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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.		
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- 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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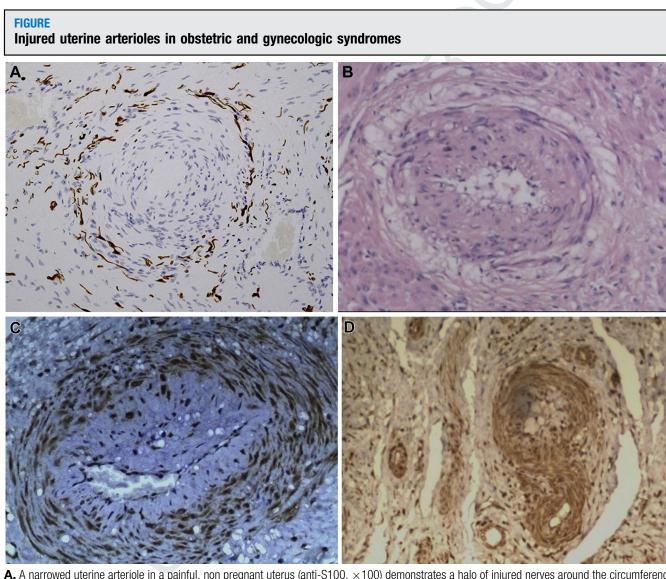
REPLY

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.¹ 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.^{2–4} 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-eclampsia² (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^{1,3} (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

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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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