2017 Professional Affairs Committee Report

The Report of the 2016-2017 Professional Affairs Standing Committee: Formally Embracing and Engaging Preceptors in the Academy: The Time Has Come

Karen Whalen, Chair^a, Daniel S. Aistrope^b, Jason Ausili^c, Kathleen H. Besinque^d, Elizabeth A. Cardello^e, Philip M. Hritcko^f, George E. MacKinnon, III^g, Eric Maroyka^h, Elizabeth Sutton Burkeⁱ, I. Shane Trent^j, Lynette R. Bradley-Baker^k

- ^a University of Florida College of Pharmacy, Gainesville, FL
- ^b American College of Clinical Pharmacy, Lenexa, KS
- ^c National Association of Chain Drug Stores Foundation, Arlington, VA
- ^d Loma Linda University School of Pharmacy, Loma Linda, CA
- ^e American Pharmacists Association, Washington, DC
- ^fUniversity of Connecticut School of Pharmacy, Storrs, CT
- g Medical College of Wisconsin School of Pharmacy, Milwaukee, WI
- ^h American Society of Health-System Pharmacists, Bethesda, MD
- ¹ St. John Fisher College Wegmans School of Pharmacy, Rochester, NY
- ^j South College School of Pharmacy, Knoxville, TN
- ^k American Association of Colleges of Pharmacy, Alexandria, VA

EXECUTIVE SUMMARY

The 2016-2017 AACP Professional Affairs Committee (PAC) was charged to examine strategies to include adjunct/affiliate preceptors as AACP members and to determine the value proposition of AACP membership for this group of educators. The PAC defined adjunct/affiliate preceptors as preceptors who are neither full-time employees nor have a primary employment commitment (>50% of the preceptor's work salary) at a school/college of pharmacy. Specific charges to the PAC included: (1), Recommend an approach to increase the number of adjunct/affiliate preceptors as AACP members, (2) Examine AACP membership from an adjunct/affiliate preceptor value perspective, and (3) Prepare a concise summary of available literature describing value-added contributions of student pharmacists and pharmacy preceptors to pharmacy practice models, interprofessional education (IPE) and interprofessional practice (IPP). The summary of the plan developed by the PAC to address the charges is presented in the following report which includes three sections: (1) the value proposition of AACP membership for adjunct/affiliate preceptors, (2) expansion of the presence of adjunct/affiliate preceptors in AACP, and (3) the value of student pharmacists in experiential education settings. The value proposition of AACP membership for adjunct/affiliate preceptors section describes results of surveys and focus groups conducted by the PAC. The PAC surveyed experiential education directors at schools/colleges of pharmacy, adjunct/affiliate preceptors (from a request via the experiential education directors), and new pharmacy practice faculty members in order to determine current resources available for adjunct/affiliate preceptor development, as well as explore potential resources AACP could provide for adjunct/affiliate preceptor development. Focus groups were held with adjunct/affiliate preceptors and experiential education faculty/staff to explore some of the results and concepts generated from the surveys. The PAC developed three recommendations for AACP as a result of the surveys and focus groups. The report also describes various factors that should be considered by AACP in developing a membership category for adjunct/affiliate preceptors, including potential membership models, establishment of an advisory board, and collaboration with other stakeholder groups. The final section of the report provides an executive summary and detailed table, which summarizes available literature on the value of student pharmacists in experiential education. The brief literature review reinforces that there are many different practice

settings where student pharmacists add value to patient care and the practice site. This information is significant for experiential education faculty/staff, as well as adjunct/affiliate preceptors, and serves as an example of best practices which document the value experiential education provides to patient care and practice sites. The final section of the report provides a proposed policy statement for consideration by the 2017 AACP House of Delegates and one suggestion to schools/colleges of pharmacy. The report concludes with a call to action regarding the formal involvement of adjunct/affiliate preceptors by AACP and the academy.

KEY TERMS: Experiential Education, Preceptor Development, Preceptor,

INTRODUCTION AND COMMITTEE CHARGES

According to the Bylaws of the American Association of Colleges of Pharmacy (AACP), the Professional Affairs Committee (PAC) is to study issues associated with the professional practice as they relate to pharmaceutical education, and to establish and improve working relationships with all other organizations in the field of health affairs. The PAC is also encouraged to address related agenda items relevant to its Bylaws charge and to identify issues for consideration by subsequent committees, task forces, commissions, or other groups.

