Hypertensive crisis and incidental phaeochromocytoma during routine day case surgery

Pre-op	Post-
A 65-year-old ASA 1 male presented for	In rec
elective inguinal hernia surgery. He had	pain,
an uncomplicated GA for surgery 3 years	86-11
previously. Pre-operative bloods and	signif
ECG were normal, BP was 130/90	titrate
mmHg and HR 82 bpm.	and H
	with j
Intra-op	
Induction of general anaesthesia was	At an
uneventful with fentanyl 100mcg,	eleva
propofol 240mg and LMA insertion.	appea
Multimodal analgesia and anti-emesis	no isc
included:	Tropo
• paracetamol 1g,	
• diclofenac 75mg,	An ur
• ketamine 25mg,	identi
• dexamethasone 6.6mg and	lesior
• ondansetron 4mg.	embo
	hyper
Shortly after KTS, BP rose to 235/113	was c
mmHg; additional fentanyl and propofol	adren
were administered and end tidal	once
sevoflurane kept ≥ 2.2 . BP improved to	succe
150/92 mmHg and HR maintained	
76-80 bpm throughout.	Cons
Surgery was uneventful.	publi

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-op

covery, despite minimal post-surgical BP rose to 190/112 mmHg and HR 16 bpm. Our patient complained of a ficant headache. Labetalol 20mg i.v. was ed and BP improved to 154/88 mmHg HR to 98 bpm. He returned to the ward pending medical review for hypertension.

naesthetic post-op review BP was again ated, his headache had returned and he ared grey and sweaty. An ECG showed chaemia. Bloods showed a raised onin I of 3578 and lactate of 6mmol/L.

rgent CT (querying aortic dissection) tified a haemorrhagic 6.1cm right adrenal n. Adrenal angiogram was performed but olization was not required. His acute ertension was managed in HDU where he commenced on oral doxazosin for alphanoceptor blockade. He was discharged recovered from a LRTI and underwent a essful adrenalectomy a few months later.

sent: Written patient consent for lication was obtained by the authors

Discussion

Phaeochromocytomas are rare, and a first presentation as above is extremely rare. A 'phaeo crisis' should be considered where hypertension is resistant to treatment and where tachycardia, headache and autonomic symptoms exist.

Hypertensive crisis may be the initial manifestation, potentially triggered by stressors including general anaesthesia, surgery and glucocorticoids¹.

Expedient supportive management is essential as mortality is high if cardiac failure occurs¹. This includes invasive BP monitoring, alpha-blockade, vasodilatation and adequate fluid administration.

Reference

1. Rosas AL, Kasperlik-Zaluska AA, Papierska L et al. Pheochromocytoma crisis induced by glucocorticoids: a report of four cases and review of the literature. Eur J Endocrinol. 2008 Mar; 158 (3): 423-9.