

Respiratory Disease Training Directory

A guide to career frameworks and
education offers

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Introduction

[Respiratory Disease](#) affects one in five people in England and is the third biggest cause of death. Chronic obstructive pulmonary disease (COPD) remains a constant [challenge](#), with 2 million people diagnosed, and up to three times as many people remaining undiagnosed; it has been identified as a clinical priority in the [NHS Long Term Plan](#).

Respiratory teams are being [impacted](#) by changing patient demographics, workforce shortages, recruitment and seasonal pressures. Workforce planning therefore needs to ensure holistic patient-centred respiratory care is delivered by highly skilled [multi-professional teams](#), utilising skills across teams and foster professional collaboration, in order to design and deliver targeted services. This will ensure patients receive appropriate care, at the appropriate time, from the appropriately skilled professional.

It is recognised that to deliver this, improved [training and career development](#) is needed through optimising available roles and career pathways. The importance for providing respiratory education to frontline health workers is [imperative](#) to optimize evidence-based care, patient support, and improve outcomes. Enhancing education has been [identified](#) as a method to combat respiratory disease by strengthening healthcare systems/workforce and diagnosis.

To support this and ensure we have a workforce with the right number, skills and capabilities, Health Education England (HEE) developed a number of training support tools i.e. Respiratory Diseases: A training [resources guide](#) and [digital toolkit](#), conjoined to the [HEE STAR](#) methodology to support workforce transformation.

To help optimise available roles and career pathways, we have developed this training directory, to further support national priorities, workforce capacity and capability. This training directory is a centralised repository of respiratory disease career pathways and higher educational resources, to help the NHS workforce develop a career in respiratory disease specialty and expand their clinical expertise.

Background

The [NHS Long Term Plan](#) has set out its ambitions for the NHS over the next 10 years, identifying respiratory disease as a key clinical priority. This at a time of significant [workforce challenges](#) with efforts underway to boost NHS activity and tackle the rising backlog of care. In addition, the pressures on the service post the coronavirus pandemic continue with many suffering from long-term symptoms of lung damage, including breathlessness, fatigue and limited ability to exercise.

Respiratory disease are types of disease that affect the lungs and other parts of the respiratory system. Common causes of respiratory disease include infection, smoking tobacco, breathing in second-hand tobacco smoke, radon, asbestos, and other forms of air pollution, though the cause of some diseases is still unknown. Respiratory diseases include asthma, COPD, pulmonary fibrosis, pneumonia, and lung cancer.

Respiratory disease affects one in five people in England and is the third biggest cause of death – lung cancer, pneumonia and COPD are the biggest causes of respiratory deaths. The UK is also one of the worst-performing developed countries, ranking 35 out of 37 for asthma deaths in the 5-to-34-year-age range (see [NHS England – Respiratory disease](#)).

Incidence and mortality rates from respiratory disease are higher in disadvantaged groups and areas of social deprivation, with the gap widening and leading to worse health outcomes. The most deprived communities have a higher incidence of smoking rates, exposure to higher levels of air pollution, poor housing conditions and exposure to occupational hazards.

Working with partners, we aim to support areas in respiratory disease healthcare by supporting the workforce through training, continuous development and workforce planning to improve early and accurate diagnosis, medicine optimisation, pulmonary rehabilitation, and supporting self-management. For example, measures such as pulmonary rehabilitation services aim to improve patient outcomes and quality of life in 90% of patients who complete a programme ([NHS England - Pulmonary rehabilitation](#)).

Over the next ten years, the NHS is targeting investment in improved treatment and support for those with respiratory disease, with an ambition to transform our outcomes to equal, or better, than international counterparts. The NHS LTP outlines how it'll make improvements along the full pathway from symptom onset to ongoing care, including early detection and diagnosis, treatment and rehabilitation.

Role of Training and Careers

The NHS is [determined](#) to continue to invest in training opportunities and the development of career paths for the whole workforce. A career in the NHS means staff can expect an annual personal development review and a plan to support their [career progression](#). This gives them the opportunity to identify any training and development needs with their manager, education team or educator. It is a commitment to support people to grow and develop professionally, to reach their full potential. [Line managers](#) should have regular conversations with individuals about learning and development opportunities and career progression.

It is also [desirable](#) for senior staff to have an MSc level qualification to meet the requirements of their role, either from a bespoke or standard MSc programme. Line managers should [ensure](#) courses are available for specialist professionals in their team, as well as for educators, advanced practitioners, lead practitioners and non-registered staff. A training needs should be completed to identify their own and staff development needs. This can be supplemented with professional development (CPD) [funding](#) from HEE.

The [NHSE Priorities and Operational Guidance 23/24](#) states workforce plans should help support a number of areas, including HEE [Multi-Professional Education and Training Investment Plan \(METIP\)](#). The METIP is not a workforce plan, but an investment plan for HEE's 'Future Workforce' and 'Workforce Development' budgets – around 90% of HEE's spending – which includes funding the future workforce supply needed to deliver NHS workforce strategies. It will enable HEE to respond positively to NHS workforce challenges through prioritising its spending to generate the biggest and best impact for patients. There may be opportunity through the METIP process for the individuals to develop through the discussed training competencies and frameworks and/or higher education courses.

How to Use this Guide

We recommend when reading through the 'Career Competency Frameworks' and 'Higher Education Resources', to start at 'All Healthcare Professionals' before moving onto other subsections for further specialities.

