# STRENGHTENING COMPETENCES IN HOSPITAL PHARMACY



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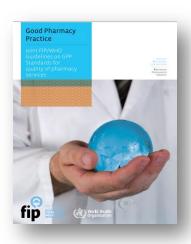
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## **Hospital pharmacy**

 Specialisation of pharmacy essential for appropriate use of drugs in hospitals



- The tasks of a hospital pharmacist are as follow:
  - Medicines management in hospitals, including all stages of the medication process (selection, procurement, manufacture, storage, distribution, administration)
  - Enhancing the safety and quality of medicine related processes
  - Ensuring the monitoring of the 7 "right" rules: patient, medicine, dosage, route of administration, time, information and documentation

European association of Hospital Pharmacists

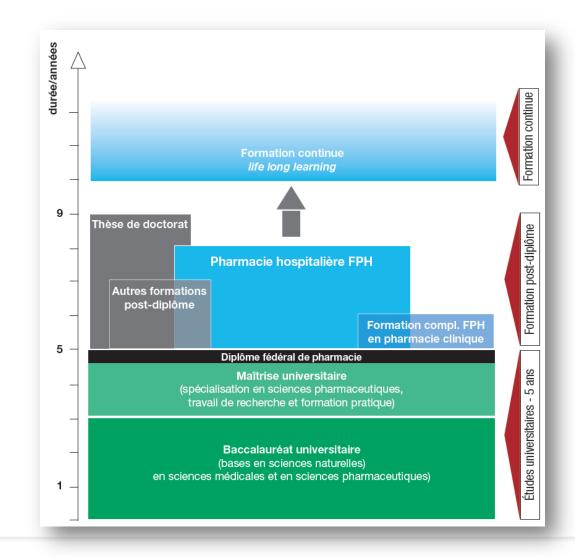




#### Pharmacists' Education



Swiss example







## Situation in developing countries

Lack of access to specialized training in hospital pharmacy

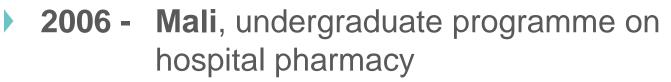


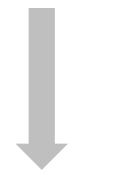




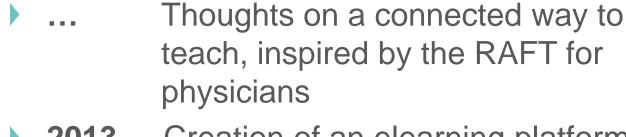
## **Evolution of the project**







Requests from other countries to teach hospital pharmacy, without possibility to answer positively





2013 - Creation of an elearning platformPharm-Ed (www.Pharm-Ed.net)

