

III International Congress The Child in The World Today and Tomorrow

Management and Optimization of Insulin Infusion Systems in Pediatrics

Background

The use of continuous subcutaneous insulin infusion (CSII) systems has been shown to be a highly effective approach for the treatment of Type 1 Diabetes Mellitus in children and adolescents. These systems offer greater flexibility and potential for optimized glycemic control, provided they are accompanied by proper management and continuous education. This course aims to empower nurses with the skills required for appropriate management and continuous education related to these systems.

Objectives

1. Understand the principles and benefits of CSII systems in the management of Type 1 Diabetes Mellitus in pediatric settings;
2. Apply CSII monitoring techniques to optimize glycemic control;
3. Identify and manage complications and challenges associated with the use of CSII in children and adolescents;
4. Promote therapeutic education and family involvement in the management of Type 1 Diabetes Mellitus with CSII systems.

Contents

- Introduction to CSII Systems: Principles of operation and components of CSII systems, effectiveness of CSII in pediatric settings, indications, and criteria for CSII use in children and adolescents;
- Initiation of CSII Therapy: Eligible children and adolescents, procedures for initiating CSII therapy, training of children/adolescents and parents in CSII handling;

- CSII Monitoring: Use of continuous glucose monitoring (CGM) systems in conjunction with CSII;
- Management of Complications and Challenges: Identification and resolution of common technical issues, response to hypoglycemia and hyperglycemia, and psychosocial aspects;
- Therapeutic Education and Family Involvement: Continuous education for children, adolescents, and families, promotion of autonomy and treatment adherence, available resources;
- Practice: Hands-on sessions on CSII handling, analysis/interpretation of device-collected data, emergency simulations, and problem-solving.

Date	June 2, 2025
Duration	4 Hours (14h00 – 18h00)
Classroom	To be announced
Course Coordinator	Prof. Luís Condeço
Course Trainers	Nursing Team from the Pediatric Diabetology Consultation of ULS Viseu Dão-Lafões
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