Supporting Organisations

UK Clinical Pharmacy Association

Centre for Pharmacy Postgraduate Education

Primary Care Respiratory Society

Respiratory Professional Care

British Thoracic Society

UK College of Paramedics

National Centre for Smoking Cessation and Training

Respiratory Disease Training Competencies and Frameworks

All Healthcare Professionals

Organisation	Framework	Description
Skills for Health	Competence Framework to support Outcomes Strategy for COPD & Assessment	<p>Its purpose is to provide an underpinning framework of National Occupational Standards and Units of Learning for the respiratory care workforce, so that people can plan and develop their services more effectively. The Units of Learning have been mapped along a COPD spectrum, which can be used to guide and help when selecting competences relevant to your work practice. Includes: National Occupational Standards and a set of Units of Learning to support respiratory care knowledge and understanding; an assessment strategy for the units to assess competence for a range of functions within COPD and asthma; and case studies which demonstrate how this framework could be used in practice.</p>
UK Inhaler Group (UKIG)	Inhaler Standards and Competency Document	<p>This is intended to be used as a framework to set, assess and support the standards of those initiating inhaler therapies and checking inhaler techniques, in order that they can demonstrate competency in prescribing medications via an inhaled route and teaching the correct technique for the inhaler device prescribed in order to optimise drug administration. It also provides an outline basis for competency assessment.</p>

<p><u>Primary Care Respiratory Society</u></p>	<p>Fit to Care: key knowledge skills and training for clinicians providing respiratory care</p>	<p>Fit to Care addresses variations in the standards of support, guidance and intervention provided to patients living with respiratory conditions. Guidance is available on how clinicians can assess their own competencies and, when appropriate, how to identify and seek ongoing professional development from their employers. In addition, it guides healthcare professionals in delivering high-quality care that is in line with national evidence-based guidance. It uses standard, advanced and expert levels, reflecting the different roles of healthcare professionals involved, irrespective of their professional discipline.</p>
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Other supportive resources:

NHS England: (i) [Respiratory disease](#) (ii) [Respiratory high impact interventions](#) (iii) [Respiratory Medicine](#): Getting it Right First Time [GIRFT] (iv) [Adult breathlessness pathway](#) (pre-diagnosis): diagnostic pathway support tool (v) [Pulmonary rehabilitation](#) (vi) [Evidence Brief](#): Respiratory Workforce (vii) [Evidence Brief](#): Workforce Planning (viii) [Evidence Brief](#): Workforce challenges and solutions (ix) [Evidence Brief](#): Advanced Clinical Practice (x) [Evidence Brief](#): Advanced practitioners in community services (xi) [Clinical Academic Careers](#) Framework (xii) [Clinical Leadership Competency](#) Framework

British Thoracic Society: [Workforce](#) & [Education](#)

The National Centre for Smoking Cessation and Training (NCSCT): [Competency Frameworks](#) and [Learning](#)

Respiratory Professional Care [Events](#)

Association for Respiratory Technology and Physiology: (i) [Standards](#) (ii) [Careers](#) (iii) [Training and development](#)

British Sleep Society: (i) [Academic programmes](#) (ii) [Courses](#) (iii) [Events](#) (iv) [Webinars](#)

[European Respiratory Society](#) (ERS): Education, funding and continuing professional development

[American Association for Respiratory Care](#): Competencies for Entry into Respiratory Therapy Practice

Committee on Accreditation for Respiratory Care (US): Accreditation Standards for [Degree Advancement Programs](#) & [Advanced Practice Programs](#) in Respiratory Care

[The National Alliance of Respiratory Therapy Regulatory Bodies](#) (Canada): National Competency Profile/ Framework for the Profession of Respiratory Therapy; Part 1 – [Entry to Practice](#) & Part 2 – [Throughout career](#)

[Advances in Medical Education and Practice](#): Clinical Competencies in Advanced Practice Respiratory Therapy Education: Is It Time to Entrust the Learner?

[BMJ Thorax](#): Comprehensive respiratory assessment in advanced COPD: a ‘campus to clinic’ translational framework

[European Respiratory Journal](#): Defining a training framework for clinicians in respiratory critical care

[American Journal of Respiratory and Critical Care Medicine](#): Curriculum and Competency Assessment Tools for Sleep Disorders in Pulmonary Fellowship Training Programs

[Workplace Health & Safety](#): Development of Competencies for Respiratory Protection for Health Care Workers

Nursing

Organisation	Framework	Description
British Thoracic Society	A professional development framework for adult respiratory nursing	The document has been developed to address generic respiratory nurse competencies, and reflects the Four Pillars of Practice of a Nurse Specialist and Multi-Professional Framework for Advanced Clinical Practice i.e. clinical expertise, leadership, research, education and

		training. The competency framework provides a potential career pathway , for nurses, from a band 5 nurse to nurse consultant.
British Thoracic Society	A professional development framework for paediatric respiratory nursing	The document has been developed to address generic paediatric respiratory nurse competencies, and reflects the Four Pillars of Practice of a Nurse Specialist and Multi-Professional Framework for Advanced Clinical Practice i.e. clinical expertise, leadership, research, education and training. The competency framework provides a potential career pathway, for paediatric nurses, from a band 5 nurse to nurse consultant.

Other supportive resources:

NHS England: (i) [Evidence Brief: Respiratory Nursing Workforce](#) (ii) [Developing a Specialist Respiratory Placement for Student Nurses](#)

British Thoracic Society: (i) Mapping a [career path](#) for adult respiratory nurses (ii) Respiratory nurse specialist [job descriptions](#)

Association of Respiratory Nurses (ARNS): [Bursaries](#)

[Royal College of Nursing](#): Career progression tips

Nursing and Midwifery Council: [Becoming a prescriber](#) + [approved programmes](#)

Critical Care National Network Nurse Leads Forum ([CC3N](#)): [Education standards](#) and [competencies](#)

British Society for Allergy and Clinical Immunology: [Allergy Nurse Competency Document](#)

Oxford Handbook of Respiratory Nursing: [Chapter 2: Why work in respiratory nursing?](#)

[European Respiratory Journal](#): A training needs analysis of UK respiratory nurses' research capability and capacity

[Nurse Education in Practice](#): The education of UK specialised neonatal nurses: Reviewing the rationale for creating a standard competency framework

Medical

Organisation	Framework	Description
Joint Royal College of Physicians Training Board (JRCPTB)	Curriculum for Respiratory Medicine Specialist Training	The purpose of the respiratory medicine curriculum is to guide the training of speciality trainees who are aiming for dual certification in respiratory and internal medicine. Completion of training will provide them with the knowledge and skills to manage a full range of general medical and acute and chronic respiratory problems at the level expected of an independent unsupervised practitioner. This will ensure they have the capabilities required to acquire a certificate of completion of training in Respiratory and Internal Medicine and allow them to apply for an NHS consultant post.
Royal College of Paediatrics and Child Health	Framework of Competencies for level 3 training Special Interest Module in Paediatric Respiratory Medicine	For doctors at Level 3 in their General Paediatric Training who wish to work towards an expertise in Paediatric Respiratory medicine during Level 3 training. Competencies include: knowledge and understanding; values and attitudes; leadership and management; and communication skills.

