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Clinical Image Open Access

Asymptomatic Female with Multiple Tumours and Hormonal Levels 10 Times above the Normal Limits

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Clinical Image

32-year old female has a negative personal and family medical history but recently a cousin of hers has been identified as caring a mutation at c1900T>G, p.C634G (TGC634CGC; Cys634Gly, Exon 11) RET gene. The patient was tested and found positive, too. The elements of type II multiple endocrine neoplasia (MEN) have been identified even she was completely asymptomatic: bilateral adrenal tumors that were confirmed as benign pheocromocytomas after bilateral laparoscopic adrenalectomy (Table 1 and Figure 1), and medullar thyroid cancer suggested by extremely high calcitonin levels and confirmed after total thyroidectomy and lymph neck resection (Table 1). The two procedures were performed within one month with a good recovery. The patient started lifelong thyroid and adrenal substitution and the calcitonin as well as catecolamines became normal after surgical procedures. The silent phenotype in MEN II syndrome may underlie multiple aggressive tumors as bilateral pheocromocytoma and C-cell thyroid cancer but the diagnosis is delayed if the genetic background is unknown.

Hormone	Values	Units	Normal levels
24-h urinary metanephrines	3329	Micrograms /24 hours	50 - 350
24-h urinary normetanephrines	6956	µg/24-h	100 - 600
serum calcitonin	264	Picograms /milliliter (pg/mL)	1 - 4.8

Table 1: Hormonal panel in a 32-year completely asymptomatic female.

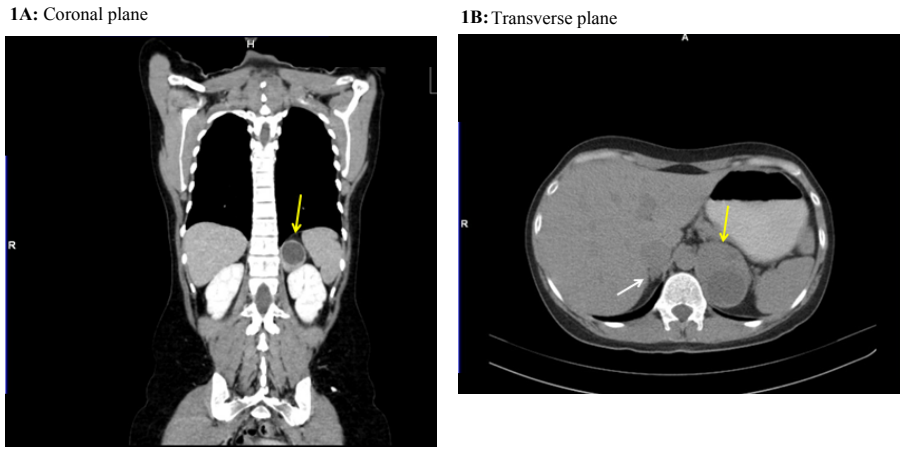

Figure 1: Abdominal (contrast) computed tomography: right tumor of <1 centimeter (cm) (white arrow) and left adrenal tumor of 2.3 by 2.9 cm with necrosis (yellow arrow).

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