STUDY OF THE PREVALENCE AND RELATED FACTORS IN THE WITHDRAWAL OF MEDICAL TREATMENT MACROPROLACTINOMAS

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INTRODUCTION AND OBJECTIVES

The prolactinoma is the most common pituitary functioning tumor. There are few long-term studies on the optimal duration of treatment with dopamine agonists prolactinoma to ensure healing without recurrence after stopping the medication and do not provide a consensus on it or on withdrawal criteria treatment.

Our objective is to describe the prevalence of withdrawal of treatment macroprolactinomas and evaluate criteria prolactinoma cure medical treatment and analyzing the possible factors involved

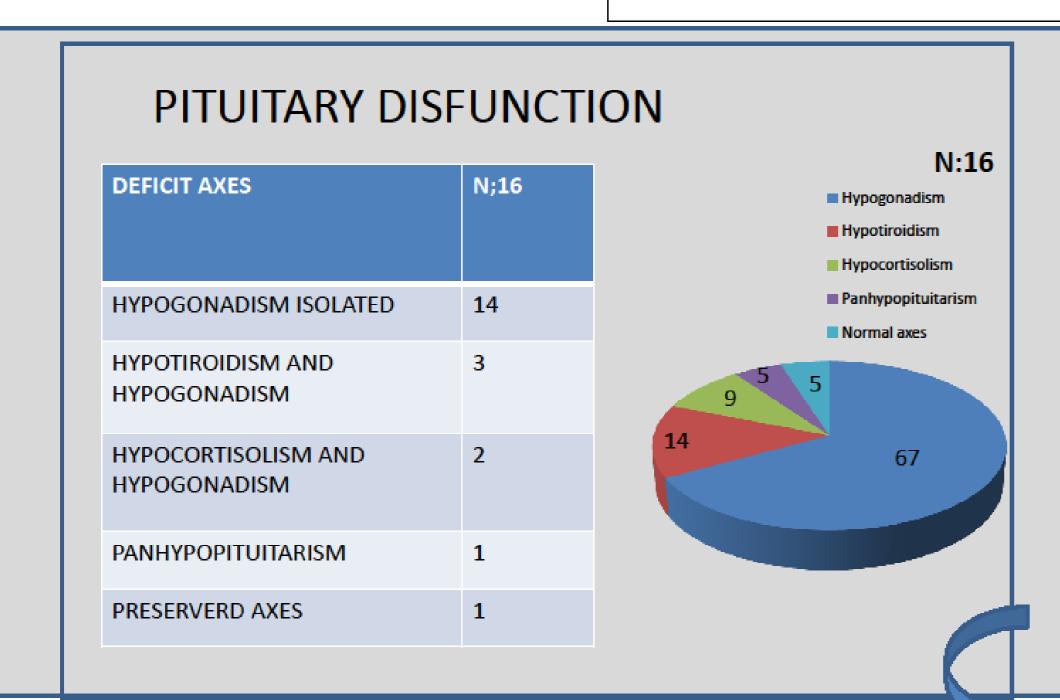
METHODS

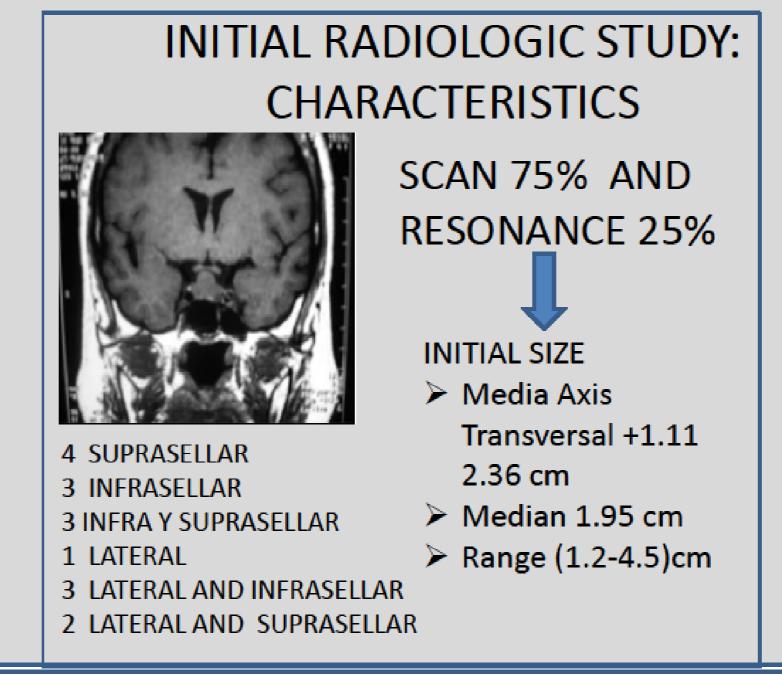
Retrospective study of 77 patients diagnosed and treated for prolactinoma in the Service Endocrinology of University Hospital of Asturias, from 1982-2012. Only 56 patients were treated exclusively with dopamine agonists and the rest were excluded. Of these 40 patients continue with treatment and 16 patients were withdrawn from treatment (8 men and 8 women)after verifying the supression of prolactin (PRL) levels and the disappearance of the pituitary mass In (28.6 % removal treatment and 44.6 % could meet criteria)

