

## STRESZCZENIE W JĘZYKU ANGIELSKIM

Stroke is a clinical syndrome characterized by a sudden focal or generalized brain dysfunction. It is a significant problem in the world, Europe and Poland. In Poland, a stroke occurs on average every 8 minutes. It is preceded by a sudden drop in blood pressure. Stroke and ischemic heart disease are the most common causes of death and the main cause of permanent disability and disability. Due to the global nature of these diseases, it is crucial to choose the most appropriate diagnostic method, the form of therapy and the type of surgery. Two forms of surgery were analyzed in the study: endarterectomy and balloon angioplasty with stent implantation. 106 patients were analyzed based on the difference in blood flow in the carotid arteries before and after the treatment. Patients were also analyzed for the type of disease the patient suffered from. The aim of the study was to evaluate the differences in blood flow after endarterectomy and after balloon angioplasty with stent implantation. Based on the analysis, it can be concluded that both treatments reduce the speed of blood flow in the carotid arteries, thus reducing the likelihood of a stroke.