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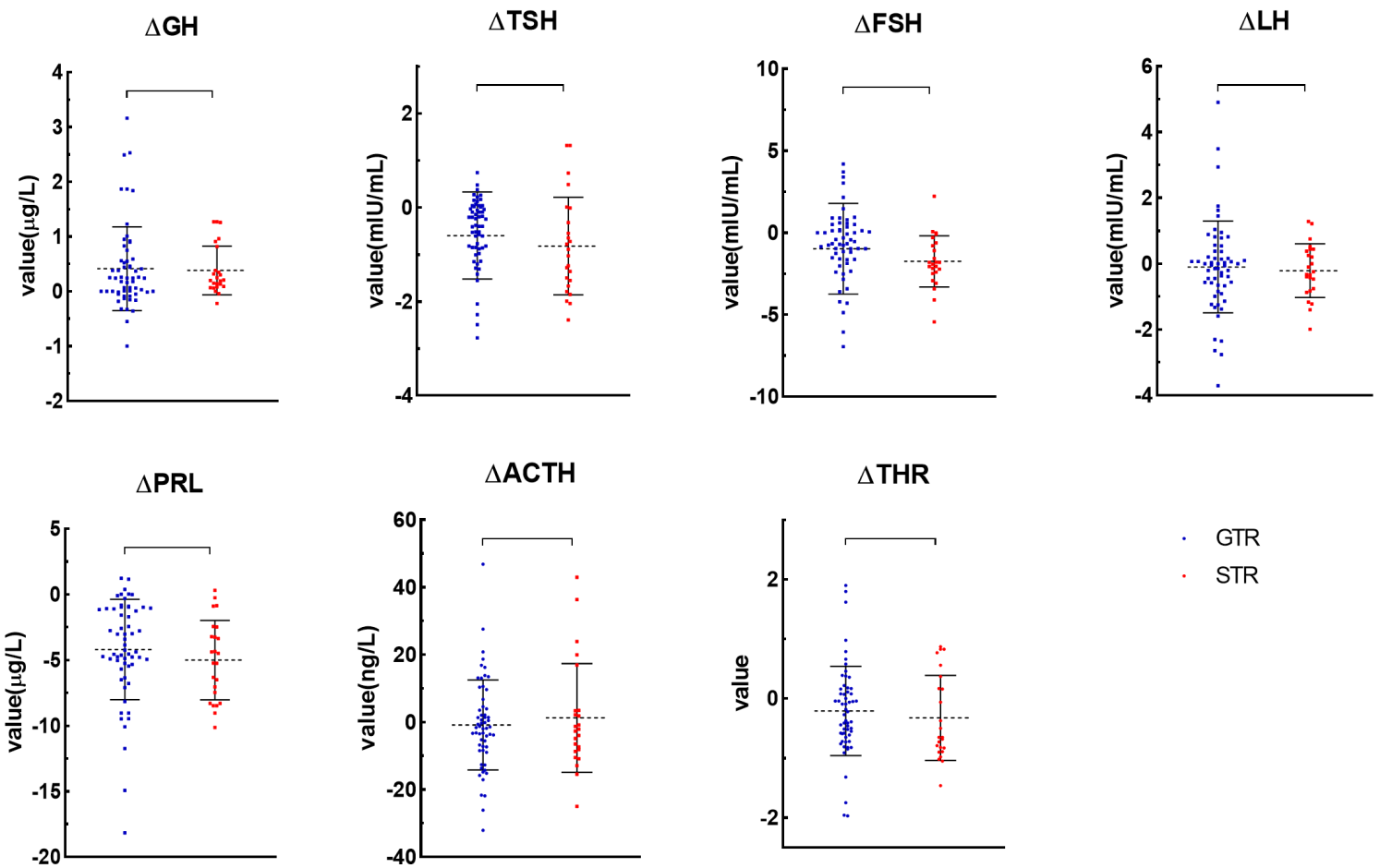
Supplemental material

Perioperative fluctuation and overall evaluation of adenohipophyseal hormone secretion in patients with nonfunctioning pituitary adenoma

