

# Dissecting a Diagnostic Enigma: Hypertension in a Young Patient from an Organ of Zuckerkandl Paraganglioma

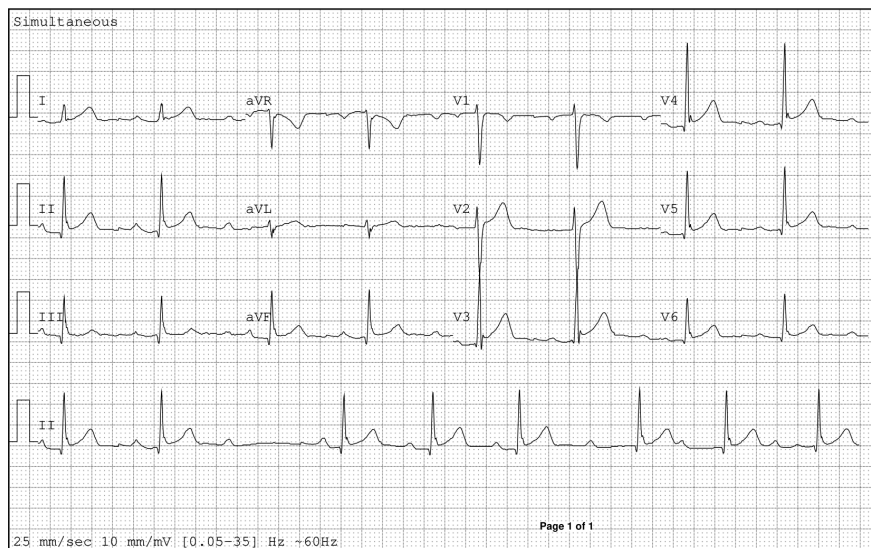
Reabal Najjar<sup>1</sup>, Elizabeth Paver<sup>1</sup>, Jonathan McGuane<sup>1</sup>, and Gert Frahm-Jensen<sup>1</sup>

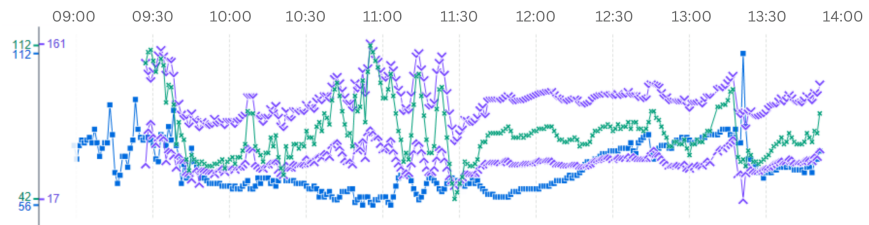
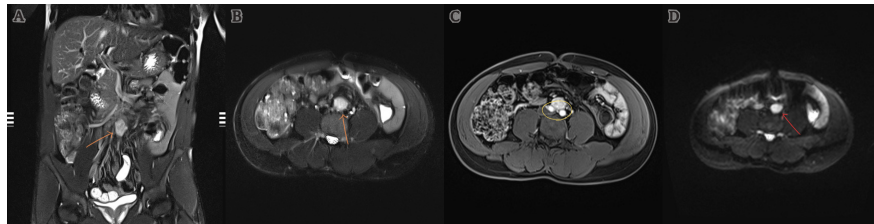
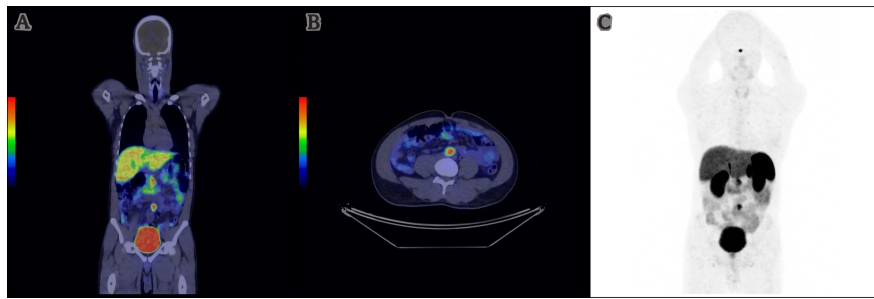
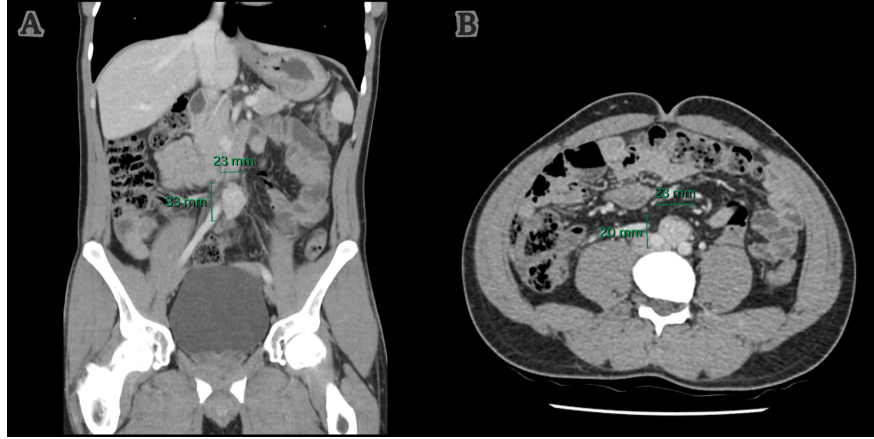
<sup>1</sup>Canberra Hospital

