Education for Clinical Roles in a Global Context

Education in the USA

美国的教育

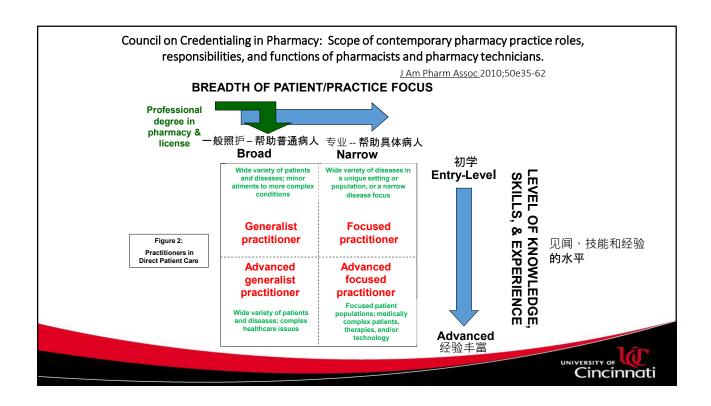
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Pharmacy Education for Clinical Roles in the USA

(为了临床工作者的美国药学教育)

- Core Education of All Pharmacists PharmD degree
- Advanced Education (Residencies) for Clinical Practice
 - PGY1 and PGY1
- Credentialing for Specialty Practice
 - BPS Credentialing
- Certificate Programs for Additional Education



Core Education of All Pharmacists for a Role in Patient Care - USA

(在美国--基本教育,药剂师都知道很重要,所以照顾病人很成功。)

- ▶ Doctor of Pharmacy (PharmD) education is the minimum requirement for pharmacy practice.
 - Pre-professional coursework of at least two years.
 - Final four years of pharmacy education MUST be attained in a college/school of pharmacy.
 - Year 4 is spent in Advanced Pharmacy Practice Experiences (APPE)





AACP - 2013 Educational Outcomes for Pharmacy Graduates

- Domain 1 Foundational Knowledge
- Domain 2 Essentials for Practice and Care
- Domain 3 Approach to Practice and Care
- Domain 4 Personal and Professional Development





AACP - 2013 Educational Outcomes for Graduates

- Domain 2 Essentials for Practice and Care
 - · Patient Centered Care (Caregiver) 医护工作者
 - · Health & Wellness (Promoter) 医药促销者
 - Population-based care (Provider) 医药提供者
- Domain 3 Approach to Practice and Care
 - · Problem Solving (Problem Solver)问题解决者
 - · Educator (Educator)教育者
 - · Patient Advocacy (Advocate)提倡者
 - · Interprofessional collaboration (Collaborator)合作者
 - · Cultural Sensitivity (Includer)联系人
 - · Communication (Communicator)传话人



New ACPE Standards for Accreditation - 2016

Practice Ready, Team-Ready for Patient-Centered Care

- Domains 1-4 were included in the Standards
- Std 10: Curriculum design, delivery and oversight
 - Assessment and competency benchmarks (考试)
- Std 11: Interprofessional Education
 - Learning team based patient care in experiences with other health professionals. (作业班)



ACPE Standards 2016

Experiential Components with Preceptors (经验)

- Std 12: Pre-APPE Curriculum
 - Introductory Pharmacy Practice Experience(IPPE)
 - no less that 300 hours of experience.
 - 60 hours may be in simulated models.
- <u>Std 13</u> APPE (Advanced Pharmacy Practice Experience) Curriculum
 - No less than 36 weeks (1440 hours)
 - 4 required settings: Community, Ambulatory, Hospital, Inpatient General Medicine
 - Elective APPEs



Joint Commission of Pharmacy Practitioners (JCPP) * Vision for Pharmacists' Practice

(adopted by JCPP November 2013)

Patients achieve optimal health and medication outcomes with pharmacists as essential and accountable providers within patient-centered, team-based healthcare.

*JCPP Members are: AMCP, AACP, ACA, ACCP, ACPE, APhA, ASCP, ASHP, NABP, NCPA, and NASPA.



JCPP Pharmacists' Patient Care Process

Providing consistency for patients and health care
Applies to all patient care services delivered by pharmacists
in any practice setting





Medication Therapy Management (MTM) Core Elements

- Medication Therapy Review (MTR)
- Personal Medication Record (PML)
- Medication Action Plan (MAP)
 - Engages patient in their own care management.
- Intervention and Referral (assessment and triage).
- Documentation and Follow up



Assessments (考试) in Patient Care "Are they Ready for Practice??"

