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Relationship between tumor necrosis factor-alpha (I urinary tract pathology in rural Nigerians with *Schis haematobium* infection

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Abstract: *Background:* Schistosomiasis is estimated to affect mo people especially in rural and agricultural areas. *Schistosoma haem* significant urinary tract diseases and is mediated by T cell dependen

responses to the schistosome eggs. Since tumor necrosis factor alph Th 1 responses and implicated in granulomatous responses to the obladder wall of *Schistosoma haematobium* infected persons, it is i relationship between intensity of infection and urinary tract pathology. *Methodology:* The urine samples from volunteers were subjected t investigations to ascertain the presence of *S. haematobium* ova in t profile was ascertained using standard enzyme-linked immunosorbe ultrasonographical investigation was carried out on the *S. haematol* participants using transabdominal ultrasonography.

Results: Nineteen out of 40 rural Nigerians infected with *S. haema* infection while the remaining 21 individuals had light infection. Mak severely infected than females (14). Children (30) were more infect serum TNF concentration correlated positively with the intensity of i Serum TNF was negatively correlated with the age of the volunteer. TNF concentration among subjects with heavy infection (535.7.4±4 significantly higher than that among those with light infection (93.8±4 341.0, p&It;0.05). Also the concentration of TNF in the sera of chi (448.2±140.2pg/ml) was significantly higher than that in adults (180 114.6, p&It;0.05). The ultrasonographic investigation revealed eigh pathology, namely, abnormal wall thickness (70%), irregular bladde particles (75%), calcification (60%), pseudopolyp (12.5%), masses (30%) and hydroureter (7.5%) among 28 subjects. These participar pathology had relatively high serum TNF ranging from 190.6±15.6 thickness to 630.6±15.6 pg/ml among individuals with masses.

Conclusion: The bladder and kidney pathology revealed in this invintensity of infection correlated with the levels of serum TNF among infected participants in Ihieve-Ogben, Nigeria. We observed an assolevel TNF with heavy infection and urinary tract pathology.

Key words: Schistosoma haematobium, Tumor necrosis factor, U Light infection, Heavy infection, Transabdominal ultrasonography, r

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