



# Pharm-Ed: a hospital pharmacy educational and collaborative platform for resource-limited countries

Sandrine von Grünigen<sup>1,2</sup>, Pascal Bonnabry<sup>1,2</sup>,

<sup>1</sup> Geneva University Hospital, Pharmacy, Geneva, Switzerland

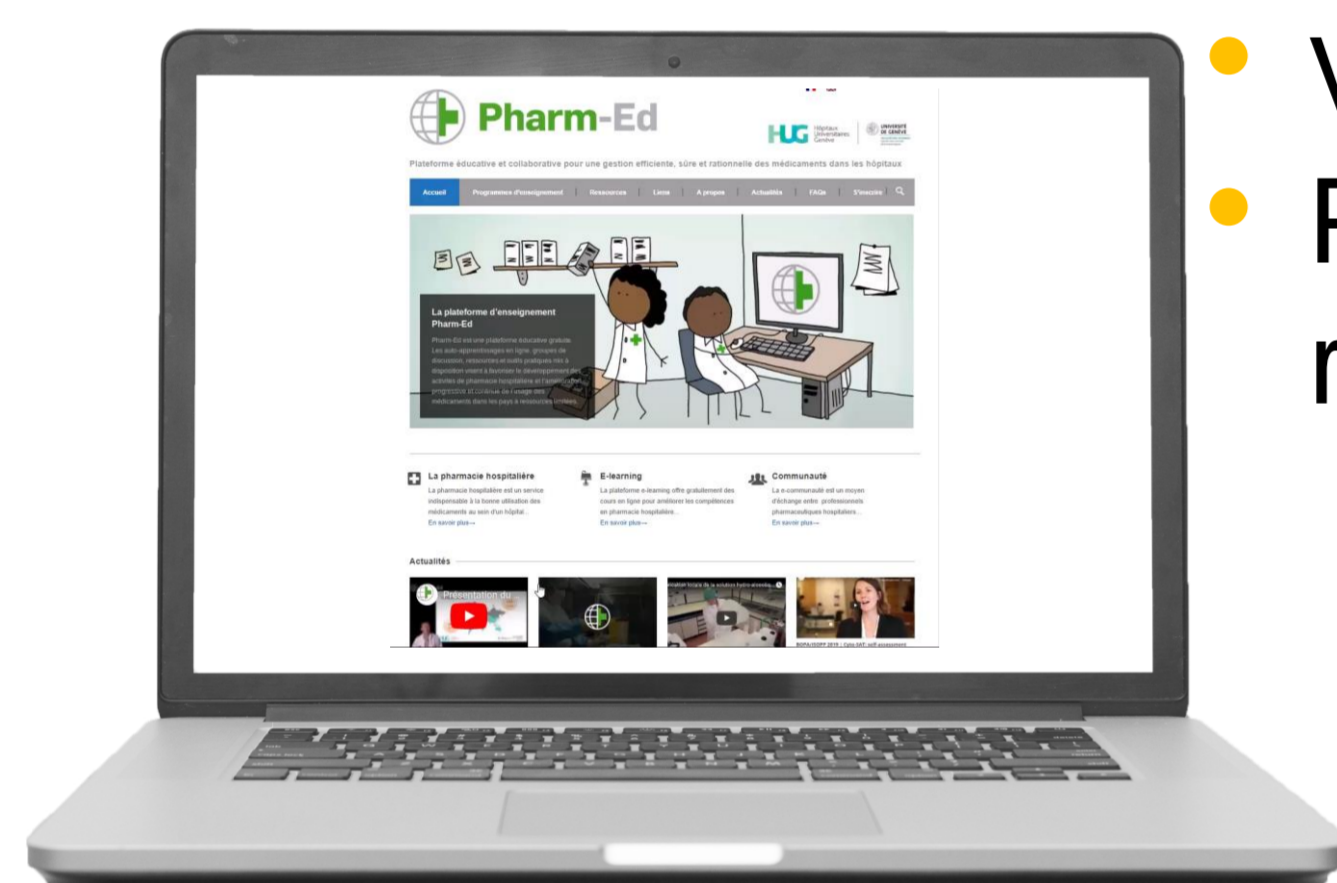
<sup>2</sup> Institute of Pharmaceutical Sciences of Western Switzerland, School of pharmaceutical sciences, University of Geneva, Geneva, Switzerland.

