

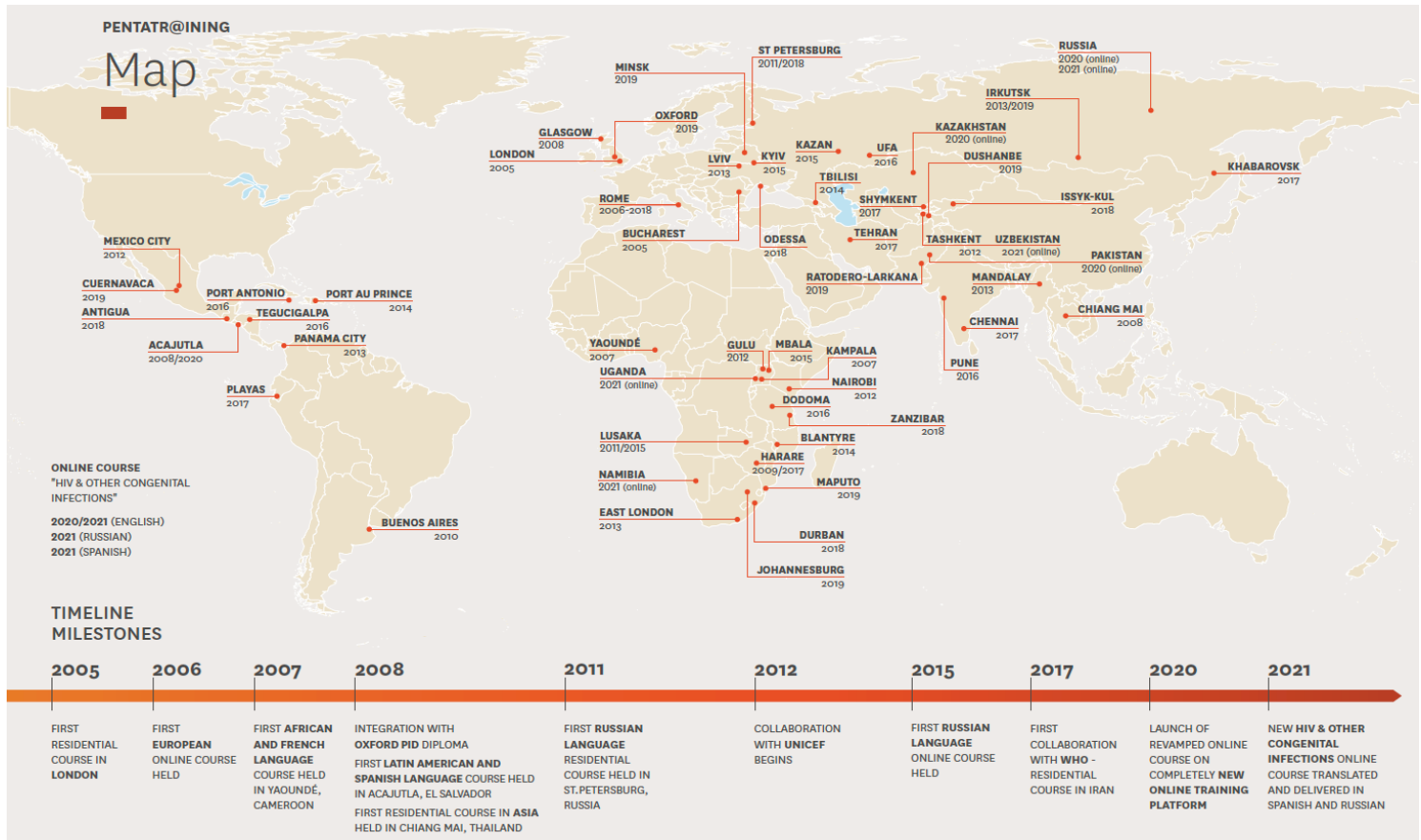
# PentaTr@ining: ‘Fungal Infections in Paediatrics’

----- *An Interactive Training Course* -----

**PentaTr@ining** is an innovative training platform which offers a variety of in-depth courses that continue to evolve in response to the changing needs of children, young people and families living with infectious diseases. Since 2005, Penta has organized training programmes for healthcare workers caring for HIV infected children, using integrated distance ‘e-learning’ with interactive residential courses. The success of our unique training programmes has led us to repeat the same experiences not only in Europe, but around the globe, and with a particular focus on limited-resource settings. While existing training content is constantly being updated and readapted to local clinical need, we are excited to now be specifically addressing some new topics in the management of other diseases, namely invasive fungal infections in paediatrics.

