**Table 1.** Dynamic endocrine testing of the patient with panhypopituitarism and empty sella.

| Age (yrs) | Test performed | Expected normal values | 0 | 30 | 60 | 90 | 120 |
|---|---|---|---|---|---|---|---|
| | | | | | minutes | | |
| $12\,^{10}/_{12}$ | GHRH GRF 20.2 mg i.v. | GH µg/L (> 8) | 1.3 | 1.5 | 2.2 | 1.3 | 1.4 |
| $12\,^{10}/_{12}$ | TRH 144.4mg | TSH mU/l (0.4 – 3.5) | 1.0 | 8.7 | 9.2 | 10.7 | 8.8 |
| $12\,^{10}/_{12}$ | LHRH Gonadorelin 37 mg i.v. | LH IU/L (1.7 – 8.6) | 0.8 | 2.3 | 2.5 | 2.8 | 2.4 |
| | | FSH IU/L (1.6 – 11.0) | 0.1 | 1.3 | 1.2 | 1.0 | 1.0 |
| $12\,^{10}/_{12}$ | Metopirone 585 mg orally | ACTH pmol/l (1.0 – 17.0) | < 1 | – | – | – | < 1 |
| | | cortisol nmol/l (244 – 727 a.m.) | 180 | – | – | – | 235 |
| $12\,^{11}/_{12}$ | Arginine 9.75 g i.v. | GH µg/L (> 8) | 0.7 | 0.9 | 0.8 | 0.8 | 0.9 |
| | | blood glucose mmol/l (3.5 – 5.5) | 4.1 | 4.3 | 4.2 | 3.9 | 4.0 |
| $18\,^{6}/_{12}$ | LHRH Gonadorelin 100 µg i.v. | LH IU/L (1.7 – 8.6) | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| | | FSH IU/L (1.6 – 11.0) | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| $18\,^{6}/_{12}$ | LHRH LHRH pump + 100 µg i.v. | testosterone nmol/l (9.9 – 27.8) | 0.7 – – | 1st day 1.0 – | 2nd day 0.9 – | | 3rd day (pump off) 1.3 |
| $18\,^{10}/_{12}$ | CRF CRH 57.8 µg i.v. | ACTH pmol/l (1.0–17.0) | 3.9 | 14.4 | 9.2 | 7.5 | 8.7 |
| | | cortisol nmol/l (244 – 727 a.m.) | 64 | 135 | 130 | 106 | 138 |
| $23\,^{1}/_{12}$ | Arginine/GHRH 30 g solution i.v. | GH µg/L (> 8) | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| $23\,^{1}/_{12}$ | Pyridostigmine/GHRH 120 mg Mestinon p.o. + 50 µg GHRH | GH µg/L (> 8) | < 0.1 | < 0.1 | < 0.1 | < 0.1 | <0.1 |
| $23\,^{1}/_{12}$ | Insulin 6.9 IU Actrapid i.v. | blood glucose mmol/l (3.5 – 5.5) | 4.8 | 2.1 | 3.6 | 3.8 | 3.4 |
| | | GH µg/L (> 8) | < 0.1 | < 0.1 | < 0.1 | < 0.1 | <0.1 |
| | | cortisol nmol/L (244 – 727 a.m.) | 70 | 25 | 25 | 25 | 100 |