August 23, 2023

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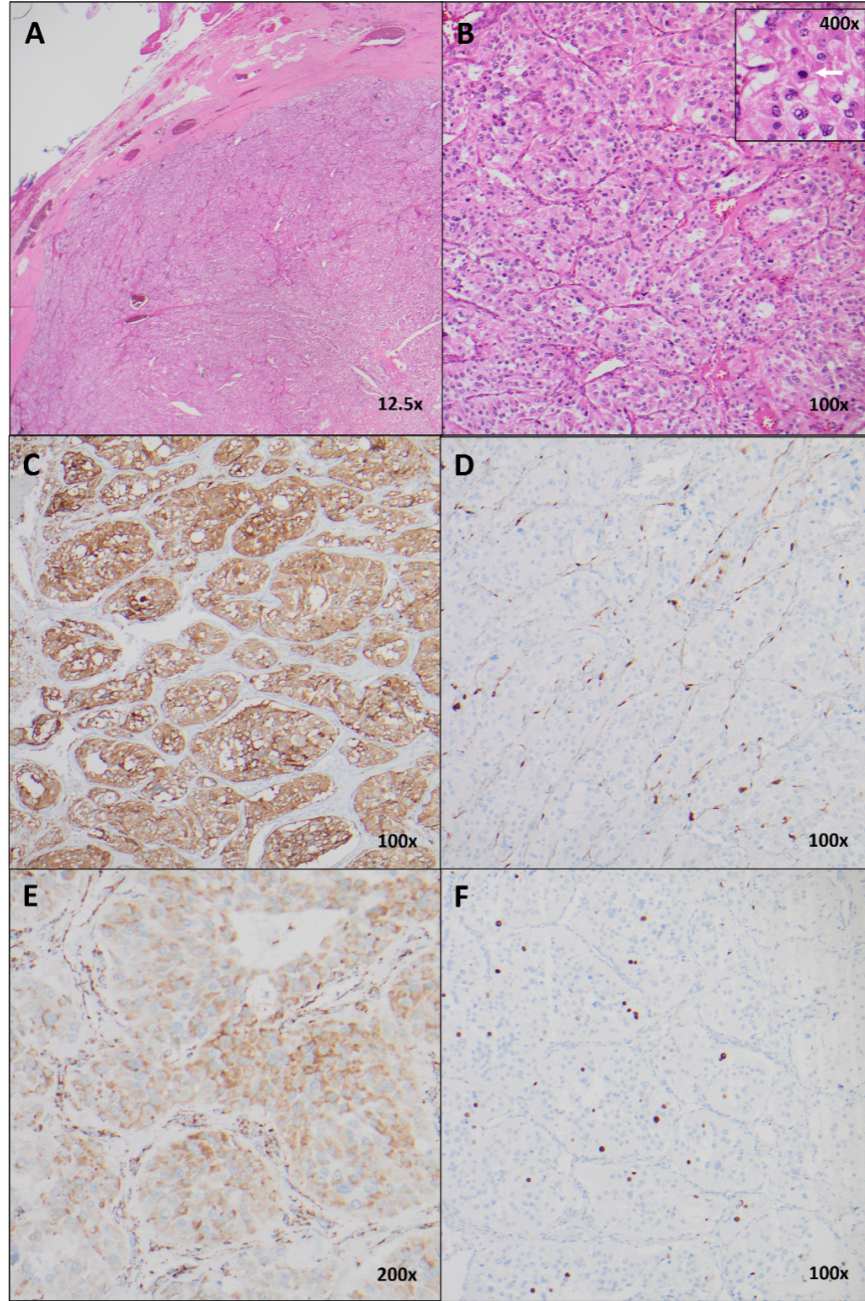
Manuscript.docx available at <https://authorea.com/users/655578/articles/661309-dissecting-a-diagnostic-enigma-hypertension-in-a-young-patient-from-an-organ-of-zuckerkandl-paraganglioma>



