

## CLINICAL CASE OF GIANT PHEOCHROMOCYTOMA WITH LOW HORMONAL **ACTIVITY**

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# Background

Pheochromocytoma (Ph) is the tumor that is fatal if do not suspect and treat it on time. It is supposed that size of tumor is correlated with its synthetic activity.

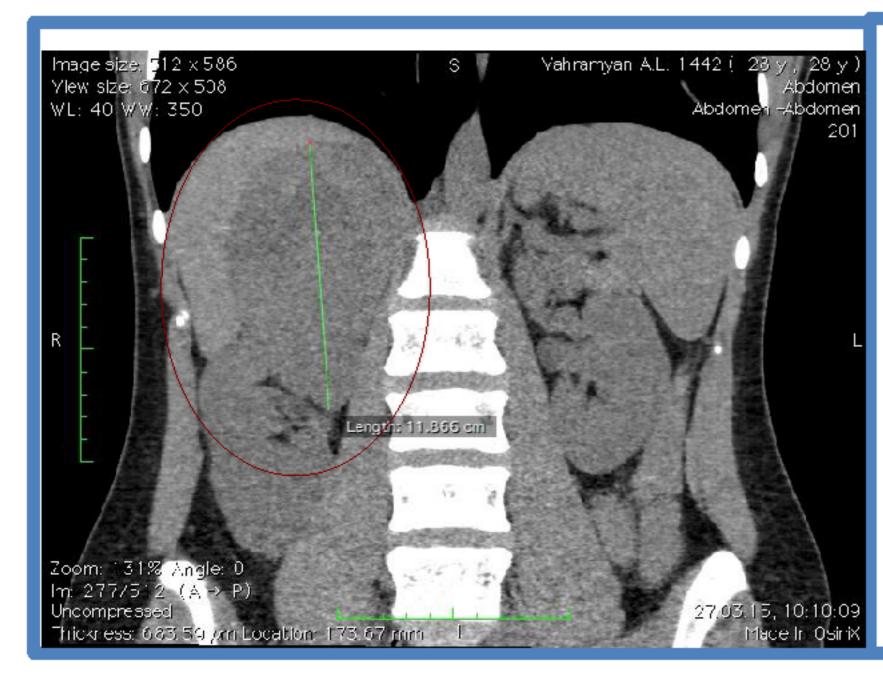
# Clinical case

Young woman, 28 y.o., presented with the

adrenal incidentaloma. She had no complaints, her history was not notable for any disease.

## **Examination.** Step 1 - Visual examination - (in order to determine nature of incidentaloma)

**Adrenal CT** 



«.. right adrenal heterogeneous mass 9x8x7,6cm with native density – 30-69HU, which eclipsed liver and was inseparable from the inferior vena cava.»

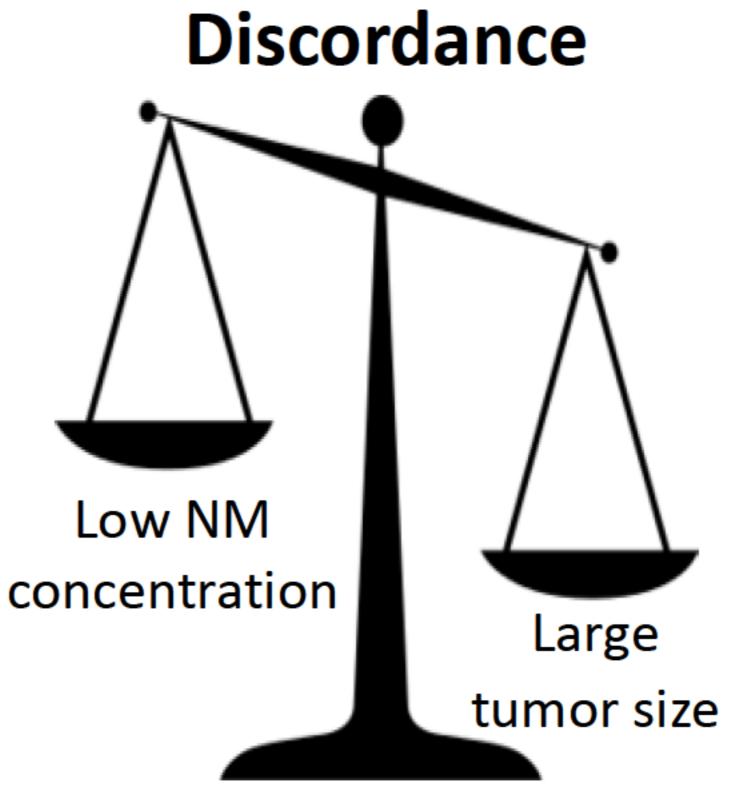
Facts saying in favor of adrenocortical cancer:

