

# **CASE PRESENTATION**

•We report a five -year-old girl who presented for evaluation of **Obesity**, Abdominal distension, and Vaginal bleeding for two days.

 There was No history of local trauma or vaginal discharge associated with the vaginal bleeding and No suspicion of abuse.

## EXAMINATION

 There was No purpura or bleeding from other sites.

- Her **HtSDS** = **-1.3 SD** and
- BMI SDS = + 1.5 SD.

 Large Abdominal mass was palpable.

• There was **No** hepatomegaly, splenomegaly or lymphadenopathy.

 She had No breast development nor pubic hair

 CT of the abdomen showed Bilateral adnexal multi-locular masses. The right = 8x7.5x10.5cm and the left =  $4.5 \times 8.5 \times 7$  cm. There were no enhancing solid components identified.

•There was a diffuse mural vaginal thickening and endo-vaginal collection and bulky uterus.

# OBESITY, VAGINAL BLEEDING AND OVARIAN MASS IN A 5-YEAR-OLD FEMALE GIRL WITH AUTOIMMUNE HYPOTHYROIDISM

E. Shaymaa (1), A. Soliman (1), A. Elawwa (1) 1. Pediatric Endocrinology and Diabetology, Alexandria University, Egypt

### INVESTIGATIONS

• **High TSH** = 2288 ulU/ml • Low FT4 = 0.09 ng/dl • LH =0.11 mU/ml • **FSH** = 1.2 mIU/mI• Anti TPO = 600 U/ml • Anti-thyroglobin Ab = 296 U/ml. • L thyroxine was prescribed.

• After a month on thyroxine therapy, FT4 = 2.6 ng/dl, TSH = 2.43 mIU/ml.

 Her Ultra-sonographic evaluation showed marked **Regression** of the two adnexal lesions, right =  $5.3 \times 4.3 \times 3.1$ cm and left =  $4.4x \ 3.5x \ 2.9 \ cm$ . The uterine body measured 4.7 x 1.7 cm.

• After 2 months of therapy, **complete** regression of the masses occurred.

### CONCLUSION

 VWGS should be considered in the differential diagnosis of young girls with ovarian masses with vaginal bleeding and hypothyroidism.

 The Prognosis is good with thyroid replacement therapy.

• Durbin KL, Diaz-Montes T, Loveless MB. Van wyk and grumbach syndrome: an unusual case and review of the literature. J Pediatr Adolesc Gynecol 2011; 24(4): 93-6.

• V. Pant, S. Baral. Van Wyk Grumbach syndrome with precocious puberty and ovarian cysts: Value of thyroid function tests. Journal of Pediatric Surgery Case Reports 43 (2019) 32–34

### DISCUSSION

 Van Wyk-Grumbach Syndro (VWGS) is a constellation of symptoms including Precociou Puberty without adrenarche, Delayed bone age, Ovarian cysts, and Hypothyroidism.

 High TSH could produce FSH and Even when the diagnosis of VWGS LH like activity leading to multiple is confirmed, practitioners must be ovarian cysts. watchful to consider surgical intervention in the presence of Significant regression of the uncontrolled vaginal bleeding, ovarian masses occurred as early hemodynamic instability, or failure of as one month after replacing thyroid regression of ovarian cysts with hormone and normalization of TSH exogenous thyroid hormone in this girl with VWGS. replacement.

### REFERENCES

shaymaa.elsayed@alexmed.edu.eg

dr.shaymaa \_elsayed@yahoo.com



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US
vsts.

 The etiology of her hypothyroid status was autoimmune. Given the presence of significant ovarian masses, a surgical emergency such as ovarian torsion or rupture must be ruled out.

### **CONTACT INFORMATION**

### Shaymaa Elsayed Abdel Meguid

Assistant Professor of Pediatric Endocrinology and Diabetology

Alexandria University, Egypt

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