

Case 1

Patient profile: A 37-year-old married female, live in Bangkok, an office worker

CC: Fetal tachycardia detected by US findings

Underlying disease:

- 14 years ago in 2006: the patient presented with clinical symptoms of palpitation and diffuse thyroid gland enlargement without exophthalmos or pretibial myxedema. Graves' disease was diagnosed. After continuing anti-thyroid drugs for 2 years, I-131 ablation was given in 2007 and 2008 due to failure of treatment. Finally, she developed hypothyroidism receiving LT4 supplement.
- 7 years later, she developed moderately severe thyroid orbitopathy and dermopathy. She underwent ophthalmic surgery in 2012
- 1 year PTA, she has visited endocrine clinic at Ramathibodi hospital. Exophthalmos, and pretibial myxedema were detected since first visit in Rama Hosp with adequate replacement of LT4.

Present illness:

- 3 months PTA, her urine pregnancy test was positive. She came to ANC clinic at her GA 7⁺³ wk and LT4 dose was increased.
- At her second trimester (GA 19⁺⁶ wk), on usual OB visit, persistent fetal tachycardia rate of 180-200 bpm was detected by fetal US. The patient had no symptoms suggestive of thyroid dysfunction and she gains weight of 4.2 kg. She denied palpitation, dyspnea, sweating or heat intolerance with stable exophthalmos and pretibial myxedema.

Personal History:

She got married 8 years ago with difficult fertility. No history of herbal use or drug abuse

Family History:

No family history of thyroid disease

Current Medications

1. Levothyroxine 950 mcg/week
2. Obimin AZ 1 tab po hs
3. Folic 5 mg/day
4. CaCO₃ 1250 mg/day

Physical Examination

Vital signs: T 37.2 C, BP 128/86 mmHg, PR 102 bpm, RR 20 /min

GA: a Thai pregnant woman, alert, no dyspnea

HEENT: no pale conjunctivae, anicteric sclerae, exophthalmos both eyes with lid retraction, no lid lag, no conjunctival chemosis, no periorbital swelling/erythema, thyroid gland not enlarged, no thyroid bruit

CVS: normal s1, s2, no murmur

RS: equal breath sound, no adventitious sound

Abdomen: HOF at umbilicus level, positive fetal movement

Extremities: non-pitting edema both legs with Peau d'orange skin change, no onycholysis, no clubbing of finger

Neurologic: alert, well co-operative, pupils 3 mm RTLBE

Motor power grade V all extremities

Investigation

fT4 0.92 ng/dL (0.7-1.48)

TT4 12.4 mcg/dL (4.87-11.72)

TSH 0.46 uIU/mL (0.35-4.94)