TITLE : “PREDICTION OF ADVERSE MATERNAL AND FETAL OUTCOME IN PREECLAMPSIA USING A RISK PREDICTION MODEL – PIER’S SCORE”

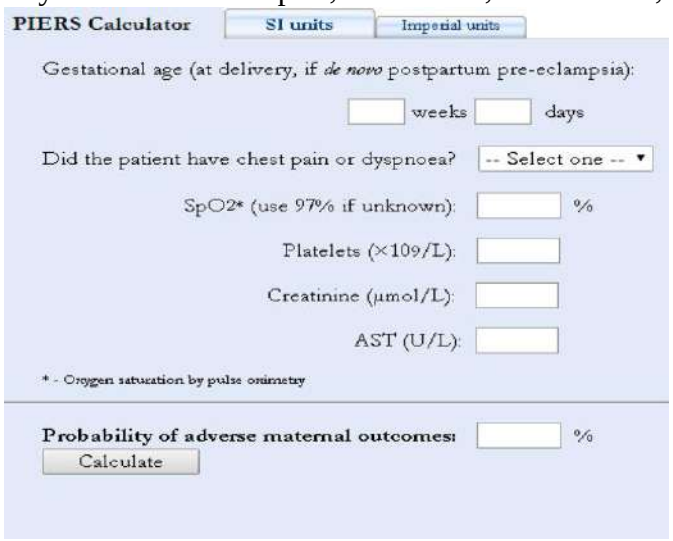
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Abstract (300 word limit)

Preeclampsia (PE) is a pregnancy specific condition and it is the second single leading cause of maternal mortality (14% worldwide, 29.54% in India). 10% of women have Hypertensive disorders in Pregnancy (HDP) and preeclampsia complicates 2% to 8% of pregnancies. Favorable maternal and perinatal outcomes for women with HDPs depend on how soon the condition is identified, how quickly the patient is referred to tertiary care center, accessibility of the patient to reach the center and how quickly the patient is managed. Patients who were admitted and fulfilled the inclusion and exclusion criteria and given consent, were enrolled in the study. The full PIERS calculator was used to calculate the risk of adverse maternal and foetal outcome. All patients were intensively monitored and managed accordingly with anti-hypertensive and steroids for fetal lung maturation in patients needing preterm delivery.

In our study on the patients with hypertensive diseases of pregnancy we found that 33.33% patients developed adverse maternal outcome and application of full PIERS prediction model to the study population showed a p value of <0.05 in prediction of adverse maternal and fetal outcome, which was statistically significant. In our study fullPIERS model was able to predict adverse maternal outcomes in women admitted with HDP. Our findings could guide decision making especially the timing of delivery, planning of transfer to intensive care units for required care and administration of corticosteroid and magnesium sulfate.

Key words- Preeclampsia, full PIERS, mini PIERS, Hypertensive disorders in Pregnancy (HDP)



The final PIERS equation

Recent Publications (minimum 5)

1. Meij E, Herklots T, Yussuf S, et al. Retrospective validation study of miniPIERS prediction model in Zanzibar. Int J Gynecol Obstet. 2021;153:300–306.
2. Thangaratinam, S., Allotey, J., Marlin, N. *et al.* Prediction of complications in early-onset pre-eclampsia (PREP): development and external multinational validation of prognostic models. *BMC Med* 15, 68 (2017). https://doi.org/10.1186/s12916-017-0827-3
3. Shruti Agrawal, Nandita Maitra. Prediction of Adverse Maternal Outcomes in Preeclampsia Using a Risk Prediction Mode, The Journal of Obstetrics and Gynecology of India (September–October 2016) 66(S1):S104–S111
4. Srivastava S, Parihar BC, Jain N. PIERS calculator- predicting adverse maternal outcome in preeclampsia. Int J Reprod Contracept ObstetGynecol 2017;6:1200-5.
5. De Kat AC, Hirst J, Woodward M, Kennedy S, Peters SA. Prediction models for preeclampsia: A systematic review. Pregnancy Hypertens. 2019 Apr;16:48-66. doi: 0.1016/j.preghy.2019.03.005. Epub 2019 Mar 11. PMID: 31056160.

Photograph



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Notes/Comments: