



**Yale University School of Medicine**

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CLIA #s 07D1029962/07D1062397; State of Connecticut Laboratory #s CL-0641/0653

8/28/2015

Via email and First Class Mail

XX, M.D.

XX

XX

Re: XX, Bx#: XX

Dear Dr. XX,

We have completed our Endometrial Function Test® (EFT®) analysis of your patient’s mock cycle biopsy that you performed on 8/13/2015 and that we received on 8/19/2015. Our EFT results are as follows:

Clinical BT: B Clinical Date: 25 Cycle day by LH surge (d13): Cycle day by P (1st full day = d14): 25

**Histologic Dating**

Overall (stromal) Date: 24 (normal is within 2 days of cycle day)  
Gland Date: (dating of dyssynchronous glands, if present)  
% Glands at Date: (upper limit of normal is < 30% dyssynchronous glands)

**Dating comments:**

Apoptotic figures: None identified. Mitotic figures: None identified.

Patient’s age: 28 Patient’s BMI: 21 Gest Hx: G4 P0 SAB Bchm4 Prem Ect ART Hx: IVF0 FET1 IUI3 D

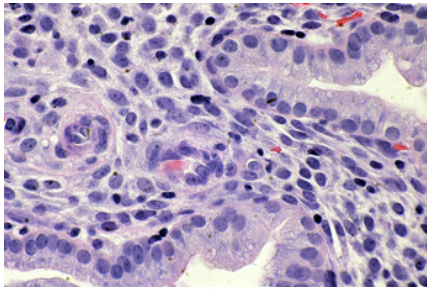
**Endometrial Function Test® (EFT®) Panel**

1° Antibody	Result	% Glands MAG Positive	Gland Cytoplasm	Gland Nuclei	Comment
CycE	neg		70	5	Normal for histologic dating.

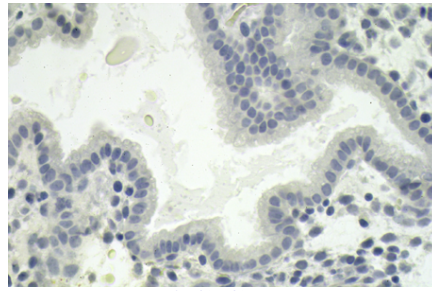
Please note that as of May 1, 2004 our upper limit of normal for nuclear cyclin E in luteal biopsies has been increased from 10% to 20%, which was established by ROC analysis of fertile normal controls compared to biopsies from infertile women. See the following chart for our current grading system:

Luteal nuclear cyclin E ≤ 20%	Normal	Luteal nuclear cyclin E = 30%	Mild GDA
Luteal nuclear cyclin E = 40%	Moderate GDA	Luteal nuclear cyclin E = 50%	Marked GDA
Luteal nuclear cyclin E >50%	Extreme GDA	Luteal cytoplasmic cyclin E is not relevant for grading	

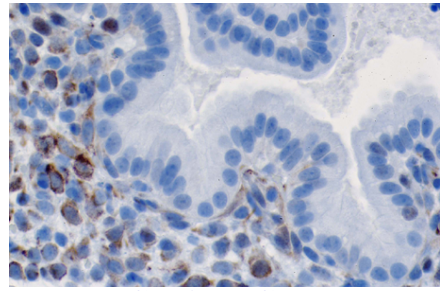
### Control and Patient Photomicrographs



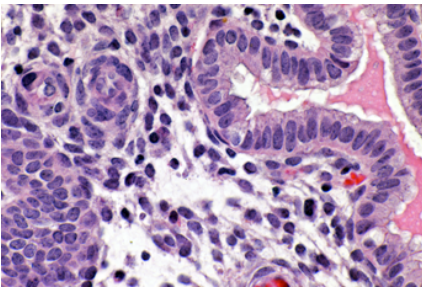
HE Control



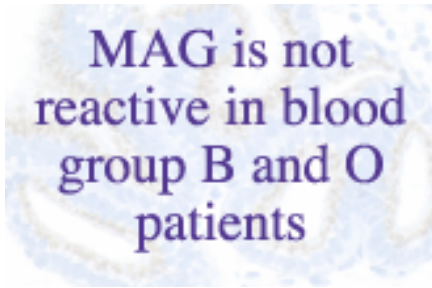
MAG Control



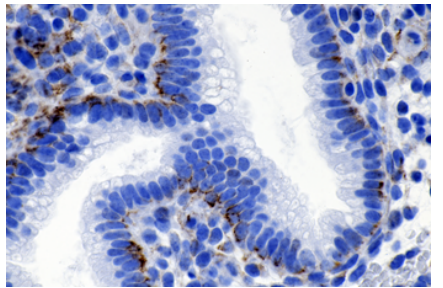
Cyclin E Control



Patient's HE



Patient's MAG or Other Image



Patient's Cyclin E

The top row of images are cycle day specific controls for standard HE staining (left), MAG reactivity (center) and cyclin E (right). The bottom row of images are from our studies of your patient. Representative areas have been chosen and may not reflect all aspects of our findings. Please note that patients who are not blood group A or AB will not have a MAG image in the above results. If warranted, other images—which will be described below—may be found in the middle bottom row. Please refer to the table on the first page, as well as the narrative comments below, for our interpretation of these results.

#### Interpretation

Histologically this biopsy is very close to the cycle day as determined by P administration. There is no evidence of glandular-stromal dyssynchrony.

Cyclin E is normal for histologic dating.

**In spite of the fact that this patient's d15 biopsy showed advanced p27 results, her endometrial development normalized by the time she reached the luteal phase, suggesting that this endometrium has developed normally and is likely to be receptive.**

This test was developed and its performance characteristics determined by the Reproductive and Placental Research Unit, Yale University. It has not been cleared or approved by the U.S. Food and Drug Administration. Please note that the FDA does not require tests such as the EFT<sup>®</sup> to be cleared or approved.

Sincerely,

Harvey Kliman, M.D., Ph.D.