

Abstract: This thesis aims is designing and practical testing of "small splints" by patients which have limited functionc of upper extremities due to damage or malfunction. The proposed "small splints" are designed to facilitate the completion of certain procedures of pADL. „Small splints“ are made from thermoplastic material, which is convinient for such purposes as regards the properties of ductility, variability and customization options. This bachelor thesis presents proposals of "small splints" for personal hygiene, specifically for a toothbrush and self - feeding, with selected objects: a glass, a cutlery knife, a fork and a spoon. The last "small splint" is intended to graphomotoric with a specific focus on stationery. The work is divided into two parts, theoretical and practical. The theoretical part is based on the analysis of scientific literature and deals with general functions of the upper limbs and causes of limited functions, splinting and assistive technology options. The practical part contains the research methodology, my target and formulation of research question. Three patients with limited function of upper limb were involved in the project. These patiens tried splints over a period of time and "small splints" were modified according to their individual needs. According to the evaluation of the patients „small splints“ are suitable for performing the above-mentioned pADL.

Key words:

splints	ADL
„small splints“	thermoplastic material
upper extremities	assistive technology.