Other supportive resources:

British Thoracic Society: (i) [Workforce](#) (ii) [Specialty Respiratory Trainees](#) & [Specialty Trainee Advisory Group](#) (iii) [Consultant Respiratory Physicians](#) (iv) [Careers](#)

The Faculty of Intensive Care Medicine: dual and triple CCTs i.e. [intensive care medicine and respiratory medicine](#) and [intensive care medicine, respiratory medicine and general internal medicine](#)

The Royal College of Paediatrics and Child Health: [SPIN](#) Module curriculum in [Paediatric Respiratory Medicine](#)

British Paediatric Respiratory Society: [Training](#)

[Royal College of Physicians](#): Specialty career profile: respiratory medicine

[BMJ Careers](#): The complete guide to becoming a respiratory medicine doctor

NHS Physician Higher Specialty [Training Recruitment](#): Respiratory Medicine

NHS Certificate of Eligibility for [Specialist Registration](#): Respiratory Medicine

[European Respiratory Journal](#): Respiratory critical care HERMES syllabus: defining competencies for respiratory doctors

Allied Health Professionals

Organisation	Framework	Description
NHS England	Allied Health Professions' Support Worker Competency, Education, and Career Development Framework	The Framework provides guidance on training, education and competencies for AHP support workers employed in NHS services and NHS funded services. It supports education providers to plan and deliver accredited education, and ICSs to take a coordinated approach. Supports three linked workforce strategies that are aimed at recruiting local people directly into AHP entry-level roles, where vacancies exist; developing existing support staff so they can perform at the top of their scope of practice; and creating clear end-to-end progression routes

		linked to formal education programmes, including access into AHP degrees.
<u>Chartered Society of Physiotherapy</u>	Physiotherapy Framework	The framework defines & describes the behaviours (& underpinning values), knowledge & skills required for contemporary physiotherapy practice: at all levels - from a new support worker through to a senior level registered physiotherapist; across a variety of occupational roles – clinical, educational, leadership, managerial, research, & support; in a variety of settings – in health & social care, in industry & workplaces, in education & development, & in research environments.

Other supportive resources:

British Thoracic Society: (i) Workforce: [a] [Specialist Respiratory Physiotherapists](#) [b] [Speech and Language Therapists](#) [c] [Advanced clinical practitioners](#) (ii) [Quality Standards](#) for Pulmonary Rehabilitation in Adults

NHS England: (i) [AHPs making an impact](#) in cardiovascular and respiratory disease (ii) [AHPs working differently](#): Rapid Response Team (iii) [Service Guidance](#) - Pulmonary Rehabilitation (iv) [Digitally enhanced pulmonary rehabilitation](#)

European Respiratory Society: Introducing the harmonised respiratory [physiotherapy curriculum](#)

Association of Chartered Physiotherapists in Respiratory Care: [Publications](#)

Royal College of Speech and Language Therapists: (i) Upper airway disorders within adult respiratory services – [overview](#) (ii) Promoting the profession: [resources](#)

National Clinical Programme Respiratory (Ireland): [Competency Framework](#) for Pulmonary Rehabilitation services

Breathe: (i) [Physiotherapy](#) in respiratory disease (ii) Introduction of the [harmonised respiratory physiotherapy curriculum](#)

The Ultrasound Journal: A [proposed framework for point of care lung ultrasound by respiratory physiotherapists](#): scope of practice, education and governance

Health & Care Professions Council: [Prescribing](#) + [Approved programmes](#)

[ACPRC](#): Extended Scope Practice - Non-Medical Prescribing

Healthcare Science

Organisation	Framework	Description
Association for Respiratory Technology & Physiology	Professional Standards	This document describes how to maintain a high professional standard when working within a respiratory and/or sleep physiology department. It is aimed at all staff working within the physiology service including locums and students on work placement. The document can be used either as a standalone guide and/or in conjunction with local induction procedures to highlight the level of professionalism required of the different team members with varying levels of experience (students, trainees, etc.).
National School of Healthcare Science	Graduate Diploma in Respiratory Science	A 1 year programme to upskill graduates from a cognate science undergraduate degree to the level of a PTP graduate
National School of Healthcare Science	Post Graduate Certificate in Sleep Medicine	A 1 year programme to deliver the underpinning science to deliver a clinical role in sleep medicine, open to multidisciplinary colleagues working in an appropriate environment.

