Postgraduate Pharmacy Education-A Call to Arms:

Considerations for New and Expanding Programs

> ASHP Midyear Meeting Monday, December 5, 2011 1:30-3:00 pm



Disclosures

The program chair and presenters for this continuing pharmacy education activity report no relevant financial relationships.



Postgraduate Pharmacy Education: A Continual Opportunity for Pharmacy Academia

Lynette R. Bradley-Baker, RPh, PhD Director of Professional Alliance Development American Association of Colleges of Pharmacy



"The Responsibility of Pharmaceutical Education for Scholarship, Graduate Education, Fellowships, and Postgraduate Professional Education and Training"

AACP Commission to Implement Change in Pharmaceutical Education Position Paper IV, 1993



Agenda

- Overview of Postgraduate Pharmacy Education (PPE)
- Current State of Pharmacy Residency Programs
- The Role of Schools and Colleges of Pharmacy in Pharmacy Residency Programs
- Expanding opportunities for Pharmacy Residency Programs



Overview of Postgraduate Pharmacy Education (PPE)

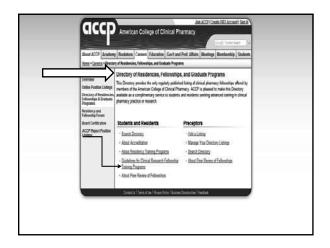
- Postgraduate Pharmacy Education (PPE): a structured and systematic educational and training experience which generally occurs after licensure and which is directed toward some predetermined educational outcome relative to the knowledge and skills required for the deliver of pharmaceutical services
 - Fellowships
 - Graduate Education
 - Pharmacy Residencies



-

Overview of Postgraduate Pharmacy Education (PPE)

- Fellowships
 - A directed, highly individualized, postgraduate program designed to prepare the participant to become an independent researcher
 - · Pharmaceutical industry, pharmacy academia, managed care
 - Programs developed by various entities
 - Academic health centers, schools/colleges of pharmacy, pharmaceutical manufacturers
 - Number of schools/colleges of pharmacy participating in fellowships (Fall 2010):
 - Post-PharmD Fellowship: 18/120 (15%)
 - Post-PhD Fellowship: 46/120 (38%)
 - No accreditation body for fellowship programs
 - Typically 12-24 months in duration



Overview of Postgraduate

- Fellowships
 - Still considered a viable pathway to prepare clinical scientists

Pharmacy Education (PPE)

- Major challenge is lack of consistent funding
- · Other competitors
 - NIH training programs (i.e., Clinical and Translational Science Award (CTSA) program)
 - Other NIH training programs
 - Graduate degrees in clinical research
- Future directions
 - More schools/colleges of pharmacy should investigate the feasibility of establishing fellowship programs
 - Collaboration between education and practice is needed to identify new disciplines for fellowships
 - Clinical, social, and basic science pharmacy faculty and those from other professions working together

Overview of Postgraduate Pharmacy Education (PPE)

- Graduate Education
 - Research-intensive degrees that also provide curricular or experiential options
 - Graduates pursue careers in a variety of settings
 - Number of schools/colleges of pharmacy offering graduate degree programs (anticipated 2012-13)
 - Master of Science: 46%
 - Doctor of Philosophy: 50%
 - Viable option for PharmD students
 - Summer research opportunitiesDual degree programs



10

Overview of Postgraduate Pharmacy Education (PPE) Strengths Weaknesses -Time to degree and completion rates are competitive with national data -Faculty not as involved in advocacy efforts that highlight accomplishments of graduate faculty and students -Faculty does not communicate full benefits -Graduates are competitive SWOT Analysis of Graduate Programs /Education (2011 AACP Research and Graduate Affairs Committee) Opportunities Threats excellent time to critically examine the career paths vailable to graduates of master's and doctoral program Insure that graduates students and post-doctoral fel re gaining the essential skills sets of grantsmanship, sublication, communication, teamwork and globalist softening of job market for PharmD graduate may increase the potential interest in graduate education -Uncertain market for graduates as large pharmaceutical companies continue layoffs of personnel -PharmD graduate debt burden exceed \$100,000 is an impediment to graduate program recruitment ers of colleges and schools of pharm