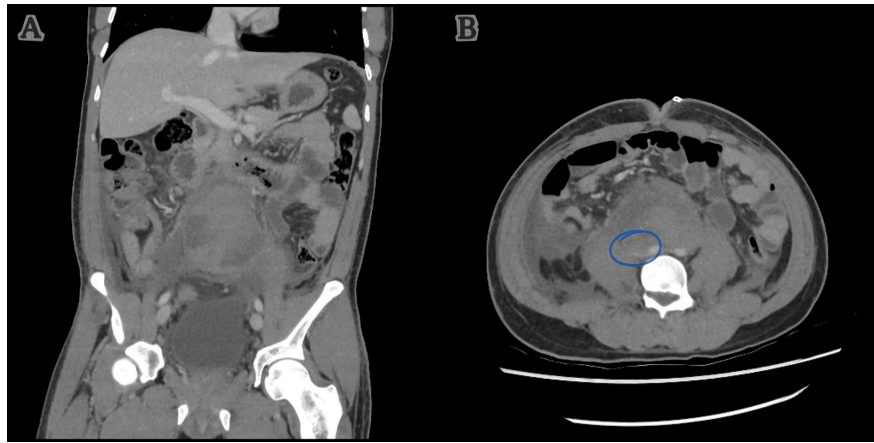
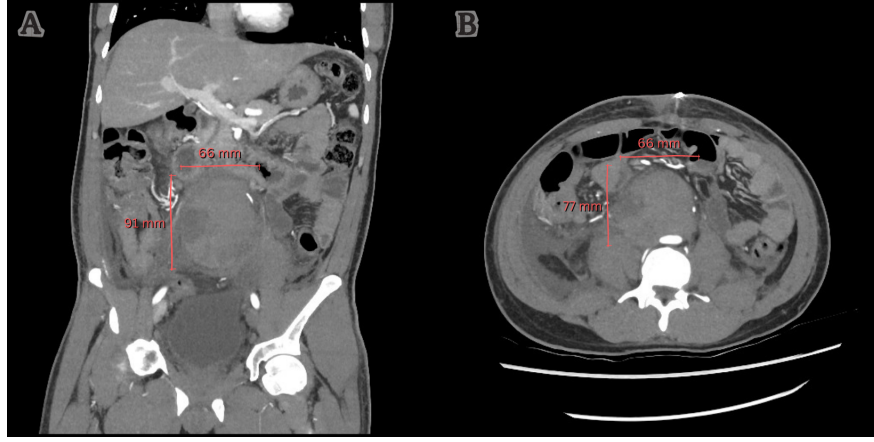


