

## **Elevated AMH in PCOS** - studies published so far -Year No **PCOS Author** Controls Cook 2002 $2.4 \pm 0.2 \,\mu\text{g/l}$ $5.3 \pm 0.7 \,\mu\text{g/l}$ 2003 Pigny 104 $2.9 \pm 0.3 \,\mu\text{g/l}$ $6.6 \pm 0.4 \,\mu\text{g/l}$ 2004 Laven 109 $2.1 \pm 0.6 \,\mu\text{g/l}$ $7.6 \pm 1.8 \,\mu\text{g/l}$ 170 Piltonen 2005 $2.4 \pm 0.2 \,\mu\text{g/l}$ $8.1 \pm 0.8 \,\mu\text{g/l}$

Eldar-Geva

La Marca

Wachs

2005

2006

2007

52

34

27

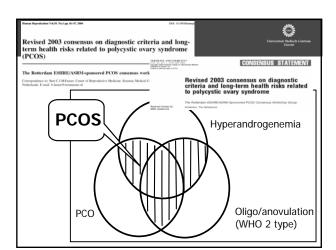
Broekmans, 2008, submitted

 $1.6 \pm 0.8 \,\mu\text{g/l}$   $5.1 \pm 1.3 \,\mu\text{g/l}$ 

 $3.5 \pm 1.5 \,\mu\text{g/l}$   $7.4 \pm 1.7 \,\mu\text{g/l}$ 

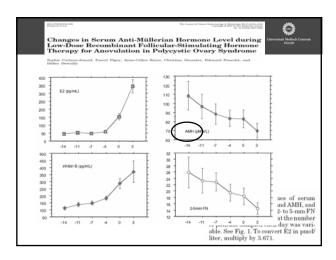
 $2.1 \pm 0.4 \,\mu\text{g/l}$   $7.2 \pm 0.5 \,\mu\text{g/l}$ 

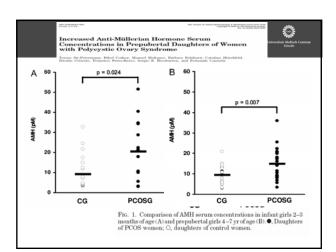
2-3 fold increase

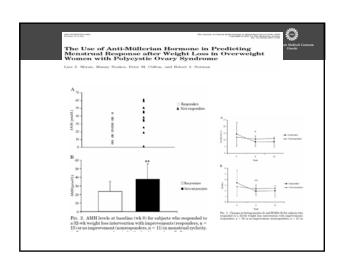


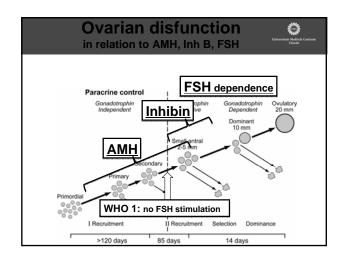
## **Accuracy of AMH to predict PCO** AMH threshold level Sensitivity Specificity (pmol/liter) (%) (%) 50 80 80 60 67 92 70 56 98

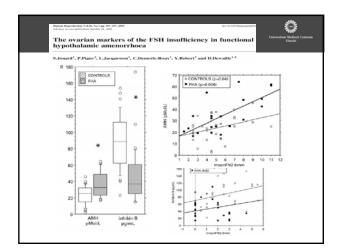
Pigny, JCEM 2006

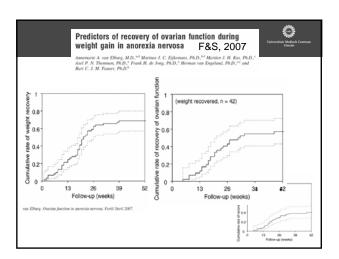


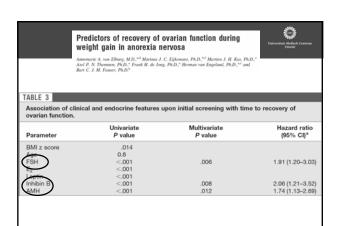


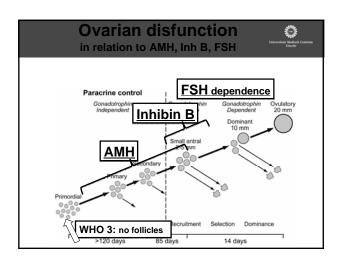


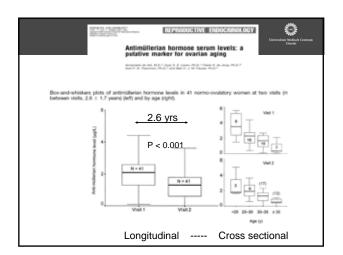


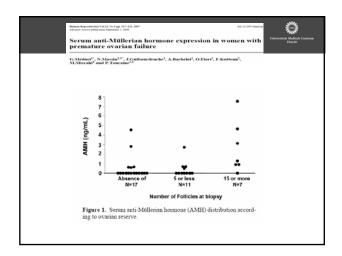


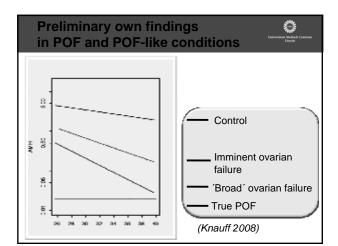


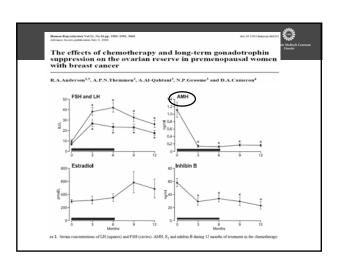


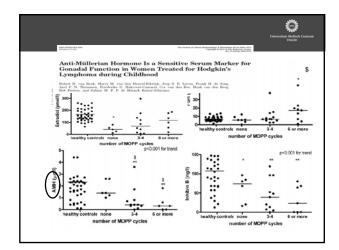


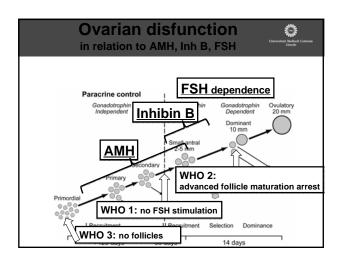












## AMH seems like a useful marker to assess ovarian disfunction in women presenting with oligo/amenorrhea AMH in PCOS may be used to assess the extent of ovarian disfunction may replace ultrasound for PCO diagnosis may predict response to intervention (weight reduction, OI, IVF?) may identify affected sibs of patients AMH may predict and monitor extent of ovarian damage due to chemotherapy High quality commercially available AMH assay!!



