

## **Abstract**

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The thesis is based on the implementation of the innovative communication aid Tobii Dynavox PCEYE5 (Tobii) in the intensive care unit of the Burn Medicine Clinic at the Královské Vinohrady University Hospital. It is eye tracking that can help improve communication for patients with secured airways.

The aim of the thesis was to determine the use of the device, its limitations or negative effects, and also to map the experiences and opinions of the staff. The theoretical part introduces the issue of thermal injuries, communication with patients in intensive care, and presents the Tobii device. The empirical part is processed using quantitative methods and is divided into two parts. The first part of the research analyzes the epidemiological data of hospitalized patients, focusing on patients who used the communication aid. The second part was carried out through a questionnaire survey. Its aim was to map the nurses' attitudes towards the aid, find out how many of them used the device, and based on their experiences, identify limitations of use or negative effects.

The results of the epidemiological data show that out of 48 patients, it was possible to use the device for 3 patients. Their average length of hospitalization was 58 days, of which the average use of the aid was 6 days. The survey showed a positive attitude of the staff, revealing significant limitations to the use of the communication aid.

This thesis presents one of the first investigations into the use of eye tracking in patients with thermal injury, and thus offers further research opportunities in this area or within intensive care as a whole.