

AHED - Advanced Health Education
Rua Manuel Joaquim Avelar, 118 - Piso 2
2750 - 421 Cascais
phone +351 911 191 954
info@ahed.pt >>ahed.pt



MULTIPROFESSIONAL CARE
INTEGRATION CHALLENGES

PAEDIATRICS

EMERGENCIES SIMULATE
TO AVOID ERRORS

22-I13



Advanced
Health
Education

by NOVA Medical School

PAEDIATRICS / EMERGENCIES – SIMULATE TO AVOID ERRORS

21-I13

COURSE COORDINATOR >> Maria Teresa Neto, MD, PhD

COURSE PRESENTATION

This course is a unique opportunity for general paediatricians, paediatricians with expertise in specific areas, general and family physicians, anaesthesiologists and surgeons to upgrade or acquire knowledge in multiple areas of paediatrics. It is known that specialization is a legitimate goal of every doctor, but knowledge of the fundamental areas of paediatrics is an enormous professional and personal value that must be cherished, implemented and encouraged among young doctors aiming to know the child as a "whole". Actually, the "whole" can only be fully appreciated if we know the parts.

Each module will provide an overview on urgent/emergent problems in a specific chapter of Paediatrics: neonatology/perinatology, infectious diseases, gastroenterology, cardiology, respiratory conditions, endocrinology, metabolic diseases, haematology, nephrology, neurology, adolescent conditions, psychiatrics, surgical conditions, transportation.

Participants can choose to enrol in a group of modules or in the whole course.

Simulation-based teaching will use high-fidelity simulation, simulation with software/multimedia, simulation of clinical practice and procedures

LEARNING OBJECTIVES >> *KNOWLEDGE AND SKILLS TO DEVELOP*

- >> To demonstrate how to act on the main critical situation in paediatrics
- >> To practice in a high fidelity model resuscitation procedures
- >> To practice procedures needed for a safe interhospital transport
- >> To teach and practice how to diagnose and treat severe common conditions

TARGET AUDIENCE

Medical Doctors and Nurses

ADMISSION CRITERIA

CV and Motivation Letter

ATTENDANCE REQUIREMENTS

100% attendance in 13 of the 15 modules is mandatory for issuing attendance certificate and CME credits and/or ECTS participants registered in the whole course

MAX. ATTENDEES

20

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AGENDA
2022

LOCATION

The course will be held at NMS' Centre for Simulation and Techniques in Paediatrics at Dona Estefânia Hospital, at the Advanced Simulation Centre of the same hospital and at the Advanced Simulation Centre on Maternal and Child Health at NMS. Eventually, some modules may occur in Hospital Services according to the needs of the module.

JAN 28th

9:00 am – 6:00 pm

MODULE 1

>> **Assessment and stabilisation of the critically ill child in the Emergency Department**

Recognition of the critically ill child

PAT - Paediatric Assessment Triangle

Clinical cases

Simulated patient scenarios

FEB 4th

9:00 am – 6:00 pm

MODULE 2

>> **Cardiorespiratory resuscitation**

ABC evaluation

Airway management

Resuscitation Drugs

Defibrillation

Basic life support algorithm and training

Advanced life support algorithm and training

Resuscitation Specific Conditions

Hypothermia

Ethics in Cardiorespiratory resuscitation

FEB 11th

9:00 am – 6:00 pm

MODULE 3

>> **Techniques and Procedures in Paediatrics and Neonatology**

Airway management

Vascular and intraosseous access (Ultrasound guided)

Thoracocentesis

Paracentesis

Pericardiocentesis

FEB 18th

9:00 am – 6:00 pm

MODULE 4

>> **Neonatal and Paediatric Transport**

Organization of a paediatric and neonatal transport system

How to plan the specifics for a transport

Planning the equipment

Criteria for transport, evaluation and stabilization at the hospital of origin

Specificities of the neonatal and paediatric transport

Transport of a trauma patient

Hypothermia patient transport

Airway transport specificities

Arrival at the Intensive care unit

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FEB 25th

9:00 am – 6:00 pm

MODULE 5

>> Neonatal Emergencies

- Neonatal resuscitation
- Difficult airway
- Acute Anaemia and Isoimmunization
- Surgical conditions
- Congenital Cardiac disease
- Hydrops Faetalis
- Sepsis and Septic Shock
- Acute Abdomen
- High Fidelity Scenarios

MAR 18th

9:00 am – 6:00 pm

MODULE 7

>> Renal Emergencies

- Hypertensive Emergency
- Nephritic and Nephrotic syndromes
- Hydro-electrolyte management
- Acid-base balance
- Acute Kidney Injury

MAR 11th

9:00 am – 6:00 pm

MODULE 6

>> Haematologic Emergencies

- Acute Anaemia
- Sickle Cell disease
- Acute Haemorrhage
- The Haemophilic child
- Blood transfusions in Paediatrics

MAR 25th

9:00 am – 6:00 pm

MODULE 8

>> Neurological Emergencies

- Seizure disorder
- Coma
- Acute gait disturbances
- Headache
- Consciousness disturbances
- Clinical Case scenarios

