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**Allergens : House Dust Mite , House Dust and Fungi in  
Jeddah City  
Isolation, Classification, Extraction and Application on  
Normal  
and Atopic individuals**

**Prepared By:  
Eman Ahmed Mohammed Beyari**

**Abstract**

Allergic diseases have been increased recently, like asthma, allergic rhinitis and eczema. Skin prick test is one of the more important diagnostic test in allergic diseases, it uses a synthesized allergic extracts from different allergens ,for example, house dust mite and fungi. These extracts are used in skin prick test by putting them on the skin then making a prick, if the person is allergic to one of these extracts, swelling and redness will be appeared at the site of pricking. No one synthesize these extracts in Saudi Arabia, all hospitals importing them from foreign countries, they coast a lot of money, time and efforts.

The strains of species of allergens which extracted from foreign countries may be different from the locally species, so, may be the commercial extracts give us a different result.

In this research, 9 different allergens were isolated from Jeddah city , 2 species of house dust mite, house dust and 6 species of fungi, identified , classified and extracted them to use the extraction in the skin prick test, the same allergens species extracts were imported from Omega

company, Canada, then the skin prick test was done on 83 allergic persons and 20 control, the study contained 54 male and 49 female, the test was done in the allergic clinic in the King Abdulaziz University hospital, the Saudi test was done on one hand and the Canadian test on the other hand, then the result of the two tests were compared.

It is found that there is a significant difference between the two results and the Canadian extracts are better than the Saudi extracts, This difference may be due to : The extracts which prepared is not pure enough not like the commercial one and the other reason is that the strains of the species of allergens are not the same in different countries, so gave us different results.

For that, researchers must condense the study in this yield to get locally prepared extraction equal to imported one, so, decrease the time and effort and save money.