The criteria on patients selection were: size > 1 cm; without evidence of endocrine mixed tumors, no prior surgery or radiotherapy, absence of primary hypothyroidism untreated and absence of drugs consumption increasing PRL and withdrawal of treatment with dopamine agonists. The withdrawal of treatment is usually made after checking the following criteria: 1) normal prolactin levels after reducing doses of DA. image: of it or only minimal reduction of tumor residual 2)Large invisibility remains. mass tumor 3) Usually, after 4-5 years of treatment and 10 years of follow up in our Department of Endocrinology.

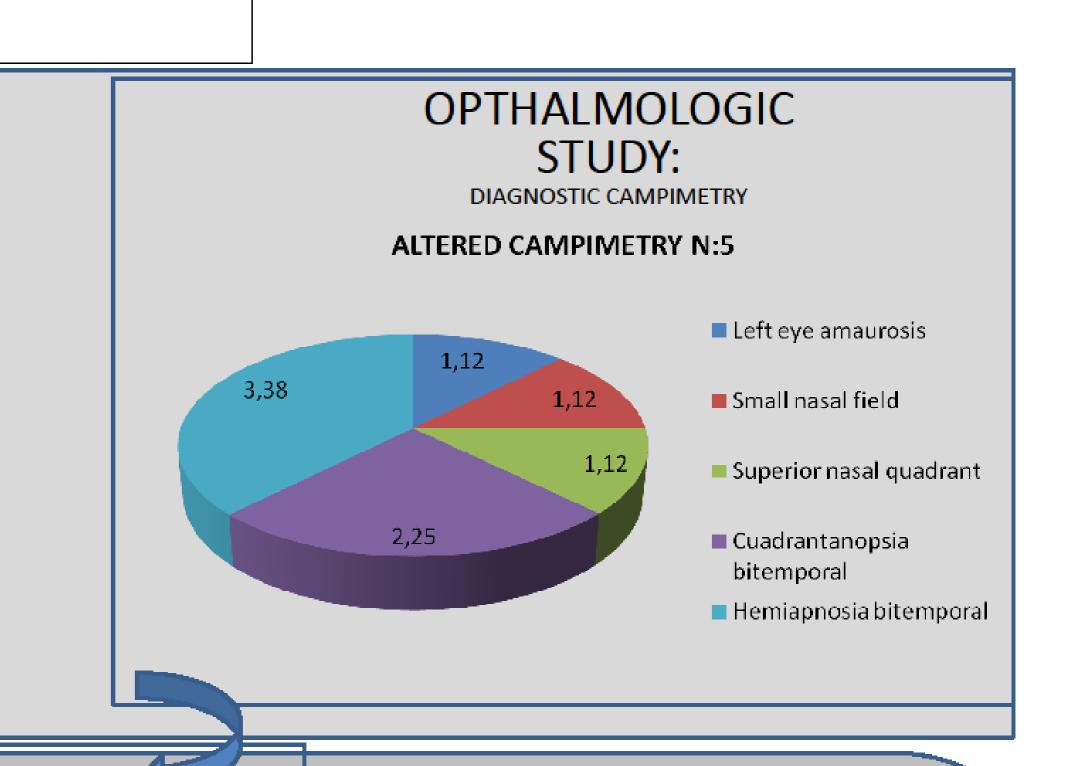
RESULTS

POSTTREATMENT: HORMONAL AXES

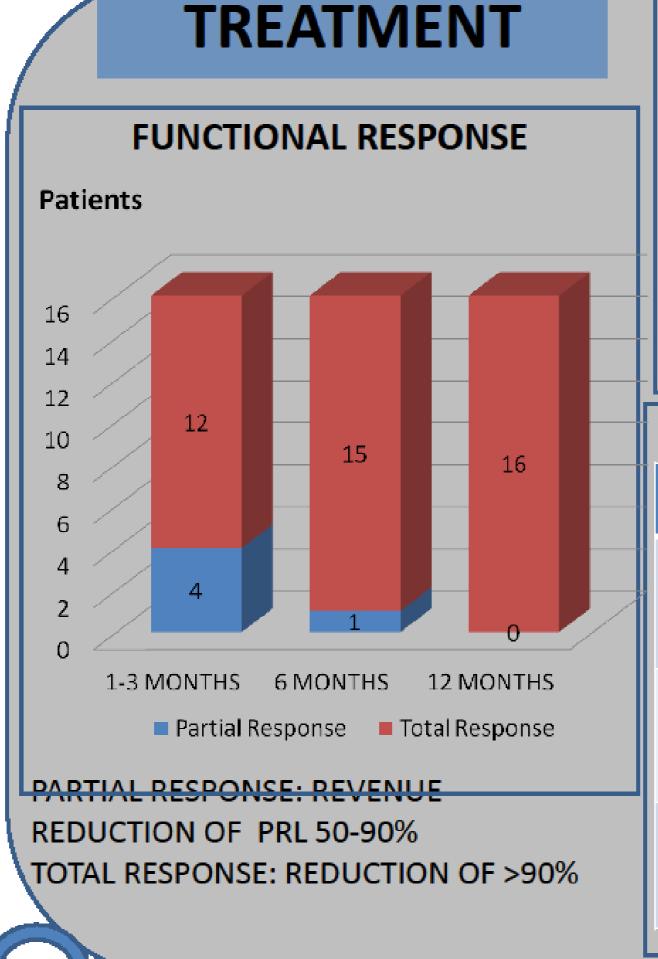


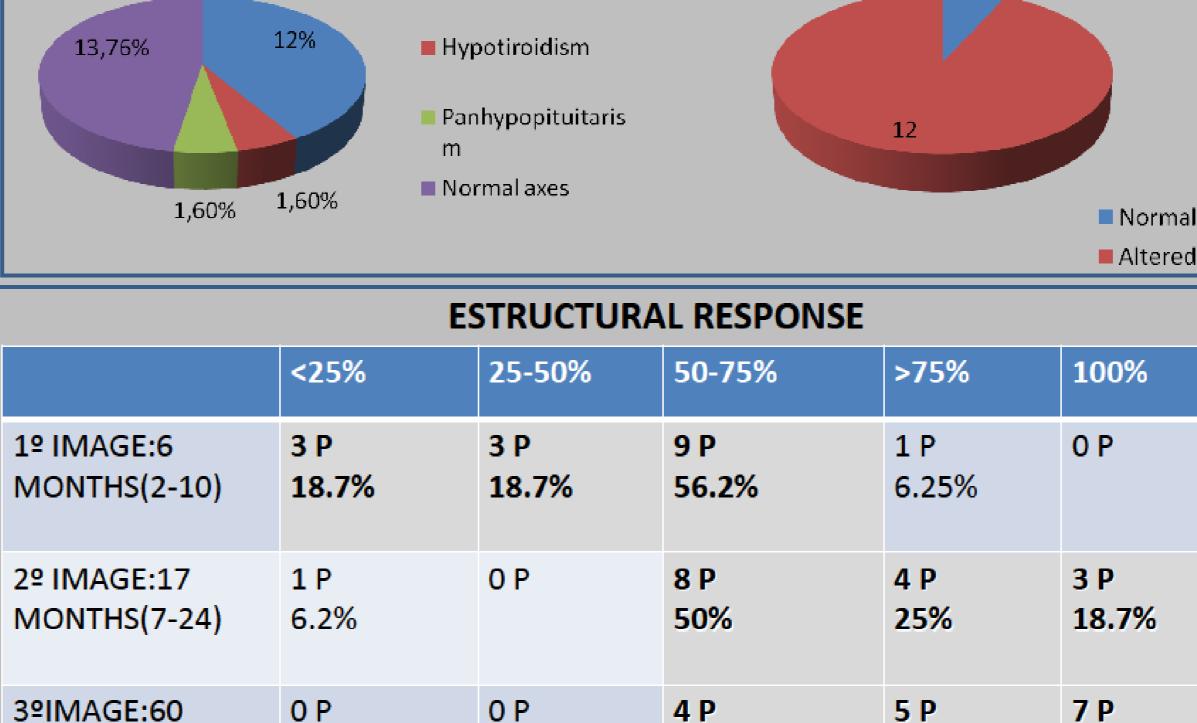


Hypogonadism



ANALYTICS: INITIAL PRL MEDIAN RANGE MEDIA 2779 2259 119-+3918 15,000





25%

CLINICAL RESPONSE

POSTTREATMENT: CAMPIMETRY

31.25%

43.75%

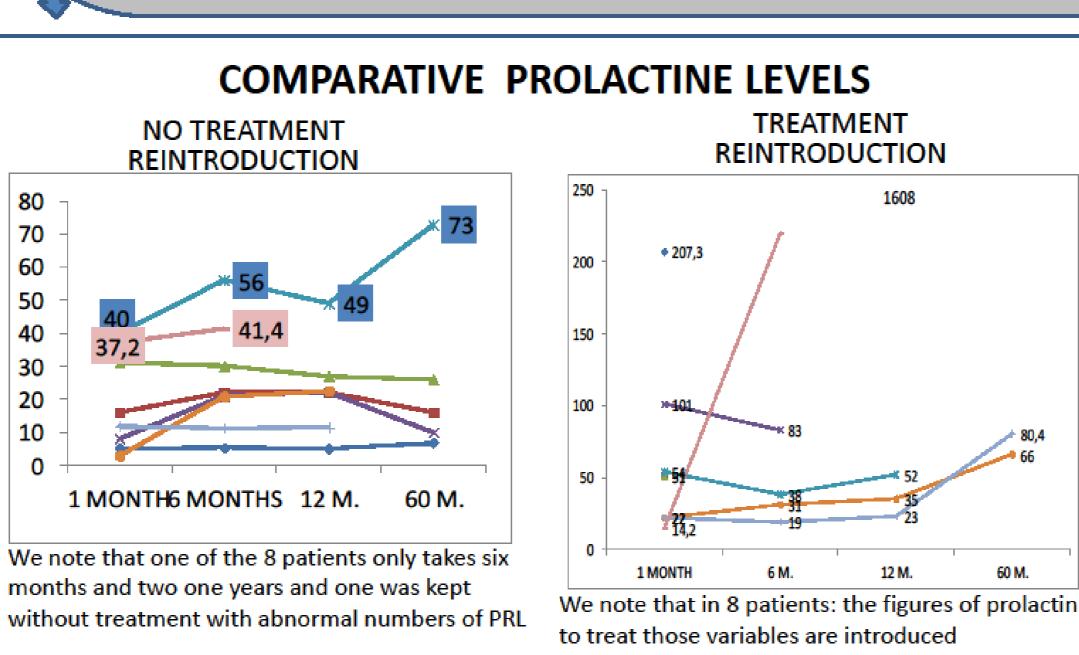