Overview of Postgraduate Pharmacy Education (PPE)

- Future Direction of Pharmacy Graduate Programs
 - New examination of career paths and pathways for graduates from master's and doctoral programs is warranted
 - Academic Institute to focus on the topic of graduate program quality assessment and improvement
 - Increase advocacy efforts
 - Collection of benchmark information on the meaningful assessment of program vitality and quality



Dr. Vincent Lau, AACP Chief Science Officer and Vice-President of Research and Graduate Education

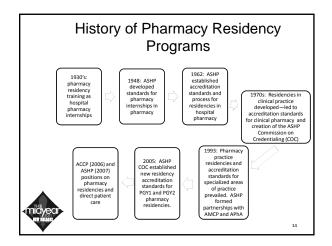
12

Overview of Postgraduate Pharmacy Education (PPE)

- Pharmacy Residency Programs
 - Organized, postgraduate experience in a defined area of practice that allows entry-level practitioners to enhance existing competencies and/or acquire additional competencies that exceed entry level.
 - · Postgraduate year one pharmacy residency (PGY1)
 - · Postgraduate year two pharmacy residency (PGY2)



13



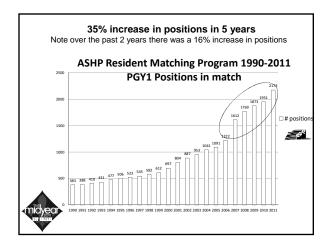
Pharmacy Residency Programs

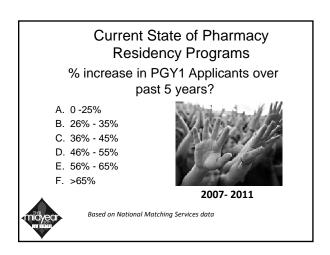
- Benefits
 - Progression of the pharmacy profession
 - Increasing and enhancing productivity
 - Providing direct patient care
 - Interdisciplinary education and practice

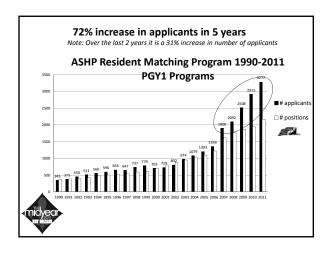
- Challenges
 - Costs associated with financing residency positions
 - Limited resources
 - Perceived lack of

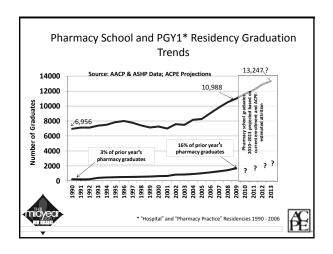
15

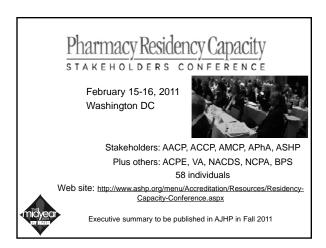
Current State of Pharmacy Residency Programs % increase in PGY1 positions over past 5 years? A. 0 - 10% B. 11% - 20% C. 21% - 25% D. 26% - 30% E. 31% - 35% F. 36% - 40% G. > 40% 2007- 2011

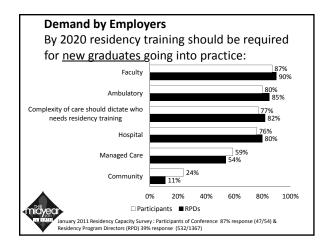










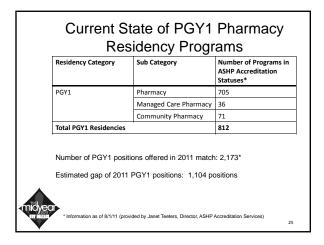


ASHP Pharmacy Residency Resources

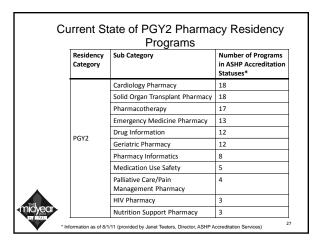
- Accreditation web site
- Accreditation staff
- Midyear Clinical Meeting residency programming
- Residency Learning System
- National Residency Preceptors Conference 2012
- Other residency program directors & preceptors

