

The diploma thesis „Vliv palce nohy na stabilitu stoje a chůze“ is focused on the function of hallux at stance and through the gait cycle and particularly to halluxes influence on stability of the stated motor stereotypes. The theoretical part summarizes the knowledge gained through literature research on anatomy and kinesiology of hallux. It also contains analysis of gait cycle and muscle coordination through it with emphasis upon activity of foot and function of hallux muscles. The practical part attempts to objectivize changes in stability and changes of loading of foot with instrumental examination. Force plate Balance Master® and GaitPlatform FDM were used for the measurements. On the force plate the parameters of movement of the centre of mass (COM, COG) and maintenance of stability while standing were compared. GaitPlatform® was used for measurement of ground reaction forces while standing and walking.