

Premature ovarian insufficiency

Olle Kämpe

21-hydroxylase autoantibodies



Pregnenolone

17-OH-Pregnenolone

DHE

Progesterone

17-OH-Progesterone

ANDROSTENEDIO NE

21-hydroxylase



Corticosterone

CORTIS OL

ALDOSTERONE



Autoimmune premature ovarian insufficiency

side-chain cleavage enzyme

OL Pregn molone

17-OH-Pregnenolone

DHE

Progesterone

17-OH-Progesterone

ANDROSTENEDIO

NE

Deoxycortikosterone II-Deoxycortisol

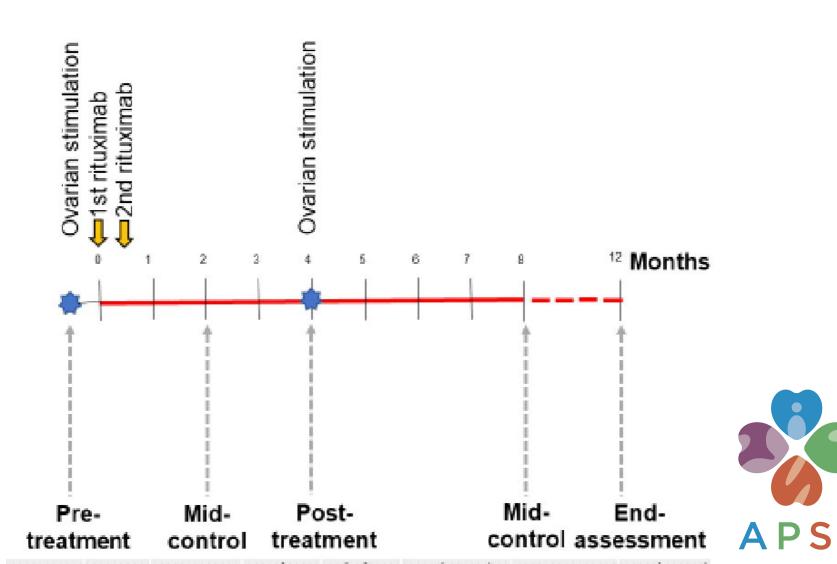
Corticosterone

CORTIS OL

ALDOSTERONE



Immuntherapy for premature ovarian insufficiency



	Age at POI diagnosis	Age at inclusion	1st ovarian hyperstimulation	2nd ovarian hyperstimulation
Addison, POI, Alopecia	30	34	No response	Egg retrieval with 13 unfertilized eggs for cryopreservation
Addison, POI, T1 diabetes, celiac disease thyroiditis	26	34	No response	Egg retrieval with 1 mature and 2 immature oocytes for preservation
Addison, POI, Alopecia	13	31	No response	Egg retrieval with 10 unfertilized eggs for cryopreservation
Addison, POI	16	32	No response	Single follicale bilaterally
Addison, POI	23	24	No response	Egg retrieval with 6 unfertilized eggs for cryopreservation and embryo cryopreserv
POI 21-OH pos SCC pos	29	29	No response	Egg retrieval with 8 unfertilized eggs for cryopreservation and embryo cryopreserv
Addison, POI	30	30	No response	Not yet completed

Summary

None of the 7 Addison patients patients responded to ovarian stimulation <u>prior</u> to rituximab treatment.

5 of 7 patients responded with spontaneous menstrual bleedings.

In 5 women mature eggs were harvested, 3 for oocyte cryopreservation and 2 for embryo preservation.

Questions

 Early oocyte (ovarian) cryopreservation for all female APS-1 patients?

 Will Rituximab work for APS-1 patients with POI?

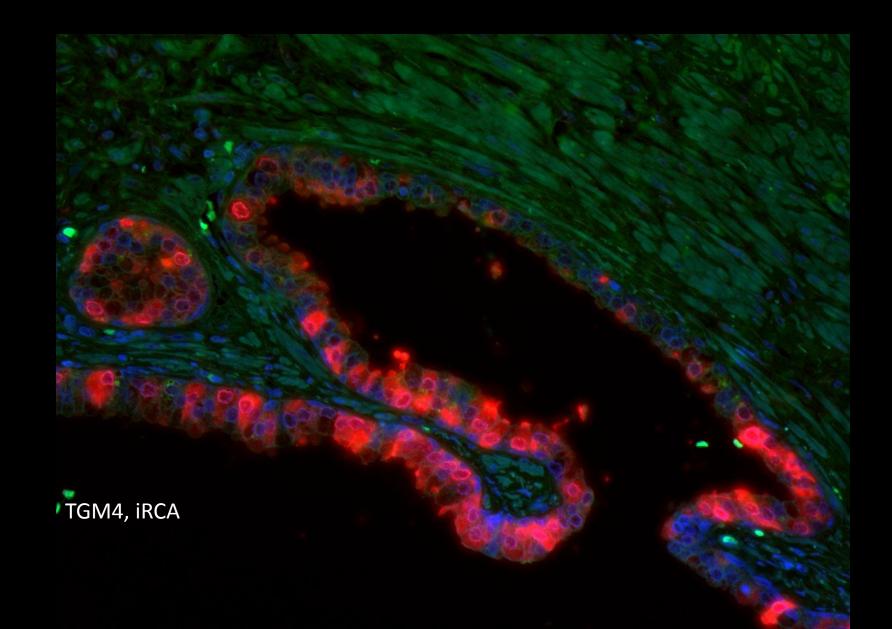
 Early sperm cryopreservation for all APS-1 patients?



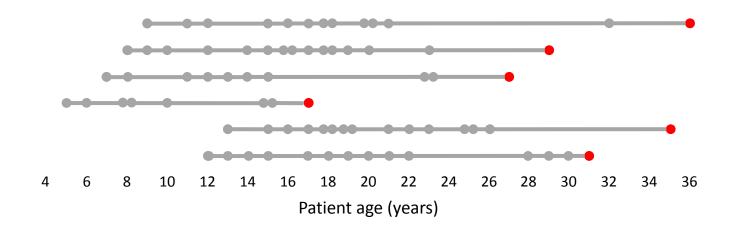
Development of TGM4 antibodies in male APS-1 patients



Antibodies aginst Prostate in male

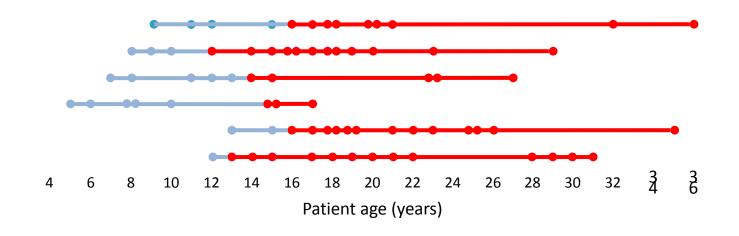


Development of TGM4 autoantibodies with age





TGM4 autoantibodies develops during puberty







Questions

 Early oocyte (ovarian) cryopreservation for all female APS-1 patients?

 Early sperm cryopreservation for all male APS-1 patients?