Other supportive resources:

NHS England: (i) [Introduction to Respiratory](#) and Sleep Science (ii) Respiratory Science and Sleep Medicine [Training programme](#) including [employer guidance](#) (iii) Practitioner training programme (PTP) BSc [Healthcare Science Curriculum](#) - Cardiovascular, Respiratory and Sleep Sciences (iv) [Scientist Training Programme](#) - Respiratory & Sleep Science (v) Certificate of Completion of the Scientist Training Programme (CCSTP) [training programme](#) - Cardiac, Critical Care, Vascular, Respiratory & Sleep Sciences (CCVRS) (vi) Apprenticeship: Healthcare Science [cardiorespiratory](#) + [sleep science](#)

Academy for Healthcare Science: [Education and Training](#)

Association for Respiratory Technology and Physiology: (i) [Professional qualification](#) (ii) [Courses](#) (iii) [Spirometry certificate](#) (iv) [sleep certificate](#) (v) [Blood Gas Sampling & Analysis certificate](#)

British Thoracic Society: Respiratory Physiologists – [training routes](#)

European Sleep Research Society: [Examination and certification](#)

Royal College of Physicians: Recognising the [vital role of healthcare scientists](#), clinical physiologists and technologists

[Respiratory Matters](#): ARTP Competency Assessment and entry onto the National Spirometry Register

Breathe: [Advanced roles in respiratory healthcare science](#): it's not just spirometry

Pharmacists

Organisation	Framework	Description
International Pharmaceutical Federation	Knowledge and skills reference guide for professional development in chronic respiratory disease	This knowledge and skills guide provides a comprehensive reference list of knowledge and skills in pharmaceutical and related care to support pharmacists to develop, upskill and refresh knowledge and skills in CRDs and related roles in pharmacy. This guide supplements the FIP handbook on CRDs for pharmacists (below) and was developed in consultation with a global reference group
International Pharmaceutical Federation	FIP knowledge and skills reference guide for tobacco cessation and other risk factors in NCDs	This knowledge and skills guide provides a comprehensive reference list of knowledge and skills in pharmaceutical and related care to support pharmacists to develop, upskill and refresh knowledge and skills for managing patients with tobacco addiction. This guide supplements the FIP Supporting tobacco cessation and the treatment of tobacco dependence: A handbook for pharmacists (below) and was developed in consultation with a global reference group.
Royal Pharmaceutical Society	Core Advanced Pharmacist Curriculum	The RPS core advanced curriculum describes the entry-level standard for advanced pharmacists working in any patient focussed role. It bridges the gap between the RPS post-registration foundation curriculum and the RPS consultant pharmacist curriculum . It provides a credentialing assessment to assure pharmacists have the capabilities to practise at an advanced level.

<p style="text-align: center;"><u>Royal Pharmaceutical Society</u></p>	<p style="text-align: center;">A Competency Framework for all Prescribers</p>	<p>This competency framework has been developed and updated to support prescribers in expanding their knowledge, skills, motives and personal traits, to continually improve their performance, and work safely and effectively. The competencies within the framework are presented as two domains and describe the knowledge, skill, behaviour, activity, or outcome that prescribers should demonstrate: domain one 'the consultation' and domain two 'prescribing governance'.</p>
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Other supportive resources:

International Pharmaceutical Federation: (i) [Chronic respiratory diseases](#): A handbook for pharmacists (ii) [Supporting tobacco cessation and the treatment of tobacco dependence](#): A handbook for pharmacists

British Thoracic Society: [Pharmacists](#)

Royal Pharmaceutical Society: (i) The pharmacy [contribution](#) to antimicrobial stewardship (ii) Infection and Antimicrobial Stewardship: Expert Professional [Practice Curriculum](#)

Centre for Pharmacy Postgraduate Education: [Respiratory](#)

UK Clinical Pharmacy Association: [Respiratory](#)

The Pharmaceutical Journal: [Helping respiratory patients breathe easy](#)

GPHC: [Becoming an independent prescriber](#) + [accredited independent prescribing programmes](#)

Higher Education Courses

All Health Professionals

University/Qualification	Qualification	Description/ Modules
<u>Imperial College London</u>	Cardiovascular and Respiratory Healthcare – MSc/ PGDip/ PGCert	Designed to suit people from a wide range of healthcare backgrounds, this course will enable you to enhance your career in your chosen field. You'll receive academic and research training in a wide range of aspects associated with the clinical management of cardiovascular and respiratory healthcare. You'll also discuss new technologies for the prevention, diagnosis and management of ill health, and examine their impact on the delivery of person-centred healthcare.
<u>York St. John University</u>	Advanced Respiratory Medical Practice (PG Cert, PG Dip, or MSc)	This is a unique model of continued professional development for allied health professionals. You will learn from industry experts in intimate learning groups. You will gain a postgraduate level award, whether that is a PG Cert, PG Dip full MSc, in your chosen area of Advanced Respiratory Practice. The award you choose will determine the duration of the course, as well as how many modules you will study. The course is aimed at qualified professionals working in UK health and social care, such as physiotherapists or occupational therapists, seeking to develop advanced practice in a specific clinical area.
<u>University of Chester</u>	MSc Respiratory Medicine	This course is an academic programme designed to develop and further your understanding and knowledge of respiratory medicine focusing on up-to-date research and developments in the diagnosis and treatment of respiratory diseases. The course is suitable for healthcare professionals, researchers and intercalating medical students. It investigates the different types of respiratory problems and various complications. You will review current

		guidelines and their evidence base in the therapeutic management of respiratory disease, and disease and explore potential new therapies.
<u>University of South Wales</u>	Respiratory Medicine (online) (PG Cert & MSc)	This Masters course has been developed for health professionals who are interested in a leadership roles within Respiratory Medicine. The MSc Respiratory Medicine aims to create professionals who can independently access information and use the information to critically assess, evaluate and disseminate the evidence base related to Respiratory Medicine.
<u>University College London</u>	Respiratory Clinical Science (MSc)	This MSc focuses on studying the scientific and clinical basis of respiratory diseases. You will learn about all the key concepts relevant to respiratory medicine, including respiratory biology and disease, genetics, immunology, biochemistry, microbiology, lung repair and regeneration, animal models, pathophysiology, pharmacology, physiology, and occupational and environmental lung disease. Also, gain the practical, analytic and transferable skills that are essential for conducting your own respiratory medicine research.
<u>University of Birmingham</u>	Respiratory Medicine (MSc, PGDip & PGCert)	This taught programme provides you with an overview of common conditions in respiratory medicine, their diagnosis and management, and the balance of public health, community, and secondary care input to the overall service delivery in the speciality. Provide an in-depth understanding of the common conditions and concepts relevant to community based respiratory medicine including: Chronic obstructive pulmonary disease, Asthma, Cough and Sleep apnoea. Equip you with a comprehensive understanding and practical knowledge of acute respiratory problems, and complex lung conditions managed in a secondary care setting including: TB and other respiratory infections, Non-invasive ventilation, Interstitial lung disease, Lung cancer, Cystic fibrosis and Allergy