President Joseph DiPiro centered the charges for the 2016-2017 AACP standing committees on strategic priorities of the AACP Strategic Plan 2016-2019, adopted by the AACP House of Delegates at the 2016 AACP Annual Meeting. Volunteer (Adjunct/Affiliate) preceptors contribute to several strategic priorities of the Strategic Plan 2016-2019. For many years, AACP has questioned whether adjunct/affiliate preceptors have needs that AACP can serve directly or through the schools/colleges of pharmacy. The issue of how to incorporate adjunct/affiliate preceptors as AACP members and the value proposition of AACP membership for this group of educators needs to be examined. The 2016-2017 PAC is charged to:

- (1) Recommend to the AACP Board of Directors an approach to increase the number of adjunct/affiliate preceptors as AACP members. Dual-organization membership arrangements should be considered;
- (2) Examine AACP membership from an adjunct/affiliate preceptor value perspective. Using surveys, focus groups or other methods, determine preceptor needs that can be addressed by AACP; and
- (3) Prepare a concise summary of available literature and resources that describe value-added contributions of student pharmacists and pharmacy preceptors to pharmacy practice models and Interprofessional Education (IPE) and Interprofessional Practice (IPP).

Members of the 2016-2017 PAC include faculty from various schools/colleges of pharmacy and multiple disciplines, as well as professional staff representation from the American College of Clinical Pharmacy (ACCP), the American Pharmacists Association (APhA), the American Society of Health-System Pharmacists (ASHP) and the National Association of Chain Drug Stores (NACDS) Foundation. Prior to the in-person meeting of the committee, pertinent background information and resource materials were distributed. During an introductory conference call, the committee developed strategies to address the charges and outlined initial committee assignments. The committee met for a day and a half, with the other 2016-17 AACP standing committees, on October 18-19, 2016 in Alexandria, Virginia to discuss various facets related to the charges, as well as to finalize the process and strategies for addressing the charges. Following the process development and delegation of assignments related to the committee charges, the PAC utilized various communication modalities, including Basecamp, conference calls, and email to complete the remaining work.

BACKGROUND

In developing the strategy to address the 2016-2017 charges, the PAC considered numerous factors that contribute to the training and continuing professional development for adjunct/affiliate preceptors. The committee also deliberated over the strengths, weaknesses, opportunities and threats to AACP in the creation of an adjunct/affiliate preceptor membership category. The Accreditation Council for Pharmacy Education (ACPE) release of Standards 2016 influences all aspects of pharmacy education, including preceptors and experiential education.² The committee reviewed previous PAC reports pertaining to preceptor training and recognition,^{3,4} the role of experiential education in practice,⁵ and the collaboration of academic pharmacy and pharmacy practice.⁶ In addition, a review of current AACP policy revealed several policies which pertain to the 2016-2017 PAC charges:

- AACP supports the creation of a national vision emphasizing the value of pharmacy education and colleges and schools of pharmacy to various stakeholders including patients and communities. (Source: Professional Affairs Committee, 2015);
- AACP encourages the development of strategic partnerships to accelerate access to value-based experiential education, especially within emerging health care settings. (Source: Professional Affairs Committee, 2015); and
- AACP affirms that preceptor development is essential to enhance the quality of experiential
 education and believes that preceptors should possess competencies that include, but are not
 limited to, leadership/management skills, embodiment of the development of a practice
 philosophy focused on improving patient outcomes, role modeling as a practitioner, commitment
 to excellence in scholarly teaching, effective communication skills, and encouragement of selfdirected learning (Source: Professional Affairs Committee, 2012).

The result is the following report, which explores the value proposition of AACP membership for adjunct/affiliate preceptors and the value of student pharmacists in experiential education on patient care sites and communities. The PAC identified the following areas related to their charge, which serve as the framework of the report, as well as the generation of the proposed policy statement, recommendations to AACP and suggestion to schools/colleges of pharmacy:

- The Value Proposition of AACP Membership for Adjunct/Affiliate Preceptors;
- Increasing the Presence of Adjunct/Affiliate Preceptors in AACP; and
- The Value of Student Pharmacists in Experiential Education.