## Objectives

- To strengthen capacities of the pharmaceutical staff
- To promote performant pharmaceutical services to ultimately ensure quality of care and patient safety
- To develop a professional network and promote collaboration between resource-limited countries

### Free Online Educational Platform (in French)

[www.Pharm-Ed-net](http://www.Pharm-Ed-net)



- E-learning
- Video tutorials
- Practical tools/ resources library



Since 2013

### Professional Network

#### Pharm-Ed focal points

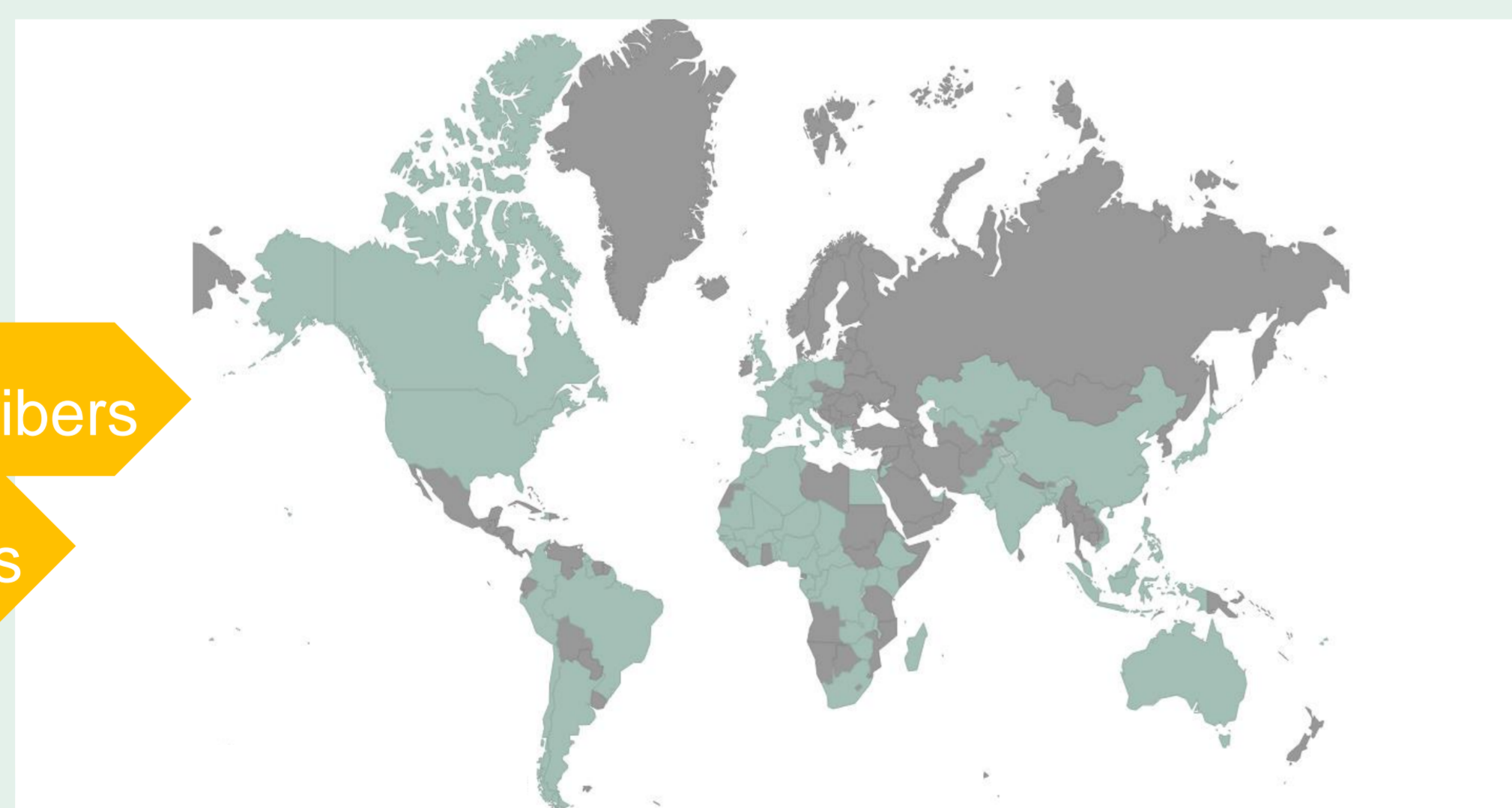
- Promote Pharm-Ed locally
- Participate in the establishment of a national network
- Relay information
- Collect, and identify training needs
- Participate in the organization of seminars/webinars



