon fibre 7. (to patent) in 1961 and then 8. (to become) commercially available. Then, in the mid-1990s, composites **9.** (to start) to become increasingly common in manufacturing and construction due to their relatively cheap cost compared to materials that **10.** (to use) previously.

The composites on a Boeing 787 Dreamliner in the mid-2000s substantiated their use for high strength applications.

PART III. IMPRESSIONS

LANGUAGE DEVELOPMENT

<i>I</i> .	Insert prepositions where necessary:		
	Alginate is currently one 1.	the most popular impro	ession materials. It is
sup	oplied as dust-free powders. After mixing	g 2. prop	per amount of water
3. _	a rubber bowl 4. a	a spatula, it is ready 5. _	impression
tak	ing. Two to three minutes 6.	the surface tackiness has	s been lost, it can be
ren	noved 7. the oral cavity. How	ever, it does not produce	very accurate surface
det	ail, and has poor dimensional stability. A s	snap-removal technique is	required 8
miı	nimize permanent deformation. It is thus n	ot recommended 9	the fabrication
10.	crowns and bridges.		

II. Find the synonyms to the following words in the text:

1. constantly	2. lost
3. shortcomings	4. specialization
5. apply	6. dentures
7. inside the mouth	8. chewing
9. modifications	10. kind
11. reconstruct	12. fix
13. false teeth	14. help

Dental Prosthesis

A dental prosthesis is an intraoral prosthesis used to restore intraoral defects such as missing teeth, missing parts of teeth, and missing soft or hard structures of the jaw and palate. Prosthodontics is the dental specialty that focuses on dental prostheses. Such prostheses are used to rehabilitate mastication, improve aesthetics, and aid speech. A dental prosthesis may be held in place by connecting to teeth or dental implants, by suction, or by being held passively by surrounding muscles. Like other types of prostheses, they can either be fixed permanently or removable; fixed prosthodontics and removable dentures are made in many variations. Permanently fixed dental prostheses use dental adhesive or screws, to attach to teeth or dental implants.

III. Choose a word from the box and complete the text:

arches	record	primary	molded	paste
streaks	impression tray	mixture	suitable	detail
tubes	amounts	arches	special tray	eugenol

Rigid Impressions (Impression Compound & Zinc Oxide Eugenol)

	The rigid r	materials are usually used to 1	impressions of eder	ntulous
2	only.	Impression compound must be heated in	n a water bath and then $3.$ $_$	
onto	the 4.	It doesn't flow well and can't reco	rd fine 5. It is the	erefore
used	for 6.	impressions of edentulous 7.	Impression 8.	is
a mo	odified form	of zinc oxide eugenol. Other properties	are added to make it 9.	

to use as an impression material. It comes in two 10: one containing a white zinc oxide 11 and the other containing a red 12 mixture. When using this product equal 13 of each paste should be squeezed onto a pad and mixed with a spatula. The mix should then be loaded into a 14 for secondary impressions of the edentulous arch. When the products are mixed together they will create a different colour; there should not be any red or white 15 remaining. IV. Read the text. Fill in the gaps with a suitable word. Find the sentences with Adverbial Clauses of Time:			
Making an Alginate Impression			
Before the 1 or dental hygienist begins to work, she will fit you for an impression 2, usually made from a rigid 3, such as metal or stiff plastic. The 4 will be sprayed clean of any debris or extra saliva and allowed to partially dry.			
The next step in making a successful alginate 5. is mixing the powdered additive and 6. to make a smooth, spreadable 7. The dentist will put this gel into the 8. and smooth it over your teeth with a tool or gloved fingers, being careful to work quickly, but not create any bubbles or lumps that might result in 9. in the final mold.			
The mixture will be firmly held in place and removed after a few 10.			
when the 11 has completely set.			
Usually, within 30 minutes of being taken out of the 12. the impression is filled with one of several types of impression stone — a plaster-like liquid that dries to a solid. When the stone is fully 13. , it is pulled away 14. the soft gel in the tray. Any excess stone is then trimmed in the 15. office or lab making the device.			
GRAMMAR PRACTICE			
ADVERBIAL CLAUSES OF TIME / CONDITION			
While, after, before, (un)till, if, when, as soon as + Subject + Present Tense Form			
If you will lose one tooth, different changes will occur in your organism.			

I. Translate the following sentences into your own language:

- 1. If food particles are consistently building up between teeth in a certain area, there will be more bacterial accumulation.
 - 2. If the cavity is not repaired, it will worsen, eventually leading to the tooth loss.
- 3. Keeping the area as clean as possible daily will not be the solution of the problem if decay or a fracture causes the food trap.
- 4. The orthodontist will evaluate your mouth before he recommends the type of tooth braces suitable for you.
- 5. If impression techniques are understood in detail, it will be easier to decide which kind of material and technique should be used for different cases.
 - 6. If there are teeth missing naturally, there will be a gap on the finished mold.

- 7. If moisture such as saliva or blood is present, then the filling will not likely stay in the tooth.
- 8. Temporary dental crowns will cover the tooth while the permanent crown is being created in the dental lab.
- 9. When replacement of missing teeth is very complex or costly, the doctor will recommend you the complete denture.
- 10. As soon as you are with the uncertainty of not knowing which tray will be the most suitable, our recommendation will be to think about the economic factor.

II. Match the items in column A to the ones in column B to make correct sentences:

- **1.** If a tooth is badly destroyed and cannot be restored,
- 2. If you decide to restore your damaged tooth,
- **3.** When wisdom teeth become impacted and cause pain,
- **4.** If you lost or seriously damaged a tooth,
- **5.** As soon as a white filling does discolour over time.
- **6.** The doctor will remove a small piece of tissue and then send it to the lab for analysis
- 7. After the surgical procedure is over,
- **8.** If you need an implant,
- 9. If you elevate your head when resting,
- 10. You will have a temporary denture

- **a)** you will be referred to a special dental clinic.
- **b**) you will need someone to pick you up, as you will be tired.
- **c**) if s/he thinks the lesion in the mouth looks suspect.
- **d**) dentists will suggest their removal.
- e) until your permanent one is being made.
- **f**) a crown will make it stronger and more stable.
- **g**) some of the pressure in the area of a toothache will diminish.
- **h**) you will need teeth prosthetics.
- i) a dentist will recommend extraction.
- i) it will easily be replaced.

III. Make your own sentences using your active vocabulary and grammar rule. The following words will help you:

- 1. If, defects, want to correct, qualified dentists, select, proper techniques.
- 2. Before, thoroughly, removed, dentist, review, medical and dental history.
- 3. When, there, no teeth, mouth, what tray, choose.
- 4. Manufacture, read, attentively, you won't.
- 5. Powder, mix, get, an accurate impression.

PART IV. BITE REGISTRATION

LANGUAGE DEVELOPMENT

I. Form the necessary part of speech, complete the text:

Dental Occlusion

The *dental occlusion* or *the bite* is the relationship between the **1.** (*up*) and the **2.** (*low*) teeth when they approach each other. It is very important to determine the exact bite when a **3.** (*restore*) is designed.

The dental **4.** (*occlude*) has to be **5.** (*analyze*) in two **6.** (*differ*) circumstances: when the jaw is **7.** (*move*) and when the jaws are **8.** (*close*) and stationary.

II. Read the text. Fill in	the gaps with a sui	table word.	
2 and stati the 4 teeth position is also 6 Patients must reach this position may sometime	onary. The correct make the most posture as maximum in this position without mes lead to difficulting are plant cocclusion. It is in the few).	static occlusion is the sible 5. watercuspation. In 7. efforts. Uses in registering the conned, it is extremely deal not to disturb a	Innatural efforts to reach rect 8 important to establish
contacts	TMJ		forwards
angle	depend	1	movements
determine	mandi		moving
acternative		truction	moving
8. whether so during various functional <i>IV. Choose the correct p</i>	ome of these contact 10	_	_
1	-	on Manipulations	
1. The material is the catalyst. A self-mixin 2. The prepared ma arch (<i>upper or lower</i>) or used. 3. The patient is inv	prepared (with, b) g impression material terial is positioned (r just (in, at, for) the rited (to, with, for) "I ets (it usually takes in, with, among) the	al syringe can also be uwith, over, among) the ne posterior (back) parties bite" (on, at, in) the could be 1–2 minutes), the recother impressions.	ty base (for, at, with) used. e entire length of a dental rts. Special trays can be
		1	
put		area	
exact allocate/distribute		occlusion	
reach/touch		bite stage	
take off		bite stage close	
the sick		make sure	
watch		front	
watti		T II UII l	

manipulation

oral cavity

Bite Registration Procedure

- 1. Ensure the patient is sitting in an upright position.
- 2. Ask the patient to close the back teeth together.
- 3. Tell the patient the way you need her/him to close the mouth with the bite registration material in place.
 - 4. Observe how both sides of the arches occlude.
 - 5. Place the bite registration material cartridge into the dispensing gun.
- 6. Dispense material onto the occlusal surface of the patient's arch starting in the posterior molars on one side and continuing to syringe the material onto the anterior teeth and around to the molars on the opposite side. A full-arch bite registration will ensure an accurate occlusal record.
- 7. Have the patient close the mouth, or guide the patient's jaw into the proper position. Most vinyl polysiloxane bite registration materials will set in 20 to 30 seconds.
 - 8. Remove the bite registration from the mouth.
 - 9. Rinse the material, dry, and disinfect according to manufacturer's instructions.
- 10. Be sure to avoid contact with any chemicals known to inhibit setting of vinyl polysiloxane such as latex gloves and acrylic residues. Wear vinyl gloves during this procedure.