<p><u>University of Edinburgh</u></p>	<p>Respiratory Medicine PhD</p>	<p>This course's major areas of research interest are: cellular and molecular mechanisms of the resolution and persistence of lung inflammation and scarring; mechanisms of acute lung injury in the adult respiratory distress syndrome; gene therapeutic approaches to the augmentation of genes that protect against tissue injury in lung inflammation; biology of small-cell lung cancer; the effects of cigarette smoke, ozone and other pollutants on the lung; sleep apnoea; and applied lung physiology. The unit also offers several research opportunities in areas of clinical interest, for example: asthma; chronic bronchitis; emphysema; and cystic fibrosis.</p>
<p><u>University of Nottingham</u></p>	<p>Respiratory Medicine (PhD, DM, MPhil, MRes)</p>	<p>Specific subject titles have included: Respiratory Medicine. Other subject titles delivered by the Division of Respiratory Medicine have included: Therapeutics.</p>
<p><u>Edge Hill University</u></p>	<p>Advanced Cardiothoracic Care - PGCert</p>	<p>This Postgraduate Certificate prepares practitioners for the innovative, specialist and advanced roles in cardiothoracic practice which are emerging in line with the NHS vision of delivering high quality, effective and compassionate care in the 21st century. It has been designed for qualified staff from a variety of professional backgrounds, including nurses and operating department practitioners, as well as allied health professionals such as cardiac catheterisation laboratory technicians, respiratory physiologists, physiotherapists and bioscience physiologists.</p>
<p><u>Oxford Brookes University</u></p>	<p>Cardiorespiratory Practice - PgCert</p>	<p>This course will enable you to achieve professional development and experience in the specialist area of cardiac and/or respiratory care. You will develop your critical understanding of cardiorespiratory practice. By applying evidence based practice, you will deliver the best outcome of care for the patient and their family. Students are able to learn by participating in clinical practice activities within their own cardiac or respiratory unit and are able to develop new clinical skills.</p>

University of Bolton	MSc Advanced Clinical Practice (Respiratory)	<p>Developed for health and social care practitioners who want to progress to advanced level in their field, this course is designed to equip you with the knowledge and skills necessary for roles that require greater responsibility and levels of decision making. Students from a variety of health and social care backgrounds come to us to build on their theoretical and practical abilities. Covering content such as disease awareness, patient examination and diagnostics, leadership and innovation, this work-based programme aims to help you develop your clinical skills and leadership abilities to become a flexible practitioner able to respond to the challenges of your role and your developing service.</p>
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Nursing

University/Qualification	Qualification	Description/ Modules
Imperial College London	MSc Cardiorespiratory Nursing	<p>The course is modular and pursued part-time over two calendar years. The course is designed to provide up to date knowledge and assist you identify the evidence upon which to base both current and future practice. Subjects covered include: cardiac and or respiratory specialist practice (including modules on caring for the patient with heart failure or cystic fibrosis), physical assessment, resuscitation, policy and practice, applied healthcare research (both qualitative and quantitative), evidence-based health care, healthcare ethics and a dissertation. The course is designed for nurses wishing to further their careers as clinical and academic practitioners and provides a platform from which to pursue a PhD.</p>
University of Limerick	Nursing (Respiratory Care) MSc	<p>A key goal of this programme is to prepare practitioners for the challenges of leading and delivering specialist/ advanced level respiratory care across a variety of settings. To achieve this goal, programme content focuses on providing practitioners with the theoretical underpinnings, clinical exposure</p>

		and competence for the development of knowledge and skills in areas of assessment and therapeutic interventions for persons with a respiratory condition.
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Allied Health Professionals

University/Qualification	Qualification	Description/ Modules
<u>Keele University</u>	Advanced Physiotherapy (Cardio-Respiratory) - MSc	Enhance your knowledge and expertise as a Physiotherapist with the opportunity to specialise in cardio-respiratory physiotherapy at postgraduate level. You will advance your skills through a specialist route that enables you to broaden your skills in a constantly evolving profession. You will engage with the underpinning science of physiotherapy, advancing your clinical skills and building key research skills through critical analysis and evaluation.
<u>University College London</u>	Physiotherapy Studies: Cardiorespiratory – MSc/ PgDip/ PGCert	This postgraduate programme integrates the clinical, academic and research components of cardiorespiratory physiotherapy practice. The emphasis is on the management of patients with cardiorespiratory disorders. Offers you the opportunity to extend your understanding of key areas in cardiorespiratory physiotherapy, including challenging the foundations of established but poorly justified treatments, developing and undertaking clinical research. You will learn about new and emerging treatment options and benefit from the mentorship of recognised experts in cardiorespiratory physiotherapy.
<u>University College London</u>	Advanced Physiotherapy: Cardiorespiratory – MSc	This postgraduate programme integrates the clinical, academic and research components of cardiorespiratory physiotherapy practice. The emphasis is on the management of patients with cardiorespiratory disorders. Offers you the opportunity to extend your understanding of key areas in cardiorespiratory physiotherapy, including challenging the foundations of established but poorly justified treatments, developing and undertaking clinical research. You will

