



Real Time Quality Initiatives Dashboard Within the Electronic Medical Record

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Background

The organization's commitment to innovating care delivery and improving outcomes capitalized on the opportunity to leverage new technology within the electronic medical record (EMR). Quality indicators such as ventilator acquired pneumonia bundle compliance (VAP), vaccine compliance (Influenza and Pneumococcal), catheter associated urinary tract infections (CAUTI), falls, and hospital acquired pressure ulcers were generally reviewed retrospectively, resulting in a missed opportunity to improve practice in real time.

Results

The QI dashboard has strengthened operations in clinical workflow and has improved inter-professional team focus on preventing patient harm.

- Decreased falls from 3.61 to 3.03/patient days
- Decreased Hospital Acquired Pressure Ulcers from 1.73 to 0.82/patient days
- Decreased VAP Rate from 0.95 to 0.37/1000 ventilator days
- Decreased CAUTI Rate from 3.5 to 1.8 infections per 1000 catheter days
 - Statistically significant reduction p-value= <0.001
 - Standard deviation decreased from 1.23 to 0.90



Quality Indicators Dashboard within the EMR

Room	Patient	Falls	Pain	Vaccines	Urinary Catheter Days	Skin Risk
2083	Test, Carolyn 123644/123334 06/10/1973 Add Order		1		5	11
2085	Lax, Andrew 54445/4456444 10/10/2001 Add Order		0		3	8
2077	Hockey, Brady 652144/556499 12/11/2004 Add Order		7			14
2078	Baseball, Colin 102558/87553 01/29/2007 Add Order		0		1	13

Patient	Nutrition	Central Line Days	VTE Risk	Restraints	SIRS	VAP
Test, Carolyn 123644/123334 06/10/1973 Add Order		2	H			5 / 5
Lax, Andrew 54445/4456444 10/10/2001 Add Order		2	H	R		4 / 5

Conclusion

- The QI dashboard in the EMR provides immediate, and actionable information for use during patient centered rounding, RN/MD rounding and Hand Off Communication.
- The QI dashboard is a “quick view” of quality indicators and allows direct charting into the patient’s individual record.
- The organization has used the methodology and tools to develop additional dashboards:
 - Anticoagulation,
 - Antimicrobial stewardship,
 - Phenylketonuria management, and
 - Population health.

Contact

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