

## Summary

Doctoral dissertation on the impact of stroke on handwriting image in the context of handwriting identification research.

The object of the research was to examine whether ischemic stroke affects the handwriting image of people. The second research area was to analyze whether it is possible to identify features in the handwriting of stroke-affected people that are distinctive and can be treated as distinctive features. The work addressed issues at the intersection of law and medicine, and verifies whether, on the basis of analysis of handwriting features in the manuscripts of people affected by stroke, it is possible to extract distinctive elements that can be helpful in the diagnosis of this disease. The work consists of six chapters. Chapter one deals with handwriting as a key element of human identification and the development of handwriting examination methods as a tool for human identification. Chapter Two introduces the subject of handwriting pathology and the factors affecting the handwriting image. Meanwhile, Chapter III presents issues related to stroke, its epidemiology, types and causes. Methodological issues, including the research procedure and analysis of the study material and the selection of study groups, are discussed in Chapter IV. The next chapter of this dissertation deals with the course of the research, but it is also in this chapter that the tabular layouts with the results of the research are presented, and they are also illustrated in the review materials. Chapter VI contains the results of the research and an in-depth analysis of individual handwriting features for specific probands participating in the handwriting research.

The dissertation ends with the conclusions that on the basis of the collected research material it is not possible to create an inventory of typical handwriting features for post-stroke people, and the observed minor deviations cannot be considered representative of the entire research group.