		learn about new and emerging treatment options and benefit from the mentorship of recognised experts in cardiorespiratory physiotherapy.
<u>University of Birmingham</u>	Physiotherapy (pre-registration) - MSc	Master's degree will develop your clinical leadership knowledge and skills over 3 different practice areas; including musculoskeletal, cardio respiratory and neurology. You will learn in specially built clinical skills rooms, with specialist space so you can get the best training possible. Development of key skills, including communication, research and professionalism will enable you to become a compassionate and competent practitioner who can deliver effective, evidence-based and quality-driven care. Modules include 'Cardiovascular and Respiratory evidence based practice'
<u>Glasgow Caledonian University</u>	Physiotherapy (pre-registration) - MSc	Use your existing degree in kinesiology or sports science to develop clinical reasoning of assessment and rehabilitation, and progress your career in the NHS. Develop new insight in the areas of neuromusculoskeletal, cardiovascular and respiratory therapeutics and neurorehabilitation – combining traditional study with comprehensive hands on experience in clinical placements. Modules include 'Cardiovascular and Respiratory Therapeutics'
<u>University of Plymouth</u>	Advanced Professional Practice in Physiotherapy - MSc	Are you a qualified physiotherapist looking to enhance your current skills and knowledge whilst developing a strong critical thinking ethos? This programme offers you the opportunity to review your current practice and evaluate new approaches, ensuring that you are equipped to meet the challenges of working in an ever changing physiotherapy profession with confidence. Module options include 'Asthma and COPD – management in primary care', 'Advancing practice in long term conditions'

<p><u>Queen Margaret University</u></p>	<p>Physiotherapy (pre-registration) – PgDip/ Msc</p>	<p>This MSc Physiotherapy (Pre-Registration) course offers an accelerated route to gain a recognised qualification in physiotherapy practice. It will develop the theoretical, practical, analytical and evaluative skills necessary to apply for registration with the Health and Care Professions Council (HCPC) as a physiotherapist. Modules include ‘Cardiorespiratory Physiotherapy’.</p>
<p><u>St. Mary’s University</u></p>	<p>Physiotherapy (pre-registration) - Msc</p>	<p>This course provides you with the knowledge, understanding and skills required to manage patients suffering from a range of conditions or musculoskeletal injuries, from the acute stage through to return to sport or activity. This includes working as part of a multidisciplinary team in the care of different patients. Modules include ‘Management and Rehabilitation of Cardio-Respiratory and Pulmonary Conditions’.</p>
<p><u>Oxford Brookes</u></p>	<p>Physiotherapy (pre-registration) - Msc</p>	<p>Our MSc in Physiotherapy (Pre-Registration) is a qualifying course for graduates with a relevant first degree. It provides the opportunity to undertake a physiotherapy course leading to registration at master’s level. Working at masters level, you will focus on developing your knowledge of physiotherapy, which is evidence-based and underpinned by research. Modules include ‘Cardio-Respiratory Research’ and ‘Physiotherapy Management of Long Term Conditions’.</p>
<p><u>University of Chichester</u></p>	<p>Physiotherapy (pre-registration) - Msc</p>	<p>This degree is ideal for graduates with related first degrees who want to gain a professional academic qualification and start a career in the challenging and rewarding field of physiotherapy. This accelerated two-year course follows evidenced-based practice principles and focuses on active learning and practical application. With a suitable balance of theory and practical experience, you will graduate a capable and confident physiotherapist. Modules include ‘Cardio-Respiratory Physiotherapy’.</p>

<u>University of Brighton</u>	Physiotherapy (pre-registration) - Msc	This accelerated course follows innovative problem-based learning approach, with an emphasis on students' active learning, engagement, and practical application of skills and knowledge in the context of real life situations. Through this balance of theory and practice experience you will graduate a capable and confident physiotherapist. Modules include 'Cardio-Respiratory Management'.
<u>University College London</u>	Advanced Physiotherapy: Musculoskeletal- MSc	This postgraduate programme integrates the advanced clinical, academic and research components of musculoskeletal physiotherapy practice. The emphasis is on advanced clinical reasoning and evidence-informed management of patients with musculoskeletal disorders. The programme offers students the opportunity to evaluate and challenge existing practice, develop and undertake clinical research and learn about new and emerging treatment options. Students will develop clinical skills and understanding of evidence-based practice in their field of specialisation through the completion of taught modules and a compulsory clinical placement module.
<u>University of Chichester</u>	Physiotherapy (pre-registration)	This accelerated two-year course follows evidenced-based practice principles and focuses on active learning and practical application. With a suitable balance of theory and practical experience, you will graduate a capable and confident physiotherapist. Modules include 'Cardio-Respiratory Physiotherapy'.

Healthcare Scientists

University/Qualification	Qualification	Description/ Modules
<u>Kings College London</u>	Human & Applied Physiology - MSc	This course will give you an advanced theoretical and practical understanding of the functioning of the muscular, respiratory and cardiovascular systems, including the effects of extreme environmental conditions on whole-body physiology. You will study topics from both systemic and cellular/molecular perspectives in order to gain an understanding of the breadth of investigative

		approaches employed in human physiology research. You will also focus on practical work, learning how to plan and run experiments using human subjects. Ultimately, we aim to equip you with the knowledge and skills to enhance your understanding and expertise in human physiology in its broadest sense and build a career in a related field.
<u>Imperial College London</u>	Biomedical Research (Respiratory and Cardiovascular Science)	Specialise in respiratory and cardiovascular science and build your biomedical research skills on this Master's course. You'll analyse the basic physiology of cardiac function, as well as the pathophysiology of major cardiovascular diseases and major respiratory diseases. Extensive theoretical and practical skills training will prepare you for employment roles within a biomedical environment, on a programme that incorporates grant writing, technical workshops and journal clubs.
<u>Manchester Metropolitan University</u>	Human Physiology - MSc	On this masters course, you'll build advanced knowledge of different systems or specialisms. You will not only learn how our bodies work, but you'll also develop the key techniques and technologies for investigating normal and abnormal physiology. From the lab-based work that helps to develop new treatments and therapies to the clinical care that touches (and saves) lives. You will have the opportunity to deep dive into a topic of your choice with an independent research project. Modules include 'Cardiorespiratory Physiology'.

