



American Journal of Pharmaceutical Education 2011; 75 (1) Article 13.

LETTERS

Curriculum for Uncertainty: Certainty May Not Be the Answer

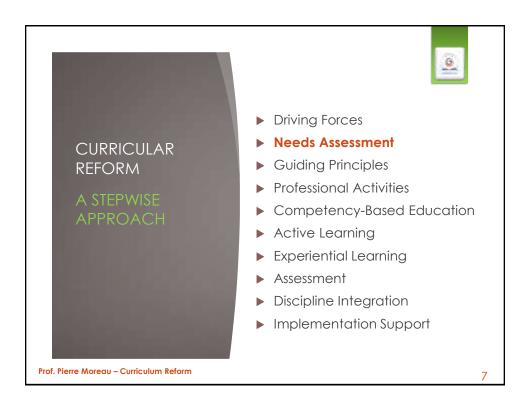
Christy Noble, MEd, P. Nicholas Shaw, PhD, Lisa Nissen, PhD, Ian Coombes, PhD, M Mia O'Brien, PhD Schools of Pharmacy' and Education, The University of Oueenskind, Australia

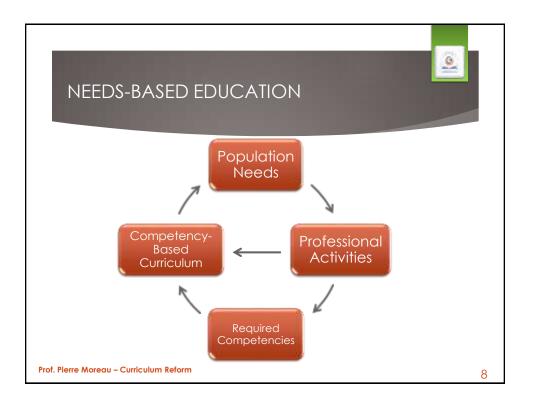
"Medication Services Queensland, Queensland Health, Australia

Hence, we propose, as others have done in the past, 5.10 that for an uncertain and ever-changing world, the pharmacy curriculum needs to be reconsidered. Social learning theory offers a potentially useful framework through which to do so. With this view, the curriculum aims to develop pharmacists who are a "certain kind of person," a person who will think, act, and do things in a way that shows they are truly patient-centered pharmacists. Perhaps then we can stop tinkering with knowledge and skills and truly transform the pharmacy curriculum.