VI. Match the two columns:

- 1. to attach
- 2. extracted teeth
- **3.** a dislocated tooth
- **4.** lose the tooth
- **5.** an occlusal surface
- **6.** a temporary tooth
- 7. tooth extraction
- 8. a bone
- **9.** a prominent jaw
- **10.** remaining teeth
- 11. a successor and a predecessor

- а) временный зуб
- **b)** выступающая челюсть
- **с)** кость
- **d)** окклюзионная поверхность
- е) оставшиеся зубы
- **f**) последователь и предшественник
- **g**) прикреплять
- **h**) смещенный зуб
- і) терять зуб
- **j**) удаление зуба
- **k)** удаленные зубы

PART V. ORTHODONTICS

LANGUAGE DEVELOPMENT

I. Revise the grammar rules from the unit and translate the following sentences:

- 1. Accurate impressions depend on identifying the applications that do or do not fit each material's characteristics.
- 2. After the teeth have been removed and the gum tissue has begun to heal, the doctor will be ready to make a denture.
- 3. Impression materials that are currently popular include hydrocolloids, addition silicones, polyethers, and polysulfides.
- 4. Before the extraction: the tooth will be moved back and forth until the periodontal ligament breaks enough to loosen the tooth from the alveolar bone so that it can be removed.
 - 5. The dentist said the tray was positioned in the mouth and pressed over the dental arch.

- 6. The technique that will be selected for a particular situation may depend on different factors.
- 7. Before a tooth is removed, the area around your infected tooth will be numbed using local anesthetic.
- 8. When the dentist first advises you to replace missing teeth, you will probably have several options that vary in price and the difficulty of the procedure.
- 9. The maxilla that is the entire central portion of our face determines our nasal cavity, our airway space, our cheekbones, and the position of our mandible.
- 10. A few days after a fixed brace is fitted, you will be able to eat a normal range of foods.

II. Read the text. Put the verbs in brackets into the correct active or passive tense:

More and more people, both children and adults **1.** (*to seek*) orthodontic treatment today.

And humans **2.** (to deal) with their tooth pain and rearranging their smiles for over 2,000 years now. Archaeologists **3.** (to find) devices designed to treat malocclusion, abnormal alignment of the teeth and jaw on mummified remains dating back to the Egyptian Empire. Crude metal implements (material) **4.** (to discover) wrapped around teeth. Experts **5.** (to theorize) that catgut **6.** (to use) to guide the teeth and keep them in position.

Pierre Fauchard **7.** (*to create*) the first true set of modern braces in 1728, making him known as the "Father of Modern Dentistry". His device **8.** (*to use*) flat strips of metal and string to draw the teeth together. While crude, they **9.** (*to be*) closer to what we **10.** (*to see*) in modern orthodontics. They **11.** (*to use*) the same principle of an individual connector on each tooth, allowing for more accurate adjustment. Thankfully, since then orthodontics **12.** (*to make*) leaps and bounds. The addition of wiring and rubber bands **13.** (*to date*) as far back as the mid-1800s. Modern braces **14.** (*to continue*) to improve on these early designs. The next major development in orthodontics **15.** (*to come*) with the invention of the retainer device by Dr. Charles Hawley, which **16.** (*to preserve*) the orthodontic adjustments after the braces **17.** (*to come*) off.

Crude — необработанный

III. Match the word with its definition:

1. an artificial replacement for a missing tooth/teeth	a) braces
2. the location on the surface of a tissue where there is a tendency for	b) crowding
food debris to accumulate	
3. a clear, plastic appliance that is molded to fit over the teeth and is	c) implant
used to correct their alignment	
4. a fixed appliance, usually comprised of brackets, bands and wires	d) orthodontics
5. teeth extending beyond the normal contour of the dental arches;	e) retainers
usually in an anterior direction	
6. any device, attached to the teeth or removable, designed to move	f) stagnation aria
the teeth, change the position of the jaw, or hold the teeth in their	_
finished positions after braces or aligners are removed	
7. faulty contact between the upper and lower teeth when the jaw is	g) aligner
closed	-

8. a custom-made, removable or fixed appliance that helps teeth	h)	protruding
maintain their new position after braces have been removed		teeth
9. a branch of dentistry dealing with irregularities of the teeth and	i)	malocclusion
their correction		
10. dental misalignment caused by inadequate space for the teeth	i)	appliance

IV. Form the necessary part of speech, complete the text and answer the questions:

Orthodontics

Orthodontics is the **1.** (*form*) name of the dental **2.** (*special*) concerned with the diagnosis, **3.** (*prevent*), interception, **4.** (*guide*) and adjustment of bad bites. The purpose of orthodontic **5.** (*treat*) is to create a **6.** (*health*) bite — straight teeth that properly meet opposing teeth in the opposite jaw. A good bite makes it **7.** (*easy*) for you to bite, chew and speak.

If your teeth are **8.** (*crowd*), protrusive, spaced too far apart, meet in an **9.** (*normal, negative*) way, or do not meet at all, **10.** (*correct*) may be recommended. Braces are the "appliances" **11.** (*ortho* + "*specialist*") most commonly use to guide teeth into their proper positions. Retainers preserve and **12.** (*stabilization* as a verb) the results of the orthodontic treatment.

In the past, orthodontic treatment was associated with **13.** (*child*) and teens, but today many adults seek orthodontic treatment for **14.** (*correct*) long-standing problems, or problems that stem from maturational changes. Orthodontists can help people of any age achieve a healthy and **15.** (*beauty*) smile. So esthetics and function are the main reasons to seek orthodontic treatment.

Answer the questions:

- 1. What is Orthodontics?
- 2. What is its aim?
- 3. Why is a good bite essential?
- 4. In what cases do people need orthodontic treatment?
- 5. What_appliances do doctors usually use?
- 6. Why do adults seek orthodontic treatment?

V. Match the synonyms:

4		
	COL	use
		11.71

- 2. long-lasting
- 3. crooked teeth
- 4. missing teeth
- **5.** brackets
- **6.** dentures
- 7. impression
- 8. room
- 9. appliance
- 10. elimination

- a) space
- **b**) braces
- c) imprint
- d) reason
- e) not-straight teeth
- f) device
- g) prolonged
- **h**) removal
- i) lost teeth
- j) false teeth

VI. Fill in the gaps with a suitable word:

	Space Maintainers		
	are lost earlier than 2		
to be put in so that other 4.			
tooth. These space 6	are used to keep this spac	e 7. un	til more teeth
8. out and adult teet			
which is 9. to one			n on the other
side of the 10. gap	in order to stretch and keep it	open.	
VII. Choose the correct prepo	osition:		
wires and/or brackets. Bands as an as anchors 3. (for, of, in) the as the front of the tooth. Arch wattached 6. (at, to, for) the betteeth, gradually moving the adjusted monthly to bring about before) a few months 10. (unto show far less metal than 11. (as to for, to) kids as well as VIII. Choose a word from the	ppliance, while brackets are nowires are passed 5. (over, accounts. Tightening the arch whem 8. (to, for, in) their project the desired results, which now it, for, to) a few years. Today (at, on, in) the past. They conclear styles preferred 14. (with	nost often bonded 4 (ross, through) the vire puts tension 7 per position. Brace hay be achieved 9. (as braces are smalled me 12. (at, on, in)	brackets and (in, on, to) brackets and (in, on, to) es are usually (within, after, lighter and bright colors)
instead of	lower jaw	larger	
pressure	protruding	position	
cause (2)	consequences	habit	
childhood	protrude	forward	
permanent	milk teeth	pushed	
For many people, the 1	Displaced Teeth Causes 1 of protruding	teeth is thumb-su	cking during
2 Unfortunately, thi		n have long-lasting	

	For many people, the I.	of protruding teeth is thumb	o-sucking during
2	Unfortunately, this common c	childhood habit can have long-last	ing 3. !
	Thumb-sucking and dummies aren'	't such a problem in younger o	hildren, as their
4.	won't stay around for long. B	But when a child's 5 te	eth start to grow,
a thu	ımb-sucking 6. can 7.	the teeth to grow out 8.	down.
	It's also possible to have 9	teeth even if you didn't s	uck your thumb.
Som	e people are simply born with a 10	whose shape or 11.	puts
12. _	on their teeth, pushing 13.	them.	
	Other causes include having 14	teeth than normal, ar	d overcrowding.
If yo	our teeth are large for the size of your	r mouth, they can 15.	Similarly, if
VOII	have too many teeth, the front teeth ca	on get 16. forward	·

TEST YOURSELF

A.					
1			ignificant amount of to c) implant;	ooth needs to be restored. d) all of them.	
2	2 are h	ard plastic or m	etal fixtures surgically	embedded through the soft	
	into the jawbone.	1		C	
	a) dentures;	b) crowns;	c) implants;	d) all of the above.	
3	3. Missing teeth are	replaced with	with suppo	ort from teeth next to space.	
	a) bridges;	b) crowns;	c) brackets;	d) prosthetics.	
4	4. The support teeth	on a bridge are	called c) impression;		
	a) buck;	b) abutment;	c) impression;	d) appliance.	
5	5 are	metal or ceram	nic holding device us	ed to support and stabilize	
the arc	ch wire in the mout				
	a) prosthetics;	b) brackets;	c) impressions;	d) trays.	
6	6. The branch of	dentistry that d	iagnoses, prevents, ar	nd treats dental and facial	
irregul	larities is	·			
	a) prosthetics;	b) surgery;	c) endodontics;	d) orthodontics.	
7	7. A/an	_ is placed by th	ne dentist and cannot b	e removed; either cemented	
	ded into place.				
	a) removal appli	ance; c) is	mpression;		
	b) fixed applianc	e; d) a	abutment.		
8	3. Causes of maloco	clusion include:			
	a) trauma; b) d	disease; c) n	nalnutrition; d) h	abits; e) all of them.	
ç	O. Success in dentu	re wearing depen	nds on:		
	a) the talent of th				
	b) the skill of the	-	,		
	c) the willing col	laboration of the	patient;		
	d) all of them.				
1	10. Disadvantages o	of Alginate are (r	name them)	·	
B.					
		places a missing	body part such as an ai	rm or leg, eye, tooth or teeth	
is refe	rred to as	h) im a sin am.	a) ava4;a.	d) muo athatia	
	a) robotic;	b) imaginary;	c) exotic;	d) prosthetic.	
2	<u>-</u>		impairs the ability to		
	a) swallow;	b) sleep;	c) chew;	d) breathe.	
3	3. Imprint of the tee	eth and adjacent	structures is		
	a) crown;	b) prosthetic;	c) impression;	d) impression tray.	
4	4. What does bite re	egistration do?			
	a) restores intrac	-	c) replaces mis	sing teeth;	
	b) holds the impr	-	d) records occlusal bite.		

