Clinical features of Pituitary adenomas in elderly patients in Castilla - La Mancha (Spain) compared with younger age group; A retrospective multicenter study

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Background and Objetive

Pituitary adenomas (PAs) in the elderly, defined as people older than 65 years, represent less than 10% of all PAs. Because of increasing life expectancy and improving health care, diagnosis PAs in this age group is increasing with time. Age-related changes and associated diseases may significantly modify the clinical presentation in these patients, delaying the diagnosis of PAs.

OBJETIVE: To analyse the clinical features of PAs in elderly patients in a study population from Castilla - La Mancha (Spain).

Design and Methods

Retrospective observational study. The study included 346 patients with a presumptive diagnosis of pituitary adenoma between 2000 and 2012. Review of medical records of elderly patients with PAs was carried out.

Results

TABLE 1 Baseline Characteristics of patients with pituitary adenomas P value Age goup ≥ 65 years ≤ 65 years 67 279 n Female/male gender 193/86 42/25 n.s. (69,2/30,8) (62,7/37,3) (%) Adenoma size (mm) 23,9 12 $15,2 \pm 12,4$ p < 0.001Mean SD Macroadenoma n (%) 125 (44,8) p < 0.00159 (88,1)

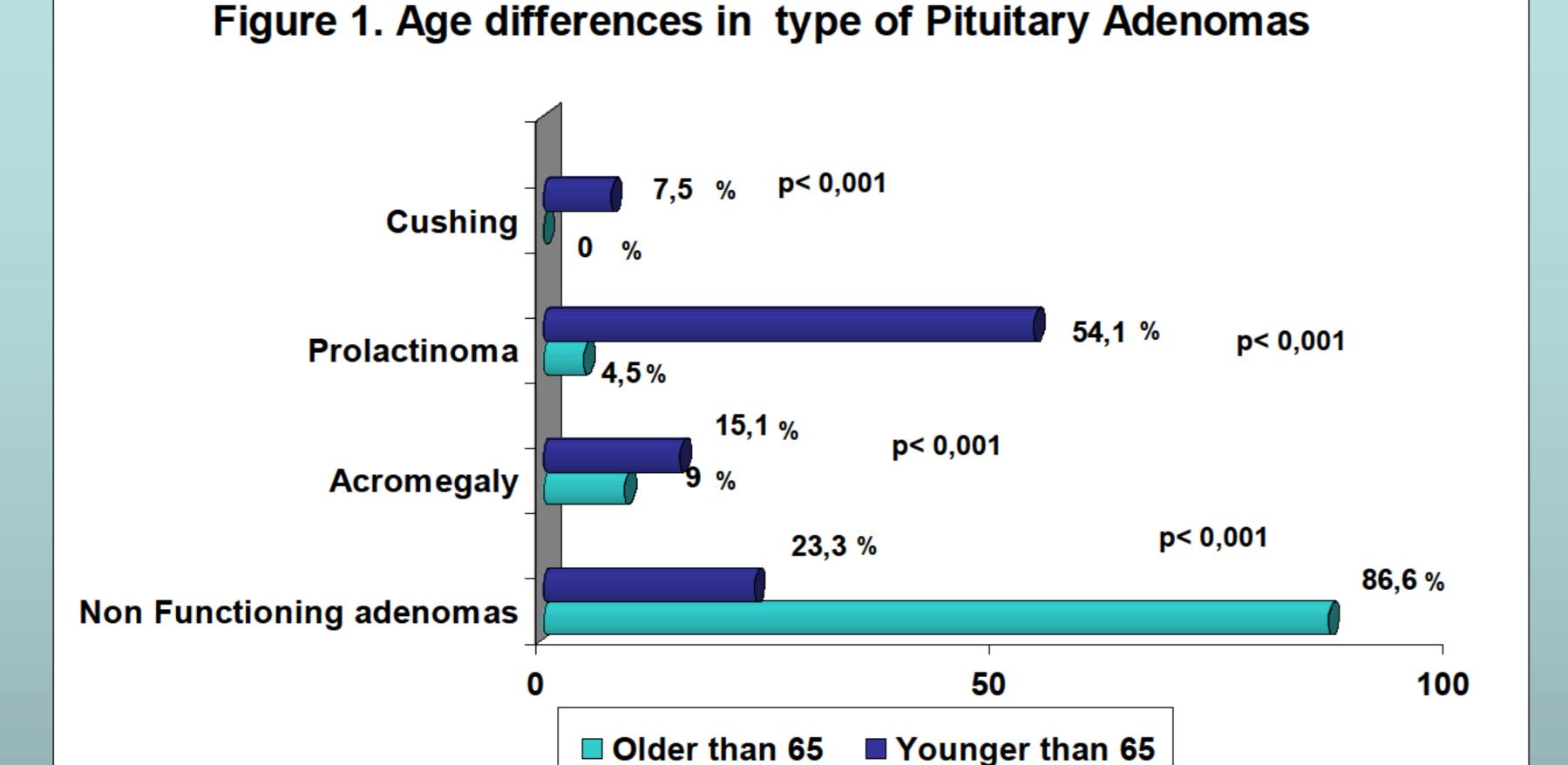


TABLE 2 Presenting Symptoms ≥ 65 years ≤ 65 years P value Age goup Headache n (%) 30 (47,6) 97 (37,6) n.s. N = 321Visual impairment n (%) 29 (43,3) 45 (16,3) p < 0.001N = 320Deficiency of ≥ 1 pituitary axes 34 (50,8%) n (%) 85 (30,5) p < 0.001N = 288Incidental n (%) 32 (47,8) 41 (14,9) p < 0.001N = 343Pituitary Apoplexy n (%) 2 (1) 7 (10,4) p < 0.001N = 328

- 67 patients older than 65 years were studied (19.4% of whole PAs). 42 (62,7%) were women and 25 (37,3%) were men. Mean age was 73 years (range 65-87).