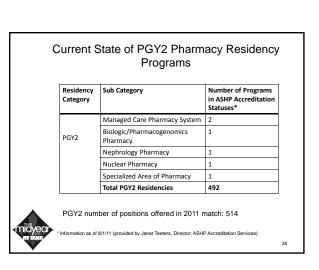


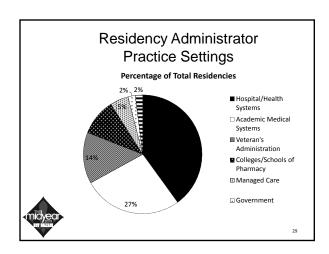


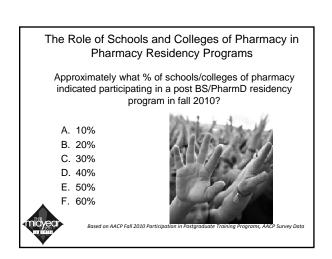


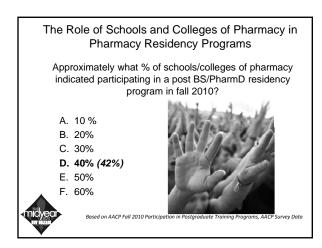
Programs		
Residency Category	Sub Category	Number of Program in ASHP Accreditati Statuses*
PGY2	Critical Care Pharmacy	90
	Oncology Pharmacy	63
	Ambulatory Care Pharmacy	49
	Infectious Diseases Pharmacy	42
	Pediatric Pharmacy	35
	Health System Pharmacy Practice Administration	24
	Internal Medicine Pharmacy	24
	Health System Pharmacy Practice Administration/M.S.	23
	Psychiatric Pharmacy	23











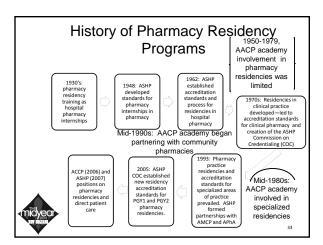
The Role of Schools and Colleges of Pharmacy in Pharmacy Residency Programs

- AACP Commissions and Committee Reports
 - AACP Commission to Implement Change in Pharmaceutical Education Position Paper IV: The Responsibility of Pharmaceutical Education for Scholarship, Graduate Education, Fellowships, and Postgraduate Professional Education and Training
 - Final Report and Recommendations of the 2002 AACP Task Force on the Role of Colleges and Schools in Residency Training
 - Final Report Deans' Council Task Force on Post Graduate Pharmacy (Residency) Education, July 2007
 - 2009 AACP Professional Affairs Committee Report



AACP Postgraduate Education and Training Policies

32



The Role of Schools and Colleges of Pharmacy in Pharmacy Residency Programs

- Contributions to Residencies by Pharmacy Academia
 - Full-time faculty with oversight of residencies (Residency Program Directors)
 - Preceptors
 - Partners with residency programs on mutually beneficial educational missions and initiatives
 - Research
 - Teaching certificate training programs
 - Professional leaders on advocacy issues
 - Pharmacist role models in patient care practice



34

"Administrators and faculty must support existing residency programs by collaborating with program directors and program preceptors and stimulating and catalyzing the development of new residencies"

AACP Commission to Implement Change



Expanding Opportunities for Pharmacy Residency Programs

- Pharmacy Profession Issues
 - Define scope of practice for all members of the pharmacy workforce
 - Ensure that pharmacists take responsibility for all aspects of their professional practice
 - Ensure pharmacists accept global accountability for patient outcomes (shared risk)
 - Standardize technician training and licensing requirement across the profession to increase pharmacists ability to optimize patient care
 - Address board of pharmacy regulations/laws which limit technician/pharmacist roles in prescription fulfillment to support safe and efficient pharmacy service



