



**Department of Biomedical Sciences**  
**Physiotherapy Degree Programme**  
**First Aid and Healthcare Management Syllabus**

**Academic year 2020-2021. Academic Term: second semester of the third year**  
**Course coordinator: Dr Elena Azzolini**

**FIRST AID (3 ECTS)**

<b>Dr Luca Carenzo</b>	Medical specialist in anaesthesiology, resuscitation and intensive care. He works at the General Intensive Care Unit of the Humanitas Hospital. E-mail: <a href="mailto:luca.carenzo@humanitas.it">luca.carenzo@humanitas.it</a>
<b>Objectives</b>	Provide students with the basics of first aid in the case of clinical emergencies that might occur in patients with respiratory, cardiological and neurological problems. At the end of the module students must also pass the BLS First Aid Course.
<b>Teaching methods</b>	2 hour-long lecture, each with classroom discussion
<b>Teaching material</b>	Slides presented during the lecture, available for physiotherapy students on LMS.

**Content**

**1) Recall on functional anatomy of the respiratory system**

Anatomy and physiology of the respiratory system, respiratory emergencies (respiratory insufficiency, asthma, acute pulmonary oedema and COPD exacerbation)

**2) BLS theory**

The conduct of the first responder. The chain of survival. Examination of the injured person. Control of vital functions (consciousness, breathing, circulation): the ABC of rescue. Early activation of the Emergency-Urgency System: how to alert 118.

**3) Paediatric emergencies**

Anatomy and physiology of the foetus and newborn, physiopathology of the respiratory and renal system of the child. BLS Paediatric

**4) Cardiac emergencies**

First aid of patients in emergency department due to hypertensive crisis, cardiac arrhythmia, ischaemic heart disease, chest pain and heart attack (signs of emergency, who to call, how to position the patient, administration of oxygen)

**5) Neurological emergencies**

First aid of patients in the emergency department due to stroke, epileptic seizure, subarachnoid haemorrhage and diabetic coma (signs of emergency, who to call, how to position the patient, administration of oxygen)

**6) Allergies and anaphylaxis**

First aid of patients in the emergency department due to obstruction, bleeding and incorrect placement of the tracheostomy tube. Difference between anaphylaxis and anaphylactoid reaction, anaphylactic shock (signs of emergency, who to call, how to position the patient, administration of

oxygen)

### 7) BLS training course

Performance of cardiopulmonary resuscitation manoeuvres and use of the defibrillator in both adults and children. BLS (basic life support for both adults and children). Sequence of ratified manoeuvres to maintain vital functions. Cardiopulmonary resuscitation. Theory and practice on dummies. Use of the defibrillator.

## ORGANISATION OF REHABILITATION SERVICES (2 ECTS)

<b>Dr Vincenzo Manigrasso</b>	Physiotherapist. Director of Health Professions in the Area of Rehabilitation, Head of Rehabilitation of the DSITR at the Policlinico Sant'Orsola Malpighi in Bologna. In 1980 he obtained the Diploma in Rehabilitation Therapy from the Scuola Diretta a Fini Speciali of the University of Bologna. In 1999, he obtained a Master's Degree in Administration and Management of Health Services, organised by the Emilia Romagna Regional Department of Health in collaboration with the Universities of Montreal, Bologna, Modena, Ferrara and Parma. In 2005, he obtained a Master's Degree in Science of the Health Professions of Rehabilitation from the University of Florence. From 1992 to 1998, National Secretary of the Italian Association of Rehabilitation Therapists and, from 2001 to 2007, National President of the Italian Association of Physiotherapists (AIFI). E-mail: <a href="mailto:vincenzo.manigrasso@gmail.com">vincenzo.manigrasso@gmail.com</a>
<b>Objectives</b>	Provide students with an overview of the organisation of facilities where rehabilitation treatments are provided. Place the work of physiotherapists in the context of Italian Health Care. Present the regulations governing the work of physiotherapists.
<b>Teaching methods</b>	2 hour-long lecture, each with classroom discussion
<b>Teaching material</b>	Slides presented during the lecture, available for physiotherapy students on LMS.
<b>Content</b>	
<b>1) Introduction to health policies</b> Universal health care and characteristics of the ideal national health system, health and care policies, how public systems are financed, private and accredited health model. Bismark model and Beverich model of public health care	
<b>2) History of the National Health System</b> Birth of the National Health System. Corporatization of the National Health System. The hospital-company: regulation references	
<b>3) Regulatory framework for physiotherapists</b> History and legal references of the physiotherapy profession, deontological code. Associations and scientific societies of reference	
<b>4) Organisational aspects of rehabilitation services</b> Areas to be covered in healthcare organisations: 1) asset management 2) disease management, 3)	

knowledge management. Quality control of the services provided

<b>ORGANISATIONAL MODELS IN HEALTHCARE (1 ECTS)</b>	
<b>Dr Elena Azzolini</b>	Senior Doctor for the Medical Administration Office at Humanitas Hospital. Specialised in Hygiene and Preventive Medicine at La Sapienza University of Rome. PhD in Public Health from the Università Cattolica del Sacro Cuore in Rome. E-mail: <a href="mailto:elena.azzolini@humanitas.it">elena.azzolini@humanitas.it</a>
<b>Objectives</b>	Provide students with an overview of the organisation of facilities where rehabilitation treatments are provided. Place the work of physiotherapists in the context of the Italian Health Care. Present the regulations governing the work of physiotherapists
<b>Teaching methods</b>	2 hour-long lectures, each with classroom discussion
<b>Teaching material</b>	Slides presented during the lecture, available for physiotherapy students on LMS.
<b>Content</b>	
<b>1) Lean model</b> Basic principles, methods to prevent error in healthcare	
<b>2) Infection control</b> Epidemiology of hospital infections. Description of the main bacteria present in hospitals. Personal protective equipment. Hand washing	
<b>3) Joint Commission</b> Patient-centred JC standards (International goals for patient safety, access to care and continuity of care, patient and family rights, patient assessment, patient care, anaesthesiological and surgical treatment, medication management and use, patient and family education). JC standards for healthcare organisation management requirements (quality improvement and patient safety, infection prevention and control (governance, leadership and orientation, infrastructure safety and management, staff education and qualifications, information management).	
<b>4) Patient experience</b> Survey models, definition of value (clinical outcome and patients experience)	
<b>5) Health System</b> Models of hospital care delivery in Italian and foreign health care systems. World Health Organisation, foreign experience in care delivery models, indicators and outcome measures (who and when)	

**Examination for the First Aid and Healthcare Management course.** Written examination with multiple-choice questions on the topics of the course (Chairman of the Examination Committee: Dr Elena Azzolini).