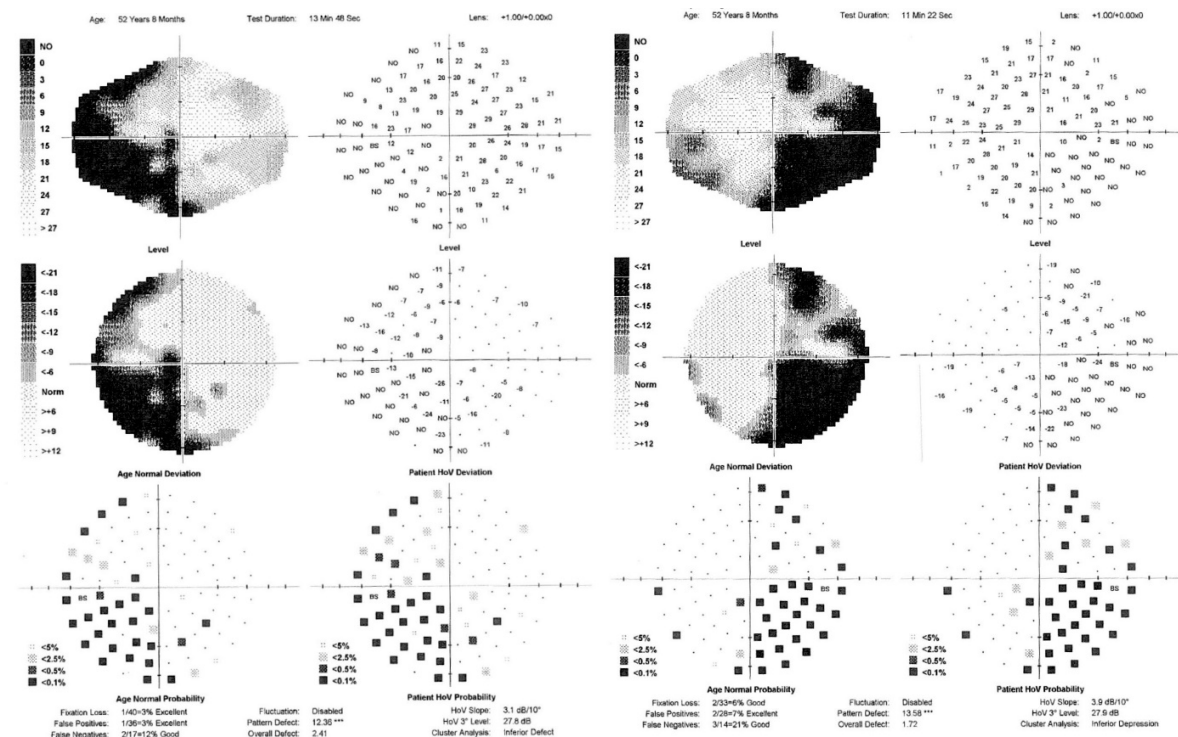
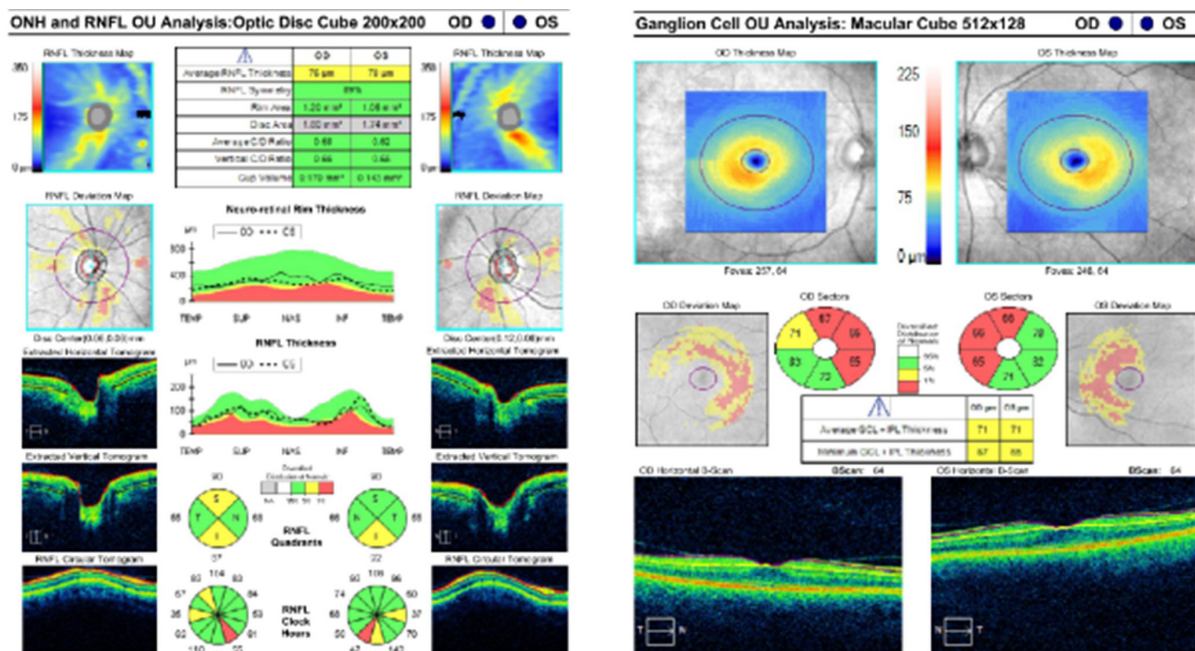