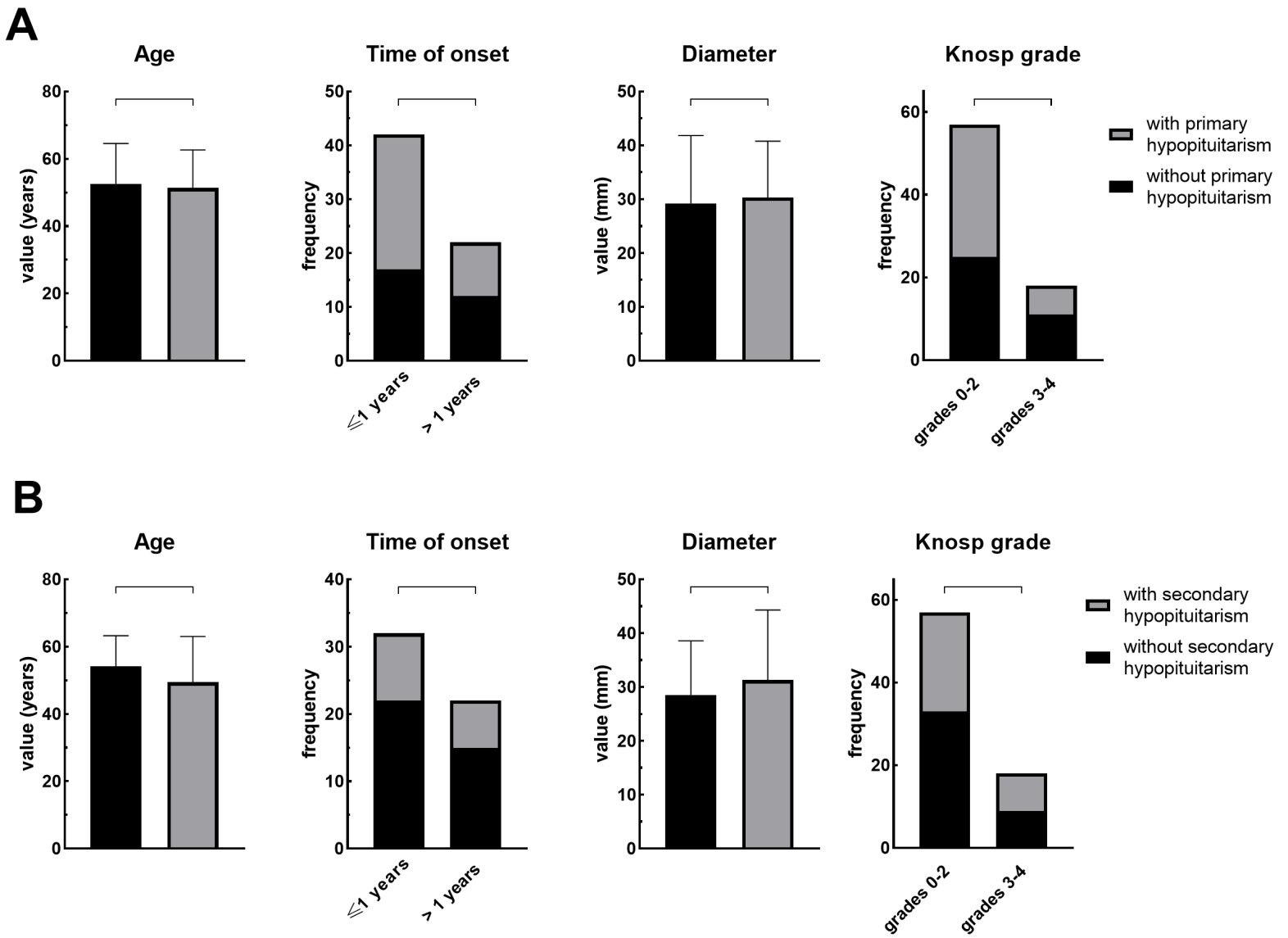
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Supplemental Figure 1: Perioperative changes in pituitary hormones between gross total resection (GTR) and subtotal resection (STR): The results of individual hormone changes, including general hormone levels, present no significant difference between GTR and STR. ($\bar{x} = \bar{x}(\text{post-}) - \bar{x}(\text{pre-})$) (ACTH, adrenocorticotrophic hormone; FSH, follicle-stimulating hormone; GH, growth hormone; LH, luteinising hormone; PRL, prolactin; THR, total hormone rate; TSH, thyroid stimulating hormone.)



Supplemental Figure 2: Clinical characteristics and Hypopituitarism. (A) Preoperative primary hypopituitarism due to NFPA is unrelated to age, time of onset, tumour diameter and Knosp grade. (B) Postoperative secondary hypopituitarism induced by surgery is unrelated to age, time of onset, tumour diameter and Knosp grade.

Supplemental Table 1: Perioperative hormone levels and THR in NFPA

Hormone	Preoperative	Postoperative	With normal preoperative hormones	With Primary hypopituitarism	With Secondary hypopituitarism
GH, ng/mL	0.23±0.32	0.61±0.66	0.19±0.31	0.27±0.33	0.25±0.30
TSH, mIU/mL	1.34±0.96	0.69±0.55	1.42±0.62	1.26±1.19	1.34±1.07
FSH, mIU/mL	6.50±3.63	5.21±3.70	8.12±3.71	4.98±2.83	5.40±3.34
LH, mIU/mL	2.78±2.14	2.61±2.53	3.95±1.96	1.69±1.71	2.21±1.63
PRL, µg/L	8.96±4.73	4.39±2.42	9.83±3.87	8.15±5.32	8.19±5.65
ACTH, ng/mL	20.92±14.39	21.25±16.65	27.68±13.85	14.61±11.91	18.15±13.09
THR	1.45±0.68	1.20±0.95	1.88±0.57	1.06±0.51	1.23±1.65

ACTH, adrenocorticotrophic hormone; FSH, follicle-stimulating hormone; GH, growth hormone; LH, luteinising hormone; PRL, prolactin; THR, total hormone rate; TSH, thyroid stimulating hormone.