

### INSTRUCTIONS ON THE ANNOTATION OF PDF FILES

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HOW TO				
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Remove text	Click the 'Text Edits' button Text Edits on the Commenting tool bar. Click and drag over the text to be deleted. Then press the delete button on your keyboard. The text to be deleted will then be struck through.	Click the 'Strikethrough (Del)' icon on the Comment tool bar. Click and drag over the text to be deleted. Then press the delete button on your keyboard. The text to be deleted will then be struck through.		
Highlight text/ make a comment	Click on the 'Highlight' button on the Commenting tool bar. Click and drag over the text. To make a comment, double click on the highlighted text and simply start typing.	Click on the 'Highlight Text' icon on the Comment tool bar. Click and drag over the text. To make a comment, double click on the highlighted text and simply start typing.		
Attach a file	Click on the 'Attach a File' button on the Commenting tool bar. Click on the figure, table or formatted text to be replaced. A window will automatically open allowing you to attach the file. To make a comment, go to 'General' in the 'Properties' window, and then 'Description'. A graphic will appear in the PDF file indicating the insertion of a file.	Click on the 'Attach File' icon on the Comment tool bar. Click on the figure, table or formatted text to be replaced. A window will automatically open allowing you to attach the file. A graphic will appear indicating the insertion of a file.		
Leave a note/ comment	Click on the 'Note Tool' button Note Tool on the Commenting tool bar. Click to set the location of the note on the document and simply start typing. Do not use this feature to make text edits.	Click on the 'Add Sticky Note' icon on the Comment tool bar. Click to set the location of the note on the document and simply start typing. <u>Do</u> not use this feature to make text edits.		

HOW TO				
Action	Adobe Reader version 9	Adobe Reader version X and XI		
Review	To review your changes, click on the 'Show' button on the Commenting tool bar. Choose 'Show Comments List'. Navigate by clicking on a correction in the list. Alternatively, double click on any mark-up to open the commenting box.	Your changes will appear automatically in a list below the Comment tool bar. Navigate by clicking on a correction in the list. Alternatively, double click on any mark-up to open the commenting box.		
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Save the annotations to your file and return as instructed by Elsevier. Before returning, please ensure you have answered any questions raised on the Query Form and that you have inserted all corrections: later inclusion of any subsequent corrections cannot be guaranteed.

#### FURTHER POINTS

- Any (grey) halftones (photographs, micrographs, etc.) are best viewed on screen, for which they are optimized, and your local printer may not be able to output the greys correctly.
- If the PDF files contain colour images, and if you do have a local colour printer available, then it will be likely that you will not be able to correctly reproduce the colours on it, as local variations can occur.
- If you print the PDF file attached, and notice some 'non-standard' output, please check if the problem is also present on screen. If the correct printer driver for your printer is not installed on your PC, the printed output will be distorted.

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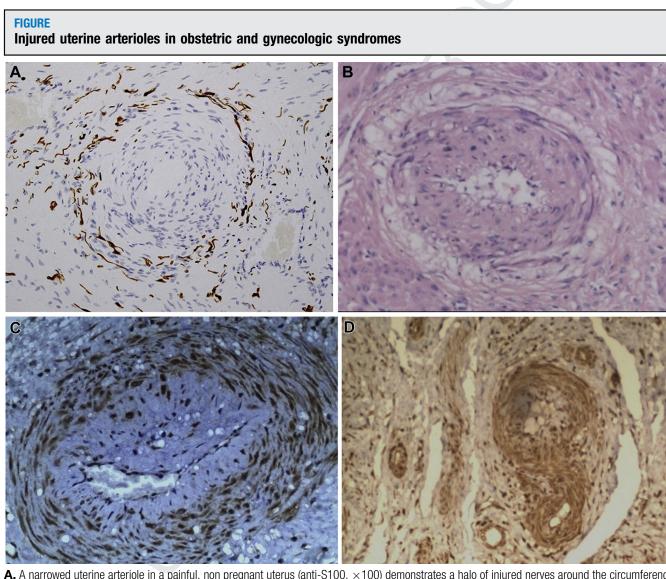
REPLY

In 1953, Sophian reported experiments inflating balloons in rabbit uteri and watching their kidneys turn white; he released the stretch, and renal blood flow was promptly restored.<sup>1</sup> Dividing the uterorenal nerves abolished the reflex. He proposed that activating uterorenal nerves (cf, cardiorenal, hepatorenal, lienorenal, etc) was the mechanism for renal cortical ischemia in preeclampsia. On his evidence, preeclampsia is a disorder of uterine stretch.

Two recent observations have prompted renewed interest in this hypothesis.<sup>2–4</sup> First, prepregnancy injuries to uterine

vasomotor nerves release cytokines and growth factors that result in the regeneration of abnormal injured nerves and hyperplasia of adjacent, denervated, arteriolar walls in pre-eclampsia<sup>2</sup> (Figure, A and B). 

Second, these injuries induce specific, purinergic, P2X3, stretch receptors in the walls of uterine arterioles, providing a direct mechanism for activating uterorenal nerves that redis-tribute renal blood flow from the cortex to the medulla<sup>1,3</sup> (Figure, C and D). Removal of the stretch at delivery reverses these renal effects, and the hypertension resolves promptly. 



A, A narrowed uterine arteriole in a painful, non pregnant uterus (anti-S100, ×100) demonstrates a halo of injured nerves around the circumference of a narrowed arteriole with irregular hyperplasia of the tunica media. B, A narrowed, uterine arteriole in a pregnant uterus demonstrates a halo of hyalinized cells around the circumference of an injured arteriole with irregular hyperplasia of the arteriolar wall (hematoxylin and eosin, ×100). During pregnancy, injured nerves cannot extend from the isthmus of the uterus to the placental bed, although the injured arterioles and nerve sheaths can do so, accounting for the similar, although different, appearances in pregnant (B) and nonpregnant (A) uteri. C and D, Purinergic, P2X3, stretch receptors (brown) are induced in arteriolar walls and injured myometrium in pregnancy hysterectomy specimens removed for postpartum hemorrhage 

### ARTICLE IN PRESS

## Letter to the Editors

Does Professor Brosens consider a prepregnancy injury to The authors report no conflict of interest. uterin placen better drom 118 <u>2</u> M. J. ( Depart Shangl School Intern 910 H Xujiah Shangl mjquir 

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Quinn, MD, LLM tment of Obstetrics and Gynecology		174
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