5. Plaster disadvantages:	1.0	
a) are patient discomfort;	c) are improved fit;	
b) cannot be used in undercuts;	d) accuracy can be imp	proved.
6. When preparing the patient for an improal explain the procedure to the patient b) place a napkin on the patient to procedure the patient in upright position d) have the patient taken off all remove) all of the above mentioned.	nt; otect their clothing; n;	d:
7. When preparing to take an alginate imp a) warm water; c) cool water; b) very hot water; d) room temper	•	o use:
8. Instead of modern brackets some ancier		
a) metal; b) catgut;	c) spring;	d) plastic.
9. Which word refers to the loss of all per	manent teeth?	
a) atrophy; b) prosthetic;	c) edentulism;	d) periodontal
10. Alginates are good for	<u>_</u> .	
Be ready to discuss the following topics:	:	
 Prosthetics as a branch of dentisrty Orthodontics as a branch of dentisrty 		
3. Loss of Teeth		
4. Impression Materials		
5. Occlusion		
6. Malocclusion		
7. Bite Registration		
8. Types of Dentures		

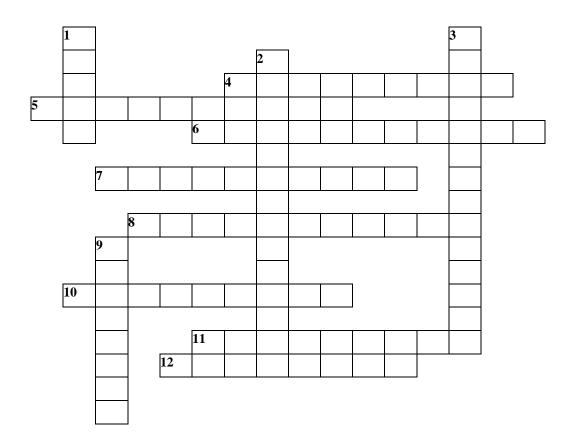
REMOVABLE PROSTHESES

Across:

- **4.** Metal skeleton of removable partial denture
- **5.** To be without teeth
- **6.** Another word for chewing
- **7.** Replacement for missing tooth
- **8.** Replaces all of teeth in one arch
- 10. Metal that joins various parts of a partial denture
- 11. Represents/helps to establish arrangement of the jaw and teeth
- **12.** Tooth, root or implant to support a prosthesis

Down:

- 1. a color slightly different from the one under consideration
- **2.** Deals with the replacement of missing teeth and related mouth or jaw structures by bridges, dentures
- **3.** Replaces selected teeth within the same arch
- **9.** An insufficient amount of space for all the teeth to properly fit



UNIT V. PREVENTIVE DENTISTRY

PART I. ORAL HYGIENE

LANGUAGE DEVELOPMENT

I. Match the words with their definitions:

1. Accumulation of food debris in hard-to-clean areas, particularly in	a) detergent food
case of poor oral hygiene	
2. Crisp products such as apples, celery, or carrots that can help you	b) refined
clean your teeth	carbohydrate
3. Sugars and grain products that have been processed by a food	c) contribution
manufacturer so that the dietary fiber, vitamins, and minerals have	
been removed	
4. A small amount of food eaten between meals	d) food stagnation
5. To turn food, minerals in the body into new cells, energy and waste	e) to calcify
products by means of chemical processes	
6. To harden by the deposit of calcium salts	f) to metabolize
7. Short, stiff, abrasive hairs of an animal, plant, or synthetic origin	g) abrasion
on cleaning or painting tools	
8. Damage by scraping, wearing, grinding or rubbing away by friction	h) snack
9. The part played by a person or thing in bringing about a result or	i) bristles
helping something to advance	

II. Match the Russian-English equivalents:

- 1) вращательное движение
- 2) удалять налёт
- 3) оттирающее движение
- 4) не соответствовать требованиям
- 5) профилактическая стоматология
- 6) правильно использовать зубную щётку
- 7) прикрепляться (приставать, прилипать) к поверхностям зубов
- 8) поддерживающий аппарат зуба
- 9) не содержать остатков пищи
- 10) иметь (представлять) большое значение
- 11) щетина средней жёсткости
- **12)** стоматологическое просвещение; обучение основам ухода за зубами
- **13**) перекусывать между основными приёмами пищи
- 14) прополоскать щётку

- a) tooth supporting tissues
- **b)** preventive dentistry
- c) to be free of food debris
- **d**) to remove plaque
- e) to take/eat snacks between meals
- **f**) medium bristles
- g) dental health education
- **h**) to rinse the toothbrush
- i) rotary motion
- j) scrubbing action
- k) to lack requirements
- **l**) to use an ordinary toothbrush properly
- **m**) to adhere to the surfaces of the teeth
- **n**) to be of great importance

III. Match the beginnings and endings of the phrases. (Choose the best variant!)

- 1. to entail elimination
- 2. the primary cause
- **3.** the method
- 4. the resistance
- **5.** to remove
- **6.** detergent
- 7. dietary
- **8.** to clean every
- **9.** to massage
- 10. to avoid abrasion
- 11. to require
- 12. to remain
- 13. to retain

- a) of teeth to disease
- **b**) of the necks of the teeth
- c) of caries and periodontal disease
- d) of food stagnation
- e) accessible tooth surface
- f) discipline
- **g**) food
- **h**) knowledge and skill
- i) food debris
- j) in the gingival crevice
- **k**) of prevention
- I) harmful accumulation of bacteria
- m) the gum margin

IV. Write out pairs of synonyms:





V. Make 10 sentences with the words and expressions from ex. I-IV.

VI. Fill in prepositions:

- 1. ... case ... caries food stagnation leads ... acid production.
- 2. Most dental disorders are due ... caries and periodontal disease.
- 3. Firm fibrous fruit and vegetable are an additional measure ... toothbrushing and can be used ... the end ... a meal when toothbrushing is not possible.
- 4. After toothbrushing the mouth should be thoroughly rinsed ... warm water to remove food debris disloged ... the toothbrush.
- 5. You should brush not more than two teeth ... a time.

- 6. Plaque adheres ... the surfaces ... the teeth inaccessible ... natural or mechanical cleansing.
- 7. New plaque forms ... the teeth ... a few hours.
- 8. Tartar retains ... harmful accumulations ... bacteria ... contact ... the periodontium.

VII. Fill in the missing words:

- 1. ... is the basic method of preventing dental diseases.
- 2. The two dangerous disorders which affect dental health are ... and
- 3. Apples, pears, carrots, celery are ... foods that can help clean the teeth after meals.
- 4. Products with tough ... consistency require much ... and can scour the teeth clean of food
- 5. ... is the most effective method of cleaning teeth.
- 6. Buccal, lingual, mesial and distal ... are cleaned by a ... motion.
- 7. Occlusal ... are cleaned by a ... action.
- 8. Electric toothbrushes can be particularly effective for the physically

GRAMMAR PRACTICE

SUBJUNCTIVE MOOD (СОСЛАГАТЕЛЬНОЕ НАКЛОНЕНИЕ)

SUBJUNCTIVE MOOD IN SUBJECT CLAUSES

Pattern 1:

	necessary important		I he, she, it	V_I / should + V_I
It is / was	essential	that	we	be / should be
	desirable		you	do / should do
	recommended		they	be done / should be done

Model:

It is required that the dentist **change / should change** latex gloves between patients.

VIII. Use the verbs in the necessary form:

- 1. It is necessary that patients (to follow) oral hygiene regularly.
- 2. It is important that human diet (to contain) enough proteins, minerals and vitamins.
- 3. It is essential that practitioners (to be) tactful and polite to their patients.
- 4. It is important that the patient (to undergo) a course of antibiotic treatment as soon as possible.
- 5. It was necessary that the dentist (to take) a panoramic X-ray of the teeth.
- 6. In case of a fire it is desirable that everyone (not to panic).
- 7. It was required that all the students (to wear) sterile uniforms.
- 8. It is recommended that you (to watch) this video several times to understand it completely.
- 9. It is essential that you (to examine) by the dentist at least twice a year to prevent oral diseases.

Give your examples:

10	 	
11		

SUBJUNCTIVE MOOD IN OBJECT CLAUSES EXPRESSING COMMANDS AND REQUESTS

Pattern 2:

	commanded suggested		I he, she, it	V_1 / should + V_1
He	insisted	that	we	be / should be
	ordered		you	do / should do
	demanded		they	be done / should be done

Model:

The surgeon required that everyone **put on / should put on** sterile gowns, caps and masks before entering the operating room.

IX. Use the verbs in the necessary form:

- 1. The World Health Organization recommends that expectant and nursing mothers (to consume) more fresh fruit and vegetables, and dairy products.
- 2. The policeman commanded that everyone (to leave) the building.
- 3. The surgeon insisted that the patient (to operate on) urgently.
- 4. The dentist ordered that the nurse (to sterilize) the dental instruments.
- 5. The dentist suggested that the patient's tooth (to replace) by denture with a post crown.
- 6. The patient insisted that the dentist (to extract) his tooth under local anaesthesia.
- 7. The general practitioner recommended that the woman (to have) a regular diet and (to avoid) emotional overstrain.
- 8. The ambulance doctor ordered that the victim of the accident (to deliver) to Emergency Hospital.

