

Integrating Pharmacogenetics to Optimize DDI in Onco-Haematological Patients with Infectious Complications: an international training initiative

Aula Lenti

**Department of Medical Sciences - University of Turin
Corso Bramante 88 , Turin**

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RATIONALE

The increasing complexity of therapeutic regimens in oncology, onco-hematology, and infectious diseases has significantly heightened the risk of clinically relevant drug–drug interactions (DDIs). The concomitant use of anticancer agents, antimicrobials, and supportive therapies requires a comprehensive and multidisciplinary approach to ensure treatment efficacy and patient safety. In this context, pharmacogenetics and clinical pharmacology represent a promising tool to better understand interindividual variability in drug response and to refine DDIs management strategies.

OBJECTIVES

This international training initiative aims to integrate the expertise from oncology, infectious diseases, and clinical pharmacology, providing participants with both theoretical knowledge and practical tools for optimizing the management of DDIs in complex clinical settings.

KEY LEARNING OUTCOMES

At the end of the workshop, participants will be able to:

- Understand the clinical relevance of DDIs in oncology, onco-hematology, and infectious diseases
- Identify high-risk drug combinations involving anticancer agents, antifungals, and antibiotics
- Evaluate the contribution of pharmacogenetics in predicting drug interactions and variability in treatment response
- Apply pharmacogenetic and clinical pharmacology knowledge to optimize therapeutic strategies in real-world scenarios

- Strengthen multidisciplinary and international collaboration in the management of complex patients

FACULTY

Alessandro Busca, SS Trapianto Allogeneico Cellule Staminali, AOU Città della Salute e della Scienza, Torino, Italy.

Dario Cattaneo, Unit of Laboratory Medicine, IRCCS Humanitas Research Hospital, Rozzano, Milan, Italy.

Silvia Corcione, Department of Medical Sciences, Infectious Diseases, University of Turin, Turin, Italy.

Jessica Cusato, Candiolo Cancer Institute; Department of Medical Sciences, Laboratory of Clinical Pharmacology and Pharmacogenetics, University of Turin, Turin, Italy.

Francesco Giuseppe De Rosa, Department of Medical Sciences, Infectious Diseases, University of Turin, Turin, Italy.

Tommaso Lupia, Department of Medical Sciences, Infectious Diseases, University of Turin, Turin, Italy.

TBD, Department of Oncology, University of Turin, AOU Città della Salute e della Scienza di Torino, Torino, Italy.

Georgia Ragia, School of Pharmacy, Aristotle University of Thessaloniki, Greece.

LANGUAGE

The official language of the Workshop is English. There is no simultaneous interpretation.

PARTICIPANTS AND ITALIAN CME

The target audience includes HCPs who are interested in the management of Onco-Haematological Patients with Infectious Complications.

CME credits are designed for Physicians (Disciplines: Oncology, Hematology, Pneumology, Nephrology, Infectious Diseases and Microbiology), Biologists and Biotechnologists, Pharmacists and Laboratory Technicians.

ORGANISING SECRETARIAT & CME PROVIDER

HealthData Consulting S.r.l.

via Morghen, 27 Torino - Italy

P.IVA 01429280058

Phone: +39-011-0267950 - Fax: +39-011-0267954

SCIENTIFIC PROGRAMME

12:00 Light lunch

13:00 Welcome and introduction (**S. Corcione, J. Cusato**)

13:15 Drug-drug interactions in oncology (**TBD**)

13:45 Drug-drug interactions in onco-hematology (**A. Busca**)

14:15 Q&A
14:30 The role of ID specialist in the management of antibiotic therapy (**F.G. De Rosa**)
14:50 The role of ID specialist in the management of antifungal therapy (**S. Corcione**)
15:10 Q&A
15:30 Coffee break
15:50 The role of clinical pharmacologist in the management of DDIs (**D. Cattaneo**)
16:10 The role of pharmacogenetics in the DDIs (**J. Cusato**)
16:30 Pharmacogenetics in onco-hematology” (**G. Ragia**)
17:00 Q&A
17:20 Interactive clinical cases (**T. Lupia**)
18:00 Closing remarks and CME Questionnaire
18:15 Light aperitif