The Value Proposition of AACP Membership for Adjunct/Affiliate Preceptors

The PAC defines adjunct/affiliate preceptors as preceptors who are neither full-time employees nor have a primary employment commitment (≥50% of the preceptor's work salary) at a school/college of pharmacy. Adjunct/affiliate preceptors contribute significantly to experiential education, which is a major component of schools/colleges of pharmacy curricula and an integral part of the pharmacy profession. The experiential component of education has evolved to comprise almost 30% of the pharmacy education requirements as mandated by the current Introductory Pharmacy Practice Experience (IPPE) and Advanced Pharmacy Practice Experience (APPE) requirements in Standards 2016.²

The PAC discussed various methods to gather information to develop a value proposition for AACP membership for adjunct/affiliate preceptors. The PAC thought it was important to collect the perspective of adjunct/affiliate preceptors regarding their needs and thoughts about AACP membership. The PAC identified major stakeholder groups in the development of an AACP adjunct/affiliate preceptor membership category as preceptors recognized by the AACP Master Preceptor Recognition Program, adjunct/affiliate preceptors, experiential education directors, and new pharmacy practice faculty members

(defined as being a full-time faculty member for three years or less). To gather information from these stakeholders, the PAC developed surveys for experiential education directors, adjunct/affiliate preceptors (including AACP Master Preceptors) and new pharmacy practice faculty members.

The survey questions for experiential education directors included the following:

- Demographic information (name, school/college of pharmacy, contact information);
- Identification of strategies and benefits that the school/college of pharmacy provides to adjunct/affiliate preceptors;
- Attitude of the experiential education department regarding the potential creation of an AACP membership category for adjunct/affiliate preceptors;
- Suggestions for support and/or services that AACP can provide to adjunct/affiliate preceptors;
- Suggestions for support and/or services that AACP can provide to schools/colleges of pharmacy to support preceptor development.

The adjunct/affiliate preceptors and new pharmacy practice faculty members completed the same survey questions, which included the following:

- Demographic information (preceptor or faculty member, school/college of pharmacy
 affiliation(s), primary practice setting, years since pharmacist licensure, years of serving as a
 preceptor, AACP membership status, source of AACP membership payment [if applicable],
 contact information [optional]);
- Examples of resources/benefits used for preceptor development and/or to support their role as a preceptor;
- Suggestions for resources/benefits that AACP could provide for preceptor's continuing professional development;
- Attitude (and rationale) toward the potential creation of an AACP membership category for adjunct/affiliate preceptors;
- Examples of additional resources and/or experiences that would enhance their role as a preceptor/educator for student pharmacists; and
- For adjunct/affiliate preceptor respondents only: After a free-trial AACP membership, the amount they would be willing to pay for an AACP preceptor membership.

The PAC designed a webpage for all the stakeholder groups, which contained the background and rationale for the surveys. Email information for the experiential education directors, AACP Master Preceptors and new pharmacy practice faculty members was obtained from AACP membership records. Since there is no central database/repository of adjunct/affiliate preceptors, the PAC requested the experiential education directors forward the adjunct/affiliate preceptor survey invitation and survey link to 5-10 of their adjunct/affiliate preceptors for completion.

The webpage and link for the survey invitation were sent directly to the experiential education directors, the AACP Master Preceptors and new pharmacy practice faculty members on October 31, 2016, and the survey closed on December 2, 2016, with three reminder emails sent during this timeframe. A subsequent email and reminders emails were sent to the experiential education directors asking them to forward the

invitation and survey link to 5-10 of their adjunct/affiliate preceptors. All surveys and reminder emails are available from AACP.

Experiential Education Director Survey Results

Seventy-five of the 140 experiential education directors at AACP institutional member schools/colleges of pharmacy completed the survey, for a response rate of 53%. The experiential education directors reported provision of the following strategies and benefits to adjunct/affiliate preceptors from schools/colleges of pharmacy: access to library services (91%), free/discounted live continuing education programming (88%), faculty appointment (77%), access to online services/products/programs (74%), free/discounted online or print programming (69%), support such as on-site faculty or co-funded faculty position(s) (69%), support for student/residency programs, such as a teaching certificate (65%) and stipend to the adjunct/affiliate preceptor practice site (51%).