Add your example	es:		
9			
10			
10			

SUBJUNCTIVE MOOD IN ADVERBIAL CLAUSES OF COMPARISON

Pattern 3:

	I	
as if	he, she, it	
as though	we	were / did (for simultaneous actions)
(как будто бы, если бы)	you	
	they	had done (for previous actions)

Model:

He **looks** as if / as though he **knew** the answer. (*Two simultaneous present actions*) She **smiled** as if / as though she **knew** the answer. (*Two simultaneous past actions*)

The students **look tired** as if / as though they **hadn't slept** for days. (*The action in the subordinate clause precedes the present action in the principal clause*.)

The students **looked tired** as if / as though they **hadn't slept** for days. (*The action in the subordinate clause precedes the past action in the principal clause.*)

X. Use the verbs in the necessary form:

- 1. He looks as if he (to be) ill.
- 2. He behaved as if nothing (to happen).
- 3. He behaves as if he (to be) the boss here.
- 4. She looks as though she (to want) to say something.
- 5. The patient was pale as if he (to have) internal bleeding.
- 6. The patient was pale as if he (to lose) a lot of blood.
- 7. On examination the boy behaved courageously as though he (not to feel) the pain.
- 8. She pretended as if she (not to hear) the remark.
- 9. He is smiling as though he (not to be afraid) of the operation.
- 10. He smiled as though he (not to be afraid) of the operation.

Auu	your examples:		
11.			
_			
12			
12.			

SUBJUNCTIVE MOOD IN ADVERBIAL CLAUSES OF PURPOSE

Pattern 4:

so that (чтобы)	I he, she, it	V_1 / should + V_1 be / should be
lest (чтобы не)	we you they	do / should do / can do be done / should be done / can be done

Model:

Pregnant women should have a balanced diet so that the fetus **get / should get / can get** all the necessary nutrients.

Write this formula in your exercise-book lest you forget / should forget it.

XI. Use the verbs in the necessary form. Make the sentences negative if necessary.

- 1. You should follow a strict bed regime so that you (can + to recover) soon.
- 2. You should make an appointment with the dentist so that he (to have) time to see you.
- 3. Put your key into the bag lest you (to lose) it.
- 4. You should remove dental plaque regularly lest you (to develop) caries.
- 5. Massage your gums gently so that you (to avoid) tooth neck abrasion.

Ad	ld your examples:	
6.		
7.		

SUBJUNCTIVE MOOD IN OBJECT CLAUSES EXPRESSING WISHES AND REGRETS REFERRING TO THE PRESENT OR FUTURE

Pattern 5:

	I	$+V_2$
I wish	he, she, it	were / did
(Если бы	we	OR
Жаль, что)	you	$would + V_I$ (в случае настоятельного пожелания)
·	they	would do

Model:

I wish I **could give** first aid to people with cardiac diseases.

I wish the ambulance would arrive in time!

XII. Use the verbs in the necessary form. Make the sentences negative if necessary.

- 1. I wish I (can) treat periodontal diseases.
- 2. I wish Dr. Brown (to be here).
- 3. I wish it (to be) sunny tomorrow.
- 4. I wish my second right upper molar (to stop) aching.
- 5. Everyone wished the patient (to survive) the operation successfully.

Ada	ld your examples:		
6			
7. ¯			
_			

SUBJUNCTIVE MOOD IN OBJECT CLAUSES EXPRESSING WISHES AND REGRETS REFERRING TO THE PAST

Pattern 6:

I wish (Если бы	I he, she, it we	$had + V_3(Past\ Participle)$ had done
Жаль, что)	you	nau done
	they	

Model:

I wish you **had consulted** the dentist earlier.

I wish this patient **had followed** oral hygiene since childhood.

XIII. Use the verbs in the necessary form. Make the sentences negative if necessary.

- 1. I'm afraid I have a sore throat. I wish I (to eat) the ice-cream yesterday.
- 2. You have multiple progressive caries. I wish you (to consume) more products rich in calcium and phosphorus in your childhood.
- 3. I wish you (to have) such a serious accident last week. Fortunately, no one was badly injured.

- 4. I wish I (to leave) the key to the door at home this morning.
- 5. Max has failed the exam. He wishes the professor (to ask) him about the chemical composition of composite fillings.

i your exampies:				
	your examples:	your examples:	your examples:	your examples:

Mixed Practice

XIV. Use the verbs in the necessary form. Make the sentences negative if necessary.

- 1. I wish I (to be) a doctor.
- 2. I wish I (to help) the victim of the accident yesterday.
- 3. I wish pharmacies (to be) closed on Sundays.
- 4. I wish the pharmacy (to be) closed this morning when I came there to buy an antiseptic solution.
- 5. I wish the mankind (to know) more about the treatment of infectious diseases.
- 6. I wish I (to follow) a proper daily regimen since childhood.
- 7. I wish you (to have) any complications after tomorrow's operation.

FOLLOW-UP ACTIVITIES

XV. Read the text and fill in the missing words.

Keep Your Teeth Healthy

Part A

motions	halitosis	prevent	neglect
gingivitis	calculus	tongue	plaque
	•	ime of care. It's crucial	
every day to take care of getting the right oral care	e products, as well as	being mindful of your o	laily habits.
	•	mendation is to brush y	
a day. Still, many of us of			
before bed gets rid of the	_		
• •		rtant — in fact, doing	
your teeth is almost as b		•	•
gentle, circular 4)	to remove pla	que. Unremoved plaque	e can harden, leading to
6) buildup a	and 5) (e	early gum disease).	
4. Plaque can also	build up on your 7)	This ca	n lead not only to bad
breath (8)), but also to other of	oral health problems. Ge	ently brush your tongue
every time you brush you	ur teeth.		

Part B

prescription	re-mineralizes	stimulate	reduce			
flossers	arthritis	decay	hard-to-brush			
barrier	acid	amount	toothpaste			
5. When it comes to 1), there are more important elements to look for than whitening powder and flavors. No matter which version you choose, make sure it contains fluoride, because fluoride is a leading defense against tooth 2) It works by fighting germs that can lead to decay, as well as providing a protective 3) for your teeth. 6. Many people who brush their teeth regularly neglect to floss. Flossing is not just removing food debris stuck in between the teeth. It's really a way to 4) the gums, 5) plaque, and help lower inflammation in the area. Flossing once a day is usually enough to reap these benefits. 7. Flossing can be difficult, especially for young children and older adults with 6) These population groups can buy ready-to-use dental 7) at the drugstore. 8. Mouthwash helps in three ways: It reduces the 8) of 9) in						
the mouth, cleans 10) _						
In children and older a mouthwash is particu sensitive teeth. 12)	larly helpful. Certain mouthwash is	brands are best for cl also available.	oss may not be ideal, nildren, and those with			
	Par					
jaws	cavities	avoid	beverages			
chew enamel	treatment sticky	meal checkups	converts fiber			
		-	U			
9. Water continues to be the best beverage for your overall health — including oral health. Also, as a rule of thumb, dentists recommend drinking water after every 1) This can help wash out some of the negative effects of 2) and acidic foods and 3) in between brushes. 10. Ready-to-eat foods are convenient, but perhaps not so much when it comes to your teeth. Fresh, crunchy produce contain more healthy 4) Parents should get their kids on harder-to-eat and 5) foods at a younger age. Try to 6)						
the overly mushy processed stuff, stop cutting things into tiny pieces, and get your 7) working!						
11. Ultimately, sugar 8) into acid in the mouth, which can then erode the 9) of your teeth. These acids lead to 10) Acidic fruits, tea and coffee can also wear down tooth enamel. While you don't necessarily have to avoid such foods altogether, it doesn't hurt to be mindful.						
coffee can also wear down tooth enamel. While you don't necessarily have to avoid such						

XVI. Look through the text "Keep your teeth healthy" again and find an appropriate title for each paragraph in the box below.

- A. See your dentist at least twice a year.
- B. Take care of your teeth regularly.
- C. Drink more water.
- D. Eat crunchy fruits and vegetables.
- E. Use a fluoride toothpaste.
- F. Brush your teeth properly.
- G. Treat flossing as important as toothbrushing.
- H. Don't neglect your tongue plaque.
- I. Don't go to bed without brushing your teeth.
- J. Use mouthwash regularly.
- K. Don't let flossing difficulties stop you.
- L. Limit sugary and acidic food intake.

XVII. Say if the sentences are true or false according to the text.

- 1. Toothbrushing in the morning is more important than that at night.
- 2. The toothbrushing technique is as important as the time of toothbrushing.
- 3. Plaque is a film containing bacteria that builds up on the teeth.
- 4. Flossing is primarily used to remove food debris remaining between the teeth.
- 5. You should floss your teeth as frequently as brush them.
- 6. There are various kinds of flossers designed for people with special needs.
- 7. Mouthwashes have two basic functions to remove pieces of foods from hard-to-brush areas and to freshen the breath.
- 8. Children and adults should use different mouthwashes.
- 9. Drinking water helps reduce the amount of acid in the mouth.
- 10. The harder consistency food products have, the healthier for teeth they are.
- 11. When buying a toothpaste, you should give preference to toothpastes with whitening powder and mint flavor.

XVIII. Read the text about various types of dental floss and fill in the table below.

Dental Floss

From the horse hair "floss" of ancient times to the silk thread "floss" of the 1800s, floss was used by very few people until the invention of nylon floss in the 1940s. Nylon remains one of the most popular floss materials today.

Nylon floss ("regular" or "traditional") is made of multiple nylon filaments twisted together with 2.5–3.5 twists per inch to create one much stronger strand. Nylon works well in roomy spaces between teeth, but tends to tear or shred when flossing tight spaces. Ribbon nylon floss works well when spaces between teeth are wider, and is often used for children.

Teflon floss is made from the same fiber used for Teflon cookware. Just one filament is all it takes for a strong floss that is less prone to shredding or breaking. Dental tape is most often made of Teflon, which allows the floss to move smoothly between tight teeth.

