

Module	Adult track: noncritical patients	
1	Assessment of adult	Mandatory
	Anamnesis, inspection, general aspects	
	Dyspnoea	
	Respiratory pattern	
	Auscultation	
	Cough and mucus	
	Lung function test: assessment and interpretation	
	Peripheral muscle strength: assessment and interpretation	
	Blood gases: interpretation	
	Basic interpretation of chest radiograph	
	Physical activity	
	Functional status/activities of daily living	
2	Techniques for airway clearance in the adult patient	Mandatory
	Rationale and indications	
	Body positioning for secretion clearance and dyspnoea management	
	Manual techniques (including manually assisted cough), manual hyperinflation, air stacking and glossopharyngeal breathing	
	Forced expiratory technique, active cycle of breathing, autogenic drainage, ELTGOL	
	Devices (PEP, oscillatory PEP, IPV, HFCWO, in/exsufflation-assisted cough)	
	Aerosoltherapy and humidification	
	Airway suctioning	
	Exercise as a technique for airway clearance	
	Self-management techniques/education	
	Summarising the evidence and reference to evidence-based documents	
3	Respiratory muscle assessment and training, breathing strategies and techniques for lung expansion	Mandatory
	Rationale and indications	
	Respiratory muscle assessment and training	
	Breathing strategies and breathing exercises	
	Techniques for lung expansion	
	Summarising the evidence and reference to evidence-based documents	
4	Exercise training and physical activity	Mandatory
	Rationale and exercise physiology	
	Assessment of physical fitness (exercise capacity, muscle strength and endurance, balance, flexibility)	
	Assessment of physical activity	
	Exercise training principles	
	Prescribing exercise training	

Adult track: noncritical patients		
	Exercise training in patients with comorbidity; relative and absolute contra-indications	
	Adjuncts to exercise training (oxygen therapy, heliox, NIV, walking aids)	
	Enhancing physical activity	
	Summarising the evidence and reference to evidence-based documents	
5	Physiotherapy in pre and post thoracic and abdominal surgery	Mandatory
	Detrimental effects of different types of surgery on respiratory function	
	Monitoring and risk factors, stratification of patients	
	Therapeutic options for the pre-operative period	
	Summarising the evidence and reference to evidence-based documents	
6	Pharmacotherapy relevant to the physiotherapist	Mandatory
	Oxygen therapy in different situations	
	Aerosoltherapy	
	Influence of cardiorespiratory medication on physiotherapy care and rehabilitation	
7	Non-invasive ventilation for the respiratory physiotherapist	Mandatory
	Indications and contra-indications	
	Modalities and parameters	
	Choice of equipment and interface	
	Initiation of NIV and adaptation to the patient	
	Combining NIV with mucus clearance and activity	
	Effects and risks	
Adult track: intensive care		
8	Physiotherapy in the intensive-care unit	Optional
	Rationale and indications	
	Monitoring	
	Body Positioning	
	Rehabilitation including mobilisation, exercise, neuromuscular electrical stimulation, inspiratory muscle training	
	Contra-indications and risks	
	Summarising the evidence and reference to evidence-based documents	
9	Practical skills Mechanical ventilation for the respiratory physiotherapist	Optional
	Management of artificial airways (tube, tracheostomy)	
	The basics of mechanical ventilation: Modalities and parameters in different conditions	
	Monitoring	
	Criteria for Intubation, extubation and weaning process	
	Haemodynamic effects of mechanical ventilation	
	Lung recruitment	
	Humidification	

