



Iranian. J. Immunol. Volume 9, Supplement 1, April 2012

11<sup>th</sup> International Congress of Immunology & Allergy

• **Relationship between IL-6 and IL-10 Cytokines with Physical Activity in Chemical Victims: Sardasht-Iran Cohort Study**

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**Background:** Relationship between inflammatory and anti-inflammatory cytokines with physical activity well documented in healthy people. The aim of this study was to determine the relationship between IL-6 and IL-10 cytokines with physical activity in sulfur mustard (SM) exposed people. **Materials and Methods:** In a historical cohort study, Sardasht-Iran Cohort Study (SICS), 372 SM exposed participants were studied twenty years after exposure. The global physical activity questionnaire (GPAQ) was used to obtain a self reported measure of physical activity. Serum and whole blood culture supernatants samples were used for interleukin 6 and 10 respectively. Cytokines were measured by ELISA method. **Results:** The mean age of participants were 44 (SD=11) and most of them were married (91%). The result of this study showed that there was a significant relationship between mitogen induced IL-10 and severity of physical activity but there was not relationship between IL-6 and severity of physical activity. **Conclusion:** It seems that there is a need to provide suitable programs for SM exposed victims by health care system.

**Keywords:** IL-10, IL-6, physical activity, sulfur mustard