

Study some of Allergic Markers and food allergy in sub-fertile women

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Abstract: Background: risk factors for women's sub fertility are multiple however still many undiscovered causes might have direct or indirect role for sub fertility. Food allergy may be a cause of sub fertility and their relation still not well understood.

Objective: to assess the effect of food allergy in the female at reproductive age group and to design a map for common food allergens in AL-Najaf Province as a step to complete the map of food allergens in Iraq.

Method: A case control study conducted in fertility center at Sader- town in al Najaf Province , Iraq, from first of March 2014 to first of June 2014 Data obtained for (130) responder from age of 18 to 45 years (65 of them females whose were diagnosed to have sub fertility and 65 of them were fertile) they fulfilled well design questionnaires and allergic markers that includes (specific IgE antibodies for common food items, Anti Gliadin Antibody & AntiTissue Transglutaminase antibodies) were also pulled.

Results:In this study 16.9% (11/65) of sub fertile women had food allergy to different food items with significant p value (0.024) , OR (4.21). Peanut is on the top of items causing allergy in sub fertile group (22.7%)).In this study 3.1%(2:11)of case group had positive serum antibody for tissue trans glutaminase(TTG) and also 3.1% (2:11) of case group had same results for gliadine (AGA) and 2 cases are positive for AntiTissue Transglutaminase (ATT) and had both IgA ,IgG while 2 cases are positive for AGA ,one of them IgA and another one was IgG. All of food allergic infertile are primary infertility (45/65)=(44 unexplained +1 endometriosis).

Conclusions :food allergy had an essential effects in pathogenesis of sub fertile female with worthy proportion in unexplained infertility. Peanut were on the highest of food items that cause food allergy and a strong relationship between sub fertility and undiagnosed celiac disease.

Key words: food allergy, subfertility, immunity.