

## 6<sup>th</sup> International Conference and Expo on **Immunology**

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### Immune response to malaria: A case study

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This paper describes the pattern of immune response to malaria in children and women, around the vicinity of garbage/refuse dump yards. As case study habitations around two refuse/garbage disposal sites in Bangalore city have been taken up for investigation. The city generates about 4500 tons of refuse-garbage per day in a combined state which is disposed of in an open landfill at designated places around the city. This generates Leachate from solid waste dump which gets washed by monsoon and pollutes the surroundings, surface water and ground water. This becomes a fountain head of unexplained health disorders. In the present investigation human immune response pattern to malaria was observed within 1 km, 2 km and 3 km radius of the dump sites. These studies have been integrated with GIS and comprehensive maps have been generated with respect to incidence of malaria in the study area, immune response patterns, specific criteria influencing the quality of living in the study area, patterns with respect to mosquito breeding and issues of contamination. The studies have been supported by data analysis and medical inputs. Based on the studies the areas have been zoned on a scale as safe, critical and endemic. These become significant for governance and issues related to administering of public health.

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### Allergic rhinitis association with rheumatic fever in India

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Rheumatic valvular disease is very common in India; even children around adolescents have significant heart problems because of rheumatic valve involvement and require surgeries. We analyzed 120 patients with rheumatic fever (Asymptomatic from patient's perspective from age of 10 to 18 years) according to Jones's criteria. Out of 120; 80 patients had allergic rhinitis (secondary throat infections-repeated episodes of pharyngitis may be streptococcal leading to rise in ASO titer causing rheumatic disease). Allergic rhinitis if managed early and completely may prevent lots of cases of rheumatic complications as still only symptomatic treatment is offered at many places.

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