Physician Associate

University/Qualification	Qualification	Description/ Modules
<u>University of Bradford</u>	Master of Physician Associate Studies	This programme is suitable for graduates from life sciences or health courses and is designed to prepare students to enter the professional role of Physician Associate (PA). The Master's component of this course is focused on achieving the competencies required of a graduate PA and provides the

		challenges of enhanced knowledge synthesis, audit, and service improvement to produce Physician Associates with the ability to lead and develop the profession. Year One teaching consists of integrated units of study focussed on systems of the body (e.g. cardiovascular, respiratory).
<u>Anglia Ruskin University ARU</u>	Physician Associate - MSc	In your first year of this Master's degree course you'll study on ARU's Chelmsford campus in the School of Medicine. Alongside lectures, tutorials, practical workshops and simulated skills work, you'll also go on primary care <u>placements</u> in GP surgeries. You'll spend all of the second year following a programme of clinical placements in general practice, hospital wards and outpatient settings across the East of England. Module 'Medical Practice & Patient Care 1' covers respiratory system.
<u>Bangor University</u>	Physician Associate	Graduates from this course will have a broad and relevant set of transferable skills with a focus on medical history-taking, clinical examination, analysis of test results, clinical reasoning and diagnosis, and the development of evidence-based patient management plans. Our Physician Associate course was one of the first of it's kind in the UK. It will utilise the best teachers in medical science and clinical practice in north Wales - all of whom have a track record of teaching, research and clinical excellence in their specialist fields.

Short Courses

University/Qualification	Qualification	Description/ Modules
University of Hertfordshire	Foundations of Managing Asthma Short Course	<p>This course is aimed at healthcare professionals and healthcare support workers who participate in the delivery and management of care for people with asthma, their families and carers. Successful learners will demonstrate appropriate skills and knowledge in the diagnosis, treatment and management of asthma and using current clinical guidelines will be able to suggest, initiate and vary treatment in response to assessment of individual clinical needs. Learners of the asthma course will be able to tailor their learning to suit their clinical situation. Assessment will incorporate the key issues in asthma management and will enable students to understand asthma in relation to their patient population.</p>
University of Hertfordshire	Enhancing Asthma Care in Professional Practice Short Course	<p>This course is aimed at any healthcare professional who wants to develop a leading role in the delivery and management of services for people with asthma and their families. This course aims to equip learners with the knowledge and skills to develop as autonomous practitioners in safe, effective and evidence-based practice in the field of asthma. This multi-professional course focuses upon the assessment and management of the individual with asthma within the context of the wider community. Importance is placed on a patient centred approach, the health needs of the individual, health promotion and self-empowerment, whilst acknowledging the professional, political and social climate within which services are provided.</p>

<p><u>University of West England</u></p>	<p>Asthma Care and Management</p>	<p>On successful completion of this module, you will be able to: Identify, justify and critically debate the relevant literature, including policy, professional and academic relating to asthma service provision. Critically discuss and evaluate asthma service implementation/development strategies based upon either your own professional practice or case studies provided within the module. Evaluate and critically review current theories of asthma associated pathophysiology, relating this to a wide range/various types of anti-asthma therapy and management strategies. Articulate and formally review how lifespan influences disease aetiology, management and the health care professional/service user therapeutic relationship. Select and justify a range of diagnostic strategies and ongoing management assessment and management strategies to help identify and care for those with asthma/at risk of developing asthma across the life span.</p>
<p><u>University of Cumbria</u></p>	<p>Asthma Management (Level 7)</p>	<p>Course is to develop in-depth knowledge and understanding in the assessment and management of children and adults presenting with asthma. On successful completion, you will be able to: Critically review the pathophysiological processes occurring in the development of asthma, demonstrating application of this knowledge to practice; evaluate the methods used in making a diagnosis of asthma, highlighting the complexity in a variety of diagnostic methods; obtain patient histories to demonstrate, identify and critically analyse the influencing factors in assessing a patient with asthma, adapting as appropriate to individual needs; evaluate the treatment options used in asthma and recommend appropriate evidence based therapeutic interventions; and apply and evaluate evidence based health promotion interventions to patients and carers in the management of asthma, including the management of the biopsychosocial implications of this diagnosis.</p>

<u>University of Central Lancaster</u>	Management of Asthma & COPD	<p>This module is aimed at nurses and other health care practitioners who are working, or wish to expand their knowledge in the care and management of asthma and COPD. It prepares practitioners to work with greater autonomy in this field and will equip them with the knowledge and skill to take responsibility for leading and influencing the development of the management of asthma and COPD in primary care settings.</p>
<u>City University of London</u>	Asthma and Chronic Obstructive Pulmonary Disease (MSc)	<p>This course explores the anatomy, physiology, pathology and pharmacology of asthma and COPD and shows you how to apply these concepts to your clinical practice. This course is for any healthcare practitioner who wishes to extend their knowledge and understanding of either asthma and COPD or both. As this is level 7 course you should ideally have studied at level 6 or 7 previously.</p>
<u>University of Derby</u>	Asthma: Basic Mechanisms and Clinical Management	<p>On successful completion of the module you will be able to: Recognise key aspects of professional knowledge and competence in Asthma management that promotes logical decision making in normal, complex and unpredictable contexts. Evidence the ability to deploy accurately established techniques of analysis and treatment within the realms of asthma management. Reflect on and critically evaluate your own professional role in understanding and facilitating self management of the person with asthma.</p>
<u>University College London</u>	Respiratory Through Life, Health and Disease	<p>This online course for physiotherapists explores normal development and functioning of the respiratory system in health and disease. You'll learn about the normal development, anatomy and physiology of the respiratory system, including their application to some key respiratory conditions in their pathophysiology and presentation. This can guide assessment, examination and differential diagnosis.</p>

