

Laparoscopic versus open surgery

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Colorectal operations used to be performed laparoscopic, or open way. The question is, which way is the best for the patient. Using logistic regression we can estimate the probability of complications postoperative after laparoscopic and open surgeries. The knowledge of the functional dependence on explanatory variables of these probabilities allow us to choose optimal operational technique. This choice depends on parameters of patients health condition and implicitly on parameters of hospital.

We have exploited data collected on Clinic of Surgery of the University Hospital Ostrava in years 2001 – 2006.