Why don’t all women with preeclampsia with severe features develop pulmonary edema?

We thank Jha and Jha for their comments on our work. The determinants of myocardial and pulmonary edema, are likely multifactorial. The goal of this study, however, was to address the conflicting results in the echocardiography literature suggesting a degree of reduced left ventricular ejection fraction (LVEF) detected using various methods of LVEF quantification. We selected cardiac magnetic resonance imaging (MRI) to assess the LVEF for its superior volumetric assessment and high degree of interobserver correlation. Currently, MRI-based strain imaging is investigational without a clinical indication for use. Therefore, the finding of a normal LVEF on cardiac MRI in all groups, confirms that overtly reduced LVEF is not the cause of pulmonary edema.

We expected to find a stark difference between women with preeclampsia complicated by pulmonary edema and those without pulmonary edema. Instead, the MRI findings in all women with preeclampsia with severe features were similar, and they differed significantly from women with preeclampsia without severe features and normotensive controls. Jha and Jha note that the left atrial volumes indexed to body surface area (LAVI) were above the echocardiographically derived cutoff of 34 mL/m², which could suggest diastolic dysfunction in the women with pulmonary edema. The left atrial volumes reported were cardiac MRI-derived volumes, however, and the LAVI in all groups fell below 39 mL/m², which is the normal mean LAVI for women on MRI.

The suggestion that pulmonary edema occurs on the basis of the severity of hypertension is not supported by our findings. Women with pulmonary edema had the highest mean systolic pressures, and women with severe features of HELLP (hemolysis, elevated liver enzymes, low platelet count) syndrome and eclampsia had the highest diastolic pressures; however, there was no statistically significant difference between these 2 groups. The difference in blood pressures was driven by the relatively lower blood pressures in the group having preeclampsia without severe features and normotensive controls.

As a condition characterized primarily by endothelial dysfunction, a degree of increased capillary permeability is expected in preeclampsia. Although women having preeclampsia with severe features are thought to have more severe endothelial dysfunction, it is not clear whether endothelial dysfunction and capillary permeability are more abnormal in one manifestation of preeclampsia with severe features than another. We feel that this neither satisfactorily differentiates the groups nor conclusively describes the mechanism underlying pulmonary edema. Indeed, the question may not be why some women with preeclampsia develop pulmonary edema but rather why all women with preeclampsia with severe features do not.

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Social media campaign and research program to address COVID-19 vaccine hesitancy in pregnancy: correspondence

TO THE EDITORS: We would like to share our ideas on the publication titled “One Vax Two Lives: a social media campaign and research program to address COVID-19 vaccine hesitancy in pregnancy.” Marcell et al reviewed...
the lessons learned in the campaign and how the most effective elements might be applied to relevant areas of maternal public health.\textsuperscript{1} We can all agree that vaccine apprehension with regard to COVID-19 vaccine’s detrimental effects is a substantial issue which, if not addressed, may have an impact on other commonly used vaccines and healthcare services. It is critical to stress that a person’s decision to receive the COVID-19 vaccine can be influenced by a number of circumstances, including the location and severity of the outbreak. The level of trust people have in their local public health system impacts their propensity to adopt the vaccine.

Their willingness to implement public health measures during the COVID-19 outbreak was influenced by their level of faith in their local public health system.\textsuperscript{2} Adoption rates may further alter considerably when additional information on the efficacy and safety of various vaccine types becomes available.\textsuperscript{2} According to a Hong Kong–based study, people’s preferences may alter with time.\textsuperscript{3} Instead of the traditional cross-sectional or retrospective study on document design, a longitudinal study paradigm should be used to analyze the outbreak’s repercussions and the factors associated with immunization.

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