

AHED - Advanced Health Education  
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/ MULTIPROFESSIONAL CARE  
INTEGRATION CHALLENGES

# PAEDIATRICS / EMERGENCIES - SIMULATE TO AVOID ERRORS

20-I13



Advanced  
Health  
Education

by NOVA Medical School

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20-113

**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.

Simulation-based teaching will use high-fidelity simulation, simulation with software/multimedia, simulation of clinical practice and procedures and in situ simulation. Simulation based lessons will be monitored by experts on simulation-based training.

## **LEARNING OBJECTIVES >> KNOWLEDGE AND SKILLS TO DEVELOP**

- 1 To demonstrate how to act on the main critical situations in paediatrics**
- 2 To practice in a high fidelity model resuscitation procedures**
- 3 To practice procedures needed for a safe interhospital transport**
- 4 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 14 of the 16 modules is mandatory for issuing attendance certificate and ECTS

## **MAX. ATTENDEES**

>> 20

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## AGENDA

**2020 / MAY**

### MAY 5<sup>TH</sup>

9:00 am - 6:00 pm

- >> The seriously ill child at the Emergency room
- >> Recognition and procedures  
Introduction, definitions, theoretical issues,  
clinical cases, simulated patients.

### MAY 19<sup>TH</sup>

9:00 am - 6:00 pm

- >> Techniques and procedures in paediatrics  
Respiratory access  
  
Vascular devices and intraosseous access  
  
Vascular devices in neonatology  
  
Thoracic drainage  
  
Pericardium drainage.

### MAY 12<sup>TH</sup>

9:00 am - 6:00 pm

- >> Cardiorespiratory resuscitation
- >> Basic and advanced life support.

### MAY 26<sup>TH</sup>

9:00 am - 6:00 pm

- >> Neonatal and Paediatric Transport
- >> Organization of a system of paediatric  
and neonatal transport  
How to plan one specific transport.  
To prepare the material  
  
Criteria for transport, evaluation  
and stabilization in the origin  
  
Specificities of the neonatal  
and paediatric transport  
  
Transport of the polytraumatized patient  
  
Transport of a patient under hypothermia  
  
Specificities of airway transport  
  
Arrival to the Intensive care unit

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## AGENDA

**2020 / JUNE**

### **JUNE 2<sup>ND</sup>**

9:00 am - 6:00 pm

#### >> Neonatal emergent situations

Acute anaemia and isoimmunization

Difficult airway

Surgical conditions

Cardiac disease

Hydrops fetalis

Sepsis and septic shock

Acute abdomen

### **JUNE 16<sup>TH</sup>**

9:00 am - 6:00 pm

#### >> Heart emergencies

Heart murmur - simulation  
and interpretation of normal and abnormal

ECG - normal and arrhythmia - simulation  
and interpretation

Cardiac failure in a sick patient -  
- the near-bed US value: function evaluation;  
how to evaluate dysfunction; fluid effusion;  
intracavitary masses

Chest pain and syncope. How to identify  
disease and how to evaluate available  
exams (ECG; holter; effort proof; tilt test)

When and who should be evaluated for  
cardiovascular risk: the value of available  
exams (ECG; holter; effort proof; tilt test)

### **JUNE 23<sup>RD</sup>**

9:00 am - 6:00 pm

#### > Emergent kidney disease

Hypertensive emergency

Nephritic and nephrotic syndromes

Acid-base balance and fluid and

electrolyte abnormalities

Acute Kidney injury

### **JUNE 30<sup>TH</sup>**

9:00 am - 6:00 pm

#### >> Neurologic emergencies

Seizure disorder

Coma

Acute gait disturbances

Headache

Consciousness disturbances

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## AGENDA

### 2020 / SEPTEMBER

#### SEP 15<sup>TH</sup>

9:00 am - 6:00 pm

>> Infectious emergencies

Sepsis and meningitis

Empirical antibiotic therapy  
for frequent pediatric infections

Osteoarticular infections

Infection of the immunocompromised child

Infectious emergencies of the traveller child

#### SEP 22<sup>ND</sup>

9:00 am - 6:00 pm

>> Endocrine and metabolic emergencies

Diabetic ketoacidosis

Suprarenal hyperplasia

Hypoglycaemia

Metabolic disease in the neonate

Metabolic disease imbalance

#### SEP 29<sup>TH</sup>

9:00 am - 6:00 pm

>> Haematologic emergencies

Acute anaemia

Acute complications of sickle cell disease

Acute Haemorrhage

The haemophilic child

Blood transfusions in paediatrics

### 2020 / OCTOBER

#### OCT 6<sup>TH</sup>

9:00 am - 6:00 pm

>> Gastroenterological emergencies

Ingestion of caustics

Upper and lower digestive haemorrhage

Foreign body intake

Acute liver failure



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## AGENDA

### 2020 / OCTOBER

#### OCT 13<sup>TH</sup>

9:00 am - 6:00 pm

- >> Respiratory emergencies
- >> Clinical case with theoretical introduction
  - Bronchiolitis
  - Foreign body aspiration
  - Hemoptysis
  - Pneumonia
  - Pneumothorax
  - Ventilated chronic patient
- >> Bases for non-invasive ventilation
- >> Bases for high flow
  - Contact with ventilators
  - Contact with masks
  - Contact with filters, tracheal devices, humidifiers
  - Contact with high flow
  - Contact with bronchoscope
  - Videos of procedures namely bronchoscopies

#### OCT 20<sup>TH</sup>

9:00 am - 6:00 pm

- >> Surgical emergencies
  - The polytraumatized patient
  - Acute abdomen
  - Acute scrotum
  - The burned patient
  - Basic suture course
  - Cleaning and treatment of wounds
  - The new-born with surgical conditions

#### OCT 27<sup>TH</sup>

9:00 am - 6:00 pm

- >> Psychiatric emergencies

### 2020 / NOVEMBER

#### NOV 3<sup>RD</sup>

9:00 am - 6:00 pm

- >> High fidelity scenarios
- >> Clinical scenarios on several urgent and emergent issues trained in high fidelity models

### 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

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## FACULTY

- > Ana Cristina Ferreira, MD
- > Marta Oliveira, MD
- > Catarina Limbert, MD, PhD
- > Fátima Pinto, MD, PhD
- > Francisco Abecassis, MD
- > Gonçalo Cordeiro Ferreira, MD
- > João Estrada, MD
- > José Pedro Vieira, MD
- > Luís Varandas, MD, PhD
- > Margarida Abranches, MD
- > Maria João Lage, MD
- > Ana Casimiro, MD
- > Paula Kjollerstrom, MD
- > Pedro Caldeira da Silva, MD
- > Pedro Garcia, MD
- > Rui Alves, MD

**CREDITS >> 11.5 ECTS**

**DURATION >> 128 HOURS**

**PRICE >> 2.550€**

## 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.

## 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](http://ahed.pt)

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APPLICATION DEADLINE >> APRIL 5<sup>TH</sup> 2020

## INSTITUTIONAL PARTNERSHIPS



## SCIENTIFIC PARTNERSHIPS



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