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Pitfalls in the management of indeterminate adrenal masses.
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Objectives
A few adrenal masses may elude characterization on cross-sectional imaging and remain indeterminate. These include lipid-poor adenomas, adrenal metastases and carcinomas and phaeocromocytomas. It is important to distinguish between them, as phaeocromocytomas can be fatal, if operated without preoperative blockade.

Methods
Case report: A 63-years old woman presented with an incidentaloma of the right adrenal gland on an abdominal computed tomography scan performed because of chronic back and right subchondral pain. She reported mild, non paroxysmic hypertension well controlled with a combined angiotensin-II receptor blocker/thiazide diuretic. She had a cholecystectomy and bilateral hip arthroplasty 5 and 2 years ago.

Results
Her physical examination was unremarkable. Endocrine work-up with 1 mg overnight dexamethasone test, aldosterone/renin ratio and urinary fractionated metanephrines and normetanephrines was normal.

Conclusions
Due to indeterminate nature surgery was decided. A laparoscopic approach was made and intraoperatively the patient developed acute hypertensive crisis successfully controlled with nitroprusside. Histopathology confirmed the diagnosis of a phaeocromocytoma with Pass score 6.

This is a clinically and biochemically silent phaeocromocytoma which provoked an adrenergic spell during surgery. Malignant lesions and phaeocromocytomas may share common characteristics as intense enhancement and slower contrast washout. Suspicious radiologic findings should increase the medical alertness for the possibility of a catecholamine secreting tumour. Minimal handling of the tumour and perioperative vigilance to combat potential hypertensive crisis are the cornerstones in managing such cases.

References