



**Yale University School of Medicine**

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

5/5/2001

**Via Fax: 555-555-1212 and First Class Mail**

John Smith, M.D.  
General Reproductive Services  
111 Anyplace Street  
Anywhere, US 11111

**Re: Jane Doe, Bx#: K01-002**

Dear Dr. Smith,

We have completed our Endometrial Function Test (EFT) analysis of your patient’s mock cycle biopsy that we received on **2/8/2001**. Please find below the EFT results of our studies:

Stated Clinical Date: **24**    Cycle day by LH surge (d13):                    Cycle day by P (P start = d14):                    **23**

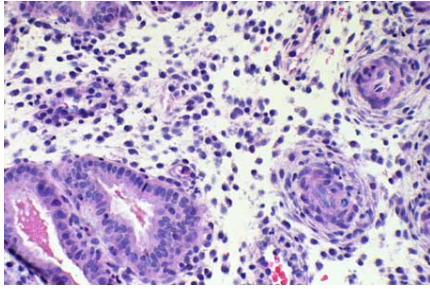
**Histologic Dating**

Overall Date:                    **23-24**  
Gland Date:                    **18**  
% Glands at Date:            **40**  
Dating comments:            Significant glandular-stromal dyssynchrony.  
Patient’s BMI:                33.6

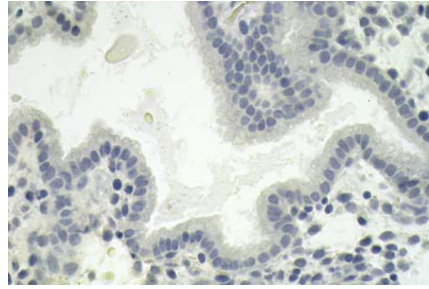
**Endometrial Function Test (EFT) Panel**

1° Antibody	Result	% Glands MAG Positive	Gland Cytoplasm	Gland Nuclei	Comment
A	pos				
B	neg				
O	neg				
PR	neg		0	0	Normal for histologic dating.
C30	pos	40			Pattern is more consistent with cycle day 18.
CycE	pos		20	50	Pattern is more consistent with cycle day 18-9.
p27	pos		0	95	Normal for histologic dating.

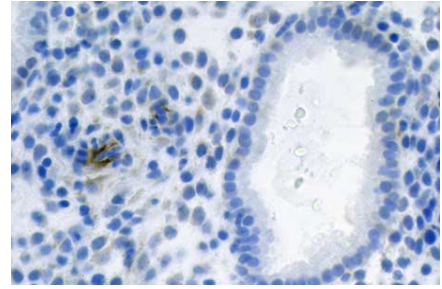
### Control and Patient Photomicrographs



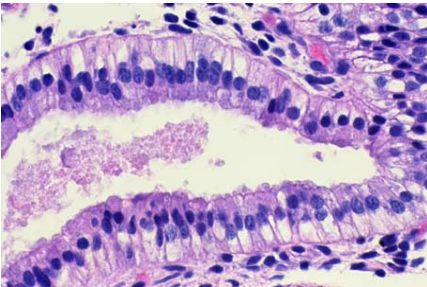
**HE Control**



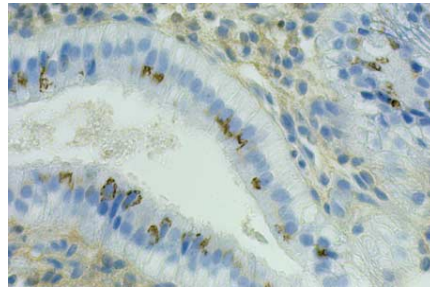
**MAG Control**



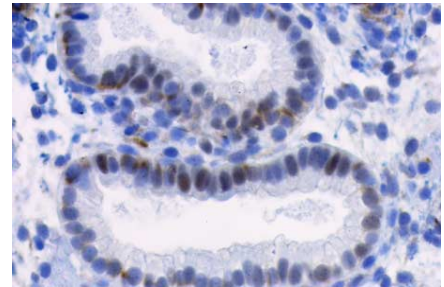
**Cyclin E Control**



**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 has a significant degree of glandular-stromal dyssynchrony. Cyclin E and MAG show inappropriate staining in the glands consistent with a cycle day of 18-19, not the day 23-4 seen in the stroma. Review of this patient's first biopsy of this cycle shows decreased MAG expression, an E responsive marker, suggesting that E exposure may not have sufficiently developed P receptors and primed the endometrium. Increased E priming and sufficient, but gradual P, may improve this patient's endometrium.

Thank you for allowing us to examine this endometrial biopsy and add these results to our growing research database. Please feel free to contact me if you have any questions or comments related to the above results.

Sincerely,

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