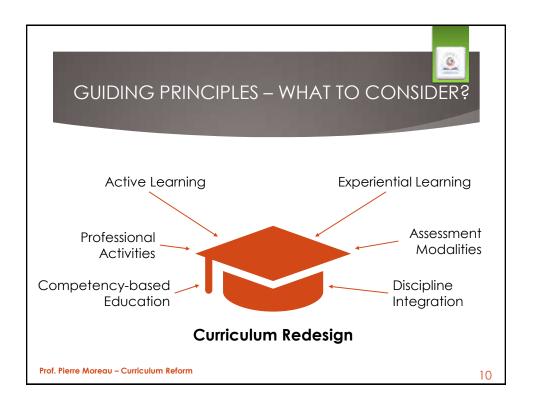
Prof. Pierre Moreau – Curriculum Reform

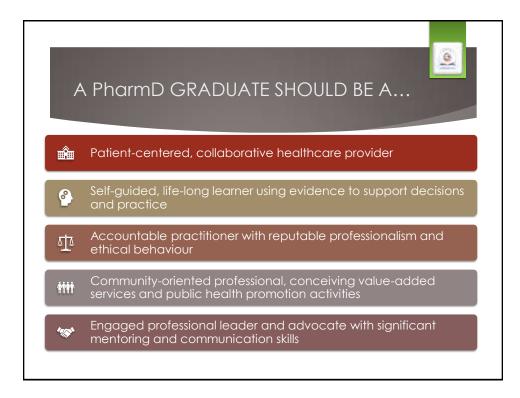








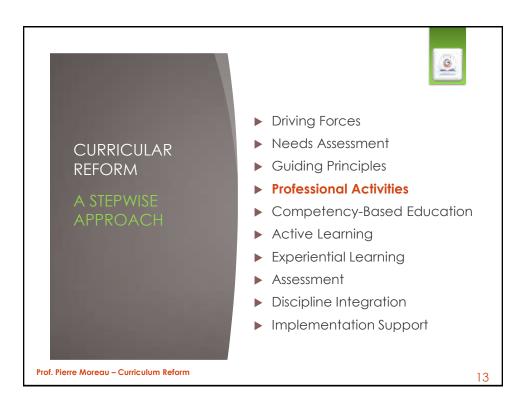




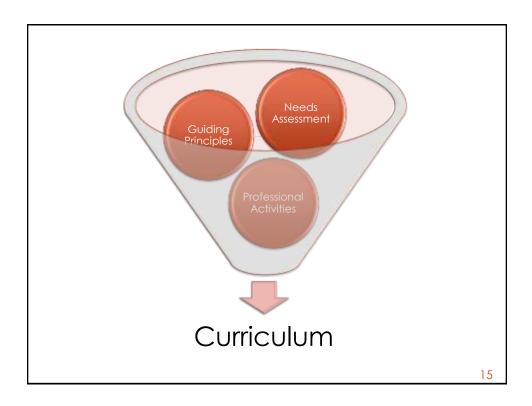
GUIDING PRINCIPLES FOR THE PharmD

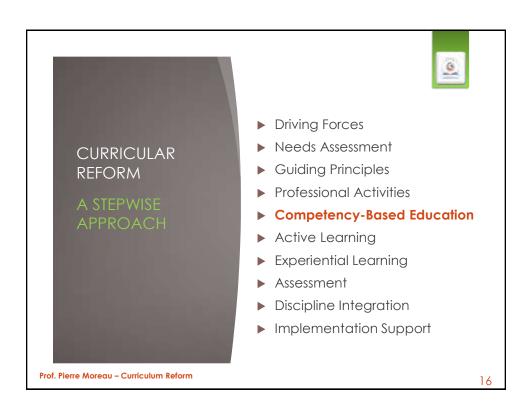
- Curriculum characteristics
 - ▶ Competency-based
 - ▶ Emphasis on labs (hands-on) and practice experience
- Course creation and delivery
 - Context has to be relevant to pharmacy practice and delivered with active learning methods
 - ► Focus on critical thinking and problem resolution (grey zone)
- Assessment strategy
 - ▶ Focus on deep learning and measure competency level

Prof. Pierre Moreau – Curriculum Reform







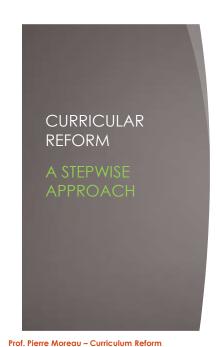




- ▶ Pharmacy is not only about knowledge anymore, but about how to use the knowledge
 - ▶ Knowledge can be accessed by anyone
 - ▶ Technical activities can be replaced by robots
 - ▶ Cognitive activities cannot be easily replaced
- ► Several sources propose that CBE is the way to go to provide work-ready graduates
 - ▶ Lancet Commission (Health Professionals for a New Century)
 - ▶ Accreditations are becoming outcomes-based

Prof. Pierre Moreau – Curriculum Reform







- ▶ Driving Forces
- ▶ Needs Assessment
- ▶ Guiding Principles
- Professional Activities
- ► Competency-Based Education
- ► Active Learning
- Experiential Learning
- Assessment
- ▶ Discipline Integration
- ▶ Implementation Support

19

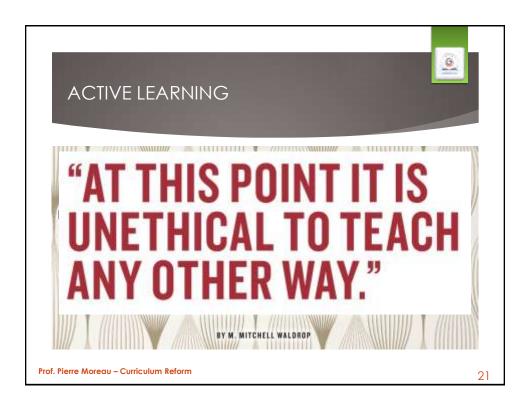




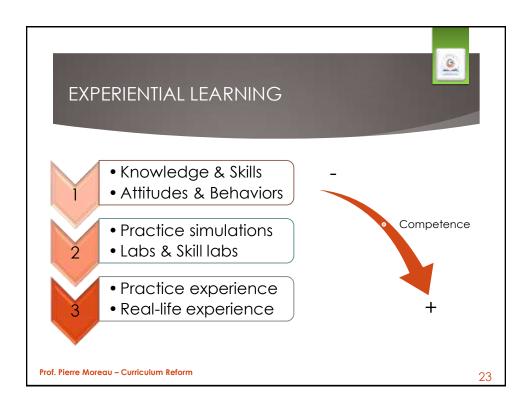
By being spoon-fed? - lecturing

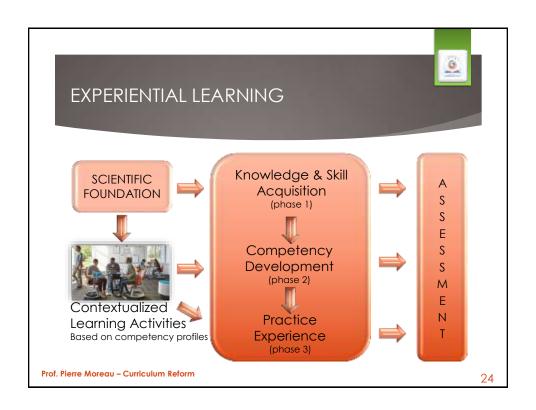
or by cooking? – active learning

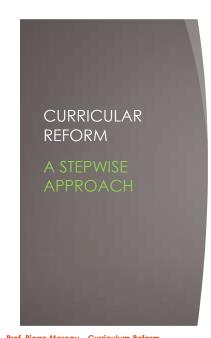
HOW DO CHEFS BECOME **COMPETENT?**













- Driving Forces
- Needs Assessment
- ▶ Guiding Principles
- Professional Activities
- ▶ Competency-Based Education
- ▶ Active Learning
- Experiential Learning
- **Assessment**
- Discipline Integration
- ▶ Implementation Support

Prof. Pierre Moreau - Curriculum Reform

ASSESSMENT DRIVES LEARNING!



