

# COMPARATIVE ANALYSIS OF OFF-PUMP AND ON-PUMP CORONARY ARTERY BYPASS GRAFTING

**Sementeeva Mariia and Goncharova Veronika**

Novosibirsk State Medical University, Russia

**A**mong the elderly, cardiovascular diseases often meet and ischemic heart disease is quite common. Coronary artery bypass grafting (CABG) is one of the most effective surgical methods of treatment of coronary heart disease. Owing to the improvement of the surgical technique, methods of protecting the myocardium and methods of anesthesia, there was a reduction in postoperative complications and mortality after CABG. There are methods of CABG by off-pump and on-pump. Despite the fact that off-pump CABG is characterized by an easier rehabilitation period for the patient, about 80% of operations are performed on a stopped heart. The study purpose is to estimate and compare the frequency of the occurrence of postoperative complications and the revascularization effectiveness of off-pump and on-pump CABG. In assessing the beating-heart revascularization detected the following benefits: shorter duration of operation,

less operative bleeding, usually performed early extubation, absence postoperative postperfusion syndrome, avoiding complications caused by heart-lung machine, such as hypoxia of vital organs, hematological complications (SIRS), vessels microembolisms, advantageous postoperative period, a decrease in the frequency of complications, especially neurological. It appears to produce better results in high-risk patient populations and elderly patients.

## Biography

Sementeeva Mariia is 6<sup>th</sup> year student of the Novosibirsk State Medical University, Russia. She is the scholarship student of the Novosibirsk Government for achievements in science. She has published more than 38 papers and abstracts in Russian journals.

[mariya.sementeeva@mail.ru](mailto:mariya.sementeeva@mail.ru)