

AHED - Advanced Health Education  
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MULTIPROFESSIONAL CARE  
INTEGRATION CHALLENGES

# PAEDIATRICS

EMERGENCIES SIMULATE  
TO AVOID ERRORS

22-106



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 28<sup>th</sup>

9:00 am – 6:00 pm

#### MODULE 1

- >> **Stabilising the Gravely Ill Child in the Emergency Room**
- >> **Recognition and procedures**  
Introduction, definitions, theoretical issues, clinical cases, simulated patients

### FEB 11<sup>th</sup>

9:00 am – 6:00 pm

#### MODULE 3

- >> **Techniques and Procedures in Paediatrics**
- >> Respiratory Access
- >> Vascular Devices and intraosseous access
- >> Vascular devices in neonatology thoracic drainage
- >> Pericardium drainage

### FEB 4<sup>th</sup>

9:00 am – 6:00 pm

#### MODULE 2

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

### FEB 18<sup>th</sup>

9:00 am – 6:00 pm

#### MODULE 4

- >> **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 polytraumatised patient  
Transport of a patient under hypothermia  
Specificities of airway transport  
Arrival to the Intensive care unit

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**FEB 25<sup>th</sup>**

9:00 am – 6:00 pm

**MODULE 5**

**>> Paediatric and Neonatal Emergencies**

- Acute anaemia and isoimmunization
- Difficult airway
- Surgical conditions
- Cardiac disease
- Hydrops fetalis
- Sepsis and Septic Shock
- Acute Abdomen

**MAR 18<sup>th</sup>**

9:00 am – 6:00 pm

**MODULE 7**

**>> Emergent Kidney Disease**

- >> Hypertensive Emergency
- >> Nephritic and nephrotic syndromes
- >> Acid-base balance and fluid and electrolyte abnormalities
- >> Acute Kidney Injury

**MAR 11<sup>th</sup>**

9:00 am – 6:00 pm

**MODULE 6**

**>> Haematologic Emergencies**

- Acute anaemia
- Acute complications of sickle cell disease
- Acute Haemorrhage
- The haemophilic child
- Blood transfusions in paediatrics

**MAR 25<sup>th</sup>**

9:00 am – 6:00 pm

**MODULE 8**

**>> Neurological Emergencies**

- Seizure disorder
- Coma
- Acute gait disturbances
- Headache
- Consciousness disturbances

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2022

### APR 1<sup>st</sup>

9:00 am – 6:00 pm

#### MODULE 9

##### >> Infectious Emergencies

Sepsis and meningitis  
Empirical antibiotic therapy for frequent paediatric infections  
Osteoarticular infections  
Infection of the immunocompromised child  
Infectious emergencies of the traveller child

### APR 22<sup>nd</sup>

9:00 am – 6:00 pm

#### MODULE 11

##### >> Cardiological 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)

### APR 8<sup>th</sup>

9:00 am – 6:00 pm

#### MODULE 10

##### >> Endocrine and Metabolic Emergencies

Diabetic ketoacidosis  
Suprarenal hyperplasia  
Hypoglycaemia  
Metabolic disease in the neonate  
Metabolic disease imbalance

### APR 29<sup>th</sup>

9:00 am – 6:00 pm

#### MODULE 12

##### >> Gastroenterological Emergencies

Ingestion of caustics  
Upper and Lower digestive haemorrhage  
Foreign body intake  
Acute liver failure

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### AGENDA 2022

#### MAY 6<sup>th</sup>

9:00 am – 6:00 pm

##### MODULE 13

- >> **Respiratory Emergencies**
- >> **Clinical case with theoretical introduction**
  - Bronchiolitis
  - Foreign body aspiration
  - Haemoptysis
  - 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

#### MAY 20<sup>th</sup>

9:00 am – 6:00 pm

##### MODULE 15

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

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## PAEDIATRICS / EMERGENCIES – SIMULATE TO AVOID ERRORS

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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](http://ahed.pt)

**APPLICATION DEADLINE >> JANUARY 18<sup>th</sup> 2022**

## INSTITUTIONAL PARTNERSHIPS >>



## SCIENTIFIC PARTNERSHIPS >>



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