



Postgraduate European Radiopharmacy Course – PERC 2021 Module 1: Pharmacy and Legislation

In September 2021, University of Ljubljana, Faculty of Pharmacy successfully conducted a two-week Postgraduate European Radiopharmacy Course - PERC 2021, Module 1 in collaboration with the University Medical Centre Ljubljana, Department of Nuclear Medicine and ETH Zurich. The programme is accredited with 10 ECTS. The course took place between 30 August and 10 September 2021. Twenty-five participants from Europe (United Kingdom, Denmark, Austria, Estonia, Sweden, Italy, Germany, Netherlands, Croatia, Norway, Slovenia, Switzerland), Asia (Hong Kong) and North America (Canada) attended the course.

Due to the current pandemic situation, the course was conducted online, using the platform MS Teams. For this purpose, a team was created and all participants and lecturers were added to the team. All activities took place in this team and participants could find the handouts of the current lectures under the "Files" tab in the group. To enhance the "face-to-face" spirit of the course, the team consisted of subgroups that allowed for closer interaction between participants.

PERC, Module 1: "Pharmacy and Legislation" is an intensive two-week theoretical course with practical exercises. The course is one of the essential theoretical blocks required for the European Certificate of Specialisation in Radiopharmacy. It is open to pharmacists, chemists and biochemists who hold at least a university master's degree or equivalent in accordance with the regulations of ETH Zurich (<http://www.radiochem.pharma.ethz.ch/postgraduate-programme/general-information.html>) and are involved in the preparation, quality control, release or research and development of radiopharmaceuticals in nuclear medicine departments, research institutions and/or the pharmaceutical industry. The course covers the fundamentals of pharmaceutical technology, drug development, formulation, evaluation, including biopharmaceutical aspects and European legislation. Special emphasis is given to best practises and quality assurance in parenteral solutions and clinical trials. The lectures were given in English by lecturers from the University of Ljubljana, Faculty of Pharmacy, visiting professors from Austria, Switzerland and the Netherlands, as well as experts from the University of Ljubljana, Faculty of Medicine, the Agency for Medicinal Products and Medical Devices of the Republic of Slovenia, the pharmaceutical company Lek, a Sandoz company, and the University Medical Centre Ljubljana.

To successfully complete the course, participants have to pass an oral and written exam. The oral exam took place on the last day of the course. After each lecture, students had to reflect on the content by writing down some new, particularly interesting and applicable points about the topic. These points were called "AHAs" and "TO -DOs". The students had to discuss these points with their fellow students (in pairs) and prepare a short presentation which they presented on the last day during the oral examination. The examination board consisted of professors from the University Medical Centre Ljubljana, Department of Nuclear Medicine and the Faculty of Pharmacy. As part of the written exam, each of the students has to prepare a standard operating procedure (SOP) on the topics suggested by the organizers or on a topic from

their everyday work. They have to submit the SOP before the final written exam, which will take place in February 2022.

PERC consists also of Module 2: »Radiopharmaceutical chemistry« organized by the ETH Zurich, and Module 3: »Related topics: radiopharmacology and clinical radiopharmacy« organized by University of Leipzig.

For more information:

<http://www.ffa.uni-lj.si/en/study/specializations/postgraduate-european-radiopharmaceutical-chemistry-radiopharmacy-course>

<http://www.radiochem.pharma.ethz.ch/postgraduate-program/module-i.html>

