

Future pharmacists: How to link education, research & training with production

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Principles & Recommendations

1. To co-ordinate the alignment of all education, training and research functions to ensure the delivery of the highest quality education, training and research relevant to the needs of the health service
2. To act as a vehicle to allow for communication, discussion, collaboration and exchange of information and learning on a multidisciplinary basis in the areas of education and training and research
3. To advise on and work towards compliance with relevant standards set by statutory and regulatory bodies in the area of professional education
4. To advise on the planning of education, training and research initiatives and ensure that these are supportive of an interdisciplinary policy approach and are reflective of the change and transformation underway in the health sector

GLOBAL TRENDS

- Global trends in education centre on the growing importance of formal external accreditation of training posts and programmes and the setting of and adhering to evidence-based standards in order to produce healthcare professionals-pharmacists who are truly fit for purpose. Furthermore, the importance of continuing professional development – the constant upkeep of skills to meet new patient care needs – and formal processes for externally validated professional competence assurance are universally accepted as central to the provision of safe patient services
- Trends in health research also demonstrate the benefits of a clinically-driven cross-discipline approach to research. In particular, the development of Clinical Research Centres on clinical sites promote translational research and facilitate an interdisciplinary approach to research

FACULTY of PHARMACY: OBJECTS

- at the first graduate level, the education of students periodically adjusted to the ever increasing needs of pharmaceutical science and technology but also to changes in the pharmaceutical profession
- at research: into new fields of pharmaceutical science
- Pharmacy Education in our country lasts five years and includes courses and workshops. Still it is necessary that the students of Pharmacy to conduct internships in both community pharmacy and in Hospital Pharmacy for 12 months. At the end of the studies, the pharmacist should give examinations for acquiring professional license

EU COMMUNITY PHARMACY KEY FACTS AND FIGURES I

- Approximately **98% of EU citizens can reach their nearest community pharmacy within 30 minutes, while 58% of citizens** indicate that their closest community pharmacy is within **5 minutes** reach from their work or home. Pharmacies in the majority EU countries are required to ensure that premises have access for people with disabilities
- Community pharmacists in the EU are **highly qualified** healthcare professionals
- Community pharmacies across EU employ **400.000 pharmacists, as well as over 600.000 other** pharmacy support staff and provide training sites for pharmacy students
- For many years pharmacists have been in the **top 10 of the most trusted professions** according to consumer surveys
- There are **154.000 community** pharmacies in the EU, Pharmacies are the most widely distributed healthcare facility in Europe

European Public Health Alliance 2013

Pharmaceutical Group of European Union 2012 ©

EU COMMUNITY PHARMACY

KEY FACTS AND FIGURES II

- Community pharmacists complete at least 5 years of university based education including 6 months training in the pharmacy
- “Computerisation of pharmacies is **99.99%**”
- On average, **the medicines budget is 17%** of the total health budget
- **194,500 deaths** a year in the EU are from taking the wrong dose and non-adherence to prescribed medication
- **Non-adherence** is estimated to cost the European Union **€125 billion annually**

European Public Health Alliance 2013

Pharmaceutical Group of European Union 2012 ©

EU COMMUNITY PHARMACY

KEY FACTS AND FIGURES III

- Community pharmacies are accessible to over **500** million EU citizens. Among the **23 million people who** visit a community pharmacy everyday are the most vulnerable and those with the list means
- Over **9,5 billion prescription** only medicine packs are dispensed in Europe annually. The great majority of medicines are prescribed in primary care setting and therefore dispensed in the community pharmacy
- In addition, community pharmacists acquire specific competencies and develop expert professional practice for the field of community pharmacy and are required continuously to update their knowledge and skills to make sure they are 'fit for practice'. **Continuing professional development or lifelong learning is a professional and ethical obligation of community** pharmacists and is being reinforced in many EU countries

European Public Health Alliance 2013

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The PanHellenic Union of Pharmaceutical Industries

PEF represents the collective domestic pharmaceutical production of both branded generics, patented pharmaceutical product forms and OTCs in 27 state-of-the-art production units throughout Greece.

Exports to more than **85 countries** worldwide.

Employees directly a **work force of 11,000 people.**

Contributes to the national GDP **2.8 bn EUR annually.**

Conducted more than **80 research programs** with Academic contribution.

According to IOBE 2013 for every 1,000 EUR spent on domestically manufactured medicines, GDP increases by 3,420 EUR (source IOBE,2013)

Greece 2020 - Pharmaceutical Industry

PanHellenic Union of Pharmaceutical Industry has set:

Goals by 2020

- Enhance export activities by 50%
- Increase workforce by 30%
- **Double Investment in R&D (currently EUR 30 million annually)**
- **Establish new R&D clusters**

Strategy

- Technological differentiation
- Enhance business partnerships with actors within EU and abroad
- Extraversion focused at new markets
- **Establish an R&D roadmap**

Panhellenic Union of Pharmaceutical Industry - PEF

The pharmaceutical industry employs pharmacists mostly to research and development, regulatory and quality assurance departments

Uses growth profile in order to link education with employment and production

Running a management program for senior executives of pharmaceutical industry in collaboration with the Faculty of Pharmacy and Administration at the University of Piraeus

Thank you for your attention

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