When asked about support, services and benefits AACP can provide directly to adjunct/affiliate preceptors for their development and those AACP can supply through schools/colleges of pharmacy to support preceptor development, the responses reported by experiential education directors were very similar (Table 1). A standardized preceptor development program could include techniques to maximize efficiencies in the student pharmacist onboarding process, resources for standardizing the structure of student rotations (e.g., syllabi templates, rotation objectives, activities, rotation scheduling, grading rubrics), and information on ACPE Standards. Preceptor training/development resources or toolkits were another popular resource cited by experiential education directors. Suggested content for these resources or toolkits included effective teaching and learning strategies in experiential education, providing feedback to learners, assessment of learners, mentoring student pharmacists, understanding millennials, and case-based training. Additional suggestions for preceptor training and development included creating student research projects at a rotation site, successful practices/ideas to assist in establishing/advancing IPPEs and APPEs and integrating students into practice, and information about implementation of the Pharmacist Patient Care Process⁸ and Interprofessional Education⁹ in practice. Respondents suggested that these resources should be provided via multiple avenues (e.g., print, online modules, podcasts, newsletters, and webinars [real-time and on-demand]) and should be specific for site (practice setting) and years of preceptor experience (where applicable). Respondents also stated that continuing education (ACPE) credits should be provided for these resources and that any training completed by the preceptor should be documented and tracked (and made accessible to schools/colleges of pharmacy).

Adjunct/Affiliate (and AACP Master Preceptor) and New Pharmacy Faculty Members Survey Results

Three hundred and forty-four adjunct/affiliate preceptors responded to the PAC survey, including 13 of 22 recognized as AACP Master Preceptors. Experiential education directors forwarded the survey link to an estimated 1,050 adjunct/affiliate preceptors. Therefore, the approximate response rate of adjunct/affiliate preceptors was 32%. The preceptor respondents were affiliated with 132 schools/colleges of pharmacy. The majority (56%) were well-experienced, having been a licensed pharmacist for 15 or more years, followed by 6-10 years (18%), 11-15 years (14%), 1-5 years (12%) and less than 1 year (0.3%). Thirty-five percent of respondents had 15 or more years of experience as a preceptor (35%), followed by 1-5 years (25%), 6-10 years (21%), 11-15 years (19%), and less than 1 year (1%). The preceptors represented a diverse array of practice settings, with the majority primarily working in non-government hospital/health system (inpatient) (38%), large chain community retail (13%), and

independent community retail pharmacy (9%). Fifteen of the adjunct/affiliate preceptor respondents (4.4%) reported current AACP membership, with membership dues paid by the respondent (53%), paid by the employer (12%), or generated through free membership as part of the Master Preceptor award (35%).

Surveys were distributed to 578 new pharmacy practice faculty members (identified from the AACP database as assuming a faculty role between July 2013 and September 2016). Eighty-three new faculty members representing 50 schools/colleges of pharmacy responded to the PAC survey (14% response rate). The most common primary practice settings were ambulatory care (30%), non-government hospital/health system (inpatient) (26%), and academic institutions (28%). The majority of respondents reported being a licensed pharmacist for 1-5 years (48%) and serving as a pharmacy preceptor for 1-5 years (57%). Eighty-eight percent of the respondents reported current AACP membership, with the membership dues paid by the institution (46%), the respondent (29%), first-time faculty free membership (19%), or a shared expense between the respondent and the institution (6%).

Both adjunct/affiliate respondents and new faculty respondents reported utilizing similar resources for preceptor development. The most common preceptor development resources noted by adjunct/affiliate preceptors included education/training from employer/institution/school or college of pharmacy (66%), the *Pharmacist's Letter* (65%), and attending national (44%) and local/state/regional (57%) pharmacy association meetings. New faculty respondents reported education/training from employer/institution/school or college of pharmacy (76%), post-graduate training (65%), attending national (61%) and local/state/regional (57%) pharmacy association meetings, and teaching certificate programs (55%) as frequent sources of preceptor development.

Adjunct/affiliate preceptors and new faculty respondents agreed on several additional resources or experiences that could enhance their role as a preceptor. These included continuous preceptor development training, access to resources/drug information, access to teaching-specific resources, and certificate training programs. In addition, respondents also noted many of the above items as potential resources and benefits AACP could provide to enhance preceptor skills (Table 2). The adjunct/affiliate preceptor respondents cited access to online services/products/programs, discount or free continuing education programming and certificate training programs more than other resources. Responses of new faculty respondents were similar; however, professional networking opportunities with peers was also selected as a top resource/benefit that AACP can provide. Perhaps this is because most new faculty respondents were AACP members. Interestingly, 32% of the adjunct/affiliate preceptor respondents cited education/training on the role of the preceptor in interprofessional education as a resource/benefit that AACP could provide to preceptor members. This, along with provision of education/training on the role of the preceptor with the Pharmacist Patient Care Process⁸ and Entrustable Professional Activities (EPAs) for New Pharmacist Graduates¹⁰ may also be very beneficial for adjunct/affiliate preceptor members.