Module	Adult track: noncritical patients	
	Instructing patients and family members	
	Safely handling the ICU patient	
Paediatric track		
1	Introduction to respiratory paediatrics	Mandatory
	Anatomy	
	Physiology	
	Pathophysiology	
2	Assessment of paediatric patients with respiratory conditions	Mandatory
	Anamnesis, inspection, general aspects, nutritional status and social interaction	
	Breathlessness, respiratory pattern, signs of respiratory distress	
	Basic interpretation of lung function test results	
	Auscultation	
	Activity and strength assessment	
	Blood gases	
	Basic interpretation of chest radiograph	
3	Assessment and treatment of the premature and newborn infant	Mandatory
	Assessment methods	
	Special physiological aspects/vulnerability	
	Treatment strategies	
4	Techniques for airway clearance in the paediatric patient	Mandatory
	Rationale and indications	
	Body positioning for secretion clearance and dyspnoea management	
	Manual techniques (including manually assisted cough), manual hyperinflation, air stacking and glossopharyngeal breathing	
	Forced expiratory technique, active cycle of breathing, autogenic drainage, ELTGOL	
	Devices (PEP, oscillatory PEP, IPV, HFCWO, in/exsufflation assisted-cough)	
	Aerosoltherapy and humidification	
	Airway suctioning	
	Exercise as a technique for airway clearance	
	Summarising the evidence and reference to evidence-based documents	
5	Respiratory muscle assessment and training, breathing strategies and techniques for lung expansion	Mandatory
	Rationale and indications	
	Respiratory muscle assessment and training	
	Breathing strategies and breathing exercises	
	Techniques for lung expansion	
	Summarising the evidence and reference to evidence-based documents	

6	Exercise training and physical activity	Mandatory
	Rationale and exercise physiology	
	Assessment of physical fitness (exercise capacity, muscle strength and endurance, balance, flexibility)	
	Assessment of physical activity	
	Exercise training principles	
	Prescribing exercise training	
	Exercise training in patients with comorbidity; relative and absolute contra-indications	
	Adjuncts to exercise training	
	Relevant for infants (1–12 months): oxygen therapy	
	Relevant for children (>12 months) oxygen therapy, HELIOX, NIV, walking aids	
	Enhancing physical activity Summarising the evidence and reference to evidence-based documents	
	Summarising the evidence and reference to evidence-based documents	
7	Physiotherapy in pre- and post-surgery	Mandatory
	Detrimental effects of different types of surgery on respiratory function	
	Monitoring and risk factors, stratification of patients	
	Therapeutic options for the pre-operative period	
	Therapeutic options for the post-operative period	
	Summarising the evidence and reference to evidence-based documents	
8	Pharmacotherapy relevant to the physiotherapist	Mandatory
	Oxygen therapy	
	Aerosoltherapy	
	Influence of cardiorespiratory medication on physiotherapy care and rehabilitation	
9	Non-invasive ventilation for the Respiratory Physiotherapist	Mandatory
	Indications and contra-indications	
	Modalities and parameters	
	Choice of equipment and interface	
	Initiation of NIV and adaptation to the patient	
	Combining NIV with mucus clearance and activity	
	Effects and risks	
	Paediatric track: intensive care	Optional
10	Physiotherapy in the intensive care unit	Optional
	Rationale and indications	
	Monitoring	
	Body positioning	
	Rehabilitation (mobilisation, exercise, neuromuscular electrical stimulation, inspiratory muscle training (IMT), <i>etc.</i>)	
	Contra-indications and risks	
	Summarising the evidence and reference to evidence-based documents	

11	Mechanical ventilation for the respiratory physiotherapist	Optional
	Management of artificial airways (tube, tracheostomy)	
	The basics of mechanical ventilation: modalities and parameters in different conditions	
	Monitoring	
	Criteria for Intubation, extubation and weaning process	
	Haemodynamic effects of mechanical ventilation	
	Lung recruitment	
	Humidification	
	Safely handling the ICU patient	
Adult and paediatric tracks		
	Communication and education	Mandatory
	Patient treatment and prognosis	
	Patient education and self-care of the disease in the home with patient and family members	
	Adherence and self-management strategies for optimal patient care	
	Techniques and strategies for communicating with the complex patient and their families; understanding anxieties and social problems for patients and their families	
	Research	Mandatory
	Understand the application and principles of planning, designing, conducting, analysing and publishing research projects	
	Scientific literature appraisal	