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Blood Administration Documentation Audit Automation

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[Background]

- Blood administration is a high risk, low volume, complex procedure.
- It has strict regulatory requirements for documentation of at least 15 elements over the course of the procedure.
- There are frequently findings for deficient documentation during survey.
- Manual audits are time consuming and inaccurate.
- Every facility in the Providence system faces the same challenges to audit for compliance.

[Purpose]

- Detect the rate of compliance for documentation of blood administration.
- Replace manual audits, which have proven to have limited impact to increase documentation compliance.

[Methods]

- Identified the required elements of documentation
- Studied the electronic medical record for the location of the documentation.
- Created electronic reports from the Corporate Data Warehouse to retrieve the documentation data.
- Developed visualizations and analysis using PowerBI to understand where documentation was missing.
- Published the report with visualizations as a PowerBI app.

[Results]

- Improved documentation completion compliance
- Brought awareness to the standards for blood administration documentation
- Enabled managers to monitor the rate of compliance is near real-time.
- The report allows managers to understand compliance at various levels of granularity: patient, nurse, unit, campus.
- For units that have adopted the tool, compliance rates have steadily improved. See table for examples.

Examples of Rate of Compliance by Unit

Unit	August 2021	December 2021
Swedish Cancer Institute	76.8%	87.7%
Swedish Orthopedic Institute	80.8%	84.0%
Heme/Onc 12 East	74.8%	88.7%

[Discussion]

- This has simplified the task of auditing for compliance.
- The results are timely (T-1).
- Nurse managers' report tremendous ease of use of the tool.
- Training to use the tool requires less than 15 minutes.
- The tool is available for qualified stakeholders throughout the Providence system.

[Next Steps]

- Continue to socialize the tool throughout the Providence system.
- Continue to refine the tool to meet the needs of individual unit standards and workflows.

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