Eco-friendly floss is made of biodegradable silk thread spun and coated with natural beeswax or a plant-derived wax. Silk breaks and snags easily, so it works best for teeth with smooth edges.

Cleaning teeth with braces, bridges or implants can be tricky. This waxed floss is specially made with stiffer ends to be easily moved through the dental work.

Unwaxed floss is thinner and has a more abrasive texture that may clean smooth edges more easily. Waxed floss can move more easily between teeth that are closely spaced or have rough edges. And for a special treat, waxed floss comes in a variety of flavors, from mint to bubble gum to bacon!

No matter which of these flossing materials you choose, you need to floss every day to protect your teeth against plaque.

Type of Dental Floss	Advantages	Disadvantages
Nylon		
Teflon		
Silk		
Waxed		
Unwaxed		
Flavored		

XIX. Discuss the following questions:

- 1. What does prevention of dental disease entail?
- 2. Name the reasons why you should seek dental visits regularly.
- 3. In what ways can the teeth be cleaned?
- 4. What role does chewing play in cleaning teeth?
- 5. Why are teeth still exposed to the risk of caries even if the patient brushes them after each meal?
- 6. When is toothbrushing considered to be effective?
- 7. What hardness of the toothbrush should be preferred for adults/children? Why?
- 8. Why are toothbrushes with a small head considered to be the most effective?
- 9. Describe the toothbruhing technique recommended by dentists.
- 10. How should the toothbrush be handled between toothbrushing procedures?
- 11. Are electric toothbrushes more effective than ordinary ones? In what cases may electric toothbrushes be preferred?
- 12. How quickly does new plaque form?
- 13. Speak about the role of plaque in the etiology of dental diseases.
- 14. What type of dental floss are you using now? What advantages does it have? Do you experience any discomfort when flossing your teeth? If so, how can you explain it?
- 15. Make a list of 10 basic steps to prevent oral diseases and explain their significance.

PART II. PUBLIC HEALTH MEASURES

LANGUAGE DEVELOPMENT

I. Match the words with their definitions:

1.	A baby from birth to about 2 months of age	a) a toddler
2.	A child during the earliest period of its life (usually including	b) a newborn
	the time from birth to about one year old), especially before he	
	or she can walk; baby	
3.	A child approximately 12 to 36 months old (the noun is derived	c) an infant
	from the word, which means to walk unsteadily, like a child of	
	this age)	
4.	A human being between the stages of birth and puberty	d) an adolescent
5.	A young person during the transitional stage from puberty to legal	e) a pregnant
	adulthood (age of majority)	woman
6.	An expectant mother	f) a midwife
7.	A health professional who is trained to assist women in childbirth	g) a benefit
8.	(noun) The beginning of something, especially something	h) incipient
	unpleasant	
9.	(adjective) Beginning to happen or develop; existing in an early	i) an onset
	stage	
10.	Attempt to do something; energy needed to do something;	j) an impact
	activities towards the aim	
11.	A helpful or good effect; an advantage or profit gained from	k) a child
	something	
12.	A marked effect or influence	l) an effort

II. Match the Russian-English equivalents:

- 1) консультирование по гигиене полости рта
- 2) позволить сохранить зубы
- 3) включать регулярные осмотры
- **4)** рентгенографические снимки с прикусным устройством
- 5) быть доступным
- 6) побочные эффекты
- 7) подчеркнуть, обратить внимание
- 8) нанести раствор фторида олова на зубы
- 9) беременные женщины
- 10) таблетки для индикации зубного налета
- 11) окрашивать зубы в ярко-красный цвет
- 12) на предприятиях по переработке воды
- 13) персонал клиники
- 14) значительное снижение (уменьшение) частоты кариеса

- a) to entail regular inspection
- **b**) a significant reduction in caries
- c) to be available
- d) instruction in oral hygiene
- e) at waterworks
- **f**) disclosing tablets
- g) to enable the teeth to be conserved
- h) to stain teeth bright red
- i) clinic staff
- j) bite-wing X-rays
- **k)** to paint stannous fluoride solution over the teeth
- l) side effects
- m) expectant mothers
- **n**) to emphasize

III. Match the beginnings and endings of the phrases:

- 1. removal
- 2. an incipient onset
- 3. an urgent
- 4. topical
- 5. to eliminate
- **6.** to suck
- 7. to contain
- **8.** to produce a beneficial
- **9.** to apply fluoride
- 10. to establish
- 11. to maintain
- **12.** to fluoridate water
- **13.** to have no adverse effects
- 14. to make enamel more
- **15.** to evade dental inspection
- **16.** to accept the dental surgery

- a) stagnation areas
- **b**) fluoridation of enamel
- c) on general health
- **d)** until toothache develops
- e) a dye
- f) effect
- g) of calculus
- **h)** of periodontal disease
- i) good dental health
- j) a disclosing tablet
- k) need
- 1) to the crowns
- m) as a place of interest
- n) good dental habits in childhood
- o) supplies
- **p)** resistant to acid attack

IV. Write out pairs of synonyms:

a)

- 1) beneficial
- 2) available
- 3) correct
- 4) essential
- 5) sufficiently
- **6)** milk (products)
- 7) milk (teeth)
- 8) adequate
- **9**) rapidly
- 10) deficient
- 11) common
- 12) apparent
- 13) cost-effective

- a) deciduous
- **b**) wide-spread
- c) normal, sufficient
- **d**) useful, healthy
- e) quickly
- f) producing good results for the amount of money spent
- g) dairy
- h) enough
- i) proper
- j) necessary, vital
- k) insufficient
- 1) evident
- m) accessible

b)





V. Make 10 sentences with expressions from ex. I-IV.

VI. Fill in prepositions:

- 1. Instruction ... oral hygiene is most effective when given ... the chairside.
- 2. The dye ... a disclosing tablet stains the teeth ... bright red.
- 3. Dentists should warn patients ... snacks ... meals.
- 4. Any diseases are treated more easily ... initial stages.
- 5. ... topical fluoridation stannous or sodium fluoride solution is applied ... the teeth.
- 6. The discipline ... confining sweets ... mealtimes can be developed ... an early age.
- 7. Children's nutrition should not leave a film ... carbohydrate debris ... the teeth.
- 8. Well-developed teeth are more resistant ... caries.
- 9. During the period of tooth formation fluoride is incorporated ... the teeth.
- 10. In many areas natural water supplies are deficient ... fluoride.
- 11. Due ... water fluoridation only, caries is reduced ... 50 % ... the entire population.

VII. Fill in the missing words:

- 1. ... is better than cure.
- 2. The ... effect of cleaning teeth is cancelled out if the patient has frequent ... between meals
- 3. To prevent periodontal disease developing, periodic ... to remove calculus should be done on a regular
- 4. The dentist can ... sodium fluoride gel using a special impression
- 5. Fluoride tablets prove to be effective if they are taken in ..., and
- 6. Expectant and ... mothers should be consulted on the most common causes of caries in children.
- 7. Parents should ... their children's consumption of chocolates and sweet drinks.
- 8. Calcium, phosphorus and vitamins ... proper tooth structure.
- 9. If a child consumes a ... amount of dairy products, meat, fish, fresh fruit and vegetables, the risk of caries will be
- 10. Teeth can be made more resistant to caries through fluoridation of water supplies, topical fluoridation of enamel, fluoride ... and fluoride
- 11. ... fluoridation of water supplies is adding fluoride at the ... where it reaches the ideal concentration of 1 p. p. m.

GRAMMAR PRACTICE

CONDITIONALS

VIII. Use the words in brackets according to the models and translate the sentences.

A) TYPE 0 CONDITIONAL SENTENCES (INDICATIVE MOOD)

		Principal Clause	Subordinate clause
Type 0	Complex sentences	Present Simple	<i>if</i> + Present Simple
Conditionals	with a <u>real</u> condition	$(V_1 / V_1 + (e)s)$	$V_1 / V_1 + (e)s$
	referring to the <u>present</u>		
	and expressing		
	general truth		

Model:

If you are ill with an infectious disease, your body temperature rises.

- 1. If water (to heat) to 100 °C, it (to boil).
- 2. If a patient (to have) caries, the dentist (to reveal) areas of softened enamel and dentine in one or more teeth.
- 3. If a patient (not to remove) plaque regularly, bacteria (to multiply) on the teeth and (to cause) caries.
- 4. If calculus (not to remove) in time, it (to lead) to periodontal disease.
- 5. Scaling (to have) little effect if the patient (to continue) not to follow proper oral hygiene.
- 6. Caries still (to occur) if snacks (to take) between meals.

Give you	ur exan	iples:
----------	---------	--------

7.	 			
8.		 		

B) TYPE 1 CONDITIONAL SENTENCES (INDICATIVE MOOD)

		Principal Clause	Subordinate clause
Type 1	Complex sentences	Future Simple	if + Present Simple
Conditionals	with a <u>real</u> condition	$(shall/will + V_1)$	$V_1 / V_1 + (e)s$
	referring to the <u>future</u>		

Model:

If you **cut** your finger, it **will bleed**.

- 1. If the dentist (to detect) caries, he (to fill) the tooth.
- 2. If the patient (to have) a cavity in one of the front teeth, the dentist (to insert) a composite filling.
- 3. The dentist (to give) you a disclosing tablet if he (to want) to check whether you have a correct toothbrushing technique.
- 4. If a patient (to complain) of gum bleeding, the dentist (to suspect) gingivitis.
- 5. The child (to receive) a toy after the examination if he (to behave) well during the dental treatment.
- 6. If the dentist (to be able) to see me on Friday, I (to make) an appointment with him for 3 p.m.

Gi 7.	ve your examples:			
8.				