<u>University of Hertfordshire</u>	Enhancing COPD Care in Professional Practice Short Course	<p>This multi-professional course focuses upon the assessment and management of the individual with COPD within the context of the wider community. Importance is placed on a patient centred approach, the health needs of the individual, health promotion and self-empowerment whilst acknowledging the professional, political and social climate within which services are provided.</p>
<u>University of Hertfordshire</u>	Enhancing the diagnostic and management of respiratory disease – level 7 module	<p>This module is suitable for healthcare professionals (HCPs) and professions allied to medicine (PAMs) who are involved in the differential diagnosis and management of respiratory disease. This module will enable learners to ensure the timely and effective diagnosis and appropriate management of people presenting with respiratory symptoms. Symptoms such as breathlessness, cough and wheeze are common in a range of respiratory (and other) conditions and this module supports HCPs and PAMs to take a deductive and analytical approach to making a diagnosis.</p>
<u>University of Hertfordshire</u>	Essentials of Asthma	<p>This CPD-accredited course is aimed at learners who are new to working with asthma patients and would like an overview of the disease, diagnosis, and management. This is designed for practitioners who have recently begun to, or are preparing to, support patients with asthma. This may include newly qualified nursing staff, HCAs and HCSWs, social care staff, or experienced healthcare professionals who have been recently deployed in asthma.</p>
<u>University of Hertfordshire</u>	Essential of COPD	<p>This CPD-accredited course is aimed at learners who are new to working with COPD patients and would like an overview of the disease, diagnosis, and management. This is designed for practitioners who have recently begun to, or are preparing to, support patients with COPD. This may include newly qualified nursing staff, HCAs and HCSWs, social care staff, or experienced healthcare professionals who have been recently deployed in COPD.</p>

<p><u>University of Hertfordshire</u></p>	<p>Non-Invasive Ventilation (NIV) and Respiratory Failure – Level 7</p>	<p>This module is designed to enable learners to evaluate outcomes, share best practice and improve health outcomes. The complex nature of respiratory failure and management will be explored using selected clinical scenarios which include end of life and symptom control. In addition, non-invasive ventilation outside of the critical care is examined including ventilator design and functionality, patient and clinician safety and staff education and training. This builds on participants existing knowledge and experience of non-invasive ventilation. During the module you will learn to recognise the various different pathways to respiratory failure and explain the methods of non-invasive support and when to use them.</p>
<p><u>University of Hertfordshire</u></p>	<p>Principles of COPD for Professional Practice Short Course</p>	<p>This course will equip learners with the knowledge and skills to improve the care of people with COPD in hospital and community settings. Sound knowledge, underpinned with essential practical skills and techniques equips them to participate effectively in the care of patients with COPD. Successful learners will demonstrate appropriate skills and knowledge in the diagnosis, treatment and management of such patients and, using current clinical guidelines, will be able to suggest, initiate and vary treatment in response to assessment of individual needs.</p>
<p><u>University of Hertfordshire</u></p>	<p>Respiratory Assessment and Examination – Level 7</p>	<p>This module has been designed to enable the student to analyse the role of history taking, respiratory assessment and examination in the diagnosis of respiratory conditions. Students will advance their knowledge and understanding of the assessment process to consider the complex interrelationships between patient and practitioner and to evaluate the appropriate use of investigations and clinical examination, enabling them to work through the diagnostic process systematically, using reasoned deduction. The module contributes to the development of knowledge and</p>

		understanding of clinical examination and the principles which underpin respiratory assessment and diagnosis.
<u>University of Hertfordshire</u>	Respiratory Diagnostics – Level 7	This module, will address the principles underpinning a number of respiratory investigations and will seek to provide studies with a critical view of the accuracy and validity of the tests, by consideration of the concepts of sensitivity and specificity. Linked to this the students will also explore the importance of utilising the patient and the patient's history to both guide the selection and interpretation of investigation results to reach firm conclusions to inform diagnosis.
<u>University of Hertfordshire</u>	Spirometry Package	This Online Learning Package is designed for healthcare professionals who are responsible for performing, recording and interpreting spirometry in adults, or a combination of these. The learning materials combine interviews with respiratory experts, podcasts and eLearning chapters. The content is created by a team of expert clinicians and aligns with ARTP standards. Each month, a live interactive tutorial is held to ensure learners have opportunities to check their understanding with their clinical tutor, ask questions and share best practice with other learners. The live monthly tutorial is divided into three groups, to ensure content and discussions are pitched at the right level for each learner's needs (beginner to intermediate; intermediate to advanced; and HCAs). The Spirometry online learning package is specifically designed to give learners the knowledge and know-how to demonstrate competence in spirometry; enabling learners to assess their patients with both confidence and competence. You can also purchase a version which includes access to the ARTP assessment process.

<u>University of Hertfordshire</u>	Spirometry Refresher	<p>This Spirometry Refresher with access to ARTP assessment course has been designed for learners who have spirometry experience but are not currently on the ARTP Register. These learners need to refresh their knowledge around spirometry and complete their ARTP accreditation.</p>
<u>University of Sunderland</u>	Undergraduate Certificate of Achievement in Respiratory Practice	<p>The aim of this 10 credit module is to equip those whose work involves managing patients who have respiratory diseases to develop their knowledge and skills in this area. This programme has been developed to be innovative in approach and develop theoretical and practical skills relevant for practice whilst promoting a holistic, patient centred approach to management. The module will cover focused consultation skills, diagnosis of asthma and COPD incorporating World Health Organisation (WHO) and National Institute for Clinical Excellence (NICE) guidelines, the fundamentals involved in managing patients with respiratory disease, pharmacological management of patients with respiratory diseases, practical skills such as spirometry and inhaler usage and the basics of a respiratory examination.</p>
<u>Buckinghamshire New University</u>	Respiratory care	<p>Develop the knowledge and skills required to provide competent, effective, evidence-based care for patients with respiratory conditions. Develop a critical approach to clinical care, health promotion, rehabilitation, ethical decision-making and palliative interventions within respiratory care environments.</p>
<u>Imperial College London</u>	Smoking cessation	<p>This module looks at the guidelines, policy and legislation in relation to Tobacco. Smoking cessation strategies are explored in detail.</p>