



**PATIENT DETERIORATION:  
ANTICIPATE, RECOGNIZE & RESPOND**

*THIS SERIES EXPLORES TOPICS AT THE LEADING EDGE OF INNOVATION, WITH THE GREATEST POTENTIAL TO HAVE A MAJOR IMPACT IF IMPLEMENTED AT SCALE*

Recently, Cynosure Health's critical care subject matter expert, **Maryanne Whitney MSN, CNS** facilitated an exploration of deterioration and two potential strategies to better prevent and respond to clinical deterioration with panelists **Brian Alex Dummett, M.D., CPPS** from Kaiser Mid-Atlantic States and **Dan Davis, MD** Emergency Physician and CEO at Medical X Technologies, to decrease patient harm and improve patient outcomes in the medical surgical departments.

**KEY TAKEAWAYS:**



- Effective rapid response systems must include:
  - An **Afferent arm** (monitors, alerts, triggers, etc.),
  - An **Efferent arm** (interventions, rescue teams, etc.) and also,
  - A **Leadership arm** that provides resources for training, equipment, accountability, etc.) and
  - A **Quality arm** (data collection and improvement)



- **Focus on people**- Change belief systems to change behavior to find the sweet spot between the humans caring for patients and the technology interface to better anticipate, identify, and intervene for patients who are deteriorating



- **Goals of care discussions** are essential early in hospital stays to intervene appropriately
- **Patients and families need to be included** in the afferent arm of rapid response systems



- ART (Advanced Resuscitation Training) is not just a PPT it is a system of care throughout an organization
- AAM (Advanced Alert Monitoring) provides virtual monitoring and non-punitive support for the staff caring for patients



- Most often patients do not suddenly deteriorate; we suddenly notice
- **Start small- DO SOMETHING!**

Resources:

- Olsen, S. L., Søreide, E., Hillman, K., & Hansen, B. S. (2019). Succeeding with rapid response systems—a never-ending process: A systematic review of how health-care professionals perceive facilitators and barriers within the limbs of the RRS. *Resuscitation*.
- Lyons, P. G., Edelson, D. P., & Churpek, M. M. (2018). Rapid response systems. *Resuscitation*, 128, 191-197.
- Dummett, B. A., Adams, C., Scruth, E., Liu, V., Guo, M., & Escobar, G. J. (2016). Incorporating an early detection system into routine clinical practice in two community hospitals. *Journal of hospital medicine*, 11, S25-S31.