

## Osilodrostat in patients with persistent or recurrent Cushing's Disease: a real-life single center experience

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#### Introduction

Medical therapy is a valuable option for patients with peristent or recurrent Cushing's Disease (CD) after transphenoidal adenomectomy (TSA)

Herein we report our real-life experience with the use of osilodrostat, a recently approved CYP11B1 inhibitor, in patients with CD, who were already on another medical therapy.

### Material and Methods

Five patients with persistent/recurrent CD after TSA were switched to osilodrostat due to:

- > inadequate control of CD
- > significant metyrapone-induced hyperandrogenism and/or
- > patient's preference for fewer tablets per day

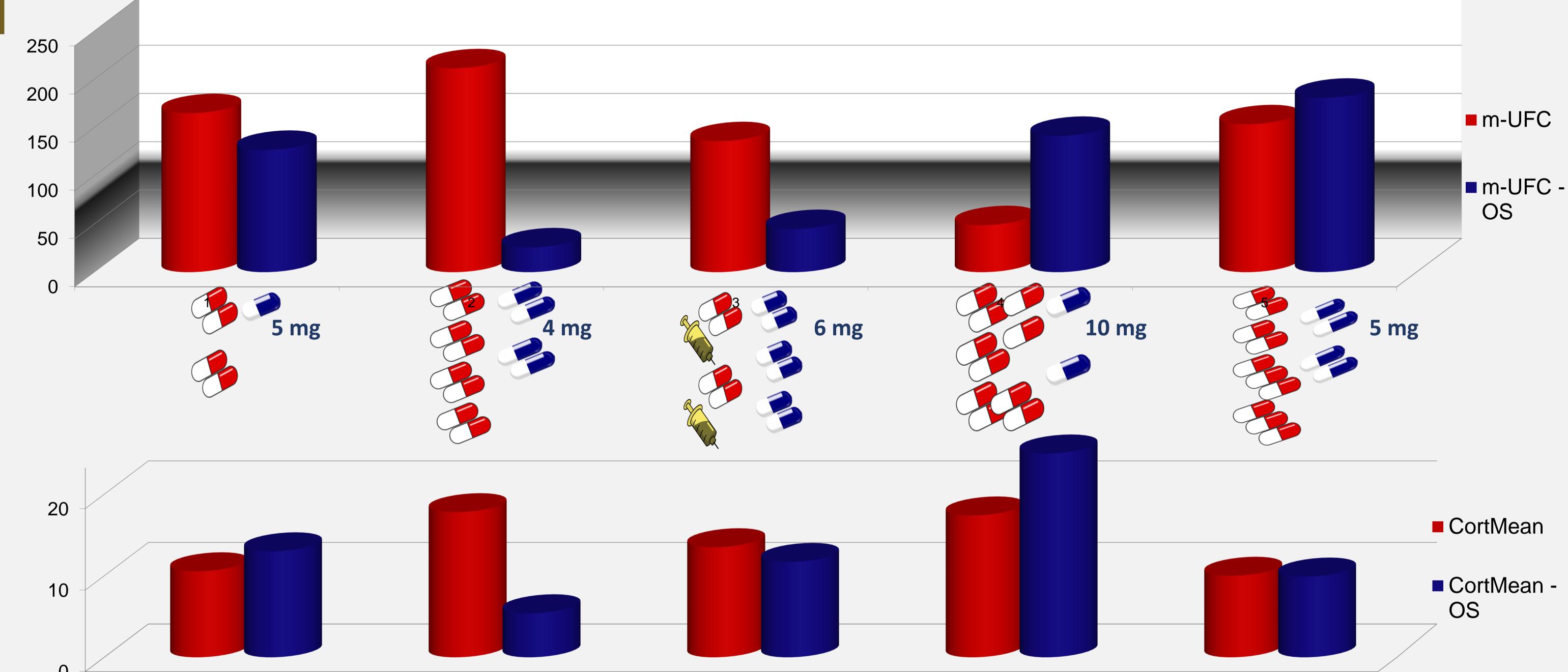
Cushing's control was evaluated by:

