Improving follow up of anemia screening laboratory results at pediatrics visit


Disclosures
All authors have nothing to disclose.
Introduction

• Anemia screening is widely implemented at well-child visits.

• Little data is available regarding how the results of anemia screening are followed up.

Primary aim:
Increase documentation of laboratory results follow-up to 60% for complete blood counts (CBC) drawn at 1-year-old well-child visits by 03/01/2020 at East Carolina University Pediatric Outpatient Clinic.

Secondary aim:
100% follow-up of abnormal CBC results and decrease the average length of time for documentation to 2 days.
Methods

• The quality improvement project was implemented via PDSA cycles (figure 1).
• Retrospective data collection was completed via chart review.
• A total of 179 test results were analyzed.

**Primary outcome:** The percentage of interpreted and documented results.

**Secondary outcomes:** The percentage of documented abnormal lab results, and the length of time until documentation.
# Results

<table>
<thead>
<tr>
<th></th>
<th>Baseline</th>
<th>PDSA Cycle 1</th>
<th>PDSA Cycle 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>The number of lab results</td>
<td>65</td>
<td>45</td>
<td>69</td>
</tr>
<tr>
<td>Labs followed up percentage</td>
<td>32.2%</td>
<td>66.7%</td>
<td>76.8%</td>
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<tr>
<td>The number of abnormal labs</td>
<td>14</td>
<td>2</td>
<td>8</td>
</tr>
<tr>
<td>Abnormal labs followed up</td>
<td>85.7%</td>
<td>50%</td>
<td>75%</td>
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<tr>
<td>percentage</td>
<td></td>
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<tr>
<td>Average length of time</td>
<td>3.45 days</td>
<td>2.92 days</td>
<td>1.93 days</td>
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<td>until result note</td>
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</table>
Results

By March 1st 2020:

- The percentage of documented results follow-up increased from 32.2% to 76.8%.

- The average length of time of documentation decreased from 3.45 days to 1.93 days.

- Our interventions did not result in 100% follow up of abnormal CBC results.
Conclusion

This QI project:

- Improved the percentage of anemia screening results interpretation and documentation.
- Decrease the average length of time between the result and the documentation.

For future research:

Implement changes to the EHR system

Notify physicians of outstanding lab results that do not have documentation