Table 3 provides a summary of attitudes regarding the creation of an AACP membership category for adjunct/affiliate preceptors. While the majority of each survey group reported either strongly agree or agree with the membership concept, there were questions/inquiries from the respondents regarding the membership package (e.g., benefits, services) and cost of membership.

Adjunct/affiliate preceptors provided information on the amount they would be willing to pay for an AACP membership following a free trial membership (Table 4). The most common response was \$51-

\$100 (28%), followed by 25% of respondents who reported unwillingness to pay for AACP membership. The "depends" group did not provide a definitive amount they would be willing to pay for membership. Many respondents made comments about the cost burden of dues for multiple memberships, which may explain responses in the zero to lower dollar amounts. This indicates that AACP must clearly define the value proposition for adjunct/affiliate preceptor membership to justify and explain any proposed membership rate.

Preceptor and Experiential Education Faculty/Staff Focus Groups

The PAC decided that focus groups with stakeholders would be valuable in exploring some of the key findings from the aforementioned surveys. The PAC elected to hold three focus groups, two with adjunct/affiliate preceptors and one with experiential education faculty/staff, during the APhA Annual Meeting in San Francisco, California in March 2017. Invitations to the adjunct/affiliate preceptor focus groups were sent electronically to the APhA Preceptor Special Interest Group (SIG) online network (permission to post the invitation was obtained from APhA), and an invitation for the experiential education faculty/staff focus group was sent to the AACP Experiential Education Section list-serv. The discussion guides used for the focus groups are available from AACP.

Two focus groups with adjunct/affiliate preceptors had a total of eight participants (7 females and 1 male). The participants represented various practice settings, including academia, ambulatory care, community, and long-term care, with the majority of participants having a doctor of pharmacy degree (n=6) and residency training (n=5). The majority of participants had been a licensed pharmacist for more than 15 years (n=5). Five participants served as preceptors for APPEs only, while 3 were preceptors for both IPPEs and APPEs. The participants had a broad range of years of experience (preceptor for 1-3 years [n=3], preceptor for 7-10 years [n=1], and preceptor for more than ten years [n=4]). The participants offered several elements that would assist them in developing their skills as preceptor. These included learning from and exchanging information with other preceptors, having examples of practices of successful preceptors, and having the ability to generate new models of practice based upon experience of others. When provided a list of potential benefits for adjunct/affiliate preceptor membership in AACP, the focus group participants indicated the following as amongst the most important for their preceptor development:

- Preceptor training and development toolkit (n=1);
- Stipend (funding) for preceptors to travel to conferences/meetings (n=1);
- Preceptor teaching certificate (n=2);
- Standardized preceptor development program (n=3);
- Conference or regional meetings for preceptors (n=3); and
- Digital platform for preceptors to network and share their work, research and best practices (n=8).

When asked if they would consider becoming a member of AACP as an adjunct/affiliate preceptor, all of the participants indicated they would consider membership. They cited interest in membership for a variety of reasons, including ability to provide AACP with contemporary pharmacy practice information, ability to voice preceptor and educational concerns to the academy, opportunities to network with other preceptors, and enhanced exposure to curricula and learning outcomes for student pharmacists. Focus group participants indicated that a yearly membership fee of \$100-\$150 was reasonable and

recommended provision of a complimentary membership for a minimum of one year so preceptors could see firsthand the benefits of AACP membership. They also advised that many adjunct/affiliate preceptors may be interested in AACP membership, but may be hesitant due to the cost of other association memberships and fees (e.g., pharmacist licensure renewal).

