

Pituitary adenoma in the elderly: a 10 year experience



Sandra Pekic Djurdjevic^{1,2}, Mirjana Doknic^{1,2}, Dragana Miljic^{1,2}, Marko Stojanovic¹, Milan Petakov^{1,2}, Vera Popovic^{1,2} ¹Department of Neuroendocrinology, Clinic for Endocrinology, University Clinical Center, Belgrade; ²University of Belgrade, School of Medicine, Belgrade, Serbia

CONCLUSION: In the last 10 years pituitary adenomas have been recognized more frequently in the elderly. Most were non-functioning pituitary macroadenomas which presented with visual deterioration and hypopituitarism. If hyponatremia is diagnosed in the elderly with PA, then it can be a life-threatening condition.

OBJECTIVE: To review our case records of patients > 70yrs with PA, in order BACKGROUND: Pituitary adenoma (PA) is to evaluate presenting symptoms, hormonal results and pituitary morphology. an under-investigated pathology in the elderly.

PATIENTS: 48 patients aged 70 years or older (21 female / 27 male) were identified from the group of 610 patients with PA (7.9%) diagnosed at Department of Neuroendocrine, Clinic for Endocrinology, Belgrade, between 2005. and 2014. Median age in our group of elderly patients was 73 years (range 70-83).

RESULTS:

Figure 1. Type of pituitary adenoma in elderly ■ NFPA (8%) Acromegaly ■ Prolactinoma (15%)M. Cushing

36

(75%)

Table 1. Presenting symptoms of pituitary adenoma in elderly

Presenting symptoms of pituitary adenoma (PA)	N (%)
Visual deterioration	23 (48%)
Headache	22 (46%)
Hyponatremia (due to secondary hypocorticism)	8 (17%)
Loss of consciousness	5 (10%)
Dizziness	5 (10%)
Loss of memory, confusion, depression	5 (10%)
Incidentally discovered PA (during CT of MRI for cerebral ischemic attack)	4 (8%)

