

## UROLITHIASIS IN ADULT POPULATION

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**Keywords:** urolithiasis, kidney stone, urinary tract, genitourinary system.

**Relevance:** Prevalence of urological diseases has recently increased. This fact is accompanied by a significant number of various complications and requires a serious treatment by an urologist. Kidney stone disease is one of the most common disorders.

**Objectives:** To study the correlation of patient's age and gender with the presence of urolithiasis, and to investigate in which kidney the kidney stones are most often formed in adult population using the database of St. Luke Hospital, St. Petersburg.

**Materials and methods:** The analysis of 150 case histories of patients at the age over 18 years old was performed. Urolithiasis, also known as kidney stone disease, is diagnosed when a solid piece of material (kidney stone) develops in the urinary tract.

**Results:** During the period from November 2019 to March 2020 64 women and 87 men were hospitalized with urolithiasis. Cases of kidney stone disease were reported in patients of all ages. Frequently they were registered among the younger generation of 35 years old and in this group there were more women than men. As well as in the age from 35 to 50 years old the number of women was also higher than men. Kidney stone disease occurs in adults aged from 50 to 70 years old. And in this case, the number of men prevailed over the number of women. Less commonly, urolithiasis was found in patients older than 70 years old, and almost equally distributed between men and women.

The formation of stones in the generation younger than 35 years old was mainly diagnosed in the right kidney, and these were women. Kidney stones in the right kidney were also registered in the population from 35 to 50 years old, and mostly among men.

**Conclusion:** Our results showed that urolithiasis is the most common disease of genitourinary system among women under 50 years old, and among men from 50 to 70 years old. The formation of stones in the generation younger than 35 years old was mainly diagnosed among women and was also registered in the population from 35 to 50 years old, and mostly among men.

### References:

1. <https://www.niddk.nih.gov/health-information/urologic-diseases>
2. <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4678518/>