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AGENDA 2022

APR 1st

9:00 am – 6:00 pm

MODULE 9

>> Infectious Emergencies

Sepsis and Meningitis

Empirical antibiotic therapy for frequent paediatric infectious diseases

Osteoarticular infections

The Immuno-compromised child

TAIDs – Travel-Associated Infectious Diseases

APR 22nd

9:00 am – 6:00 pm

MODULE 11

>> Paediatric Cardiology Emergencies

Heart murmurs

Normal and abnormal ECG

Arrhythmias – simulation and interpretation

Cardiac failure

PoCUS - Point of Care Ultrasound evaluation (Functional Echocardiography)

Chest pain and Syncope

Main Cardiology Exams (ECG; holter; cardiac stress test; tilt test)

Cardiovascular risk evaluation in Paediatrics – who, when, and how

APR 8th

9:00 am – 6:00 pm

MODULE 10

>> Endocrine and Metabolic Emergencies

Diabetic ketoacidosis

Suprarenal hyperplasia

Hypoglycaemia

Metabolic disease in the neonate

Metabolic disease decompensation and management

APR 29th

9:00 am – 6:00 pm

MODULE 12

>> Gastroenterological Emergencies

Caustic Ingestion

Upper Gastrointestinal Haemorrhage

Lower Gastrointestinal Haemorrhage

Foreign Body Ingestion

Acute Liver failure

Gastrointestinal Endoscopy – Clinical cases, scenarios, and training

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AGENDA 2022

MAY 6th

9:00 am – 6:00 pm

MODULE 13

>> Respiratory Emergencies

- Acute Bronchiolitis
- Pneumonia
- Pneumothorax
- Foreign body aspiration
- Haemoptysis
- Ventilation for chronic patients

>> High-Flow Oxygen Therapy

>> NIV - Non-Invasive Ventilation (criteria and management)

>> Ventilators Clinical Practice

- Masks, filters, respiratory circuits,
and humidifiers

>> Bronchoscopy

- Bronchoscopy basic principles and
training
- Case studies and videos

MAY 20th

9:00 am – 6:00 pm

MODULE 15

>> High Fidelity Scenarios

- High fidelity simulation scenarios, using manikins that mimic the real patient.
- Training focused on different medical and surgical clinical emergencies
- Multidisciplinary teams evaluation and acting
- Development of technical and non-technical skills
- CRM – Crisis Resource Management application
- Debriefing and Take-home messages

MAY 13th

9:00 am – 6:00 pm

MODULE 14

>> Paediatric Surgery Emergencies

- The polytraumatized patient
- Acute abdomen
- Acute scrotum
- The newborn with surgical conditions
- Burns
- Wound Management
- Basic Suture Practice

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FACULTY

- >> Ana Casmiro, MD
- >> Ana Cristina Ferreira, MD
- >> Catarina Limbert, MD, PhD
- >> Fátima Pinto, MD, PhD
- >> Francisco Abecassis, MD
- >> Isabel Afonso, MD, PhD
- >> José Pedro Vieira, MD
- >> Luís Varandas, MD, PhD
- >> Margarida Abranches, MD
- >> Maria João Lage, MD
- >> Marta Oliveira, MD
- >> Paula Kjollerstrom, MD
- >> Pedro Garcia, MD
- >> Rui Alves, MD
- >> Vera Brites, MD

CREDITS >> 11 ECTS

DURATION >> 120 HOURS

PRICE >> 1.870€

EXTRAS >>

- Price per module: 160 €
- Price per module for more than 7 modules and less than 15: 144€ (10% discount)
- Price for all 15 modules: 1870 € (22% discount)
- Priority will be given to participants who wish to attend the full course (15 Modules).
- This course will only take place if a minimum of 12 participants are enrolled in the whole course.
- In case the participant intends to enrol only in 1 or several Modules, but not in the full course, he/she should contact Ahed, as soon as possible, in order to be placed on a waiting list.

INCLUSIONS AND EXCLUSIONS IN PRICE

The price published for each course includes teaching fees, space rental, certificate of attendance, and materials used during the course. The price of the course doesn't include hotel accommodation, lunches, and dinners on course days, nor any other items unless specifically mentioned. Prices of courses published by AHED are exempted of VAT. Other items priced by AHED apart from courses may however include VAT.

APPLICATION, ADMISSION AND REGISTRATION

When applying for a course at AHED – Advanced Health Education, the applicant subjects personal and professional data that will be verified and assessed to check that admission criteria for that specific program are met. Once an application is approved, registration in the course is admitted and will require payment of the price published for the course.

APPLICATION FEES

Application fees are as follows:

-100 € for courses priced above 1000 €

-50 € for courses priced below equal to 1000 € Application fees are non-refundable.

COURSE REGISTRATION FEES

The registration stage is considered completed when the total price of the course is received by AHED.

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PAYMENT OPTIONS

Payment options for application and registration include credit card (Visa, MasterCard), wire transfer in Euro, and Multibanco.

EARLY BIRD

Application fees will be discounted from the course price for registrations completed 90 calendar days before the date of the course.

For additional information, please go to in Terms and Conditions at ahed.pt

APPLICATION DEADLINE >> JANUARY 21st 2022

INSTITUTIONAL PARTNERSHIPS >>



SCIENTIFIC PARTNERSHIPS >>



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