CHANGES IN SALIVARY AND SEMINAL ASCORBIC ACID LEVEL IN MEN OF DIFFERENT BODY MASS INDEX (BMI) RANGE GROUPS

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ABSTRACT – When ascorbic acid level in saliva and semen estimated quantitatively in 160 human subjects of age group (19-45yrs) divided into four BMI range group (19-22, 23-26, 27-30 and >30 ) symbolized as a, b, c and d respectively, a highly significant (p>0.001), decreased level in saliva and (p>0.01) increased in semen in comparison to lower BMI –range subjects were observed. All such findings might be an indication that decreased level of salivary ascorbic acid and its increased level in semen adversely affect fertility in higher BMI range group men as earlier findings of Trivedi et al (2003) reported an increased seminal ascorbic acid level in azoospermic men.

Key words : Ascorbic acid, semen, saliva, fertility, azoospermic men.