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ABSTRACT  
BOOK





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# SURGERY







Stoyan A.

## INVESTIGATION OF THE AORTOCORONARY OPERATION TECHNIQUE

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**Introduction.** Coronary artery bypass grafting operation (CABG) on the heart is one of the most effective treatment methods of patients with coronary heart disease (CHD) in the 21st century. CABG is aimed at restoring normal circulation by creating a revascularization of the myocardium. This time mortality from coronary artery disease in Ukraine is increasing annually. Therefore, CABG surgery is an indispensable method for restoring the physiological work of the heart. Aim. To study the different techniques of CABG. Give a comparative description of the different operation techniques. Make statistical analysis of obtained data.

**Materials and methods.** CABG is a microsurgical operation that is performed using surgical binocular loops, microsurgical instruments and atraumatic threads. There are 2 techniques for a CABG operation in present time: performing an operation with an artificial circulation apparatus (ACA) and on a working heart (without an ACA). The advantages of CABG surgery with an ACA include a temporary replacement of the heart and lungs, ensuring the blood circulation of the body during cardiac arrest, maintaining optimal blood temperature. The shortcomings of this technique include brain damage, kidney failure, inflammatory processes, disorders of the blood coagulation system, pulmonary edema, hypoxia of vital organs, hematologic complications. The advantages of CABG surgery on the working heart include full value independent work of the heart and lungs, using of a coronary shunt to eliminate hypoxia, reduce the risk of postoperative complications and cognitive impairment, the absence of massive blood transfusions and inflammatory immune responses. Today this technique does not contain negative aspects, so it is optimal for people over 75 years old.

**Results.** According to the statistics of the American Association of Cardiology for 2015, 435,000 CABG operations on a working heart were performed in the United States and Israel. The study showed that the survival of patients after this CABG technique is on a high level. A one year survive after the operation was 95%, after 5 years - 88%, after 15 years - 60%.

**Conclusion.** The study of CABG technique allows to give objective estimation for all advantages of the technique without using of the ACA. Survive of patients with using of this technique is increasing. The study of statistical data shows that CABG surgery contributes to an increase in life expectancy, reduces the risk of heart diseases and pathologies developing and is a means of improving the quality of life.