- At presentation, visual impairment, headache and deficiency of ≥ 1 pituitary axes were detected respectively in 43.3%, 47.6% and 50.8% of the patients with available data. There were statisti-cally significant differences in visual impairment (43.3% vs 16.3%, p< 0,001), deficiency of ≥ 1 pituitary axes (50,8% vs 30,5%, p< 0,001), incidental diagnosis (47.8% vs 14.9%, p<0,001) or pituitary apoplexy (10,4% vs 1%, p< 0,001) between elderly and younger patients at presentation. 59 (88,1%) out of 67 patients had macroadenomas whereas 8 (11,9%) had microadenomas. Mean size of PAs in elderly patients was significantly greater than non elderly patients (23,9± 12 mm vs 15,2±12,4 mm, p<0,001). 58 (86.8%) were non-functioning pituitary adenomas, 3 (4.5%) prolactinomas, and 6 (8.9%) GH-secreting adenoma. There was none ACTH- secreting adenoma.
- Continuous data are presented as means and standard deviations or medians and ranges. Proportions were compared using the Fisher's exact test or chi-square test, and continuous variables were compared using the Student's *t* test or Mann-Whitney U-test, as appropriate. Analyses were performed using SPSS software (version 20). A *P* value ≤.05 was considered statistically significant.
- Basal caracteristics of patients older and younger than 65 years are shown in Table 1.
- Age differences in type of pituitary adenomas are shown in Figure 1
- Presenting symptoms of patients older and younger than
 65 years are shown in Table 2

Conclusions

- The proportion of elderly patients in our study is higher than other studies.
- Our data show that there are age-related differences in PAs clinical features at diagnosis: Visual impairment, hypopituitarism, incidental diagnosis, pituitary apoplexy and larger size are more frecuent features in elderly patients than in their younger counterparts.
- Most of PAs in elderly patients are macroadenomas and clinically non-functioning.











