



## The Relationship between Vitamin D, Asthma and Total IgE in Children

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**ABSTRACT** Current researches have pointed out that vitamin D may play a role in multiple chronic illnesses, including symptoms involving the respiratory system. This study evaluated the interaction between vitamin D levels and severe asthma by proposing a clinical trial. The study population included 100 volunteer children, consisting of 50 asthmatic and 50 non-asthmatic children who were admitted to Kagithane State Hospital. The two groups were matched to each other by age. Subjects' ages ranged from six to sixteen years old with a fifty-eight percent female and forty-two percent male distribution. Serum vitamin D levels, eosinophile count, Total IgE, phosphorus, calcium in the asthmatic and non-asthmatic groups were compared. No evidence of any association of vitamin D with asthma was found.