C) TYPE 2 CONDITIONAL SENTENCES (SUBJUNCTIVE MOOD)

		Principal clause	Subordinate clause
Type 2	Complex sentences	would / could /	$if + V_2$
Conditionals	with an <u>unreal</u> condition	$might + V_1$	
	referring		NB!
	to the <u>present</u> or <u>future</u>		was → <u>were</u>
			(for both singular
			and plural)

Model:

If I <u>were</u> you, I <u>would use</u> the dental floss regularly. = <u>Were</u> I you, I <u>would</u> use the dental floss regularly.

The girl $\underline{would\ need}$ braces if she \underline{had} malocclusion. = \underline{Should} the girl \underline{have} malocclusion, she $\underline{would\ need}$ braces.

- 1. If the patient (to have) pulpitis, the dentists (to perform) pulp extirpation and endodontic treatment.
- 2. If I (not + can brush) my teeth after eating carbohydrate food, I (to rinse) the mouth with water.
- 3. I (not to allow) my child to have so many sweets and chips for snacks if I (to be) you.
- 4. If you (not to floss) your teeth, bacteria (to accumulate) in the interdental areas.
- 5. If the water in this area (not to be) naturally fluoridated, fluoride (to add) to the water supplies artificially at the waterworks.

Give your examples:			
6.			
7.			

D) TYPE 3 CONDITIONAL SENTENCES (SUBJUNCTIVE MOOD)

		Principal clause	Subordinate clause
Type 3 Conditional	Complex sentences with an <u>unreal</u> condition referring to the <u>past</u>	would / could / might have V ₃	if + had V_3

Model:

If you <u>had visited</u> the dentist a few months ago, you <u>wouldn't have developed</u> pulpitis. = Had you <u>visited</u> the dentist a few months ago, you <u>wouldn't have developed</u> pulpitis.

- 1. If the child (not + to have) deep caries in his left lower canine, the dentist (not to extract) it.
- 2. The dentist (not to detect) interdental caries if he (not to take) X-rays yesterday.

- 3. The predisposition of your permanent teeth to caries is largely due to your poor oral health in childhood. If you (to have) a correct diet and (to suck) fluoride tablets regularly, your deciduous teeth (to be) stronger.
- 4. The surgeon (not to extract) your first right lower molar if it (to be) possible to preserve it.
- 5. During the last visit to the dental clinic the children read some posters and pamhplets on the cause of caries. If they (not to explain) the basics of oral hygiene by the dentists, they (not to realize) the necessity of tooth brushing and flossing.

Give your examples:			
6			
7			

E) MIXED TYPE CONDITIONAL SENTENCES (SUBJUNCTIVE MOOD)

	Principal clause	Subordinate clause
Sentence with an unreal condition	would $+ V_1$	$if + had V_3$
(the condition refers to the past,		
the consequence refers to the future)		
Sentence with an unreal condition	would have + V ₃	$if + V_2$
(the condition refers both to the past		
and present (denotes a general		(NB! was \rightarrow were
statement);		is used for both
the consequence refers to the past)		singular and plural)

Model:

If you <u>had gone</u> to bed earlier yesterday, you <u>wouldn't have</u> a headache now. = <u>Had</u> you <u>gone</u> to bed earlier yesterday, you <u>wouldn't have</u> a headache now.

If you <u>were a responsible parent</u>, your son <u>wouldn't have developed</u> multiple caries. = <u>Were</u> you <u>a responsible parent</u>, your son <u>wouldn't have developed</u> multiple caries.

- 1. The man (to have) still 32 teeth if he hadn't had his wisdom teeth extracted.
- 2. If you (to be) in the habit of brushing and flossing your teeth regularly, you (not to develop) subgingival calculus by your age.
- 3. If you (to have) topical application of fluoride in your childhood, your tooth enamel (to be) resistant to caries now.
- 4. If the patient (not to have) mobile teeth in both upper and lower jaws, the dentist (not to make) the diagnosis of periodontal disease yesterday.
- 5. If the concentration of fluoride in the water supplies (not to be) higher than 1 p.p.m. in this area, the dental survey at the beginning of this year (not to reveal) mottling of enamel in 40 % of children.
- 6. If the dentist (not to remove) tartar during the preventive check-up, the jagged scales of calculus (to continue) to irritate the gums.

Give your examples:				
7				
8.				

MIXED PRACTICE

IX. Choose a proper translation.

- 1. If the weather were fine we'd go for a walk.
 - а) Если погода хорошая, мы ходим на прогулку.
 - б) Если погода будет хорошая, мы пойдём на прогулку.
 - в) Если бы погода была хорошей, мы бы пошли на прогулку.
- 2. If you had consulted the dentist, you wouldn't have developed caries.
- а) Если бы ты регулярно консультировался со стоматологом, у тебя не развивался бы кариес.
- б) Если бы ты раньше консультировался со стоматологом, у тебя не появился бы кариес.
- 3. If nursing mothers were encouraged to bring their babies for their own dental inspections, children would accept dental surgery as a place of interest.
- а) Если бы женщин, имеющих грудных детей, раньше поощряли брать малышей с собой на собственные стоматологические осмотры, дети стали бы воспринимать кабинет стоматолога как место, вызывающее у них интерес.
- б) Если бы женщин, имеющих грудных детей, поощряли брать малышей с собой на собственные стоматологические осмотры, дети в будущем воспринимали бы кабинет стоматолога как место, представляющее для них интерес.

X. Determine the type of the conditional sentences. Translate the sentence into Russian.

- 1. If patients have oral diseases, they go to the dentist.
- 2. If you went to the dentist, he would instruct you on oral hygiene and explain to you how to use an electric toothbrush.
- 3. If you go to the dentist, he will examine your teeth and administer a proper dental treatment if necessary.
- 4. If you had followed oral hygiene since childhood, you wouldn't have signs of periodontal disease at such a young age.
- 5. Unfortunately, your tooth is far gone. If you had consulted the dentist earlier, he would have filled the cavity and saved the vitality of the pulp.

XI. In-class practice. Use the verbs in the necessary form of the Subjunctive Mood. (Express unreal actions.)

- 1. If young teenagers (to realize) the importance of good oral health they (to come) for dental inspections more regularly.
- 2. If the child (not to be) so little he (to brush) his teeth himself.
- 3. If the girl (to start) brushing her teeth earlier, she (not to have) carious teeth now.
- 4. If my fellow student (to study) harder during the semester, he (not to fail) the exam in Anatomy.
- 5. If the patient (not to lose) two teeth due to an injury, the dental technician (not to have to fabricate) dentures now.
- 6. If you (to brush) your teeth twice a day, your risk of caries (to be) much lower.
- 7. If metal fillings (not to conduct) heat and electricity, dentists (not to need to place) linings before their insertion to insulate the pulp.
- 8. If the dentist (to have) enough time for inserting the permanent restoration during the last visit, he (not to arrange) another appointment for the patient.

XII. Out-of-class practice. Use the verbs in the necessary form of the Subjunctive Mood. (Express unreal actions.)

- 1. Dentists (to have) too many responsibilities if dental nurses (not to assist) them.
- 2. Before the examination the nurse had sterilized the dental instruments. If she (not to do) so, the patient (can + to infected) with pathogenic microorganisms.
- 3. If the patient (not to wear) braces when he was 10, he (to suffer) from malocclusion now.
- 4. If elderly people (not to have) edentulous jaws they (not to have to wear) full dentures.
- 5. If the man (not to survive) a car crash, he (not to receive) multiple bone fractures.
- 6. If the ambulance (not to come) to the call in 15 minute, the old woman (can + to die) because of a bad heart attack.
- 7. If I (to know) that sweetened fruit juices caused caries I (not to consume) them in my childhood.
- 8. If dental care in many countries (not to be) so expensive many more people (can + to afford) it.

XIII. Answer the questions using the Subjunctive Mood:

- 1. If you had crowded teeth, would you consult a maxillofacial surgeon or an orthodontist?
- 2. What would you do if you noticed gum bleeding after toothbrushing?
- 3. How would you clean your teeth after a meal if you had no toothbrush?
- 4. What would you use to remove food debris from the interdental areas?
- 5. What type of dental floss would you recommend to your patients and why?
- 6. What mouth-wash could a dentist prescribe if a patient had stomatitis?
- 7. What diet would you recommend to a pregnant woman? Why?
- 8. What salt would you prefer for cooking fluoridated or ordinary one? Explain your choice.
- 9. If a male patient had deep gum pockets, would he be administered apicectomy or gingivectomy?
- 10. Would you be able to diagnose caries / pulpitis / periodontitis if you were shown X-ray pictures?
- 11. If you were a dentist, what filling materials would you use for filling front and back teeth?

FOLLOW-UP ACTIVITIES

XIV. Arrange the words logically to make sentences.

- 1. Oral, responsibility, the, is, patient's, hygiene.
- 2. Water, reduction, in, fluoridation, can, cause, the incidence, of, a dramatic, caries.
- 3. Tooth, cleans, the toothbrush, massages, all, the gums, not, also, accessible, but, only, surfaces.
- 4. Can, unremoved, calculus, harden, to form, plaque.
- 5. Disclosing, red, bacteria, stain, the teeth, tablets, on, bright.
- 6. Be, only, should, confined, to, sweets, mealtimes.

XV. Read the text. Fill in the missing prepositions when necessary.

The link ... fluoride and oral health dates the 1930s, and today fluoride remains one ... dentistry's key strategies to prevent dental caries. There are many methods ... fluoride delivery e.g. toothpaste, fluoridated water, milk, mouthrinses, gels, varnish, etc.

Toothbrushing is the process used to mechanically remove and control ... the dental biofilm to help prevent caries and oral diseases. Recommendations ... toothbrushing and the use ... fluoride toothpaste including the choice ... concentration, the frequency ... toothbrushing and the amount ... toothpaste can vary. Toothbrushing is usually carried ... using a manual or powered toothbrush and a fluoride toothpaste, ... 2 minutes twice daily. Toothbrushing ... fluoride toothpaste is by far the most common form ... caries control, and fluoride toothpaste use is commonly linked ... the decline ... caries prevalence ... many countries.

