

RESEARCH AND INNOVATION TRAINING ITINERARY FOR RESIDENT INTERNAL PHARMACISTS

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What was done?

Design specific research and innovation (R&I) training program for Internal Resident Pharmacists (IRP) as a cross-disciplinary area.

Why was it done?

The official hospital pharmacy training program (1999), includes outdated and incomplete content. This update aims to ensure essential R&I knowledge, create a reference framework for evaluating research competencies, and promote impactful R&I projects.

How was it done?

In March 2024, a team of tutors, the R&I head, residents, the Pharmacy Department head, in collaboration with a project manager and the Innovation Unit, reviewed the official program, training plan, and competency evaluations. They selected the most relevant and accessible skills for residency.

What has been achieved?

Basic competence: RESEARCH METHODOLOGY

- Knowledge (exam):
 - Bibliographic search. Reference managers
 - Epidemiology. Evidence-based medicine
 - Clinical research. Good clinical practice
 - Real-life evidence
 - Introduction to statistics
- Skills (direct observation + practical cases):
 - Bibliographic management
 - Critical reading
 - Statistics interpretation
- Attitudes (direct observation):
 - Proactive research attitude, critical thinking

Advanced competence: PROJECT MANAGEMENT

- Knowledge (exam):
 - Innovation project conceptualization
 - Research protocol writing
 - Schedule and budget management
 - Patient information sheet and informed consent writing
 - Research Ethics Committee documentation
 - Public/private competitive calls search
- Skills (portfolio):
 - R&I project management
- Attitudes (direct observation):
 - Leading innovative projects in multidisciplinary teams

Advanced competence: DATA PROCESSING AND DISSEMINATION

- Knowledge (exam):
 - Data protection. Case Report Form (CRF)
 - Scientific writing
 - Scientific communication publication
- Skills (portfolio, direct observation):
 - CRF design and implementation using REDCap[®]
 - Data management with business Intelligence and statistics software
 - Publications, conference communications, research grants, or doctoral thesis
- Attitudes (Direct observation):
 - Responsibility in data protection
 - New technology implementation

What's next?

Reorganize content for phased implementation over the four-year residency period, ensuring that the curriculum evolves to incorporate emerging trends in pharmacy practice and R&I methodologies.

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