Blood Administration Documentation Audit Automation

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Blood Administration Documentation Audit Automation

Tonya Lawson, BSN, RN; Harriette Lober, BSHI; Andrea Nordmark, MT(ASCP)

[ 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.

[ 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.

[ 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.

[ 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.

Examples of Rate of Compliance by Unit

<table>
<thead>
<tr>
<th>Unit</th>
<th>August 2021</th>
<th>December 2021</th>
</tr>
</thead>
<tbody>
<tr>
<td>Swedish Cancer Institute</td>
<td>76.8%</td>
<td>87.7%</td>
</tr>
<tr>
<td>Swedish Orthopedic Institute</td>
<td>80.8%</td>
<td>84.0%</td>
</tr>
<tr>
<td>Heme/Onc 12 East</td>
<td>74.8%</td>
<td>88.7%</td>
</tr>
</tbody>
</table>