

- 1 **Supplementary table 1.** Relationship between IGF-I hormonal response to pasireotide
- 2 treatment and T2- weighted MRI signal.

| | Total evaluable cases ^a | IGF-I Hormonal Response | Hypointense T2-weighted MRI signal | Iso/Hyperintense T2-weighted MRI signal | p |
|--|------------------------------------|-------------------------|------------------------------------|---|------|
| % IGF-1 reduction over ULN at 6 months | 58 ^a | 36±3 | 34±6 | 37±3 | 0.44 |
| Complete normalization of IGF-I at 6 months | 58 | 30 (52%) | 9/19 (47%) | 21/39 (54%) | 0.59 |
| % IGF-1 reduction over ULN at 12 months | 50 | 36±6 | 20±18 | 42±5 | 0.59 |
| Complete normalization of IGF-I at 12 months | 50 | 29 (58%) | 7/13 (54%) | 22/37 (60%) | 0.78 |

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4 Data are shown as mean ± standard error or number (percentage).

5 ^a Having excluded patients who received radiotherapy more than 1 year but less than
6 10 years ago.

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8 **Supplementary table 2.** Relationship between tumor response to pasireotide
 9 treatment and T2- weighted MRI signal.

| | Total evaluable cases ^a | Volume reduction | Hypointense T2-weighted MRI signal | Iso/Hyperintense T2-weighted MRI signal | p |
|---|------------------------------------|------------------|------------------------------------|---|------|
| Tumor shrinkage (≥25%) at 6 months | 42 | 19/42 (45%) | 4/13 (31%) | 15/29 (52%) | 0.32 |
| Tumor shrinkage (≥25%) at 12 months | 37 | 17/37 (46%) | 2/9 (22%) | 15/28 (54%) | 0.14 |
| Absolute tumor shrinkage (mm ³) at 6 months | 42 | 2262±1089 | 760±762 | 2936±1533 | 0.01 |
| Absolute tumor shrinkage (mm ³) at 12 months | 37 | 2356±1355 | 193±184 | 3175±1763 | 0.03 |
| % tumor shrinkage over basal residual volume at 6 months | 42 | 26±6 | 20±12 | 28±6 | 0.06 |
| % tumor shrinkage over basal residual volume at 12 months | 37 | 27±6 | 13±15 | 31±5 | 0.14 |

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11 Data are shown as mean ± standard error or number (percentage).

12 ^a Having excluded patients who received radiotherapy more than 1 year but less than
 13 10 years ago.