American Journal of Pharmaceutical Education 2017; 81 (4) Article 77.

REVIEW

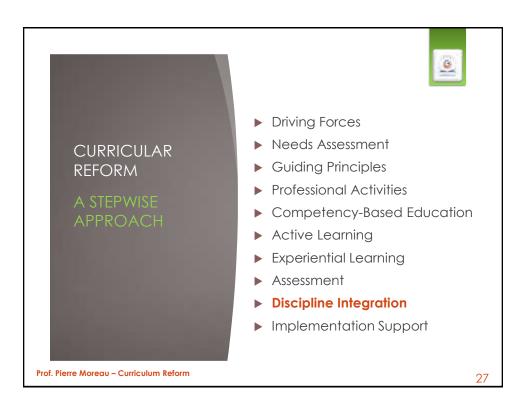
A Call for an Integrated Program of Assessment

David W. Fielding, EdD," Glenn Regehr, PhD^b

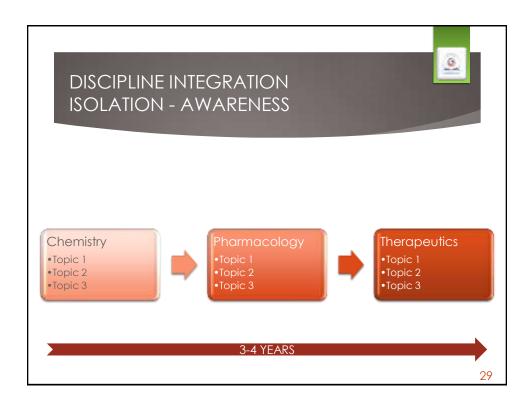
- ^a University of British Columbia, Vancouver, British Columbia, Canada
- ^b Centre for Health Education Scholarship, University of British Columbia, Vancouver, British Columbia, Canada Submitted October 29, 2015; accepted March 31, 2016; published May 2017.

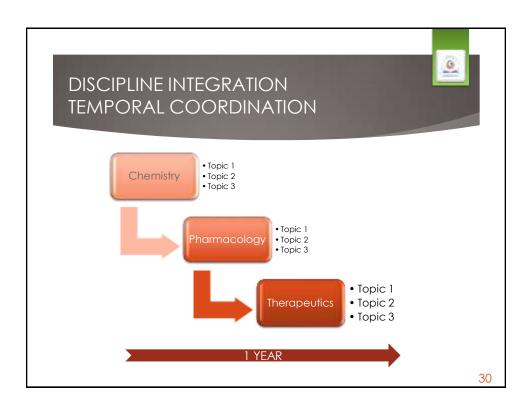
An integrated curriculum that does not incorporate equally integrated assessment strategies is likely to prove ineffective in achieving the desired educational outcomes. We suggest it is time for colleges and schools of pharmacy to re-engineer their approach to assessment. To build the case, we first discuss the challenges leading to the need for curricular developments in pharmacy education. We then turn to the

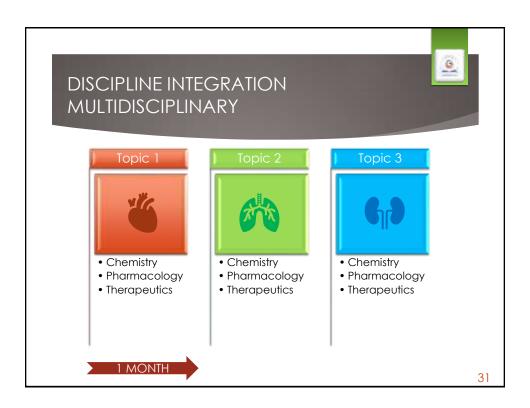
Prof. Pierre Moreau - Curriculum Reform

















- Create core teams to support
 - ► Curriculum reform
 - ▶ Active Learning
 - Assessment
 - ► Experiential Learning
- They will be the ones coaching and supporting other colleagues

Prof. Pierre Moreau - Curriculum Reform

33

CONCLUSION

- ▶ Education is the foundation of professional advancement
- ► An up-to-date curriculum requires:
 - Relevance to the profession... and a push forward (needs assessment)
 - ▶ A focus on outcomes (competency-based education)
 - ▶ Content delivery aligned with competency development
 - ► Active learning
 - ▶ Appropriate assessment including performance-based assessment
 - ▶ Structured experiential learning to offer a learning continuum
 - ▶ Integration of disciplines to provide information clusters for students to apply in a laboratory setting, and then in the real-world

Prof. Pierre Moreau – Curriculum Reform

