Are Antidepressants Associated with Gestational Hypertension?

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Editorial

The most commonly used psychotropic drugs during pregnancy are antidepressants. As a consequence of increasing usage [1], data on their effects on mothers and their fetuses have markedly increased in the last decade. However, many aspects on this topic have been remained unclear.

Hypertensive disorders during pregnancy are relatively frequent and associated with increased risk of morbidity and mortality [2,3]. Most recently, several studies have examined the relationship between the usage of antidepressants and gestational hypertension or preeclampsia. Toh et al. [4] reported that Selective Serotonin Reuptake Inhibitors (SSRIs) are associated with 3.2 fold increased risk of gestational hypertension. Nevertheless, the authors did not exclude the contribution of depression towards the hypertension. De Vera et al. [5] found a 53% increased risk of pregnancy-induced hypertension related to antidepressant use during pregnancy, independent of depression or anxiety. Some authors have reported that the risk elevation exists even when antidepressants other than SSRIs are used [6,7]. On the other hand, a meta-analysis suggested that mental stress, depression and anxiety are positively associated with risk of gestational hypertension or preeclampsia [8].

Clearly, the current evidence is inadequate to determine whether antidepressants increase the risk of gestational hypertension independent of depression and anxiety disorders. The available studies examining this topic are mostly based on population databases rather than clinical observational methods. The database studies have severe limitations due to lack of data such as the severity of depression or anxiety disorders in pregnant women, the existence of comorbid psychiatric disorders and doses of antidepressants. The prescription of antidepressants is usually expected in pregnant patients with clinically severe depressive or anxiety disorders. Therefore, the study results should be approached with caution. Further studies based on clinical observations are urgently need on this topic.

References