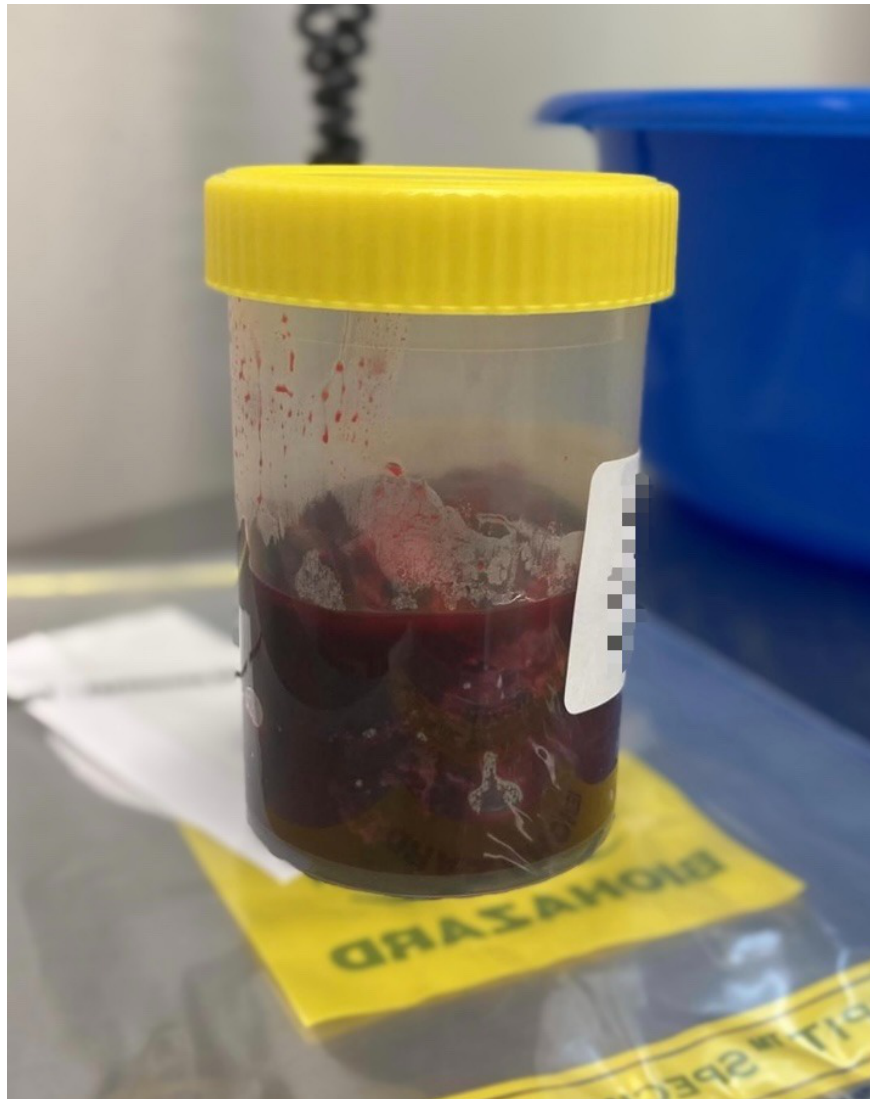












Parameter	Result	Reference Range
Normetanephrine	4550 ↑	<610 pmol/L
Metanephrine	330	<447 pmol/L
3-Methoxytyramine	80	<181 pmol/L
Creatinine	65	60 - 110 umol/L
eGFR	>90	>90 mL/min/1.73 m <sup>2</sup>
Aldosterone	269	100 - 950 pmol/L
Renin	20	3.3 - 41 mU/L
Aldosterone/Renin ratio	13	<70
Cortisol (fasting)	271	100 - 535 nmol/L
TSH	3.4	0.40 - 3.5 mIU/L