The focus group of experiential education faculty/staff was comprised of eight participants. The participants represented an equal number of public and private institutions, and the majority had earned the doctor of pharmacy degree (n=7) and were residency trained (n=5). The majority had been licensed as a pharmacist for more than 15 years (n=5), and the length of time in experiential education varied (less than one year [n=1], 1-3 years [n=3], 7-10 years [n=2], and more than 10 years [n=2]). Participants reiterated that their institution provided many of the benefits to adjunct/affiliate preceptors as reported in the experiential education director survey. Examples included access to library services, continuing education programs, and faculty appointment (some requiring paperwork from the preceptor). Participants listed financial support for meetings, provision of the Preceptor Training & Resource Network (from the *Pharmacist's Letter*), provision of a research network for preceptors, and various preceptor recognition programs as additional benefits provided by their institution. During the discussion of a standardized preceptor training program, some participants believed that implementation of such a program would be challenging, as there is not a "one-size-fits-all" for preceptors and practice sites. Participants were interested in having a national standardized package of information/training for new preceptors to reduce the need (and redundancy) for creation of a basic training program at each school/college of pharmacy; however, they acknowledged that such a program would be costly to develop and maintain. Experiential education faculty also mentioned the need to have resources available for all preceptors (including materials on new educational concepts, e.g., Pharmacists' Patient Care Process), and the necessity for national pharmacy associations to work together in developing and marketing preceptor development programs and services. Due to time constraints, no discussion of the potential AACP membership category for adjunct/affiliate preceptors occurred during this focus group.

Overall, the focus groups echoed many of the results from the surveys conducted by the PAC. While the PAC acknowledges that participants in the adjunct/affiliate preceptor focus groups may be biased by being more engaged and interested in continuing professional development for preceptors, the insights from focus groups provide valuable information for AACP to consider in developing resources and services for this group of pharmacy educators. The focus group with experiential education faculty/staff also supplied useful information regarding preferred types of preceptor development resources and the need for collaboration from national groups in development of these resources. More details regarding the focus group discussion items are available from AACP.

Increasing the Presence of Adjunct/Affiliate Preceptors in AACP

Adjunct/affiliate preceptors are a key group of stakeholders that bear significant responsibility for ensuring practice-ready, team-ready pharmacy graduates.³ Academic pharmacy, through the schools/colleges of pharmacy, and the national pharmacy organizations play a significant role in preceptor training and development. Other national professional pharmacy associations have in fact targeted their respective memberships by offering preceptor training and development programs and services, often conducted by colleagues from the academy. Although AACP has typically not had a direct relationship with adjunct/affiliate preceptors, the results of the PAC surveys and focus groups suggest there are

services AACP can provide to this group of educators. As the organization representing academic pharmacy, it is reasonable that AACP consider expanding its relationship through establishment of a formal membership option for adjunct/affiliate preceptors.

Currently, adjunct/affiliate preceptors can become an Affiliate member of AACP, which is a non-voting, individual membership category. The cost of individual Affiliate membership is the same as Active individual membership, which is the AACP membership category for administrators, faculty, staff and librarians of regular and associate institutional members. As discussed previously, the results of the PAC survey of experiential education directors, new faculty and adjunct/affiliate preceptors indicate a need for training and development that AACP could design and provide for adjunct/affiliate preceptors.

The PAC discussed elements to consider as AACP explores the possibility of formalizing a relationship with adjunct/affiliate preceptors. One potential disadvantage is that this group of educators is typically unfamiliar with the role of AACP. In addition, AACP is traditionally not the professional association that they join or consider for training and continuing professional development. Many professional associations face challenges in recruitment and retention of members, and AACP may encounter similar issues as it develops its marketing strategy and value proposition to attract and retain adjunct/affiliate preceptors for membership. The costs, including money and time, for adjunct/affiliate preceptors to join the association also warrant consideration, since many preceptors are already dues-paying members of other professional associations.

As the voice of academic pharmacy, AACP can provide adjunct/affiliate preceptors with essential and relevant information, as well as education and training on the role of the academy, and responsibilities and opportunities as an educator. The optimal method to inform adjunct/affiliate preceptors of the opportunity for membership in AACP is an important question. Direct marketing to adjunct/affiliate preceptors may not be efficient or feasible, since there is no central database of preceptors. Utilizing the schools/colleges of pharmacy to provide information on AACP membership to adjunct/affiliate preceptors may be a more effective strategy. Because most adjunct/affiliate preceptors are not members of the association, the PAC believes AACP should consider offering a free trial membership to adjunct/affiliate preceptors, which will allow personal experience with AACP programs and services.

