

An Age-Based Framework for Evaluating Genome-Scale Sequencing Results in Newborn Screening

Internet Enduring Material

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Content was originally presented at NEO: The Conference for Neonatology on February 21, 2020.

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The ANCC recognizes this educational activity as an Internet Enduring Material. The estimated time for completion of this Internet Enduring Material is 45 minutes. This presentation was released on July 13, 2020. The expiration date of this Internet Enduring Material is July 12, 2023.

Target Audience:

This presentation is intended for physicians, advanced practice providers, and other clinicians who treat and care for premature infants.

Disclosure of Financial Relationships:

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Cynthia Powell, MD - Professor of Pediatrics, Research Professor of Genetics, University of North Carolina School of Medicine; Director, Medical Genetics Residency Training Program, Department of Genetics, Chapel Hill, NC. Disclosure(s) - I have no financial relationships to report. *FDA: Nothing to disclose.*

Nicole Brenson, MEd Disclosure(s) - I have no financial relationships to report.

Hilja Dodd Sousa Conceicao, CHCP, CPHQ Disclosure(s) - I have no financial relationships to report.

Kassandra S Greci, DNP, APRN, WHNP-BC Disclosure(s) - I have no financial relationships to report.

Commercial Support:

There is no commercial support for this educational activity.

Please note: the content of this educational activity was originally presented at a live conference (NEO: The Conference for Neonatology) on February 21, 2020, which was supported in part, through restricted medical education grants from Mead Johnson Nutrition, Mallinckrodt Pharmaceuticals, and Abbott Nutrition.

Purpose/Gap: The purpose of this educational activity is to enhance clinician knowledge in the ever-changing area of complications associated with Neonatology as well as promising new techniques and interventions for improving outcomes in this arena. Genomic sequencing can detect serious conditions that meet criteria for newborn screening but for which no population screening method currently exists. This presentation will address what information can be obtained from genomic sequencing compared to current newborn screenings.

Objectives: At the conclusion of this activity, the participant will be able to:

ACCME Objectives

1. Discuss potential uses for genome-scale sequencing using a clinically oriented framework to augment current newborn screening.
2. Identify a condition that meets criteria for newborn screening but for which no population screening method currently exists.
3. Identify a condition that is currently screened for in newborns for which the specificity or sensitivity could be improved through genomic sequencing.

CME – ACGME/ABMS Competencies

- Patient Care and Procedural Skills

ANCC Learning Outcomes

1. Discuss potential uses for genome-scale sequencing using a clinically oriented framework to augment current newborn screening.
2. Identify a condition that meets criteria for newborn screening but for which no population screening method currently exists.
3. Identify a condition that is currently screened for in newborns for which the specificity or sensitivity could be improved through genomic sequencing.

ANCC – IOM Competencies

- Employ evidence-based practice

Participation and Credit:

Participants are expected to review all content in the video, access reference materials as needed for additional self-directed learning, take and score 75% or greater correct on the post test, and complete the evaluation in order to earn *AMA PRA Category 1 Credit(s)[™], nursing contact hour(s), and/or Ethics credit(s).*

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Contact:

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