



***Yale University School of Medicine***

Reproductive and Placental Research Unit  
Department of Obstetrics and Gynecology  
15 York Street, LCI 803  
New Haven, Connecticut 06510 &  
161 Ford Road, Woodbridge, CT 06525  
203 785-3854  
203 785-7642 (lab), 203 737-4397 (fax)  
<http://klimanlabs.yale.edu>  
harvey.kliman@yale.edu

*Harvey J. Kliman, M.D., Ph.D.*

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

**6/5/2015**

***Via First Class Mail***

David XX, M.D.  
XX  
XX  
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 **5/18/2015** and that we received on **5/19/2015**. Our EFT results are as follows:

Clinical BT: **A** Clinical Date: **16** Cycle day by LH surge (d13): Cycle day by P (1<sup>st</sup> full day = d14): **16**

***Histologic Dating***

Overall (stromal) Date: **15**

(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:** Normal numbers noted.

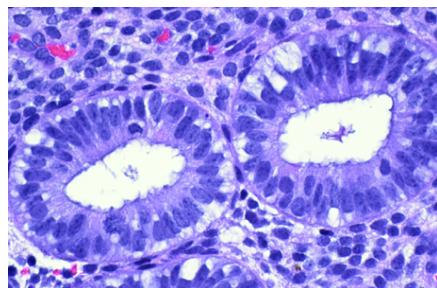
Patient's age: 42 Patient's BMI: 20 Gest Hx: G1 P0 SAB1 Bchm Prem Ect

ART Hx: IVF1 FET2 IUI Do

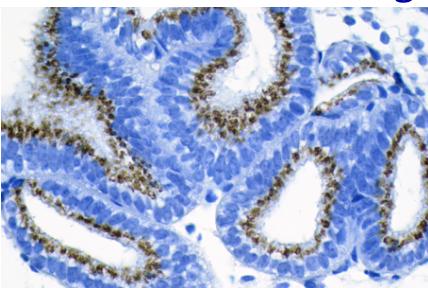
***Endometrial Function Test® (EFT®) Panel***

1° Antibody Result	% Glands MAG Positive	Gland Cytoplasm	Gland Nuclei	Comment	
A	pos				▲
C30	pos	60		Normal for histologic dating.	▼
CycE	pos	95	5	Within normal limits for histologic dating.	▼
p27-D	pos	0	50	Pattern is more consistent with cycle day 18.	▼
PgR	pos	0	90	Normal for histologic dating.	▼

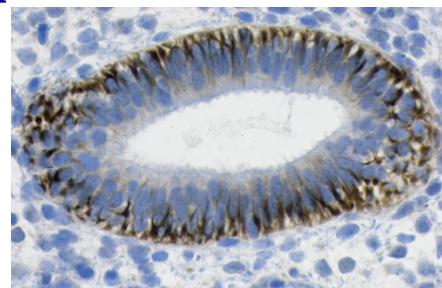
### Control and Patient Photomicrographs



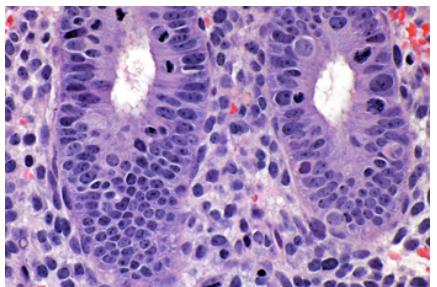
HE Control



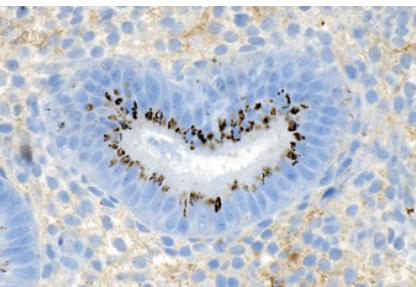
MAG Control



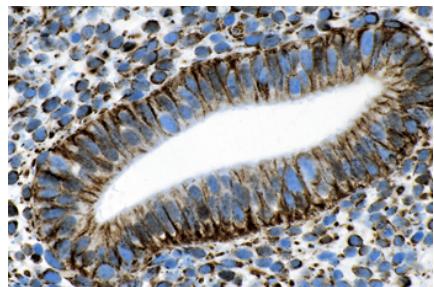
Cyclin E Control



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.

PR is normal for histologic dating.

MAG is normal for histologic dating.

Cyclin E is within our normal limits for histologic dating.

However, p27 is advanced (see lower middle image), being more consistent with cycle day 18. This pattern is consistent with either a too premature P action, or a too potent P response to an appropriate amount of P.

Full interpretation awaits analysis of the second biopsy of this cycle.

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® to be cleared or approved.

Sincerely,

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