Parameter	Day 1	Day 2	Day 3	Day 5 <sup>†</sup>	Day 6	Reference Range
Haemoglobin	140	144	134 ↓	110 ↓	102 ↓	135 - 189 g/L
Haematocrit	0.41	0.42	0.38 ↓	0.32 ↓	0.30 ↓	0.40 - 0.53 L/L
WBC	15.1 ↑	11.4 ↑	9.2	11.9 ↑	11.5 ↑	4.0 - 11.0 x 10 <sup>9</sup> /L
Neutrophils	13.14 ↑	8.21 ↑	6.07	9.28 ↑	8.51 ↑	1.80 - 7.50 x 10 <sup>9</sup> /L
CRP	37.1 ↑	-	87.9 ↑	150.0 ↑	237.9 ↑	<6.0 mg/L
Urea	3.4	3.6	2.9 ↓	2.9 ↓	3.4	3.4 - 9.0 mmol/L
Creatinine	62	65	57 ↓	58 ↓	63	60 - 110 umol/L
eGFR	>90	>90	>90	>90	>90	≥90 mL/min/1.73 m <sup>2</sup>
Sodium	136	141	139	137	137	135 - 145 mmol/L
Potassium	4.2	4.0	4.0	4.0	3.8	3.5 - 5.2 mmol/L
Corrected Calcium	2.18	2.19	-	2.26	2.26	2.10 - 2.60 mmol/L
Magnesium	0.91	0.75	-	0.74	0.74	0.70 - 1.10 mmol/L
Phosphate	1.46	0.97	-	1.24	0.99	0.75 - 1.50 mmol/L

Parameter	Day 1	Day 2	Day 3	Day 4	Day 5	Reference Range
Haemoglobin	99 ↓	98 ↓	105 ↓	103 ↓	115 ↓	135 - 189 g/L
Haematocrit	0.29 ↓	0.29 ↓	0.30 ↓	0.29 ↓	0.33 ↓	0.40 - 0.53 L/L
WBC	11.0	9.6	10.7	10.2	11.8 ↑	4.0 - 11.0 x 10 <sup>9</sup> /L
Neutrophils	8.25 ↑	6.53	7.92 ↑	7.34	8.26 ↑	1.80 - 7.50 x 10 <sup>9</sup> /L
CRP	263.7 ↑	309.3 ↑	257.1 ↑	174.4 ↑	122.4 ↑	<6.0 mg/L
Urea	3.7	2.2 ↓	2.9 ↓	2.1 ↓	2.3 ↓	3.4 - 9.0 mmol/L
Creatinine	47 ↓	52 ↓	53 ↓	53 ↓	59 ↓	60 - 110 umol/L
eGFR	>90	>90	>90	>90	>90	≥90 mL/min/1.73 m <sup>2</sup>
Sodium	137	137	137	136	137	135 - 145 mmol/L
Potassium	4.2	3.9	3.8	3.9	4.8	3.5 - 5.2 mmol/L
Corrected Calcium	2.25	2.25	2.24	2.27	2.30	2.10 - 2.60 mmol/L
Magnesium	0.67 ↓	0.65 ↓	0.70	0.70	0.80	0.70 - 1.10 mmol/L
Phosphate	1.05	0.94	0.80	0.91	1.12	0.75 - 1.50 mmol/L

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Table 1.docx available at <https://authorea.com/users/655578/articles/661309-dissecting-a-diagnostic-enigma-hypertension-in-a-young-patient-from-an-organ-of-zuckerkindl-paraganglioma>

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Table 2.docx available at <https://authorea.com/users/655578/articles/661309-dissecting-a-diagnostic-enigma-hypertension-in-a-young-patient-from-an-organ-of-zuckerkindl-paraganglioma>

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Table 3.docx available at <https://authorea.com/users/655578/articles/661309-dissecting-a-diagnostic-enigma-hypertension-in-a-young-patient-from-an-organ-of-zuckerkindl-paraganglioma>