

Unusual size presents with unusual presentation.

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pheochromocytomas larger than 10 cm in the literature (descending order)

Sex/age	Country	Size/weight	Presentation
F/54	USA	45 × 25 cm/2100g	Asymptomatic
M/46	Brazil	30 cm	Abdominal pain
M/48	Japan	21 × 13 × 21 cm/3900 g	Asymptomatic
M/55	Hungary	20 cm	Asymptomatic
F/77	Canada	19 × 18 × 12 cm/2460 g	Dyspnea
M/46	USA	18 × 14 × 13 cm/1450 g	Episodic hypertension and headache
M/55	India	17 × 12 cm/850 g	Asymptomatic
M/53	USA	17 cm/1150 g	Mild hypertension
F/43	Brazil	16 cm	Abdominal pain ^Y
F/26	India	16 × 11 cm	Asymptomatic
F/49	USA	15 × 12 × 12 cm	Asymptomatic
F/81	Italy	13 cm	Hypertension, palpitation, diaphoresis
M/56	China	11.1 × 10.4 × 12.7 cm	Progressive weight loss & nausea
M/70	Greece	12 × 8 × 10 cm	Asymptomatic
M/12	Former USSR/Ukraine	12 × 10 × 9 cm/1100 g	Hemihypertrophy ^X
M/63	China	11 × 6.6 × 11 cm	Asymptomatic
F/26	USA	11 × 10 × 9 cm	Dyspnea, paresthesia, chest pain, palpitation
F/27	Canada	10.5 × 10.6 cm	Headaches, episodic palpitations, pallor
F/39	USA	10.5 cm/782 g	Abdominal pain
M/53	Iran	3150 g	Abdominal pain

Introduction: Pheochromocytoma is a rare tumor originating from the embryonic neural crest and secreting high levels of catecholamines. The average pheochromocytoma size is 7 cm in the previous publications (1). Sometimes these tumors may be bigger. In this abstract, a case of pheochromocytoma with a huge size presented with unusual presentation.

Case study: 56 year-lady presented with incidental huge right suprarenal mass 14.5 cm in CT Abdomen after an investigation for recurrent abdominal pain. she has no symptoms of a headache, palpitations, sweating, tremors, dyspnea, anxiety or other symptoms related to pheochromocytoma. Her urine metanephrines showed persistently elevated normetanephrine of 9.5 and 9.73 umol/24hrs urine (normal is less than 3 umol/24 hrs urine collection). All her other baseline blood results are normal including other hormonal profile, bone profile and glucose. After the biochemical diagnosis of pheochromocytoma, the patient was referred to a tertiary centre where all the other workup will be done. After review of online English literature and as far as we know, this case is the twelfth largest pheochromocytoma reported in the English literature (2).

Summary and conclusion:

Most giant pheochromocytomas do not present with classic symptoms. Pheochromocytoma may reach huge sizes without causing any symptoms (1). No clear correlation between the size of a tumour and the catecholamines level.

References:

1. Giant multicystic malignant pheochromocytoma. Turk J Surg. 2017; 33(4): 296–298. Erdal Uysal, 1 Turkey Kırdak, 2 Ahmet Orhan Güner, 1 and Mehmet Ali İkidag̃3.
2. Largest pheochromocytoma reported in Canada: A case study and literature review. Can Urol Assoc J. 2014 May-Jun; 8(5-6): E374–E377. Druvtej Ambati,* Kunal Jana, MD, FRCSC,† and Trustin Domes, MD, MEd, FRCSC†