Blood products...
Do you know specific product requirements for commonly used blood components for the neonate? The correct documentation and treatment of common transfusion reactions? How to help a family with directed donations for their sick infant; or the legal issues involved in emergency custody and treatment of a patient in the NICU or SCN? Evidence based indications for transfusions, blood product testing, and administration practices, as well as ethical/religious/legal considerations in the neonate will be reviewed.

Hyperbilirubinemia...
Jaundice occurs in most newborn infants. It is usually benign, but must be closely monitored since it potentially can lead to acute bilirubin encephalopathy or kernicterus. Do you know which infants are at highest risk for complications? Is transcutaneous monitoring equal to serum evaluation of bilirubin? It is well documented that the blue light spectrum is best for phototherapy, but do you know the most effective way to provide this therapy? Current evidence-based practices will be reviewed and national guidelines highlighted.

Delayed Cord Clamping...
Anemia of prematurity is one of the most common reasons for packed red blood cell (PRBC) transfusions in premature infants, and is usually related to frequent blood sampling and an immature bone marrow response to anemia. Several studies have shown that delayed cord clamping (DCC) improves blood cell volume, hematocrit, and hemoglobin levels, as well as reduces the need for PRBC transfusions in newborns. DCC in premature infants is also associated with potentially beneficial hemodynamic changes over the first days of life. Indications, contraindications, and techniques for increasing the rate of passive placental transfusion will be discussed.

This educational activity is being presented without the provision of commercial support and without bias or conflict of interest from the planners and presenters.
Course Objectives:

Review commonly transfused blood components in neonates

Discuss the complications of transfusion and transfusion reactions in neonates

Discuss the options for directed donation

Examine the common “religious/ethical” objections to blood transfusion and how to support families during “objectionable” treatment

Discuss bilirubin metabolism

Identify infants at risk for hyperbilirubinemia

Describe standard screening tools

Discuss management guidelines & policies for hyperbilirubinemia

Review methodologies, timing, and physiology of umbilical cord clamping after birth

Identify the benefits and risks of placent al transfusions

Discuss current research, literature and ACOG guidelines for practicing delayed cord clamping

About the speakers....

Catherine Shipp, RN, BSN, HP (ASCP) is the Transfusion Safety Officer at Loyola University Medical Center, with over 26 years of experience in Transfusion Medicine, including blood collection, testing, storage, distribution and transfusion. She is also an assessor for the American Association of Blood Banks and the College of American Pathologists. Catherine is a frequent national and international speaker on patient blood management and transfusion safety.

Lisa Festle & Barb Hering (MSN, RNC-NIC, APRN/CNS) are Neonatal Outreach Educators for the Loyola Perinatal Center, and NICU Clinical Nurse Specialists at Loyola University Medical Center. They are responsible for implementing and monitoring standards of care, and frequently speak at regional and national conferences.

Lawrence Bennett, MD, FAAP is Associate Professor of Pediatrics and neonatologist for 25 years in the NICU at Loyola University Medical Center. He is also the Fellowship Director, and will be presenting delayed cord clamping that is currently being studied at Loyola.

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Criteria for successful completion and receipt of contact hours for this educational activity include: (1) Learner’s signature on sign-in sheet (2) Learner attending the program in its entirety (3) Learner submitting a completed evaluation form at the end of the activity. Accreditation as a provider refers to recognition of educational activities only and does not imply ANCC Commission on Accreditation, Ohio Board of Nursing or the Ohio Nurses Association approval or endorsement of any product.

For further information or questions, please call the Loyola University Perinatal Center 708-327-9050

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