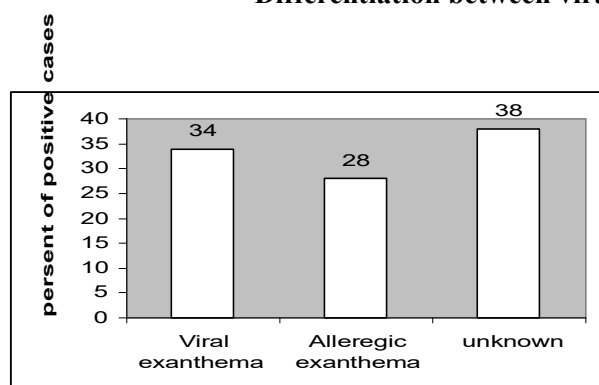




## Differentiation between viral exanthema and allergic exanthema



**Fig. 1:** Incidence of exanthema in the study population

range that can be due to factors as simultaneous occurrence of viral infections and allergies or allergy caused by the viruses (e.g. RSV). Consider resulting of this study, we can't say that using these two cytokines is effective for definite differentiating between viral and allergic exanthema and applying this hypothesis is related to careful studies and controlling all stages of the process, which includes sampling, maintaining the samples, performing the tests and analyzing the results in the future. However, clearly, using of serum cytokines is useful in differentiating viral exanthema from allergic exanthema in spite of the similar clinical picture.

### References

1. Kimura, M., A. Yamaide, S. Tsuruta, I. Okafuji and T. Yoshida; 2002; Development of the capacity of peripheral blood mononuclear cells to produce IL-4, IL-5 and IFN-gamma upon stimulation with house dust mite in children with atopic dermatitis. *Int. Arch. Allergy Immunol.* 127: 191–197.
2. Huber, A. and B. Pfaeffle; 1994; Differential Th<sub>1</sub>, Th<sub>2</sub> cell response in male and female BALB/C infected with Coxsackie virus B type 3. *J Virol.* 68:5126-5132.
3. Naisbitt, D.; 2004; Drug hypersensitivity reactions in skin: understanding mechanisms and the development of diagnostic and predictive tests. *Toxicology* 194:179–196.
4. Naisbitt, D. J., M. Britschgi, G. Wong, J. Farrell, J. P. H. Depta, D. W. Chadwick, W. J. Pichler, M. Pirmohamed, and B. K. Park; 2003; Hypersensitivity Reactions to Carbamazepine: Characterization of the Specificity, Phenotype, and Cytokine Profile of Drug-Specific T Cell Clones. *Molecular Pharmacology* 63:732-774.
5. Hayley, A. G., Y. Maldonado, L. L. Yasukawa, J. Beeler, S. Audet, M. M. Rinki, R. DeHovitz and A. M. Arvin; 1999; IL-12, IFN- $\gamma$ , and T cell proliferation to Measles in Immunized infants. *The Journal of Immunology* 162:5569-5575.
6. Smart, J., E. Horak, A. Kemp, C. Robertson and M. Tang; 2002; Polyclonal and allergen-induced cytokine responses in adults with asthma. Resolution of asthma is associated with normalization of IFN- gamma responses. *J. Allergy Clin. Immunol* 110: 450-6.
7. Smart, J. M. and A. S. Kemp; 2002; Increased Th1 and Th2 allergen-induced cytokine responses in children with atopic disease *Clin. Exp. Allergy* 32:796-802.
8. Hari, Y., A. Urwyler, M. Hurni, N. Yawalkar, C. Dahinden, T. Wendland, L. R. Braathen, L. Matter and W. J. Pichler; 1999; Distinct serum cytokine levels in Drug and measles induced exanthemas. *Int Arch Allergy immunol* 120(3) :225-229.
9. Siegrist, C. A., F. Saddallah, C. Tougne, X. Martinez, J. Kovarik and P. H. Lambert; 1998; Indication of neonatal TH1 and CTL response by live viral vaccines. A role for replication patterns within antigen presenting cell. *Vaccine* 16:1473-1478.
10. Yokota, S., T. Okabayashi, N. Yokosawa and N. Fujii; 2004; Growth arrest of epithelial cells during measles virus infection is caused by regulation of interferon regulatory factor 1. *Journal of Virology* 78(9):4591–4598.
11. Mossman, K. L., R. F. Macgregor, J. J. Rozmus, A. B. Goryachev, A. M. Edwards and J. R. Smiley; 2001; Herpes simplex virus triggers and then disarms a host antiviral response. *J. Virol* 75: 750–758.
12. Pichler, W. J., M. Zanni, S. VonGreyerz, B. Selunyder, D. Mauri-Hellweg and T. Wendland; 1997; High IL-5 Production by human drug-specific T cell clones. *Int Allergy immunol* 113:177-180.
13. Ohga, S., C. Miyazaki, K. Okada, K. Akazawa and K. Ueda; 1992; The inflammatory cytokines in measles. Correlation between serum interferon- $\gamma$  levels and lymphocyte sub populations. *Eur J Pediatr* 151:492.

14. Gale, M. J., C. M. Blakely, B. Kwieciszewski, S. Lai, M. Dossettt, N. M. Tang, Marcus, J. Korth, S. J. Polyak, D. R. Gretch and M. G. Katze; 1998; Control of PKR protein kinase by hepatitis C virus 5A nonstructural protein: molecular mechanisms of kinase regulation. *Mol. Cell. Biol.* 18:5208-5218.
15. Samuel, C. E.; 2001; Antiviral actions of interferons. *Clin. Microbiol. Rev.* 14: 778–809.
16. Doly, J., A. Civas, S. Navarro and G. Uze; 1998; Type I interferons: expression and signalization. *Cell Mol Life Sci.* 54(10):1109–1121.

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