

## **Variant anatomy of human spleen arteries**

*Habibiganjeh kavianomidallah, Ranjbareskandani mansour naser*

*Белорусский государственный медицинский университет, MINSK*

*Научный(-е) руководитель(-и) Шестакович Екатерина Николаевна, Белорусский государственный медицинский университет, MINSK*

### **Введение**

In the modern world, the number of abdominal injuries when the spleen damaged are increases. In this regard is a necessary to preserve the injured organ in the provision of surgical care, which requires detailed knowledge about anatomy of spleen arteries.

### **Цель исследования**

Establish features of anatomy of human spleen arteries.

### **Материалы и методы**

The material for the study was the spleen of 14 people who died at the age of 30 to 70 years and did not have pathology of spleen. The material was obtained in accordance with the Law of the Republic of Belarus No. 51-3 of 12.11.2001 "On Burial and Funeral Affairs" from forensic services of Minsk, Minsk region and Minsk city pathoanatomical bureau. According of investigation the spleen was separated on three equal segments (superior, medial and inferior) by lines, which are perpendicular to the main axis of organ. On each segment diameter of the spleen arteries, the length and width of spleen and hilum of spleen was measured. Statistical processing of data carried out with using the programs "Microsoft Excel - 2013" and "Statistica 10.0 for Windows"

### **Результаты**

Analysis of the obtained data showed that there is a positive correlation between the length of the spleen and the length of the spleen gate (correlation coefficient 0.6). The minimal number of terminal arteries in the spleen gates was 6, and the maximum number was 9. Six spleen arteries was founded in 44.5% cases, eight- in 33.3%, seven – in 11.1% and nine – in 11.1%. Diameter these arteries varied from 0.3 to 0.7 mm. Main segment where was founded the maximal number of arteries is anterior segment

### **Выводы**

The arteries of the spleen are characterized by individual morphometric parameters. Diameter these arteries varied from 0.3 to 0.7 mm. The number of arteries in the spleen gates varied from 6 to 9. Six spleen arteries was founded in 44.5% cases, eight- in 33.3%, seven –in 11.1% and nine – in 11.1%. Main segment where locate the maximal number of arteries is anterior segment.