36

Expanding Opportunities for Pharmacy Residency Programs

- Challenges with Current Pharmacy Residency Model
 - 1:1 resident to preceptor ratio
 - Episodic resident presence (rotations)
 - Relative lack of residency integration into pharmacy practice model
 - Challenges with program administration
 - Limited opportunities for specific residency experiences and for practicing pharmacist s to get residency training



37

Expanding Opportunities for Pharmacy Residency Programs

- Potential Opportunities for Expansion
 - Role of the Preceptor
 - · Delegate service activities to residents
 - · Collaborate in terms to precept residents
 - Utilize technology
 - Role of the Residency
 - · Practice as a "Practitioner-learner"
 - Be an extender of services delivered by attending pharmacists (preceptors)
 - Longitudinal periods of integrated responsibilities for the entire care of the patient
 - Program Administration



Explore new models for administration for program delivery

Shift primary focus of RPD to program delivery, rather than regident

20

Expanding Opportunities for Pharmacy Residency Programs

- Potential Opportunities for Expansion
 - Training Environment
 - Explore feasibility of training in non-traditional sites (i.e., retail clinics, community health centers, urgent care centers)
 - Development and assessment of performance measures of the quality of resident services
 - Evolving health care models and the role of the pharmacist
 - Learning Experience Design
 - Pharmacy Resident
 - Use of simulation and technology for content and competency assessment
 - Use of distance technology to facilitate residentpreceptor interactions in multi-site programs
 - Pharmacist Practitioner
 - Abbreviated or employer-supported residency programs (mid-career residency opportunities)
 - Continuing Professional Education (CPE)

Conclusions

- Postgraduate Pharmacy Education (PPE) continues to be necessary for pharmacy's progression as well as to optimize patient outcomes and public health
- Schools and colleges of pharmacy have a role in pharmacy residency training and its expansion
- Opportunities for residencies exist in a variety of practice settings and geographic locations



Collaboration is a vital element for pharmacy residency expansion

40

"While residency training has made significant strides over the years, the Commission believes that the profession is poised for enormous expansion in the responsibilities that it will assume, and residency training must support that expansion. Pharmaceutical education has a leadership role in facilitating this expansion by:

- increasing the number of residency programs;
- strengthening existing residency programs;
- identifying new areas of practice that may benefit from residency training;
- developing pilot residency programs in new practice areas to demonstrate their feasibility;
- promoting residency training to students and practitioners as career options; and
- promoting the concept that experienced practitioners may acquire additional practice competencies through residency training



AACP Commission to Implement Change in Pharmaceutical Education Position Paper IV, 1993

41

Partnerships Between Health Systems and Schools of Pharmacy

Todd D. Sorensen, Pharm.D. Professor, University of Minnesota Director, Ambulatory Care Residency Program



Questions for Schools

- Is residency education in your mission? Vision?
- If you will engage in residency education, what is your goal?
- In partnering with another health care institution for residency education, what does "win-win" look like?



What is the Mission and Vision of **Academic Pharmacy Institutions?**

Mission

The College of Pharmacy inspires and educates current and future pharmacists and scientists, engages in cutting-edge research and leads practice development to improve the health of the people of Minnesota and the world.

- Establishing relationships with patients, decision makers and practitioners to meet changing needs, model patient-centered care and shape the evolving health care system.
- Preparing graduate students, residents and post-doctoral fellows to become the next generation of scientists, advanced practitioners and educators.



Residency Education -What is your goal?

- Prepare advanced practitioners
- Support faculty...
 - Practice
 - Scholarship
- Support experiential
 Your answer here... education
- Support didactic education
- Advance pharamcy practice in the region
- Build a relationship with an organization

What does "win-win" look like?