Among our top priorities is to ensure we deliver new and improved treatment options for fungal infections in neonates and children worldwide. However, a global problem requires global collaboration. The Penta network offers a cross learning platform to ensure sharing of expertise between the high-income countries and low- and middle-resource settings. Our network connects researchers and collaborators to enable them to undertake studies, introduce best practice, undergo training and carry out clinical activities. The key aim of Penta Fungal Infections Working Group is to provide training opportunities across the world in an affordable and easy-to-access way. There is a paucity of teaching and training in medical mycology in general and specifically in medical curricula. We aim to address this need through the delivery of this exciting new online course.

We are proud to have a fully briefed and expert teaching faculty on board which guarantees the delivery of an up-to-date and scientifically rigorous syllabus. Included among the speakers, tutors and authors of the online modules are many of the most senior frontline clinicians working in the field of paediatric fungal infections today. An additional benefit for participants of this course is the real opportunity to build national and international networks for future collaboration and clinical support, as well as linking centres for epidemiological and clinical research.



## Training Objectives

- To highlight knowledge gaps and provide more guidance around existing treatment strategies and guidelines using case-based teaching
- To share specialist knowledge and experience in the management of paediatric fungal infections
- Building and enhancing national international networks for future collaboration and clinical support – providing lasting links to allow ongoing sharing of expertise
- Linking centres for clinical care, as well as epidemiological and clinical research
- To promote and share best practice in clinical research
- To foster meaningful, enduring and verifiable change in day-to-day clinical/professional practice

## **Online e-learning**

We have developed training modules within a child-centered teaching model to support ongoing learning needs using innovative e-learning methods. This programme consists of 6 comprehensive modules, released fortnightly, and is targeted at paediatric consultants and trainees. The course implements animated case presentations to mimic the clinical context in which decision-making takes place with respect to differential diagnosis, diagnostic modalities to be used and treatments to be prescribed. The practical case-based curriculum includes a series of expert video lectures, real-life case studies and treatment flow sheets, designed to test the students' ability to manage individual cases. As well as incorporating lively discussion forums with feedback and online tutoring, the learning is reinforced with a wealth of useful educational resources such as infographs, pictures, associated tables and figures, references and links to major websites of interest, and a dedicated digital library with relevant articles and other further reading material.

Live '**Ask the Expert**' Q&A webinars will also be incorporated into the online learning experience, whereby the delegates can engage with the faculty in real-time and pose any additional burning questions they may have related to the course content. The modules are designed in a way that consolidates knowledge acquired as the course progresses, thus preparing delegates to be proactive participants during the live Q&A sessions.

The modules cover the following topics:

- 1) Fungal infections in children with haematological malignancies
- 2) HIV/AIDS associated mycoses
- 3) Invasive candidiasis in neonatal and paediatric intensive care settings
- 4) Fungal infections in children with primary immunodeficiencies
- 5) Neglected fungal diseases in children
- 6) Skin and mucosal mycoses in children

The design of our Learning Management System (LMS) has been specifically tailored for this training course. The virtual learning environment is highly user-friendly and provides a shared space for students and teachers to solve problems together and engage in a collaborative and synergistic building of knowledge. It maintains a learning portfolio for each participant and enables student interaction, which is managed by a dedicated technical support team. This work will be carried out in collaboration with our valued partners [ASSIST Creative Lab](#).

Pre- and post-module tests for each module will help participants and tutors to monitor the efficacy of the online learning. Active discussion forums allow for specific questions to be raised and for rewarding group interaction. The platform also provides the learner with access to essential educational documents, as well as embedded video material. The e-learning platform user friendly and easy to navigate, and is also fully compatible with mobile and tablet devices. A final evaluation of the online training will be carried out on successful conclusion of the course. On submission of the course evaluation, an individual certificate of completion is awarded to the student.

## Our Approach



### High Quality Tailored Content

Tutored online training and real life clinical cases



### Acclaimed faculty

Highly experienced, world class faculty



### Long term commitment

Networking opportunities to forge lasting clinical, teaching and research networks



### Innovative learning design

Use of discussion forums and interactive webinars

Our immersive training course will improve the professional capacity of even the most remote and isolated care givers to manage children with invasive fungal infections.

