

ABSTRACT

This research describes the use of Atomic Absorption Spectrophotometry in the determination of Zinc content in human hair and compiles of the zinc content together with other characterization such age, height and sex.

From the experimental data, it is found that there is correlation between the Zinc content in human hair with age, height and sex but the differences are not significant

The experimental results have been shown in the following tables

Table 1 Experimental data shows the Zn content in male and female with age (yrs)

age (yrs)	Zinc content ($\mu\text{gZn} / \text{gm hair}$)	
	male	female
1 - 10	124.07 \pm 41.57	84.36 \pm 39.15
11 - 20	153.07 \pm 53.38	145.90 \pm 54.68
21 - 30	184.95 \pm 135.75	211.47 \pm 49.73
31 - 40	146.10 \pm 17.64	162.64 \pm 38.64
41 - 50	230.40 \pm 193.25	152.20 \pm 29.75
51 - 60	-	206.54 \pm 98.76

Table 2 Experimental data shows the Zn content in male and female with height

height (cm)	Zinc content ($\mu\text{g Zn / gm hair}$)	
	Male	Female
120	109.66 \pm 5290	58.29 \pm 25.68
121 - 140	146.46 \pm 27.92	87.36 \pm 34.11
141 - 150	191.12 \pm 167.74	129.75 \pm 44.78
151 - 160		185.24 \pm 59.73
161 - 170	168.38 \pm 77.51	209.20 \pm 28.65
171 - 180		—