

# GENDER DIFFERENCES IN PITUITARY SOMATOTROPINOMAS SIZE AFTER RADIATION THERAPY

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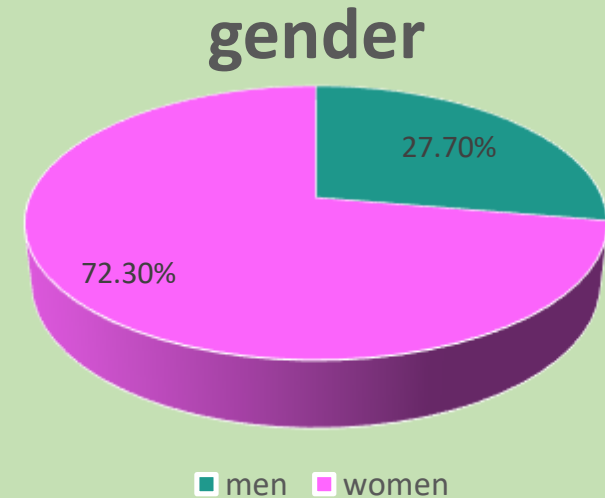
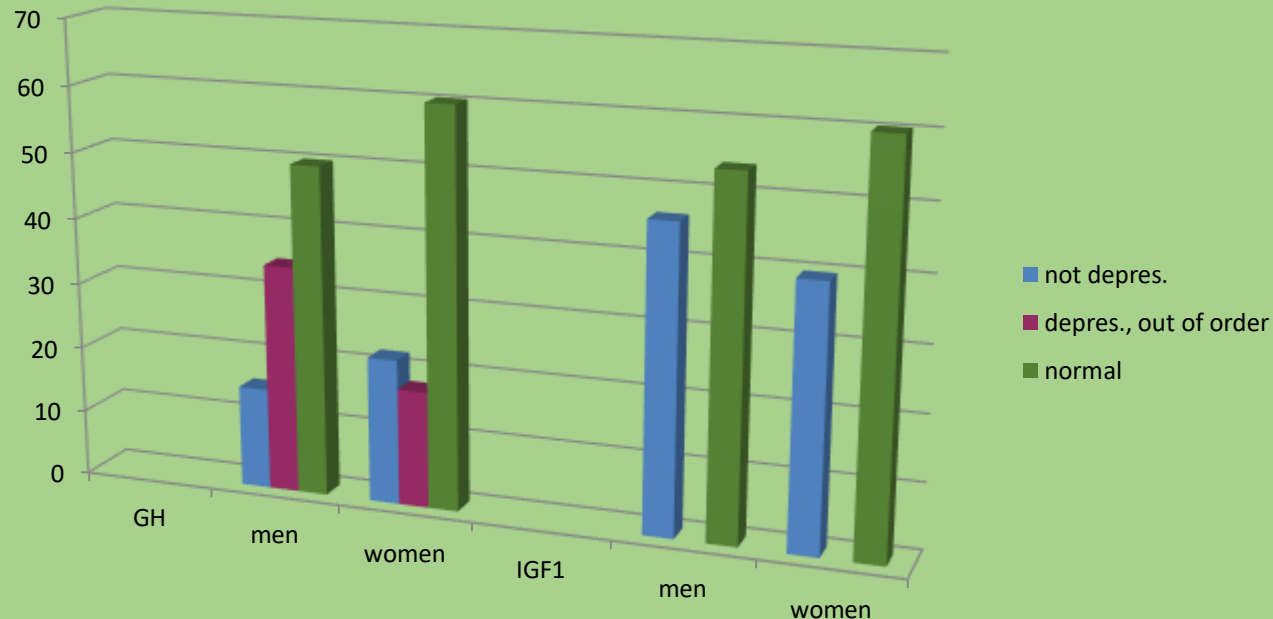
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**Aim.** The results of radiation therapy (RT) for acromegaly depending on gender.

**Results.** It should be noted that only 2 women had a recurrence of somatotropinoma. This is explained by the fact that giant adenomas after RT decreased in size to macroadenomas, but one patient with a macroadenoma developed a relapse and the second patient had resistance to RT, which manifested itself with a high level of growth hormone and IGF-1 and continued growth of somatotropinoma.

**Materials and methods.** The mean age was  $43.8 \pm 10.4$  years. All patients received RT 45-60 Gy for 20-25 fractions every other day, only 2 patients received SRS CyberKnife dose 45 Gy.



• **Conclusion.** With an increase in the duration of the post-radiation period, the volumes of macro- and giant adenomas significantly decreased. The highest efficiency of RT was found in males.

The author has declared no conflict of interest