

**ABSTRACT OF THE DISCLOSURE****TOTAL QUALITY OF HAIR PARAMETERS MEASURING METHOD**

A method of measuring hair quality in a predefined area of the scalp. The method addresses the preparation of the scalp and the process for measuring the density the size of hair shaft, the length of each hair growing out from the area. The apparatus contains several compartments: a magnifying CCD camera with known magnifying power to capture an image of hairs from the scalp, a video capture device capable of storing the images transferred from the camera, a standard computer hard ware and software capable of archiving the images and measuring the size and length of each hair shaft in the images. Specific software that can statistically analyze the data obtained from the method can be included. Adding steps with dying techniques and multiple strategic steps turn this simple method to be a novel invention with capability to measure almost every phases of hair cycle. When the whole method is used, the end result will be the statistic data of the ratio of growing hairs and non-growing hairs with the average of hair growth rates and all of other data such as the maximum and minimum growth rate, the standard error, the variance etc. The amount of hairs moving into and out of resting phase, the time spent for a hair to grow out of an empty follicle, the total time of a hair growth until it ceasing can be evidenced and collected. The information can then give the conclusion of the quality of the hairs regarding to the amount of hair density, hair shaft diameter size, the growth rate, total time of growth cycle and the approximate total length of hairs in that measured area. Comparing these data among areas or persons subjected to ready known and unknown manipulating factors through time can be possibly done with this invention. Similar applications can be used to observe the effect of many things such as food, drugs, certain activities or habits and products on the quality of hairs mentioned above to reach the conclusions or claims of either positive or negative effects on hairs. The benefit of using this method covers the use with both human and animals.