

# Proceedings of International Educators Conference

Hosted online from Rome, Italy.

Date: 25<sup>th</sup> January, 2024

ISSN: 2835-396X

Website: [econferenceseries.com](http://econferenceseries.com)

## APPENDICITIS - CLASSIFICATION, REASON

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### Abstract:

Appendicitis is the most common surgical disease of the gastrointestinal system and one of the most dangerous diseases. The danger of the disease is, first of all, the inevitability of its rapid development and appearance of serious life-threatening complications. It is very likely that a person will encounter acute appendicitis during his life. 5-10% of people are diagnosed with this disease.

Appendicitis can develop in people of any age and gender. However, statistics show that most often this inflammation is observed in people aged 5-40. Among patients aged 20-40, the number of female patients is twice as large as that of men, but among patients under 20 years of age, men predominate. In general, women are more affected than men. After the age of 40, the probability of developing the disease decreases significantly, but is not equal to zero. Therefore, appendicitis develops even in older people. In addition, appendicitis is occasionally diagnosed in children under 5 years of age.

### DEFINITION AND CLASSIFICATION OF DISEASE

Appendicitis is an inflammation of the appendix, a worm-like tumor located in the lower part of the intestine. Usually, the appendix is a small tube with a diameter of 7-10 mm and a length of 50-150 mm. It starts from the cecum, gradually narrows and has no way out.

The function of the appendix is unclear. Previously, the appendix was considered a simple rudiment, a remnant of humans' distant animal ancestors that ate mainly plants and is now considered redundant. Currently, there are serious reasons for proving that it plays an important role in endocrine and immune processes, as well as in the formation of intestinal microflora. It has been proven that people who have had their appendix removed have problems with having enough beneficial microorganisms in their intestines. However, the appendix is not a vital organ for the body.



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A worm-like tumor or appendix

Photo: corbac40/Shutterstock.com

As a rule, inflammation of the appendix is acute in nature. As a result of the disease, pus accumulates in the tumor, and due to the narrowness of the tumor, it cannot be easily removed. The appendix enlarges and begins to hurt. Eventually, this causes the wall of the appendix to rupture and leak pus into the abdomen. This, in turn, causes acute peritonitis, sepsis, or abscess in the abdominal cavity, which can lead to death with a high probability. The most serious injury is pylephlebitis - it causes liver damage, inflammation of the portal vein, the mortality rate is very high.

The disease passes very quickly and usually lasts more than 2-4 days, rarely a week. Cases of self-healing of acute appendicitis are rare. Sometimes a protective infiltrate from the surrounding tissues can develop around the affected appendix, but this formation can also lead to abscesses. Therefore, the disease requires surgical intervention and medical treatment. With timely treatment of the disease, the outcome will be positive.

Sometimes patients with acute appendicitis develop chronic appendicitis. The manifestation of this condition is 100 times less than acute disease. Usually, surgical treatment is not required.

Acute appendicitis is divided into simple (catarrhal) and destructive forms with complications. Without proper treatment, simple appendicitis almost always turns into destructive appendicitis.

The main stages of the development of appendicitis:

Catarrhal;

Phlegmonosis;

Gangrenosis;

Perforative.

The causes of appendicitis in adults are not yet fully understood. However, scientists emphasize that there is no single cause of appendicitis common to all patients. Each patient may have their own reasons. In most cases, appendicitis is caused by a blockage of the entrance to the appendix. The reasons for the blockage can be different - for example, tubal stones or the entry of foreign bodies. Adhesions caused by compression of the upper part of the appendix due to cholecystitis or enteritis are also causes of obstruction.



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