

## Key notes on: **Early detection of clinical deterioration in the pregnant and postpartum woman**

- Early recognition of clinical deterioration may prevent further morbidity and even death
- Clinical deterioration is a change in clinical status that increases the chance of morbidity
- Pregnant and postpartum women may appear well with only subtle signs of illness before sudden severe deterioration – signs and symptoms that are mistaken for ‘discomforts of pregnancy’ lead to a delay in diagnosis
- Respiratory rate is consistently found to be a clinically relevant vital sign regarding deterioration
- Failed or delayed recognition of clinical deterioration is a repeat finding in maternal death reports – along with a poor understanding of severity of illness in maternity patients
- **All maternity services** should be using ‘**track and trigger**’ charting to document regular assessment – E.g. early warning charts/charts using ‘human factors’ to ‘track and trigger’ a response to an abnormal finding – with an associated **process for escalation of care**
- Rapid Response Teams/Medical Emergency Teams/Critical Care Outreach/ICU liaison nurses – may play an important role in responding to an evolving emergent clinical problem – and members of these teams need to have an understanding of maternity physiology and pathophysiology
- Request senior staff involvement early if a woman deteriorates/becomes sick – obtain a second opinion if you feel the response to the woman’s condition is inadequate

### Key resources/recommended reading

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Carle C, Alexander P, Columb M, Johal J. Design and internal validation of an obstetric early warning score: secondary analysis of the Intensive Care National Audit and Research Centre Case Mix Programme database. *Anaesthesia*. 2013;68:354-67.

Clinical Human Factors Group – see <http://chfg.org/> for resources and to watch:

‘Just a routine operation’ - <http://chfg.org/learning-resources/just-a-routine-operation-teaching-video>

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Siassakos D, Fox R, Bristowe K, Angouri J, Hambly H, Robson L, et al. What makes maternity teams effective and safe? Lessons from a series of research on teamwork, leadership and team training. *Acta Obstetrica et Gynecologica Scandinavica*. 2013;92:1239-43.

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