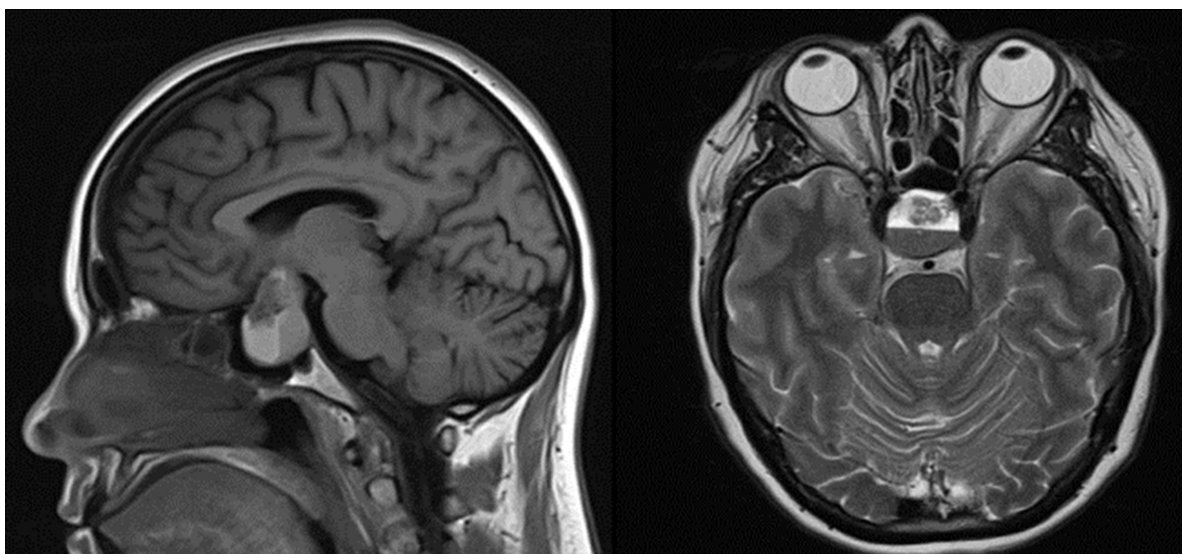
**Figure 1:** Results of Medmont Central Fast Threshold visual field testing by referring optometrist demonstrating dense bi-temporal inferior quadrantanopia, as well as early bitemporal superior field loss. Results were highly suggestive of optic chiasmal pathology.



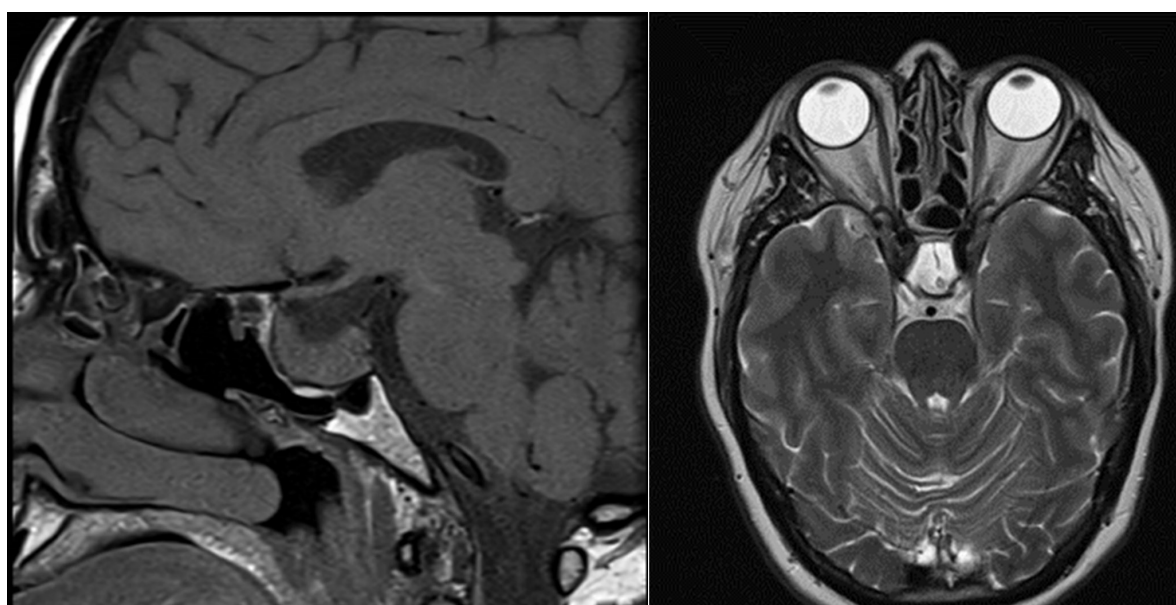
**Figure 2:** Pre-operative optical coherence tomography (OCT) scans of the retinal nerve fibre layer (RNFL) and ganglion cell layer (GCL), showing subtle generalised bilateral RNFL thinning as well as moderate bi-nasal GCL thinning particularly in the left eye.



**Figure 3:** Pre-operative T1 TSE FLAIR Sagittal MRI (left) and T2 TSE Transverse MRI (right) demonstrating a heterogeneous pituitary mass with non-dependent fluid in the anterior mid-portion, consistent with a haemorrhagic pituitary macroadenoma (pituitary apoplexy). Optic chiasmal elevation was present with no cavernous sinus extension.



**Figure 4:** Post-operative T1 TSE Sagittal MRI (left) and T2 TSE Transverse MRI (right), demonstrating small residual pituitary tumour tissue with unchanged widening of the sella and erosion of the dorsum sellae. No elevation of the optic chiasm is seen.



**Table 1:** Summary of hormone, electrolyte and renal blood results for our case. Hyperprolactinaemia, hypothyroidism and hypocortisolism resolved post-operatively, while mild hypogonadotropism persisted.

	Immediate pre-operative	1 month post-operative	6 weeks post-operative	4 months post-operative	Reference range
Cortisol (0900)	133 (L)	355*	358**		150–550nmol/L
ACTH (Plasma)	5.0	3.4			1.0–12.0pmol/L
TSH	1.36	1.28		2.06	0.27–4.2mU/L
Free T4	6.0 (L)	14.4		12.5	12.0–22.0pmol/L
Free T3	3.6 (L)	4.7			4.0–6.8pmol/L
hGH	0.12	0.12			<6ug/L
IGF-1	58	80			51–190ug/L
Prolactin	566 (H)	211			100–500mU/L
FSH	3.0 (L)	4.1 (L)			26–134U/L
LH	0.6 (L)	1.9 (L)			>20U/L
Oestradiol		<18 (L)			<180pmol/L
HbA1c		40			<41mmol/mol
Creatinine	77	67			45–90umol/L
Sodium	138	141		136	135–145mmol/L
Potassium	4.3	4.4		4.3	3.5–5.2mmol/L
Calcium (adjusted)	2.46	2.45			2.10–2.55mmol/L
Phosphate	1.08	1.16			0.8–1.5mmol/L

ACTH – adrenocorticotrophic hormone; TSH – thyroid stimulating hormone; hGH – human growth hormone; IGF-1 – insulin-like growth factor-1; FSH – follicle stimulating hormone; LH – luteinising hormone.

\*Cortisol level during replacement hydrocortisone therapy

\*\*Cortisol level 24 hours after hydrocortisone withheld

**Figure 5:** Results of Zeiss HFA 30-2 SITA-Fast visual field testing one month post-operatively, demonstrating near-complete resolution of bitemporal visual defects. A small area of left temporal field loss was present and persisted on visual field testing at subsequent follow-ups.

