

Anti-Mullerian Hormone (AMH)



The 'crystal ball' for women

Test Details

- Test Name AMH
- Technology EIA
- Sample Instruction 2 ml of Serum
- Test Schedule Daily - 7am
- Reported on Same Day - 5pm

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Anti-Mullerian Hormone (AMH)



**The 'crystal ball' for women
Not just an ovarian reserve marker....**

....But also,

A Diagnostic & Prognostic

Prediction of age of menopause¹

- Using age and **AMH**, the age range in which menopause will subsequently occur can be individually calculated
- Individualized age related fertility information and prevention of menopause-related conditions, like cardiovascular disease and breast carcinoma

Diagnose Polycystic Ovaries & PCOS²

- **AMH** is a more reliable marker than FN (number of follicles per ovary)
- A serum **AMH** level of **>5ng/ml** is more sensitive and specific than a FN >19

Marker in Non - IVF Setting

Use in Onco-fertility³

- Women whose **AMH** before treatment is low (**below 0.4 ng/mL**) are 16 times likelier to have stopped menstruating after chemotherapy
- Women whose **AMH** before chemotherapy exceeds **0.92 ng/mL** are reportedly almost five times more likely to continue menstruating after treatment

....And also,

A Predictive marker in IVF setting

Controlled Ovarian Stimulation (COS) - AMH can predict:

Poor Response

- **AMH** fares better than age and FSH in predicting poor response⁴
- A level of **2 pmol/l or 0.3 ng/ml** is indicative of poor response⁴ (based on study in Indian women)
- Though no woman should be excluded from IVF program, she can be counseled regarding avoidance of repeated cycles of IVF if first cycle confirms poor response

Hyper-response/OHSS

- **AMH** based approach may result in minimization of the risk of OHSS and increased cost effectiveness
- Basal **AMH** levels of approximately **>= 3.5 ng/ml** are predictive of hyper-response /OHSS with high sensitivity and specificity⁵
- The sensitivity and specificity of **AMH** are **82 & 76%** respectively as compared with 82 & 80% respectively, for AFC⁶

AMH as predictor of live birth after COS

- Extremely low levels of **AMH** are associated with non-pregnancy⁷
- **AMH** and age are independent predictors of live birth⁸

References

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4. Ruma Satwik et al. Journal of Human Reproductive Sciences; 2012: 206-212

References

5. Fiedler and Ezcurra Reproductive Biology and Endocrinology 2012, 10:32
6. Loh and Maheshwari. Human Reproduction; 2011: 1-8
7. La Marca et al. Reprod BioMed Online 2011; 22:341–349
8. Khader et al. Journal of Ovarian Research 2013, 6:3