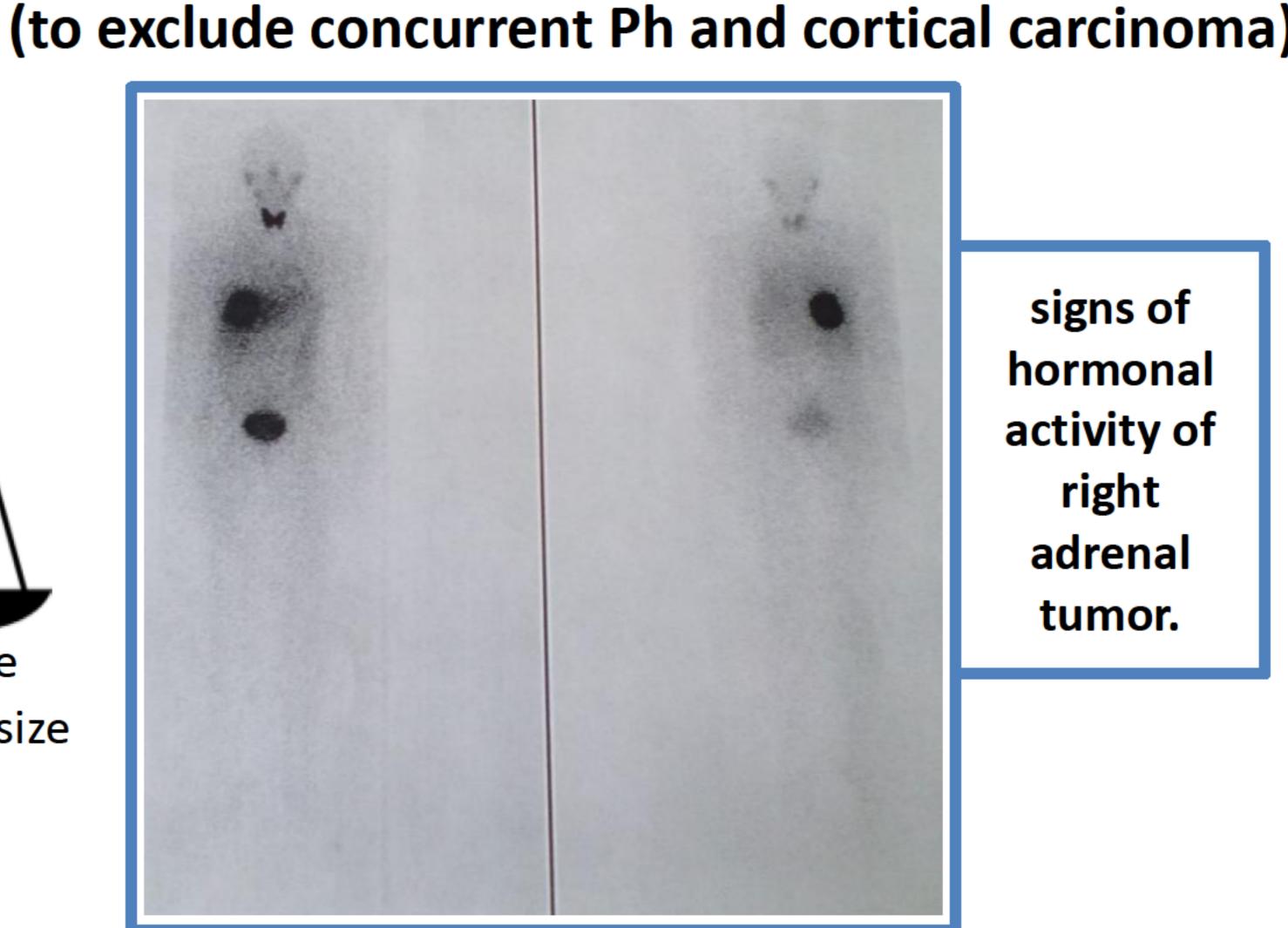
- young age
- lesion size
- parameters of native density

Examination. Step 3 - MIBG-scintigraphy

#### Examination. according to current protocols

Parameter	Value	Reference range
plasma cortisol after 1- mg DST	45 nmol/l	∢ 50 nmol/l
urinary fractionated metanephrines (M)	248 mcg/24- hour	< 320 mcg/24- hour
urinary fractionated normetanephrines (NM)	2453,0 mcg/24-hour	< 390 mcg/24- hour





signs of hormonal activity of right adrenal tumor.

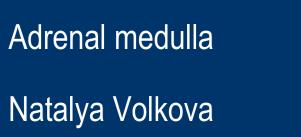
### Definitive diagnosis: Pheochromocytoma of right adrenal gland

She was preoperativelly given alpha-blocker for 14 days. Right laparoscopic adrenalectomy was performed without any complications. Histologic picture proved that there was pheochromocytoma.

# Conclusions

The size of Ph doesn't always correlate with its hormonal activity. At the same time, strict adherence to protocols is necessary in all cases despite the fact that sometimes we can see "obvious" signs of the other disease such as adrenocortical cancer in the above case.











urinary fractionated M 203 mcg/24hour

urinary fractionated NM

mcg/24hour

154