

Trace Element Copper and Chromium Concentration Levels in Blood of Non-Insulin Dependent Diabetes Mellitus (NIDDM) Patients

Arpita Nandi and A.B. Das Chaudhuri

*Human Genetics Laboratory, Department of Anthropology, Calcutta University
Calcutta 700 019, West Bengal, India*

KEYWORDS Diabetes. Trace Elements. Copper. Chromium. Blood

ABSTRACT The trace element concentration levels of copper (Cu) and chromium (Cr) were determined by Atomic Absorption Spectrophotometry (AAS) in blood samples of 30 clinically diagnosed diabetic (non-insulin dependent diabetes mellitus, NIDDM) male patients and 20 non-diabetic male subjects (control). The results showed that mean values of Cu and Cr levels were elevated in diabetic patients than their controls. The analysis of variance employed revealed that Cu and Cr levels between diabetic (NIDDM) (affected group) and non-diabetic (control group) were significantly different from each other.