The PAC also discussed the possibility of having the schools/colleges of pharmacy support AACP membership dues for their adjunct/affiliate preceptors. Many approaches could be utilized by schools/colleges of pharmacy to contribute to membership of adjunct/affiliate preceptors in AACP—payment of the full or partial cost of membership dues, payment of AACP membership fees for select adjunct/affiliate preceptors based on institutional criteria, or application to the school/college for adjunct/affiliate membership in AACP. Another suggested option was to have schools/colleges of pharmacy remunerate AACP directly for availability of services/programs for all adjunct/affiliate preceptors. The AACP institutional dues paid by schools/colleges of pharmacy could include a base fee for preceptors prorated on student pharmacist enrollments (centered on the assumption more student pharmacists necessitates more adjunct/affiliate preceptors). Alternatively, schools/colleges of pharmacy could provide a set fee to AACP to develop and provide necessary training for adjunct/affiliate preceptors.

Provision of AACP programs offering continuing professional development for adjunct/affiliate preceptors and/or standardized preceptor training may be beneficial for schools/colleges of pharmacy in

meeting ACPE accreditation requirements.² In the past, APhA developed a continuing education (CE) preceptor training program entitled *The Community Pharmacist Preceptor Education Program* which addressed the role of the preceptor in education of student pharmacists and provided strategies to enhance implementation of community pharmacy rotations. This program, which expired in 2013, was very well received by academic pharmacy and other pharmacy stakeholders. The PAC discussed the potential for updating this program to include multiple practice settings. The PAC realizes that continuous preceptor training options may not be viable at many schools/colleges of pharmacy due to budgetary constraints. Therefore, the PAC believes it is important to provide AACP and the academy with opportunities to establish a formal relationship with adjunct/affiliate preceptors.

Another option for AACP to establish a relationship with adjunct/affiliate preceptors is formation of a dual-membership with another national pharmacy association. A relationship of this type would provide an adjunct/affiliate preceptor with AACP membership at a reduced rate if they were also a member of another national pharmacy association. Since the PAC has three professional staff members of national pharmacy organizations (ACCP, APhA and ASHP), the PAC requested that they explore this possibility with their respective operations/membership staff colleagues. All three organizations stated that a dual-membership relationship with AACP for adjunct/affiliate preceptors is not feasible at this time. Reasons included potential "cannibalizing" of their membership base, higher priorities for the organization, and prior experiences with dual membership arrangements with other organizations that did not function well fiscally or operationally.

Creation of a new membership category for adjunct/affiliate preceptors requires significant planning by AACP. AACP must formulate and finalize the value proposition for these members, including benefits, resources, and services offered initially and in the future (3 to 5 years). Establishment of membership targets and membership rate (and decision on free trial membership) will inform the budgeting of resources and personnel necessary to accomplish the desired programming and services for this member category. In addition, operational considerations (e.g., validation of adjunct/affiliate preceptor status, impact on school and/or AACP reporting for Institutional Research) must be determined. A marketing plan for adjunct/affiliate preceptors also has to be created and executed. AACP should consider establishing an advisory board, comprised of Experiential Education faculty and preceptors (including Master Preceptors) to provide input on development of the adjunct/affiliate preceptor membership category. Finally, the AACP House of Delegates will have to approve the establishment of a new membership category, since membership categories require an amendment of AACP Bylaws.

Recommendation 1: AACP should develop a formal plan for establishing a new membership category for adjunct/affiliate preceptors to be considered at the 2018 AACP House of Delegates.

Recommendation 2: AACP should develop a resource, operational, and marketing plan to provide standardized training and continuing professional development for adjunct/affiliate preceptors.

Recommendation 3: AACP should collaborate with APhA to revise/update the initial orientation preceptor program (formally known as The Pharmacist Preceptor Education Program).

The Value of Student Pharmacists in Experiential Education

After conferring with AACP President DiPiro, the PAC focused the third committee charge on examining the literature pertaining to value-added contributions of student pharmacists in various health care settings. During experiential rotations, student pharmacists learn key practical knowledge that helps fine-tune their skills and prepares them to be team-ready and practice-ready in real-world practice. In addition, evidence demonstrates that students add value to experiential sites by enhancing business growth potential, solving drug-related problems, and decreasing overall cost of healthcare while completing rotations. This data is a useful component of the value proposition for adjunct/affiliate preceptors. Preceptors can utilize this information to enhance practice settings with student pharmacists and/or supplement evidence of the role and positive potential of experiential education. Providing this information to academic pharmacy and other stakeholders not only helps support the recognized value, but also generates a starting point for necessary discussions regarding the roles that student pharmacists, preceptors, and experiential education may contribute to health care settings, health care and patient outcomes.

