Clinical Pharmacy-2013
OMICS Group Conferences
Accelerating Scientific Discovery
International Summit on
Clinical Pharmacy & Dispensing
November 18-20, 2013 San Antonio, Texas, USA

Levothyroxine replacement in management of ovarian hyperstimulation syndrome associated with hypothyroidism in two members of a family

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Abstract

Introduction-Ovarian hyperstimulation syndrome (OHSS) is usually iatrogenic and potentially life-threatening complication of ovulation induction. It can occur rarely following hypothyroidism. We report this syndrome in two members of a family with hypothyoidism and describe the effects of levothyroxine replacement in the management of it.**Cases-** A 15 years Old girl presented with abdominal pain and distention for a few months. On examination, she had classic features of hypothyroidism. Abdominal ultrasound revealed enlarged ovaries with multilobulated ovarian cysts (Right ovary: 150×75mm, volume: 454cc; Left ovary: 130×70 mm, volume: 340cc).The second patient, a 14.5 years old girl (the cousin of the patient1) presented to the emergency unit with acute abdominal pain, nausea and vomiting after a minor trauma. she had also classic features of hypothyroidism. Abdominal ultrasound revealed enlarged ovaries with multilobulated ovarian cysts(Right ovary: 110× 65 mm, volume: 279cc; Left ovary: 118× 58 mm, volume: 285cc). Both patients,started on levothyroxine 100 µg per day regarding their thyroid function test.hypothyroid features resolved and thyroid function test became normal after 2 months. Follow-up ultrasound of the first patient, showed significantly smaller ovaries after 6week and became normal with complete resolution of cysts after 4 months. The second patient who was less compliant with her treatment also showed improvement, but in longer duration.**Conclusion-** In OHSS associated with hypothyroidism, patients could benefit from levothyroxine replacemnet not only for treatment of hypothyroidism but also for achieving normalization of ovary size with regression of cysts within a few months.

Biography

Dr.Fatemeh.Ghazanfari Amlashi obtained her medical diploma at Guilan University of Medical Sciences in 2009; she delivered a unique thesis about the role of biomarkers in diffuse axonal injury and published it in a reputed journal. After graduation, she worked for 2 years in a rural clinic to improve her practical talents. Then, she has started collaboration with Guilan Endocrinology and Metabolic Research Center and presented one of their works in ICE/ECE 2012 as a poster. She has published one article in an omicsgroup-related journal. As a young general practitioner, she would like to pursue her studies as both medical researcher and specialist, particularly in the field of internal medicine.

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