**Table 1. Clinical and biochemical characteristics of the patients with acromegaly depending on hyperprolactinemia**

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| --- | --- | --- | --- |
| **Study parameters** | **Patients with acromegaly (n = 234)** | **Patients with acromegaly and hyperprolactinemia (n = 72)** | **р** |
| Men / women, n (%) | 50 / 184 (21.4 / 78.6) | 20 / 52 (27.7 / 72.3) | 0.265 |
| Age at the onset of symptoms, Ме [25%; 75%], years | 41.5 [32; 51.5] | 37 [25; 46] | 0.004 |
| Time from the first symptoms to the diagnosis of acromegaly, Ме [25%; 75%], years | 7 [3; 12] | 5 [2; 13] | 0.190 |
| Age at diagnosis of acromegaly, Ме [25%; 75%], years | 52 [42; 61] | 45 [34.5; 55] | < 0.001 |
| IGF1 index, Ме [25%; 75%] | 2.8 [2.2; 3.6] | 2.7 [1.7; 3.8] | 0.270 |

IGF1, insulin-like growth factor 1; Ме [25%; 75%], median [25th; 75th percentiles]; n, patient numbers

**Table 2. Main characteristics of somatotropinomas in the patients with increased and normal prolactin levels**

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| --- | --- | --- | --- |
| **Parameter** | **Patients with acromegaly (n = 234)** | **Patients with acromegaly and hyperprolactinemia (n = 72)** | **р** |
| Micro- to macroadenoma ratio, n (%): |  |  |  |
| total group | 43 / 191 (18.4 / 81.6) | 7 / 65 (9.7 / 90.3) | 0.101 |
| men | 36 / 148 (19.6 / 80.4) | 5 / 47 (9.6 / 90.4) | 0.132 |
| women | 7 / 43 (14 / 86) | 2 / 18 (10 / 90) | 0.678 |
| Adenoma volume, Ме [25%; 75%], mm3: |  |  |  |
| total group | 1242 [448; 3740] | 4445 [1649; 7767] | < 0.001 |
| men | 2312 [840; 4858.5] | 4830 [480; 15200] | 0.180 |
| women | 1042 [378.9; 3310.8] | 4220.5 [1673; 7014] | < 0.001 |
| Suprasellar adenoma growth, n (%) | 99 (42.3) | 41 (56.9) | 0.031 |

Ме [25%; 75%], median [25th; 75th percentiles]; n (%), patient numbers and their proportions in the group

**Тable 3. Comparison of the patients with hyperprolactinemia diagnosed before or simultaneously with acromegaly**

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| **Parameter, Ме [25%; 75%]** | **Patients had been seen with the diagnosis of prolactinoma before the diagnosis of acromegaly (n = 11)** | **Hyperprolactinemia diagnosed simultaneously with acromegaly (n = 61)** | **p** |
| Age at onset of the first symptoms, years | 27 [20; 44] | 39 [28; 48] | 0.098 |
| Age at diagnosis of acromegaly, years | 49 [37; 58] | 45 [34.5; 55] | 0.652 |
| Time from the first symptoms to the diagnosis of acromegaly, years | 16 [8; 20] | 5 [2; 10] | 0.001 |
| Prolactin, % above UNL | 347.5 [173.5; 642.8] | 104.3 [43.8; 213.8] | 0.013 |
| IRF1 index | 1.8 [1.2; 2.7] | 2.8 [1.9; 3.9] | 0.029 |
| Adenoma volume, mm3 | 2176 [1092; 6379] | 4625 [1416; 7767] | 0.233 |

IGF1, insulin-like growth factor 1; Ме [25%; 75%], median [25th; 75th percentiles]; n, patient numbers; UNL, upper normal limit