ABSTRACT

The aim of this diploma thesis was to summarize the basic knowledge of human skin and it´s biophysical parameters. Attention was focused on influence of cosmetic products with different pH on the change of skin parameters especially. The first part describes the anatomical and histological structure of the skin, it´s basic functions and development. In the following chapters of this work is mentioned physiological representation of microorganisms found on the skin surface and general characteristics of cosmetic products. There are used in everyday skin care that affect the natural skin surface pH value. Optimum surface pH is important for the proper functioning of human skin. The final chapters of the described the characteristics of the basic biophysical parameters of the skin (hydration, TEWL, pH, sebum) and methods for their measurement.

Key words: skin, transepidermal water loss, pH, hydration, sebum, microbiome