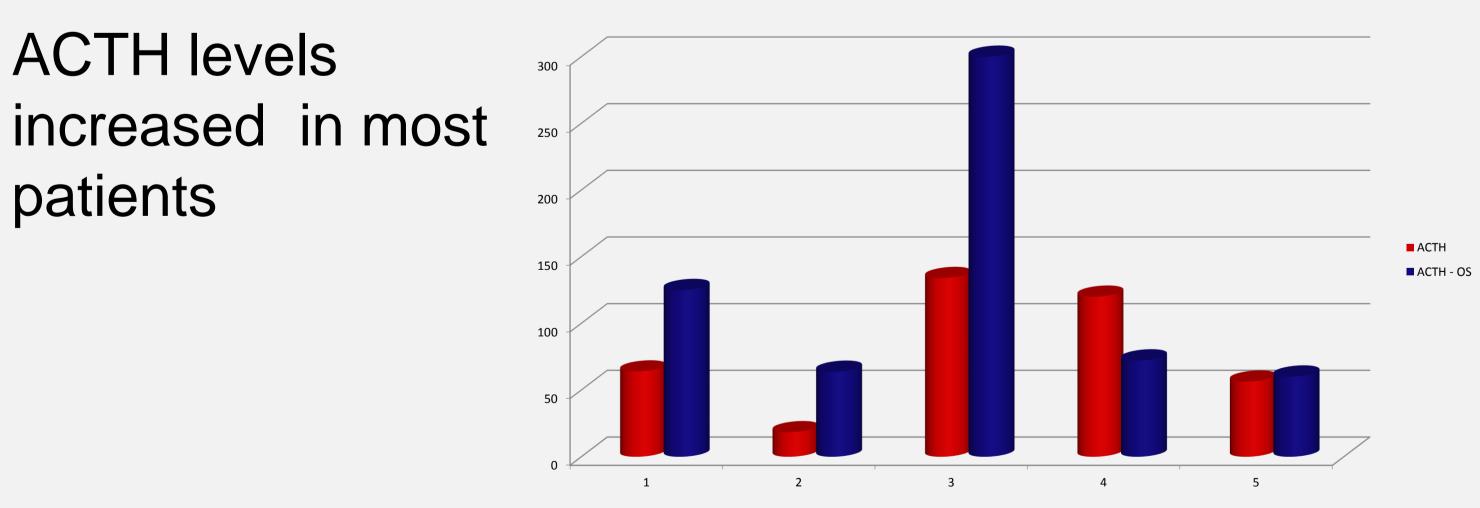
- the mean value of two 24h-Urinary Free Cortisol (*mUFC*) levels and
- \* a 5-point day rhythm of serum cortisol (*CortMean*)

	Patients (n=5)
Gender (Female)	5
Age (years)	52 ( 33 – 76 )
Previous medication	
a. Metyrapone	3
b. Metyrapone + Pasireotide	1
c. Metyrapone + Ketoconazole	1
Dose of Osilodrostat (mg)	4 – 10

Median treatment duration was 45 weeks (range 12-75).







# Conclusions

Osilodrostat treatment resulted in better control of hypercortisolemia in patients on other medical treatment but with a better dosing regimen and fewer side-effects.

Comorbidities (diabetes, hypertension, dyslipidemia)

ameliorated in patients with improved control

Based on our preliminary experience, it seems that osilodrostat is a promising effective and safe choice for the treatment of patients with persistent or recurrent Cushing's disease.

#### Adverse effects- androgen levels

Patient	Weeks of treatment		Testo-OS (ng/dl)	Δ4 (ng/ml)	Δ4-OS (ng/ml)	DHEA-S (µg/dl)	DHEAS-OS (µg/dl)
1	53	<b>53</b>	48	3.7	2.5	60.2	47.2
2	48	164	29	10.2	3.1	332	79.5
3	75	10	9	1.2	0.9	15	15
4	12	44	<b>65</b>	4.6	<b>5.1</b>	53.8	60.3
5	36	215	41	11.8	3.8	232	161

- >One patient developed adrenal insufficiency on 8mg
- > Testosterone levels were normalized in patients with high testosterone levels during metyrapone administration