## Results

>3100 subscribers

>80 countries



41 Lessons

> 300 resources

> 17 000 downloads

Introduction program	General program	Specific program
<b>Introduction to hospital Pharmacy</b> <ul style="list-style-type: none"> <li>Contribution of hospital pharmacy to the quality of care</li> <li>Medication flow and policy</li> <li>Medicines compounding</li> <li>Sources of information on medicines</li> <li>Pharmaceutical assistance and clinical pharmacy</li> <li>Quality assurance and risk management</li> </ul>	<b>Supply and Stock management</b> <ul style="list-style-type: none"> <li>Medicines policy and selection</li> <li>Economic aspects of the medicine formulary</li> <li>Health product procurement</li> <li>Quantification of health products</li> <li>Stock management                             <ul style="list-style-type: none"> <li>Physical stock management</li> <li>Stock tracking tools</li> <li>Stock status monitoring</li> </ul> </li> <li>Dispensation and distribution of medicines in the hospital</li> </ul> <b>Promoting rational use</b> <ul style="list-style-type: none"> <li>Impact of advertising on professionals</li> <li>Towards a rational use of medicines</li> <li>Drug and therapeutic committee</li> </ul> <b>Compounding and quality control</b> <ul style="list-style-type: none"> <li>Regulatory texts related to medicines</li> </ul> <b>Quality assurance and risks management</b> <ul style="list-style-type: none"> <li>Risk management: general concepts</li> <li>Proactive risk management methods</li> <li>Substandard and falsified medicines: an introduction</li> <li>How to prevent substandard and falsified medicines in hospitals</li> </ul>	<b>Modules on chemotherapy</b> <ul style="list-style-type: none"> <li>Risks related to chemotherapy drugs</li> <li>Training of staff</li> <li>Logistic specificities</li> <li>Securing the prescribing process</li> <li>Securing the compounding process</li> <li>Personal protective equipment</li> <li>Compounding premises</li> <li>Biosafety cabinet/isolators</li> <li>Cytotoxic waste management</li> <li>Securing the administration of chemotherapies</li> <li>Incident management</li> <li>Extravasations</li> </ul> <b>Module on hand hygiene</b> <ul style="list-style-type: none"> <li>Hand hygiene: clinical aspects</li> <li>Local production of alcohol-based solution for hand hygiene</li> </ul> <b>Clinical Pharmacy and pharmacotherapy:</b> <ul style="list-style-type: none"> <li>Evidence-based practices</li> <li>Clinical Pharmacy: an introduction</li> <li>Identify, understand and manage indication issues</li> <li>Heart failure</li> <li>Atrial fibrillation and drug-induced long QT syndrome</li> <li>Cerebral stroke</li> </ul>

Scan me



### Knowledge improvement

39% learning gain



94% (n=1307)

overall satisfaction (format and content)

## Conclusion

- Growing global interest
- Innovative hospital pharmacy training
- Supporting resource-constraint settings