Figure 2. Size of pituitary adenoma in elderly

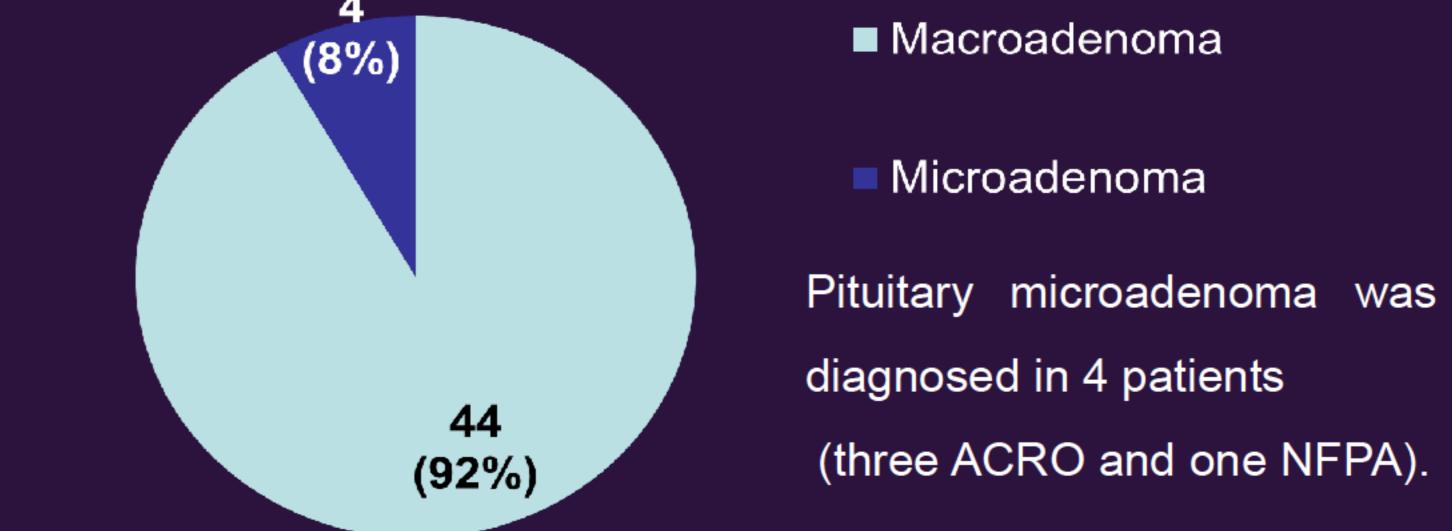


Figure 3. Endocrinological evaluation

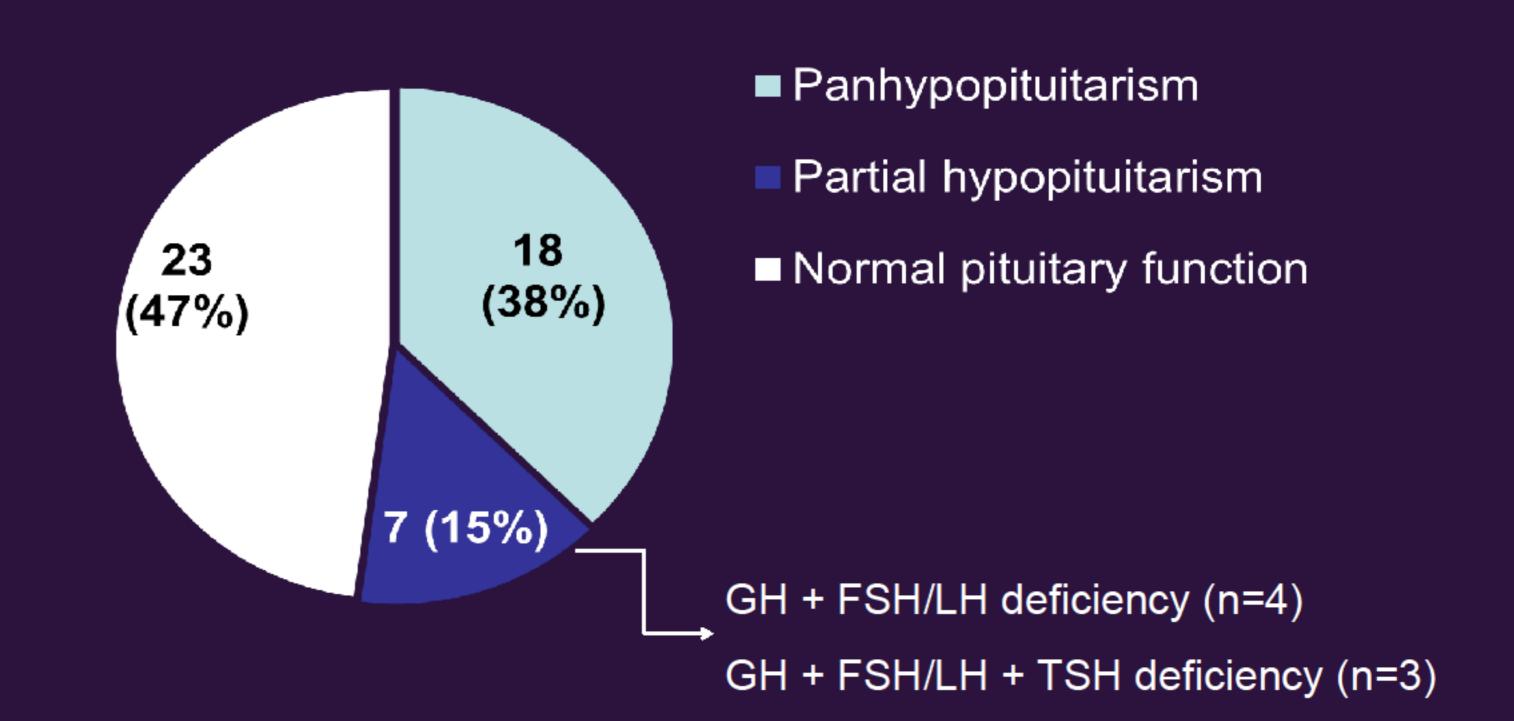


Figure 4. Treatment of pituitary adenoma in elderly

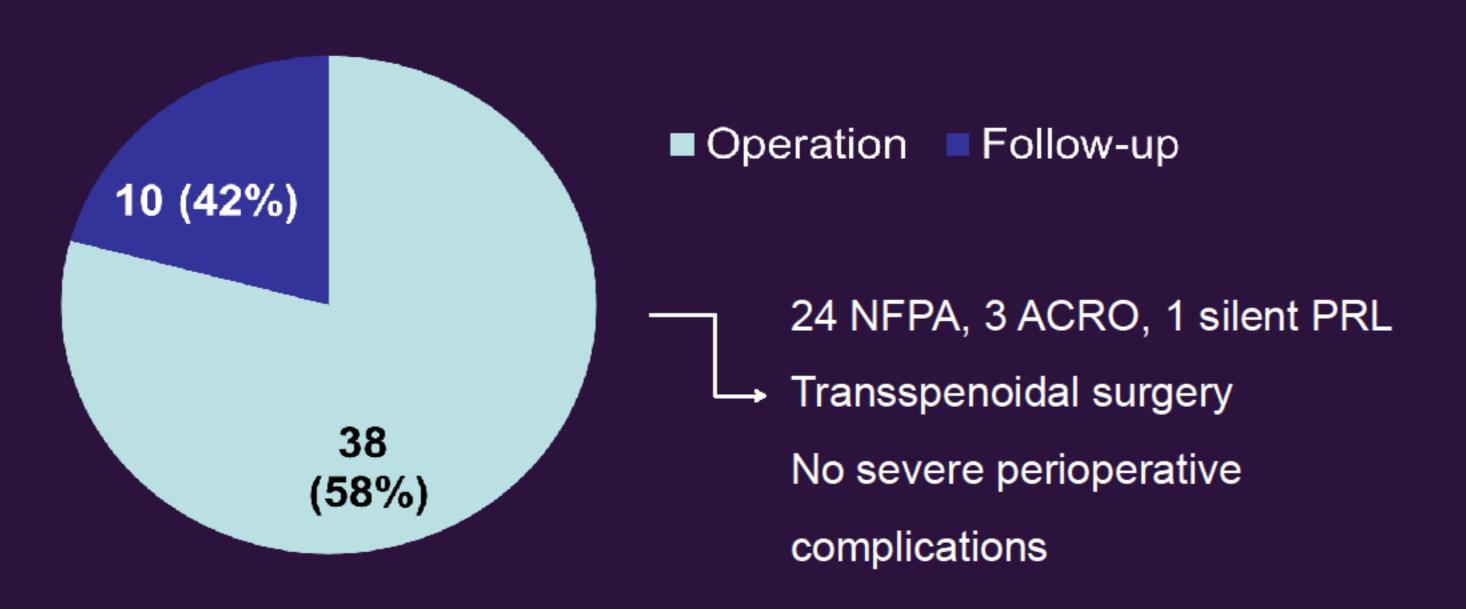


Table 2. Immunohistochemistry of pituitary adenoma in elderly

Immunohistochemistry of pituitary adenoma (n=12)	N
NFPA positive for gonadotropins	7
NFPA GH sparsely granulated	1
NFPA null cell pituitary adenoma	4

Ki-67 antigen expression was indicative of low proliferative activity.



presented



