Rathke cleft cysts are benign, epithelium-lined intrasellar and/or suprasellar cysts believed to originate from remnants of the Rathke pouch. Although its prevalence in adults is rather high, Rathke cleft cysts are rare in children. Often they are asymptomatic findings, however depending on their size and localization they can present with a wide spectrum of symptoms. The aim of the study was to analyse the symptoms and surgical outcome of patients with the diagnosis of Rathke cleft cyst based on histopathological examination of postoperative material.

### RESULTS

Sex ratio was 1:0.9 (20 girls and 18 boys), two female patients were twins. At diagnosis patients were between 6 yrs. 11 mo. and 17 yrs. 10 mo. old with mean age of 13 yrs. 8 mo. (Fig.1).

Average diameter of the cyst was 16.7 mm. In 6 cases calcifications in the lesions were observed either in brain imaging or intraoperatively.

Most common symptoms: headache (50%), hypothyroidism (50%), short stature and/or decreased growth velocity (47%), delayed puberty and menstrual abnormalities (37%), diabetes insipidus or polydipsia and polyuria (26%), adrenal dysfunction (26%), sleepiness and general weakness (13%), visual disturbances (11%). (Fig.2 and 3)

29 patients underwent a transsphenoidal operation and in 9 a craniotomy was performed. All but one were successful (one patient died due to postoperative neurosurgical complications).

Follow-up of 30 out of 37 patients:

- average follow-up (time since operation until survey) is 8 yrs. 3 mo.
- average age of patients at the time of survey is 23 yrs. 9 mo. (20 adults and 10 below 18 yo).
- metabolic problems: 3 patients are obese (10%), 4 are overweight (13%), on the other hand 6 are underweight (20%), 2 obese patients are treated with metformin.
- education: 11 out of 13 patients (85%) over 25 yo have higher education. Among patients younger than 25 yo: 10 follow the regular school career (59%), 4 finished secondary school and entered working market (24%), 2 has individual education (11%) and 1 interrupted obligatory education (6%).
- pharmacological treatment: 6 patients don’t need any at all (20%) and 2 of them are not under endocrinological care any more. Among the 24 that need pharmacological treatment 20 (67% of the entire group) need supplementation of sex hormones and 8 (27%) are treated with growth hormone. (Fig.3)
- 3 patients (10%) have subjective ophthalmological problems (losses of visual field and in 1 case atrophy of the optic nerve).
- in case of 3 patients (10%) a reoperation due to Rathke cleft cyst was necessary, which was conducted after 2, 5 and 11 years after first operation (on average 6 years).

### REFERENCES

