



## EVALUATING THE EFFECTIVENESS OF HEMORRHOIDECTOMY USING THE LONGO OPERATION AND THE LIGA SURE DEVICE

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<https://www.doi.org/10.5281/zenodo.10495146>

### ARTICLE INFO

Received: 04<sup>th</sup> January 2024

Accepted: 11<sup>th</sup> January 2024

Online: 12<sup>th</sup> January 2024

### KEY WORDS

*Hemorrhoids,  
hemorrhoidectomy, Liga Sure,  
Milligan Morgan.*

### ABSTRACT

*In the article, modern medical care is provided in the treatment of epilepsy in 60 patients aged 23 to 71 years. Hemorrhoid user, socio-economic importance. Traditional and modern operative treatment of hemorrhoids. Analysis of the parameters of the operation in each method: the length of the patient's stay in the hospital, the disease and the intensity of the pain.*

### INTRODUCTION

Hemorrhoid is a common disease in the developed countries of the world. According to world statistics, this disease occurs in 126 out of 1000 people. This indicator is increasing more and more [1,2]. The disease occurs in 43.7% of the adult population and 40% among patients with rectal diseases. Among men and women, the disease occurs in almost the same proportion, on average at the age of 30-50. This disease reduces the quality of life and causes temporary incapacity for work [2].

4/3 of patients are treated with surgery. Despite the active implementation of minimally invasive treatment methods, the most common treatment method remains the Milligan-Morgan operation [3]. Early and late complications after hemorrhoidectomy are observed in 20-34% of cases. [3.4]. Despite the fact that new methods of treatment are actively introduced into clinical practice, the most common surgical intervention remains Milligan-Morgan hemorrhoidectomy [5]. In the United States and Europe, minimally invasive methods for the treatment of chronic hemorrhoids have recently become widespread, which is associated with early diagnosis of the disease and positive results of conservative treatment [6].

But about 30% of patients require radical hemorrhoidectomy in the late (III-IV) stages of the disease, when conservative treatment and minimally invasive methods of surgical treatment are ineffective [7]. Despite the fact that various methods of surgical treatment of hemorrhoids have been developed from the time of Hippocrates to the present, this problem has not yet been fully resolved [8].

The purpose of this study is to evaluate the results of treatment in patients who underwent hemorrhoidectomy according to Milligan Morgan and using the Liga Sure device.

### Materials and methods:



A retrospective study was conducted. Patients were divided into two groups. Group 1 performed hemorrhoidectomy according to Milligan Morgan. Group 2 performed hemorrhoidectomy using the Liga Sure device. A total of 60 patients. Group 1 included 30 patients with III-IV stages of hemorrhoids. They were between 23 and 71 years old, 22 (73.3%) men and 8 (26.7%) women. The mean age was  $47.8 \pm 24.01$  ( $M \pm \sigma$ ).

Group 2 included 30 patients with III-IV stages of hemorrhoids. They were between 29 and 69 years old, 23 (76.7%) men and 7 (23.3%) women. Mean age was  $47.0 \pm 10.7$  years ( $M \pm \sigma$ ). The following parameters are analyzed: the time spent on the operation, the duration and intensity of the pain, the length of stay of the patients in the hospital.

**Table 1.**

### Classification of groups

	Liga Sure guruh	Milligan Morgan guruh
A woman	23,3%	26,7%
Male	76,7%	73,3%
Age	29-69	23-71
Average age	$47,0 \pm 10,7$	$47,8 \pm 24,01$

**Table 2.**

### Time spent on operation in groups

	Liga Sure group	Milligan Morgan group
Average time spent on the operation (minutes)	$16,7 \pm 7,9$	$25,7 \pm 12,6$
Average duration of inpatient treatment (days)	$3 \pm 1$	$7 \pm 2,6$

### Research results and their discussion:

Milligan-Morgan hemorrhoidectomy was used in group 1. Three hemorrhoidal nodes were removed from each patient. The average time spent on the operation was  $25.7 \pm 12.6$  minutes ( $M \pm \sigma$ ). The average duration of inpatient treatment of patients is  $7 \pm 2.6$  days. Severe pain syndrome in patients was eliminated with narcotic analgesics. Long-term non-healing of the operative wound (up to 2 months) was observed in 2 patients. Group 2 patients underwent hemorrhoidectomy using the Liga Sure device. The average duration of the operation is  $16.7 \pm 7.9$  minutes ( $M \pm \sigma$ ). The average duration of inpatient treatment of patients is  $3 \pm 1$  day. There was no need to use narcotic analgesics in the postoperative period. There were no postoperative complications. In patients who underwent hemorrhoidectomy using the Liga Sure device, compared to hemorrhoidectomy according to Milligan Morgan, a significant decrease in the duration and intensity of the pain syndrome after the operation was observed.

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