

# New Deterioration Index (DI) Predictive Model

Go Live: **October 13, 2020**

**Who?** All care providers

**What?** *Inpatient Workflow for Early Detection of Clinical Deterioration*

The **primary nurse** will see a Best Practice Alert (BPA) and receive a push notification that alerts the RN to deteriorating clinical conditions. **All clinicians** will be able to view and use the DI score to support care prioritization and decision-making.

**Why?** Identifying clinical deterioration early provides an opportunity for early intervention and may reduce adverse events and mortality.

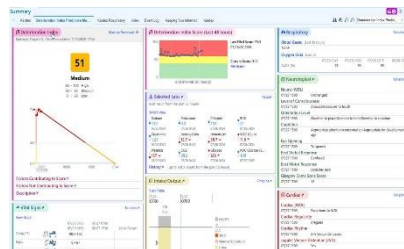
**Key Points:**

- The DI is one of several EPIC-based predictive models
- The score looks at discrete data points, including vital signs, nursing documentation (like GCS score), cardiac rhythm, O2 therapy, and labs
- DI will **replace MEWS**
- The DI score will be visible to all providers in patient lists (must be added manually) and a summary report
- The RN will be alerted via BPA or Push Notification if patient has:

- a total score of 60 or greater (an 80% chance a patient will experience an adverse event)
- a total score greater than 60 that has been greater than or equal to 60 for 4 hours

- BPA/Push Notifications will not be generated for pediatric patients, patients with an emergency patient class, patients in ICU, L/D, PMH SNF, procedural areas, dialysis, PACU, or for patients with active comfort care orders
- If the BPA or push notification occurs, assess patient promptly and obtain vital signs
- Repeat abnormal VS within 15 minutes
- Notify the provider if you are concerned about clinical changes and/or initiate a rapid response (RR) if indicated
- Be prepared to discuss specific factors contributing to patient's change in status with provider using standardized reporting structure (e.g. SBAR)

**Summary Report:**



**BPA:**

**Push Notification:**

**Alert report:**

**Patient List:**

Patient	Unit	Room	Admission	Primary Problem	Diagnosis	Admission	Discharge	Referral	Other
1215-1	1215	1215	1215	Adult Inpt Surg	1215	1215	1215	1215	1215
1215-2	1215	1215	1215	Adult Inpt Surg	1215	1215	1215	1215	1215
1215-3	1215	1215	1215	Adult Inpt Surg	1215	1215	1215	1215	1215
1215-4	1215	1215	1215	Adult Inpt Surg	1215	1215	1215	1215	1215
1215-5	1215	1215	1215	Adult Inpt Surg	1215	1215	1215	1215	1215

**For more information or questions:** Dr. Stephen Funkhouser, Dr. Clyde Harris, Dr. Charmaine Lewis, Dr. Greg Hall, Dr. Michael Pietrangolo, Carolyn Brown, RN, Celeste Beal, Kellie Duval, RN, Amanda Henderson, RN, Ruth Marescalco, RN, Alana McKeever, RN, Linda Oots, RN, Jessica Scarborough, RN, Sheila Stringfield, RN, Christine Vayo, RN, Jenny Walters, RN, John Williams-Wyant, RN