- Interprofessional Preparedness (Team Ready)
- Competency Assessments
 - · Objective Structured Clinical Examinations (OSCEs)
 - · High Hurdle Benchmarks
- Assessment of:
 - · Clinical Reasoning skills across patient's lifespan
 - Patient Assessment Skills
 - · Communication Skills
 - With Patients to Assess, make recommendations with plan, and educate
 - With recommendations/referrals to other health care professionals
 - Attitude Empathy, patient advocate?
 - · Documentation Skills

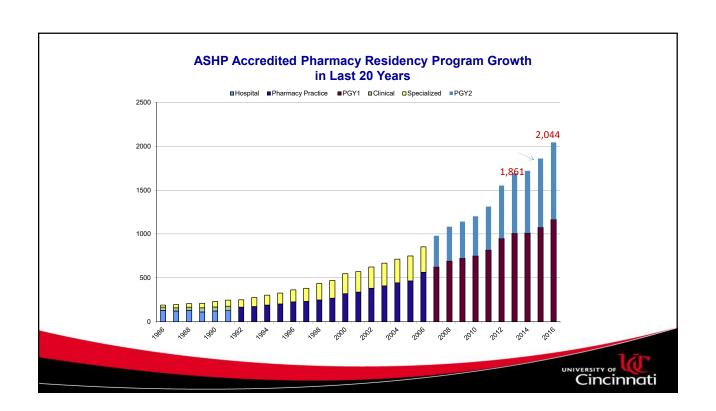


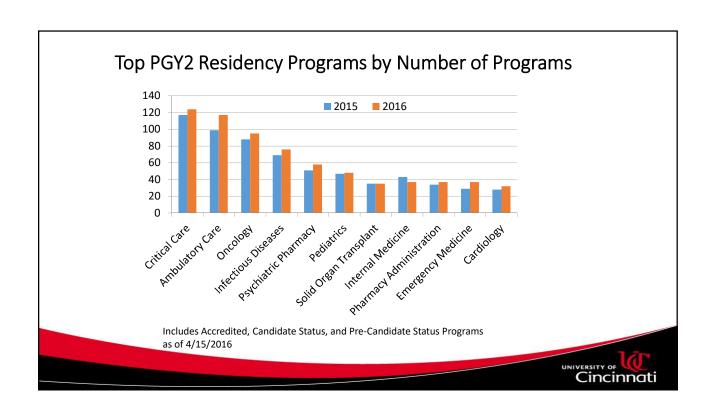
Advanced Education (Residencies) for Clinical Practice

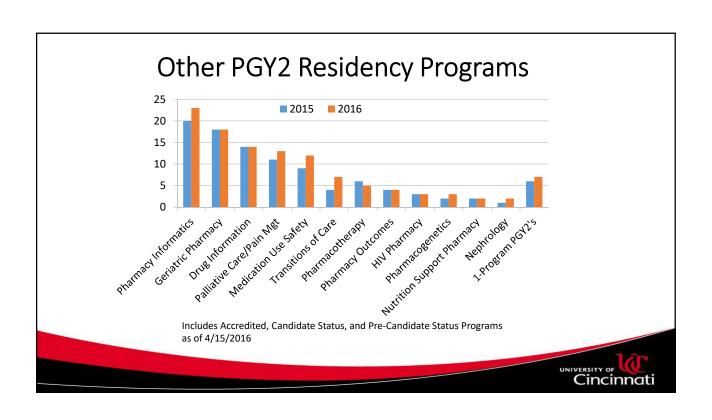
Residencies are organized, directed, <u>postgraduate</u> <u>training</u> program in a defined area of pharmacy practice.

- PGY1 Year 1 Residency
 - Setting: Hospital, community, home care and long-term care facilities, ambulatory care settings, managed care facilities, and others
- PGY2 Year 1 Specialty Residency
 - Setting: Specialty clinical practice areas









Board Certification for Specialty Practice

- Board of Pharmaceutical Practice (examinations):
 - Evaluate the knowledge and skills of individual pharmacy specialicts
 - Grant qualified pharmacists certification and recertification in recognized pharmacy practice specialties



BPS Specialties

BPS Approved Specialties

- · Ambulatory Care Pharmacy
- · Critical Care Pharmacy
- Nuclear Pharmacy
- Nutrition Support Pharmacy
- Oncology Pharmacy
- · Pediatric Pharmacy
- Pharmacotherapy
- Psychiatric Pharmacy

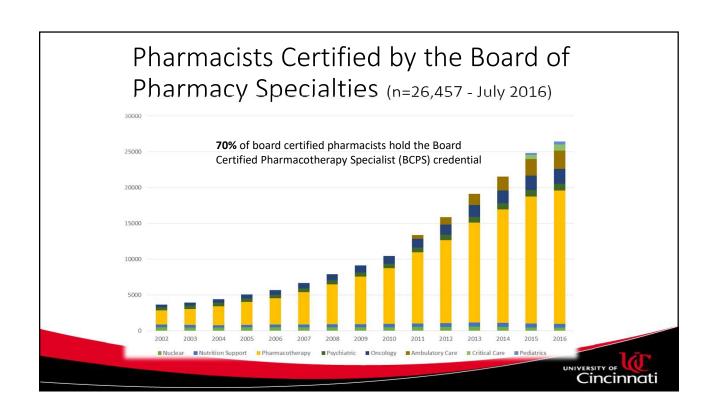
Role Delineation Studies Conducted

- Cardiology
- · Infectious Disease
- · Pain and Palliative Care
- · Sterile Compounding
- Solid Organ Transplantation

Potential Role Delineation Studies

- Patient Safety
- Pharmacoinformatics
- · Emergency Medicine







Certificate Programs for Additional Education

额外教育 - 获得证明书的课程

Examples of Programs

- APhA Immunization Certificate Course
- Diabetes Certificate Course
- Medication Therapy Management (MTM)
 Certificate Course
- Travel Health Certificate Course
- Point-of-Care Testing Certificate Course



