

III International Congress The Child in The World Today and Tomorrow

Vascular Access Approach in Pediatrics

Background

The handling and management of vascular access in pediatric settings require specific knowledge and skills due to the vulnerability of children and their unique anatomical and physiological characteristics. Proper selection, insertion, maintenance, and monitoring of vascular access are essential to ensure patient safety, minimize complications, and promote high-quality care. This course aims to equip nurses and other healthcare professionals with the necessary skills for a safe and effective approach to vascular access.

Objectives

1. Apply safe techniques for the insertion, maintenance, and monitoring of vascular access.
2. Recognize and respond to associated complications.
3. Promote best practices for the prevention of vascular access-related infections.
4. Understand the anatomical and physiological specificities of vascular access in pediatric patients.
5. Identify criteria for selecting the most appropriate type of vascular access for each clinical situation.
6. Apply safe techniques for the insertion, maintenance, and monitoring of epicutaneous vascular access.
7. Recognize and intervene in complications associated with epicutaneous vascular access.
8. Promote infection prevention practices related to epicutaneous vascular access.

Contents

- Anatomical and Physiological Specificities of Vascular Access in Pediatric Settings – Factors influencing insertion and maintenance.
- Types of Venous Access – Epicutaneous central catheters.
- Indications, Contraindications, and Associated Complications.
- Techniques for Insertion and Maintenance of Epicutaneous Vascular Access.
- Infection Prevention and Control.
- Pain Management and Strategies to Minimize Discomfort During Epicutaneous Vascular Access Placement.
- Practical Simulation and Clinical Case Discussions.

Date	June 2, 2025
Duration	4 Hours (14h00 – 18h00)
Classroom	To be announced
Course Coordinator	Prof. Manuel Cordeiro
Course Trainers	Nursing Team of the Intensive Care Unit of the Pediatric Hospital of Coimbra
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