PROLACTIN LEVELS

BROMOCRIPTINE DOSE OF THE SUSPENSIÓN		1.25	2.5	5		MEDIA <u>+</u> SD MEDIAN	
NUMBER OF PATIENTS		1	8	3		3.02 <u>+</u> 1.24 MEDIAN 2.5	
CABERGOLIN E DOSE OF THE SUSPENSION	<0,5MG/ WEEK		1 MG/ WEEK	4MG WEE		_	MEDIA+ SD MEDIAN
NUMBER OF PATIENTES	2		1		1		0.92 <u>+</u> 1.71. MEDIAN 0.75
YEARS OF T ✓ MEDIA:	11.0	01 yea				ONIST	ΓS:

REINTRODUCTION OF TREATMENT: CHARACTERISTICS.

- PERCENTAGE OF REINTRODUCTION TREATMENT 50% TIME REINTRODUCTION OF
- TREATMENT : MEDIA: 24.57 MONTHS RANGE:(1.03-73.60) TRACKING TIME : MEDIA: 7.5 YEARS +
- 6.63 (0.66-19.5) **MEDIAN 4.91 YEARS** NO IMAGE CONTROL REGROWTH
- HYPERPROLACTINEMIA 100% RANGE: 50.8-1608 MEDIA: 274.81. MEDIAN 73.2

Only two patients had clinical: one impotence and other olygomenorrhoea



MONTHS (12-140)

AT THE MOMENT OF SEX: 50% of both WITHDRAWAL AGE THERE ARE NO DIFERENCES Response of BETWEEN REINTRODUCTION V treatment NO TREATMENT DOSE OF AGONIST REINTRODUCTION D TO THE SUSPENSION. **INITAL SIZE OF TUMOR:** •Reintroduction/no • Reintroduction: median reintroduction 1,8cm median 2,5mg with No Reintroduction: BC. median 2,25cm.

The results show differences: Years with treatment : Those who were not reintroduced a median of 10 years compared to 7.69 years he reintroduced. PRL normal time: Those who do not reintroduced tto 8.5 years and the other 5.5 years TRACING.

EXITUS: 3 patients at 5 years of discontinuation of treatment

✓ After the withdrawal of treatment with dopamine agonists ,after an average of 10 years under normal PRL and almost complete tumor shrinkage, the treatment was reintroduced in the 50% of the patients in our serie.

CONCLUSIONS

- ✓ Reintroduction treatment happened in all cases because of prolactin elevation.
- ✓ No tumor regrowth in any of the control images.
- ✓ We observed no relation with the initial tumor size or PRL levels at the moment of treatment withdrawal or other predictors because of the limited sample size.