There is an argument that the effects ... fluoride toothpaste are underestimated in "short-term" clinical trials (of, per, in) 2 ... 3 years duration. It is reasonable to assume that a greater cumulative effect is conferred (to, over, on) time as fluoride toothpastes are used (in, during, throughout) ... life. In addition, some argue that the use ... fluoride toothpaste in areas ... community water fluoridation offers more protection than either of them alone.

However, concern has been expressed that dental fluorosis, enamel defects caused by young children chronically ingesting excessive amounts ... fluoride during the period ... tooth formation (... to the age of 6 years), is increasing in both fluoridated and non-fluoridated communities, and the early use ... fluoride toothpaste ... young children may be an important risk factor.

XVI. Answer the questions.

- 1. What are the methods of fluoride delivery?
- 2. Does the choice of toothpaste significantly influence the prevalence of caries?
- 3. Are there any concerns associated with the use of fluoride toothpastes?

XVII. Read the text. Form derivatives to complete the text.

The formulation and fluoride concentration of toothpaste is diverse, with a **1.** (*various*) of fluoride compounds used **2.** (*single*) and in **3.** (*to combine*) including sodium fluoride, sodium monofluorophosphate, amine fluoride and **4.** (*stannum*) fluoride, and, according to each manufacturer's specifications, these must be **5.** (*compatibility*) with other **6.** (*base*) ingredients, especially **7.** (*abrasion/adjective*) systems (which account for almost half of the entire toothpaste formulation).

Fluoride toothpaste must be differentiated from fluoride **8.** (*prophylaxis*) pastes, since their fluoride concentrations, methods and **9.** (*frequent*) of **10.** (*to apply*) differ, as well as amounts of abrasives in their formulation (abrasives account for almost the entire **11.** (*to contain*) of a prophylactic paste).

In addition, although some kinds of toothpastes are available in the translucent form of a gel, they differ from fluoride gels, which have higher fluoride levels, no abrasives and are applied much less **12.** (*frequent*), usually by a **13.** (*profession*).

The usual **14.** (to concentrate) of fluoride in toothpaste ranges from 1000 to 1500 parts per million (ppm); toothpaste with **15.** (high) and **16.** (low) than conventional fluoride levels are available in many countries. There is no **17.** (to restrict) on the minimum fluoride concentration, but the maximum **18.** (to permit) fluoride concentration for a toothpaste varies according to **19.** (local) and age.

Higher **20.** (to concentrate) are classed as a prescription-only medicine. In the UK, 2800 ppm sodium fluoride toothpaste can be prescribed to high caries-risk patients **21.** (age) 10 years and over, those with caries present, orthodontic **22.** (to apply), or who have a highly cariogenic diet or medication. 5000 ppm toothpaste can be prescribed to high

caries-risk patients **23.** (*age*) 16 years and over, with present or potential for root caries, dry mouth, orthodontic **24.** (*to apply*), overdentures, or those with highly **25.** ("caries" + "genesis"/adjective) diet or medication.

XVIII. Say if the sentences are true or false.

- 1. All fluoride pastes have the same properties.
- 2. There is no restriction on the maximum fluoride concentration in prophylactic toothpastes.
- 3. Fluoride gels have a higher content of abrasive components than fluoride toothpastes.
- 4. Toothpastes with fluoride concentration over 1500 p.p.m. have a curative effect.
- 5. In the UK patients with severe dental disorders, as well as patients undergoing orthodontic treatment or those wearing dentures and having a high risk of caries can be prescribed 2800–5000 p.p.m. toothpastes.
- 6. To take care of teeth while wearing braces a 15-year-old patient should use 5000 p.p.m. toothpaste.
- 7. In the UK toothpastes with fluoride concentration of 2800 p.p.m. are available over the counter.
- 8. High fluoride concentration toothpastes should be used only if administered by the dentist.

XIX. a) Read the text using the verbs in the brackets in the necessary form. Say what problem the text deals with.

Toothpaste (to contain) higher concentrations of fluoride may (to provide) greater protection against caries but (to increase) the risk of fluorosis (enamel defects (to cause) by chronic ingestion of excessive amounts of fluoride during the period of tooth formation). Chronic ingestion of fluoride from toothpaste in young children (to be) common and despite the large variation in the amount swallowed, the younger children (to be), the more likely they (to be) to swallow larger amounts, which often (to represent) a substantial part of the total daily fluoride intake and can (to be) enough to cause fluorosis.

Although the precise amount of fluoride (F) (to ingest) beyond which fluorosis may (to occur) is not known, a threshold of 0.05 mg F/kg to 0.07 mg F/kg body weight has been suggested. A child-sized toothbrush (to cover) with a full strip of toothpaste holds approximately 0.75 g to 1.0 g of toothpaste, and each gram of fluoride toothpaste (to contain) approximately 1.0 mg of fluoride; children aged less than 6 years may (to swallow) an estimated 0.3 g of toothpaste per brushing (0.3 mg of fluoride). As a result, it is generally recommended that children of 6 years of age and under (to supervise) when (to brush) their teeth with fluoride toothpaste and only a "pea-sized" amount of toothpaste (to use).

The frequency of toothpaste use along with the method of (to rinse) after toothbrushing are other factors influencing the effectiveness and safety of fluoride toothpaste. (To brush) twice a day or more, or (to rinse) less thoroughly or not (to rinse) at all would provide greater caries reduction than (to brush) once a day or less, or (to rinse) with larger volumes of water after toothbrushing. Although acute toxicity is rare, young children are particularly at risk of (to ingest) toxic doses of fluoride from a standard toothpaste tube of 125 g, (to contain) 1100 ppm F (1.1 mg F/g paste). As the probable toxic dose is around 5 mg F/kg body weight, the accidental (to swallow) of one- or two-thirds (45 g to 90 g) of a toothpaste tube is potentially life-threatening for a 1-year-old (10 kg) or for a 5 to 6-year-old (20 kg) respectively. For this reason, it (to recommend) that a fluoride toothpaste (to keep) out of the reach of young children.

b) Make a summary of this text in 3-5 sentences.

XX. Complete the text with the words from the box.

remineralisation	topical	deposited
loss	acid	structure
maintained	effect	surface
varnishes	enamel	mouthrinse

The most important entirection 1) of fluoride results from its level entire
The most important anti-caries 1) of fluoride results from its local action
on the tooth through the promotion of 2) of early caries lesions and reduction
in tooth 3) solubility.
The presence of fluoride at the time of the 4) attack markedly reduces
enamel demineralization (mineral 5)), and fluoride enhances mineral gain
and provides a more resistant enamel 6)
This occurs with all forms and concentrations of fluoride, although to a variable
extent. With high-concentration topical fluoride vehicles such as 7) and gels,
calcium fluoride is precipitated on the enamel 8) and in the plaque. This calcium
fluoride acts as a fluoride reservoir, which is released when the oral pH falls.
The amount of fluoride 9) in the subsurface lesion is greater after
10) application with high-concentration fluoride vehicles. Regular use of
fluoride toothpaste or 11) (topical fluoride vehicles of relatively low
concentration) results in sustained elevated fluoride concentrations in oral fluids during the
demineralisation-remineralisation cycle, as small amounts are 12) constantly
in the mouth.

XXI. Say if the sentences are true or false.

- 1. Preventive dentistry is the dental surgeon's contribution.
- 2. Toothbrushing is more important for caries prevention than dietary discipline.
- 3. Prevention of caries in children should be started during pregnancy and breastfeeding.
- 4. All strains of bacteria metabolize sugar and form acid which causes caries.
- 5. In well-formed teeth caries progresses as rapidly as in teeth of poorer structure.
- 6. If the amount of fluoride in water is 1 p. p. m., it completely reduces the incidence of caries.

XXII. Complete the sentences.

- 1. Dental health education is a public ... measure.
- 2. Oral hygiene consists of removing plaque deposits which lead to caries, ... and ultimately
- 3. One of the most effective public health measures is fluoridation of water
- 4. While cleaning the gum margin you should avoid ... of the tooth necks.
- 5. Dentists recommend brushing not more than
- 6. Toothbrushing should be followed by ... and mouth rinsing.
- 7. Mouth rinsing expels food debris dislodged
- 8. Raw fibrous fruit and vegetables require much ... and scour the teeth clean of food
- 9. Dental X-rays are taken for early ... of caries.
- 10. To prevent caries, children should wear orthodontic devices for ... teeth.
- 11. Expectant mothers should follow a diet rich in
- 12. The amount of fluoride remaining in the subsurface lesion proves to be greater with regular use of fluoride ... than after topical ... of high-concentration fluoride

XXIII. Discuss the following questions.

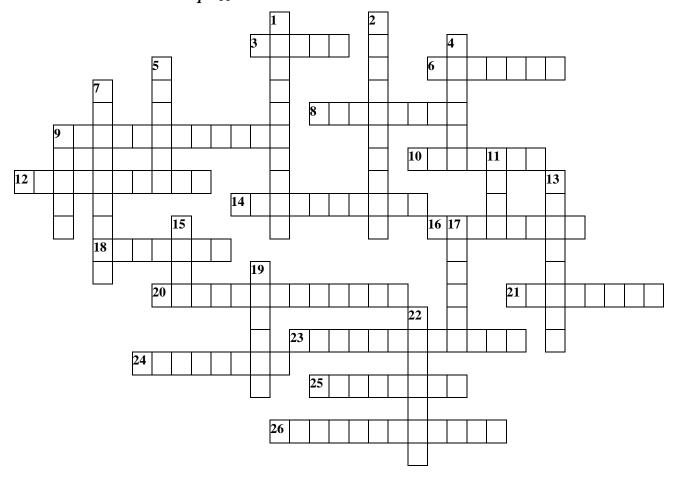
Preventive Dentistry

- 1. How can dental health education of the population be provided?
- 2. What is a convincing way to demonstrate to patients the efficiency of their toothbrushing?
- 3. If you were a dentist, what aspects of oral hygiene would you explain to your patients?
- 4. Provided that prevention is better than cure, what preventive procedures should patients undergo twice a year / once a year?
- 5. Why should dental X-rays be taken?
- 6. What measures to make teeth more resistant to caries can be taken?
- 7. In what ways can fluoride be delivered to the enamel?
- 8. Which way of fluoridation is most effective?
- 9. How is topical fluoridation performed?
- 10. What are the benefits of topical fluoridation?
- 11. Why is taking fluoride tablets described as a method not suitable for the general public?
- 12. What patients may get prescriptions for 2800 and 5000 p.p.m. toothpastes?

