

Online Resource 5 Main laboratory findings before and after pancreas and left adrenal surgical resection. Bold values are outside local laboratory normal ranges. **a** pre-operation **b** post-operation **c** last follow-up

Article title: A novel likely pathogenetic variant p.(Cys235Arg) of the *MEN1* gene in multiple endocrine neoplasia type 1 with multifocal glucagonomas

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		A. Pre-operation	B. Post-operation	C. Last follow-up	Local laboratory NR
Blood tests	WBC	6.38	8.28	10.07	4.50-11.00 x10 ⁹ /L
	RBC	4.79	4.53	4.56	3.80-5.20 x10 ¹² /L
	Hb	131	14.4	14.1	117-157 g/L
	PLT	265	433	418	150-450 x10 ⁹ /L
Liver function	AST	32	167	76	0-40 U/L
	ALT	91	112	70	0-40 U/L
	ALP	380	347	220	70-290 U/L
	Albumin	45	41	41	34-48 g/L
Renal function and Na/K	Cr	41.4	35.2	42.4	52.8-96.8 µmol/L
	eGFR	129	136	127	>90 mL/min/1.73m ²
	UA	279.6	267.7	339.0	154.6-356.9 µmol/L
	Na	133	139	138	134-146 mmol/L
Glucose metabolism	K	3.4	4.5	4.5	3.5-5.5 mmol/L
	FPG	14.3	8.3	10.5	3.9-5.6 mmol/L
	HbA1c	76.0	107.0	75.0	22.4-44.3 mmol/mol
	C-peptide	1.45	/	/	0.26-1.39 nmol/L
Bone metabolism	Glucagon	252	/	/	25-250 ng/L
	Ca, total	2.59	2.74	2.57	2.15-2.50 mmol/L
	Ca, ionized	1.21	1.39	1.21	1.15-1.35 mmol/L
	P	0.58	1.03	1.07	0.87-1.45 mmol/L
	PTH	139.0	85.6	75.0	6.5-39.0 pg/mL
	25-hydroxy vitamin D	9.7	7.2	16.6	30.0-100.0 ng/mL
	BALP	/	65.1	/	3.0-19.0 µg/L
	Calcitonin	/	<1.0	/	1.0-14.0 pg/mL
Sex hormones	FSH	5.3	3.6	/	1.5-33.4 mIU/mL
	LH	9.80	1.60	/	1.9-77.0 mIU/mL
	PRL	170.1	544.8	/	59.4-619.0 mIU/L
	PRG	/	<0.15	/	0.15-28.3 ng/mL
	17 β-Estradiol	/	29.0	/	18.9-256 pg/mL
	Testosterone	0.278	/	/	0.126-0.590 ng/mL
	DHEA-S	0.169	/	/	0.587-2.270 µg/mL
	Urinary cortisol	2.9	/	/	3.5-45.0 µg/24h
Cortisol	Urinary cortisone	10.7	/	/	17-129 µg/24h
	8 a.m. cortisol	/	31	/	a.m. 45-240 µg/L
	Cortisol during ACTH stimulation test at 0/30/60 minutes	/	51/176/220	/	basal a.m. 45-240 µg/L
Catecholamines (urinary)	Noradrenaline	19.7	/	/	15.0-86.0 µg/24h
	Adrenaline	5.4	/	/	2.0-25.0 µg/24h
	Dopamine	207.4	/	/	250.0-500.0 µg/24h
Metanephrines (urinary)	Normetanephrine	176.8	/	/	105.0-354.0 µg/24h
	Metanephrine	198.9	/	/	74.0-297.0 µg/24h
	3-methoxytyramine	122.4	/	/	55-247 µg/24h
Other hormones	NSE	8.39	/	10.10	0.00-12.50 ng/mL
	Chromogranin	34.7	24.2	65.9	0.0-108.0 ng/mL
	Gastrin	49.0	/	/	13.0-115.0 pg/mL
	IGF-1	/	178.7	/	107.8-246.7 ng/mL
	TSH	1.054	1.406	/	0.450-3.500 mIU/mL

ACTH, adrenocorticotrophic hormone; ALP, total alkaline phosphatase; ALT, alanine transaminase; AST, aspartate transaminase; BALP, bone-specific alkaline phosphatase; Ca, calcium; Cr, creatinine; DHEA-S, dehydroepiandrosterone sulfate; eGFR, estimated glomerular filtration rate; FPG, fasting plasma glucose; FSH, follicular stimulating hormone; Hb, hemoglobin; HbA1c, hemoglobin A1c; IGF-1, insulin-like growth factor 1; K, potassium; LH, luteinizing hormone; Na, sodium; NR, normal range; NSE, neuron-specific enolase; P, phosphorus; PLT, platelets; PRL, prolactin; PRG,

progesterone; PTH, parathyroid hormone; RBC, red blood cells; TSH, thyroid stimulating hormone; UA, uric acid; WBC, white blood cell; /, not tested.