By the end of the course, we expect the learner to:

- be able to diagnose and treat invasive fungal infections in childhood and its complications, using internationally recognized treatment guidelines (incl. WHO)
- be able to assess the risk profile of the individual patient based on underlying condition and chemotherapy regimen
- be able to appreciate risk factors and recognize early signs and symptoms of invasive fungal disease in specific cohorts of children
- be able to interpret the results of the various fungal diagnostic tools
- be familiar with the EORTC/MSG criteria for the definition of the likelihood of IFD
- be able to differentiate empiric and pre-emptive treatment strategies and its advantages and disadvantages
- be able to make a rational treatment choice and the use of therapeutic drug monitoring
- be aware of the specific drug-drug interactions, including those with vincristine
- know how to access support through clinical, research and educational networks
- be ready to disseminate this knowledge in their own country and place of work

PENTATR@INING

# What is our impact?

IN **2021**, WE MEASURED MEANINGFUL IMPACT AND ENDURING CHANGES IN PRACTICE AMONG PARTICIPANTS OF **6** PENTATR@INING COURSES.

SAMPLE SIZE:  
**628** PEOPLE  
**29%** RESPONSE RATE

Has the training course increased your confidence in applying treatment guidelines?



Has your own professional practice changed in any way since the training?



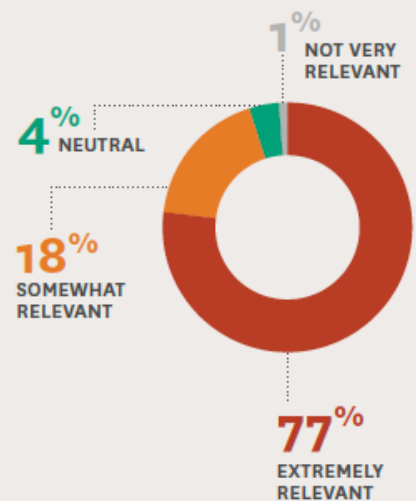
Had you had the opportunity to share acquired knowledge and help train your own colleagues?



Has your Institution begun implementing changes in day-to-day practice as a result of the training?



How would you rate the overall relevance of the course?



## Course Organizers

**Prof. Adilia Warris** – University of Exeter (UK); Great Ormond Street Hospital (UK); Fungal Infections Working Group Lead, Penta (Italy)

**Dr. Laura Ferreras-Antolin** – St. George's University Hospitals NHS Foundation Trust (UK); Fungal Infections Working Group Co-Lead, Penta (Italy)

**Dr. Steve Welch** – Penta Training & Education Lead; University Hospitals Birmingham NHS Foundation Trust (UK)

**Mr. Peter McEneaney** – Training Manager, Penta (Italy)

## **Course Dates**

19<sup>th</sup> September – 15<sup>th</sup> December, 2022

## **Course Registration fee and conditions**

Registration Fee for:		Registration Fee for:	
<ul style="list-style-type: none"> <li>• ESPID members</li> <li>• Non-ESPID members</li> </ul>		<ul style="list-style-type: none"> <li>• Participants from resource-limited settings*</li> </ul>	
<b><u>ESPID Fee</u></b>	<b><u>Regular Fee</u></b>	<b><u>LMIC Fee</u></b>	
€200	€250	Waived*	

**\*IMPORTANT:** Countries included in the low-income, lower-middle-income and upper-middle-income economies list of the World Bank economy [classification](#). Applicants should provide proof of their current residence (e.g. copy of passport). There are a **strictly limited number of places** reserved for LMIC delegates.

Full registration includes: individual password for access to online course, participation in the live Q&A webinar sessions, and final certificate of attendance.

**PLEASE NOTE:** Submission of your registration does not guarantee that your registration has been accepted. Your registration is finalized when full payment has been received and a receipt of your payment has been sent.

You will receive all the necessary information for the payment once you have completed the online Registration form.

## **Cancellation Policy**

In case of cancellation the following refunds are applicable:

- Cancellation within 20 days from receipt of payment = 100% refund (minus an administration fee of €10)
- Cancellation after 20 days from receipt of payment = 50% refund

For further information please contact the course organizers or visit the Penta website:

Email: [pentatraining@pentafoundation.org](mailto:pentatraining@pentafoundation.org) – Website: <https://penta-id.org>