

MEETING ABSTRACT

Open Access

Environmental and occupational respiratory diseases – 1050. Determination of immunoglobulin E in asthmatic workers with respiratory infections of Al-Baiji oil refinery in Iraq

Mohemid Al-Jebouri^{1*}, Ashwaq Al-Doori²

From 2nd WAO International Scientific Conference (WISC 2012)
Hyderabad, India. 6-9 December 2012

Background

Irritant-induced occupational asthma suspected to occur within few hours of exposure to high concentration of gas, fume or vapour at work in oil refinery establishments lacking safety measures. There was a relationship between asthmatic and bacterial agents causing respiratory infections.

Methods

The quantitative estimation of immunoglobulin E in serum of the patient was based on solid phase enzyme-linked immunosorbent assay (ELISA).

Results

37% (74/200) of refinery patients and 19.5% (39/200) of nonrefinery hospitalized patients who had a total IgE level up to 100 IU/ml or more were considered as allergic. It was noticed that IgE level among refinery allergic patients ranged between 201-728 and 106-3266 IU/ml of refinery and nonrefinery hospitalized patients respectively.

Conclusions

The highest incidence of allergy was recorded among refinery patients. The present study revealed that the percentages of 80 and 42 pathogenic strains were isolated from 74 and 39 allergic patients with respiratory infections from refinery and nonrefinery hospitalized patients respectively. The high incidence of asthma and respiratory infections in the oil refinery plant could be due observed lacking of safety measures.

Author details

¹College of Medicine, Department of Microbiology, University of Tikrit, Iraq.
²Department of Biology, College of Science, University of Tikrit, Iraq.

Published: 23 April 2013

doi:10.1186/1939-4551-6-S1-P49

Cite this article as: Al-Jebouri and Al-Doori: Environmental and occupational respiratory diseases – 1050. Determination of immunoglobulin E in asthmatic workers with respiratory infections of Al-Baiji oil refinery in Iraq. *World Allergy Organization Journal* 2013 6(Suppl 1):P49.

Submit your next manuscript to BioMed Central and take full advantage of:

- Convenient online submission
- Thorough peer review
- No space constraints or color figure charges
- Immediate publication on acceptance
- Inclusion in PubMed, CAS, Scopus and Google Scholar
- Research which is freely available for redistribution

Submit your manuscript at
www.biomedcentral.com/submit



¹College of Medicine, Department of Microbiology, University of Tikrit, Iraq
Full list of author information is available at the end of the article