

ON-DEMAND VIEWING

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Amy B. Hair, MD

Associate Professor of Pediatrics
Program Director of Neonatal Nutrition
Medical Director of TCH Milk Banks
Associate Director of NICU Intestinal
Rehabilitation Team
Baylor College of Medicine
Texas Children's Hospital
Houston, Texas

Free CE course

Liver-Gut-Microbiome Axis and Fatty Acid Absorption in Preterm Infants

Presented by Amy B. Hair, MD, at Miami Neonatology 2025

This presentation explores how immaturity of the liver, gut, pancreas, and microbiome contributes to impaired fatty acid absorption in preterm infants. Using translational and clinical research, the presentation connects human milk composition, digestive organ development, and microbial function to growth outcomes. Dr. Hair examines how milk source, fortification, and targeted dietary intervention with human milk cream can influence preterm infant metabolism and microbial pathways. The session frames current knowledge gaps and ongoing research efforts aimed at translating microbiome and fat absorption science into practical strategies to support growth in vulnerable neonatal populations.

Learning Objectives

- Describe the role of the liver-gut-microbiome axis in fatty acid digestion and absorption in preterm infants
- Identify physiologic factors contributing to impaired fat absorption in preterm infants
- Evaluate emerging evidence linking microbiome composition and metabolic function with growth outcomes in preterm infants



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Registered dietitians (RDs) and dietetic technicians, registered (DTRs) will receive 0.5 continuing professional education unit (CPEU) for completion of this program/material. Registered Dietitians and Dietetic Technicians are to select activity type 102 on Professional Development Portfolio (PDP) activity logs.

Activity Format

This activity is an online enduring material. Successful completion is achieved by reading and/or viewing the material, reflecting on its implications in your practice, and completing the assessment component.

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Supported by an educational grant from
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