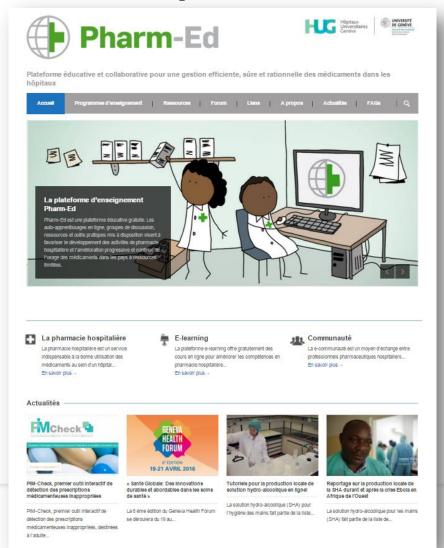




#### Pharm-Ed:

#### An educational and collaborative platform

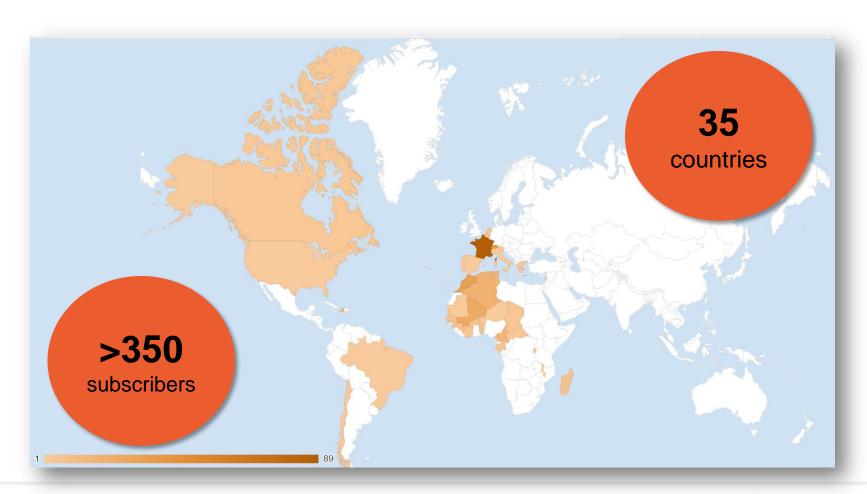
- Specific to hospital pharmacy
- French speaking countries
- Free and open (but registration required)



Section des sciences pharmaceutiques



## **Pharm-Ed community**







#### **Available lessons**

	Introduction	General	Specific
7	Hospital Pharmacy and Quality of Care	Medicines policies and Selection	Evidence based practice
	Medicines flow and policies	Drugs and Therapeutic Committee	Risks related to cytotoxic medicines
	Hospital drug manufacturing	Promoting rational use of medicines	Incident management related to cytotoxic medicines
	Sources of drug information	Regulatory references related to medicines production in hospital	Hand hygiene: general aspects
	Clinical Pharmacy and Drug Information Center	15	Formulation and production of alcohol-based handrub



Quality assurance & lessons

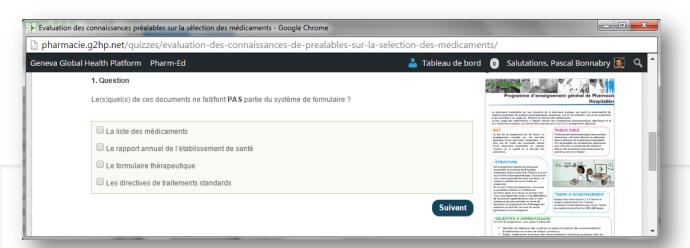
...others to follow...





## Interactivity

- Animations
- Quizz
- Videos
- Ressources to download
- Evaluation and certification





Articulate Storyline®



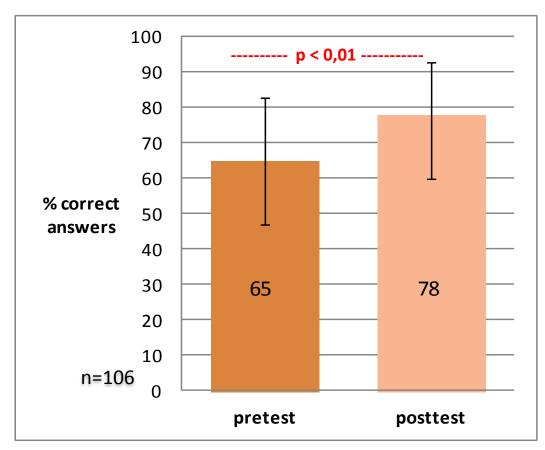
#### **Evaluation**

## Average normalized learning gain = 37%



98% satisfaction

#### Average results







## e-Learning: limitations

- Feeling of isolation
- Lack of student-teacher interaction and tutor support
- Lack of in-depth group discussion
- Students indicated a preference for real-life discussions rather than virtual discussions
- Internet access in developing countries is not always reliable

WHO 2015, http://www.who.int/hrh/documents/14126-eLearningReport.pdf





## **Blended learning**

## **Drug & Therapeutics committee**

- e-learning for theoretical concepts
- Pharm-Ed:2 lessons



Workshop for practical cases Live in Cotonou12 attendees from6 African countries(3 days)



- Dissemination in the different countries
- Seminar in Morocco50 attendees from all the country





#### In a nutshell

- Strengthening pharmaceutical service performances is essential to increase rational use of medicines
- Unfortunately specialized pharmacists and teachers are missing
- Pharm-Ed is an original answer that should contribute significantly to reach out and train more hospital pharmacists in LMIC







## Perspectives

To make our project growing...

Content	New lessons to progressively cover the whole field of hospital pharmacy	
Users	Continuous communication to increase the number of users	
Sustainability	➤ Securing the long-term financing	





### THANK YOU FOR YOUR ATTENTION

