Reviewer's report

Title: Relationship between serum uric acid and internal carotid resistive index in hypertensive women: a cross-sectional study

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Reviewer: Leonardo Zornoff

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In this study, Cipolli et al investigated the relationship between SUA and carotid structural and hemodynamic parameters in hypertensive men and women. They showed that SUA was associated with ICRI in hypertensive women, suggesting that SUA may be related to intracranial vascular impedance and microangiopathy in this gender. I had some comments:

Uric acid is known to induce proliferation, inflammation and oxidative stress in cultured vascular smooth-muscle cells, promote endothelial dysfunction and activate the renin–angiotensin system. Therefore, would be interesting to study the relationship between SUA and carotid structural and hemodynamic parameters in subjects without hypertension. However, only hypertensive patients were studied. Please justify.

In the regression analyses (stepwise and logistic regression analyses), the authors should justify the different variables utilized as confounders.

Declaration of competing interests:

I declare that I have no competing interests.