Public Health Measures

- 1. What population groups are in more urgent need of advice on dental care?
- 2. Who can help to provide dental health education of the population besides dentists?
- 3. How can children be made cooperative dental patients?
- 4. How can young teenagers realize the importance of regular dental inspections?
- 5. What issues concerning dental care should be made clear to the parents of little children?
- 6. If you were a dentist how would you make information concerning good oral health maintenance, dietary discipline, strict oral hygiene and regular dental inspection more available and clear to patients?
- 7. How is a person's diet associated with oral health? What diet is most beneficial for proper formation of teeth?
- 8. Does environment influence oral health? If so, in what way?
- 9. What microelements are vital for the health of teeth?
- 10. Does fluorine produce any adverse effects on teeth?
- 11. What is the optimal concentration of fluoride in the water?
- 12. Prove the effect of water fluoridation on tooth enamel.
- 13. Does fluoridated water produce any adverse effects on general health?
- 14. Is it possible to prevent caries and periodontal disease?

XXIV. Do the crossword puzzle.



Down:

- 1. Measures taken to decrease the chance of getting some disease or condition.
- 4. Associated with teeth (... diseases, ... examination, ... surface).
- 5. The most wide-spread disease of civilization.
- 7. A liquid containing an antiseptic to kill harmful bacteria that can live between teeth and on the tongue.
- 9. A soft filament (often waxed and minted) used to remove food debris and dental plaque from interdental areas.
- 11. A mineral contained in eggs, seafood, red meats, breads and green leafy vegetables that helps to keep red blood cell counts at their appropriate levels and helps fight against gum disease and oral infections.
- 15. The use of specific foods to maintain health; nutrition.
- 17. The same as calculus.
- 19. A sticky, colorless or pale yellow film constantly forming on the teeth.
- 22. The practice of keeping one's mouth clean and free of bacteria to prevent oral diseases and bad breath.

Across:

- 3. A dental instrument used for detecting tooth cavities.
- 6. A thin, plastic coating painted on the chewing surfaces of teeth forming a protective shield over the enamel of each tooth to prevent tooth decay.

- 8. A single sheet of paper with educational information printed on both sides and folded in half, in thirds, or in fourths.
- 9. Adding fluoride to water, milk, mouthrinses etc.
- 12. A thick viscous fluid used to brush teeth and maintain their aesthetics and health.
- 14. An oral hygiene tool used to clean the teeth, gums, and tongue.
- 18. Professional tooth cleaning that reaches below the gumline to remove plaque and calculus
- 20. Any process that removes, kills, or deactivates microorganisms.
- 21. The ... of a toothbrush can be hard, medium and soft; smooth and rippled. Soft ... provide gentle care for children's teeth and gums. Rippled ... effectively remove food debris from hard-to-reach interdental areas.
- 23. The class of nutrients turned by bacteria into acid and causing tooth decay.
- 24. Solidified stagnation that can be observed above and below the gumline.
- 25. Dental fluorosis is unsightly ... of enamel.
- 26. The branch of dentistry that deals with the correction of malpositioned teeth and contributes to prevention of caries and periodontal diseases.
- 2 Down and 10 Across: Two most important minerals that play a vital role in the formation and maintenance of healthy teeth and jaws.
- 16 Across and 13 Down: A colorless inorganic compound of tin and fluorine used for topical fluoridation of teeth.

THE SELECTED TEXTS ARE BASED ON THE FOLLOWING WEBSITES

- 1. http://apexdentaliowa.com/jaw-and-facial-development-in-children
- 2. http://baredentalclinic.co.uk/Dental%20Anatomy.pdf
- 3. http://removpros.dentistry.dal.ca/ewExternalFiles/RPD%20Manual%2011.pdf
- 4. http://www.3mb.asia/the-use-of-composites-in-dentistry
- 5. http://www.circusorthodontics.co.uk/functional-appliances-bath.html
- 6. http://www.exodontia.info/ApicExplanation.html
- 7. https://books.google.by/books?id=YvbsDwAAQBAJ&pg=PA185&lpg=PA185&dq#v=one-page&q&f=false
- 8. https://en.wikipedia.org/wiki/Periodontal_disease#Causes
- 9. https://jamiethedentist.com/complete-dentures/procedure
- 10. https://jamiethedentist.com/partial-dentures/procedure-part-2
- 11. https://medlineplus.gov/ency/article/001058.htm
- 12. https://pocketdentistry.com/13-try-in-procedures
- 13. https://pocketdentistry.com/impression-materials-a-comparative-review-of-impression-materials-most-commonly-used-in-restorative-dentistry
- 14. https://quizlet.com/subject/alginate
- 15. https://sinclairdds.com/lets-make-impression-dental-impressions
- 16. https://www.aegisdentalnetwork.com/id/2005/10/impression-material-basics
- 17. https://www.blackwellpublishing.com/content/BPL_Images/Content_store/Sample_chapter/1405105283%5CCHAP-10-15.pdf
- 18. https://www.britannica.com/science/jaw
- 19. https://www.colgate.com/en-us/oral-health/basics/dental-visits/what-is-an-alginate-impression
- 20. https://www.colgate.com/en-us/oral-health/life-stages/teen-oral-care/what-is-orthodontics
- 21. https://www.dentalcare.com/en-us/professional-education/ce-courses/ce500/primary-dentition
- 22. https://www.dentalcare.com/en-us/professional-education/ce-courses/ce500/primary-dentition
- 23. https://www.dentalnursenetwork.com/news/dental-nursing-library/1073-the-difference-between-impression-materials.html
- 24. https://www.eslprintables.com/vocabulary_worksheets/health/at_the_dentist/Oral_surgery_772 826
- 25. https://www.healthline.com/health/periodontitis
- 26. https://www.infodentis.com/fixed-prosthodontics/bite-registration.php
- 27. https://www.mayoclinic.org/first-aid/first-aid-tooth-loss/basics/art-20056635
- 28. https://www.mayoclinic.org/first-aid/first-aid-tooth-loss/basics/art-20056635
- 29. https://www.mouthhealthy.org/en/az-topics/o/orthodontics
- 30. https://www.msdmanuals.com/home/mouth-and-dental-disorders/biology-of-the-mouth-and-teeth/biology-of-the-teeth
- 31. https://www.mydentist.co.uk/big-smiles-blog/article/the-dental-blog/2017/07/13/a-day-in-the-life-of-an-orthodontist
- 32. https://www.nature.com/articles/vital1329
- 33. https://www.ncbi.nlm.nih.gov/books/NBK547685
- 34. https://www.nhs.uk/conditions/orthodontics
- 35. https://www.norismedical.com/for_patients/for-patients/tooth-loss-cause-effect
- 36. https://www.oregondentist.com/Blog/Post/What-is-an-Ultrasonic-Scaler
- 37. https://www.southerncrossdental.com.au/useful-information/stages-of-fabrication-for-dentures
- 38. https://www.synonyms.com/serp.php?st=overcrowding%2Bteeth&p=9
- 39. https://www.twi-global.com/technical-knowledge/faqs/what-is-a-composite-material
- 40. https://www.verywellhealth.com/pulpotomy-procedure-4588447#:~:text=A%20pulpotomy%20 is%20a%20dental,has%20extended%20to%20the%20pulp.
- 41. https://www.youtube.com/watch?v=I42L2KMfSqw

TABLE OF CONTENTS

Предисловие	3
Unit I. Tooth anatomy	4
Part I. Structure of the teeth	4
Part II. First and second dentitions	7
Part III. The jaws	12
Unit II. Therapeutic dentistry	26
Part I. Causes and effects of caries	26
Part II. Pulpitis	29
Part III. Prevention and treatment of caries	32
Part IV. Fillings	34
Part V. Instruments	37
Unit III. Endodontics. Oral surgery	41
Part I. Endodontics	41
Part II. Pulpotomy and apicectomy	47
Part III. Periodontal diseases	53
Part IV. Scaling and gingivectomy	57
Part V. Oral surgery	62
Unit IV. Prosthetics. Orthodontics	67
Part I. Prosthetics	67
Part II. Impression materials	70
Part III. Impressions	74
Part IV. Bite registration	76
Part V. Orthodontics	78
Unit V. Preventive dentistry	85
Part I. Oral hygiene	85
Part II. Public health measures	95
The selected texts are based on the following websites	109

Учебное издание

Ширяева Мария Юрьевна Костюшкина Оксана Михайловна Золотова Ольга Владимировна Абедковская Ирина Юрьевна

УПРАЖНЕНИЯ ПО АНГЛИЙСКОМУ ЯЗЫКУ ДЛЯ СТУДЕНТОВ-СТОМАТОЛОГОВ

ENGLISH MASTERING ACTIVITIES FOR DENTAL STUDENTS

Учебно-методическое пособие

На английском языке

2-е издание, исправленное

Ответственная за выпуск М. Н. Петрова Компьютерная вёрстка Н. М. Федорцовой

Подписано в печать 07.07.22. Формат 60×84/8. Бумага писчая «Allround». Ризография. Гарнитура «Times». Усл. печ. л. 13,02. Уч.-изд. л. 6,43. Тираж 148 экз. Заказ 307.

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.

ISBN 978-985-21-1095-2

