A novel collaborative newborn screening approach: Screening program located in a tertiary pediatric hospital clinical laboratory

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Disclosures

None
Outline

Introduce the Maritime Newborn Screening Program

Discuss features of being located within a clinical laboratory and the impact this has on patient care
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• 3 Provinces: Prince Edward Island, New Brunswick, and Nova Scotia
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• Large expansion and amalgamation of 3 Provinces in 2014 to create Maritime Program
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• Over 21 conditions
• Screening at IWK started in 1970’s
• Large expansion and amalgamation of 3 Provinces in 2014 to create Maritime Program
• Approx. 16,000 infants screens/yr
• Approx. 77 screen positives/yr
• Approx. 28 true positives/yr
Location of lab within the health centre

Izaak Walton Killam Hospital for Children (IWK)

Maritime Newborn Screening Program (MNSP)
Location of lab within the health centre

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Maritime Newborn Screening Program (MNSP)
Outline

Introduce the Maritime Newborn Screening Program

Discuss features of being located within a clinical laboratory and the impact this has on patient care
Creation of a unique collaborative paradigm

Maritime Newborn Screening Program

Streamlined testing, faster TATs

Clinical input

Patient care and experiences

Research collaborations
Creation of a unique collaborative paradigm

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Research collaborations
Increased transparency, program development, and patient care

- Cut off evaluation
- Disease definition
- QA/QI
- External impacts
- Case reviews
- Program statistics
- Research collaborations
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Hi I’m baby Jack. I was born at 40 weeks and am nice and plump. I’m going to be discharged tomorrow.
Case Example
Case Example
Case Example

IRT DNA: No Mutations on Panel
<table>
<thead>
<tr>
<th>Test</th>
<th>Result</th>
<th>Flag</th>
<th>Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>Newborn Screen</td>
<td>Screen Positive</td>
<td></td>
<td>*** POSITIVE *** screen result <em>C</em></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>*** Please contact the Newborn Screening Office ***</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>*** @ 902-470-7998 as soon as possible ***</td>
</tr>
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* Please contact Screening Office if possible.
Sweat test positive – Brought to Respirology Clinical Working Group
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