

Pharmacy Education: Global trends and wider perspectives

Professor Ian Bates Head of Education Development Director, FIP-WHO-UNESCO Global Taskforce

Joint Programmes Board & School of Pharmacy, University of London





Pharmacy Workforce Trends – Equity?

Berne and Stiefel framework (1984)

Applied to the "equity" challenge asks four guiding questions:

for whom, what, how and how much.

Measuring equity



Data trends...

"Course Experience Questionnaire" (CEQ36) (Ramsden et al) Measures the 'Learning Experience', from student perspective

Clusters into 6 domains:

- Good Teaching
- Clear Goals
- Appropriate Workload
- Independence in learning
- Assessment
- Generic Skills

The Learning Experience...



Income (sample %)





Motivation



Pharmacy Workforce Trends

Shortages

*insufficient capacity to train workforce, poor retention*Workforce distribution imbalance *rural/urban, public/private*Practice role development *need for education to be relevant to local needs*Increasing migration (within and between countries)
Poor utilisation of skills

(2006 FIP Global Pharmacy Workforce and Migration Report <u>ww.fip.org/hr</u>)



Practitioner workforce – per capita



www.worldmapper.org 2004 WHO data





Professional migration

791 final year pharmacy student respondents

9 countries:

Australia, Croatia, Singapore, Portugal, Zimbabwe, Bangladesh, Nepal, Egypt, Slovenia

Mean age: 22 years

61% respondents female

Top destination countries: UK, USA, Australia

Intention to migrate

52% all respondents plan to migrate 60% plan long-term migration (> 2 years)

80% of international students plan to migrate 80% plan long-term migration Implications for cross-border education?

Students with past experience abroad are more likely to migrate (79% vs 49%, p<0.001).

Variation in intention between and within countries 13% (Croatia) – 90% (Bangladesh) Influence of education on attitudes & intention?



Proportion of respondents intending to migrate within the next five years

Factors and the intention to migrate



Drivers of Migration

Factor 1:

Professional practice environment and status in own country (10 items, α = 0.8)

Factor 2: Opportunity to develop career and resources abroad (4 items, α = 0.7)

Factor 3:

Social and political environment in own country (5 items, α = 0.7)



Mean factor z-scores by migration intentions of respondents

Temporary vs. Long term migration decisions



Workforce shortages and education capacity

Migration is a symptom, NOT the cause

"International migration is neither the main cause nor would its reduction be the solution to the worldwide health human resources crisis."

J Dumont, P Zurn. OECD. Immigrant health workers in OECD countries in the broader context of highly skilled migration. 2007.

Workforce shortages and education capacity

Quality and equity in pharmacy education are paramount

These two factors alone may account for all the variance we see in observational studies

Why is pharmacy education important?

"Inadequate human resources for health, including pharmacists and pharmacy technicians, threatens to undermine all efforts to strengthen health systems and improve healthcare"

Report of the 2006 UN Millennium project taskforce on HIV/AIDS, malaria, TB and access to essential medicines.

Pharmacy education evidence gap





FIP – WHO – UNESCO

Global Pharmacy Education UNITWIN project

Contact: <u>education@fip.org</u> Website: www.fip.org/education