

Bachelor Thesis „Influence of exercise on spirometric data measured on-line during exercise. Detection of exercise - induced asthma and dynamic hyperinflation“ summarizes knowledge about genesis, detection and prevalence of exercise-induced asthma. It further deals with the occurrence of dynamic hyperinflation and its effect on lung mechanics. Practical part sets forward opportunity of observing an alteration in spirometric data and dynamic lung volumes during exercise and after its cessation in order to detect dynamic hyperinflation and exercise - induced asthma by showing practice examples. It shows an alternative approach to exercise bronchial challenge testing. It further discusses the difference between reaction of spirometric data of non-asthmatic subject and asthmatic subject. The conclusion of this work is that the change in spirometric data, provided by modified bronchial exercise challenge, differs between asthmatic and non-asthmatic subject.