Health Care Organization

- Increased patient care capacity
- Manpower for new initiatives
- Improvement in quality
- Favorable ROI

School of Pharmacy

- Faculty support Teaching support
- Innovative practice sites
- Favorable ROI

The Role of Schools and Colleges of Pharmacy in Pharmacy **Residency Programs**

- Pharmacy Residency Models
 - College/school affiliation with institutional-based program
 - Jointly-funded programs between practice sites and colleges/schools of pharmacy



College/School of pharmacy funded residencies

Barriers to Hosting Residency Education





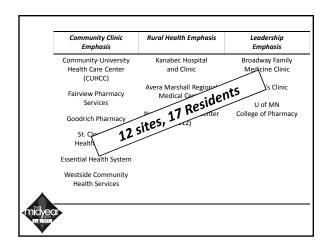
- Multi-site PGY1 program coordinated by of U of MN
- Formally established in 1999
- Three emphasis areas in ambulatory care:
 - Community Clinic
 - Leadership
 - Rural Pharmacy Practice

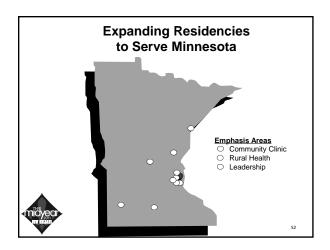


Residency Program Vision...

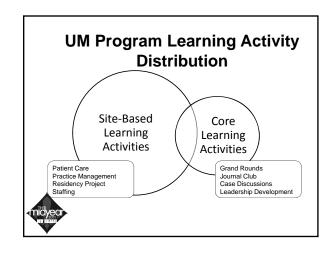
"The program serves as an instrument for pharmaceutical care practice development and as a key source of leadership at the academicpractice interface in Minnesota."

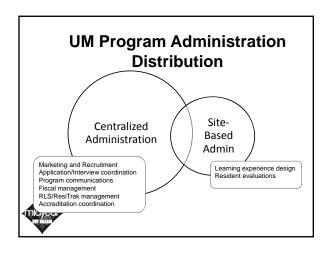


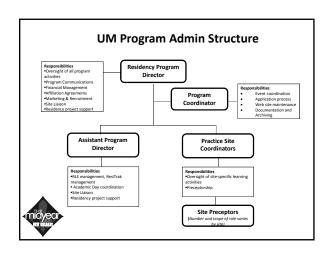












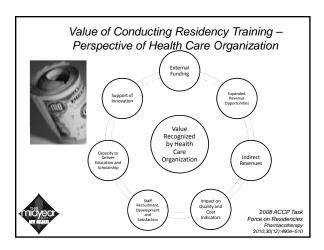
Financing the Program

Sites

- 100% Salary and fringe
- Professional travel stipend - \$1000
- Program admin fee -\$5000
- Tech/library fee \$2000
- **~**\$53,000
- No Medicare passthrough funds

College of Pharmacy

- Program administration
 - Director
 - Assistant Director
 - Coordinator (0.75 FTE)
- Leadership Emphasis residents (4 FTE)



Strategies for Identifying Training Sites

- Sites seeking to expand pharmacy services
- Sites with unique funding streams
 - Cost-based reimbursement, MTM contracts, P4P
- Access to seed grant opportunities
- Past residency graduates
- Leveraging existing partnerships



Benefits and Results

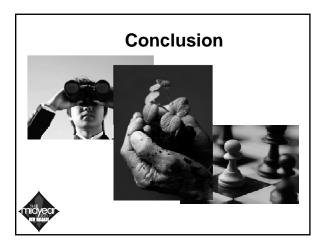
- Small practice sites hosting residents
 - Reduced administrative burden
 - Expanded learning opportunities for residents
- Win-Win Partnerships
 - Increased ambulatory care residency opportunities in the state
 - Significant increase in site-level pharmacy staff contribution
 - Enhanced experiential education opportunities



Strategies for Site and Preceptor Development

- Coaching on program's RLS applied to site-specific learning activities
- Bi-annual program retreats
 - Preceptor development, input and collegiality
- Site Visits
- Program Listserve
- Traveling "Academic Days"





Questions for the Audience. Working together, discuss...

- Considering your own institution, how would you plan an expansion in your postgrad pharmacy residency program?
- If you are in a health care system and not involved with a College of Pharmacy, how could you develop a partnership with the College?



63