AACP staff used PubMed to identify relevant literature search on September 19, 2016. The resulting search yielded 60 articles that were divided equally by alphabetical order of title into four groups, with each group reviewed by three PAC members. Each group of fifteen articles was evaluated individually by the same three committee members assigned to that group of articles. Individual articles were assessed as: "Not applicable to the charge;" "Uncertain;" or "Applicable to the charge." During a PAC conference call, members reviewed the articles and determined the assessment for each. For every article, PAC members reached agreement on whether the article would be included in the review. Articles contained in the review encompass various practice settings (community, ambulatory care, transitions of care, and hospital/health systems) and patient populations. Table 5 provides a summary of information from the literature review. Appendix I contains an Executive Summary of the literature review.

This brief literature review reinforces that many practice settings offer a substantive learning environment for student pharmacists, while also allowing them to showcase their potential to add value to patient care and the healthcare system. Documentation of clinical contributions of student pharmacists, as well as the associated costs and cost savings, can help influence practice sites that want to increase pharmacist-provided services to consider expanding access to student pharmacists. Student pharmacists, being our future pharmacist practitioners, are capable of improving the quality of care and reducing costs of the healthcare system.

Policy Statement 1: AACP recognizes the importance of academic pharmacy collaborating with pharmacy practice and other health professions in documenting and demonstrating the value of student pharmacists and pharmacy preceptors.

Suggestion 1: Schools/colleges of pharmacy and other stakeholders in experiential education should evaluate, conduct research and publish on the value-based outcomes (e.g., clinical, humanistic, financial) of student pharmacists and experiential education in health care settings and patient care.

CONCLUSION

For many years, AACP has contemplated how best to serve the needs of adjunct/affiliate preceptors. Experiential education accounts for approximately 30% of doctor of pharmacy curricula, and adjunct/affiliate preceptors play a critical role in oversight and education of student pharmacists

completing the experiential portion of their training. To optimize training of student pharmacists, preceptors must remain current on the latest educational concepts (e.g., Pharmacists' Patient Care Process and Entrustable Professional Activities) and implement best practices to enhance engagement of student pharmacists in the health care setting. Focus groups and surveys of adjunct/affiliate preceptors and experiential education directors conducted by the 2016-2017 PAC indicate the need for additional preceptor development resources and advocate for a standardized training program for new preceptors. Preceptors also desire increased opportunities for networking with other preceptors to gain information on best practices and successful techniques for incorporating learners into the health care setting. In addition, experiential education directors, preceptors, and new pharmacy practice faculty conveyed interest in creation of an AACP membership category for adjunct/affiliate preceptors to help address preceptor training and development needs. AACP is in a prime position to support schools/colleges of pharmacy and augment ongoing preceptor development efforts and programs that advance the profession. As such, the PAC recommends that AACP should formally embrace and engage preceptors in the academy by developing a plan for establishment of a new membership category for adjunct/affiliate preceptors.

In response to the charge by President Joseph DiPiro, the PAC examined literature on value-added contributions of student pharmacists and preceptors in the experiential environment. A review of the literature demonstrates that interventions by student pharmacists have shown improved patient satisfaction and significant cost avoidance in many practice settings (community, ambulatory care, transitions of care, hospital/health systems); however, cost avoidance figures are usually "soft" cost estimates drawn from the literature. The U.S. health care system is in a period of intense and rapid transformation. To expand the role of pharmacy practice and advance provider status, academic pharmacy must collaborate with pharmacy practitioners and other health professions in documenting and demonstrating the value of student pharmacists and pharmacy preceptors. In addition, schools/colleges of pharmacy and other stakeholders in experiential education should conduct research and disseminate findings on value-based outcomes of student pharmacists and preceptors in health care settings and patient care.

TABLES

Table 1: Benefits and Services AACP Can Provide to Adjunct/Affiliate Pharmacy Preceptors as Reported by Experiential Education Directors

Benefits/Services that AACP Can Provide to Adjunct/Affiliate Pharmacy Preceptors

A Standardized Preceptor Development Program

Preceptor Training/Development Resources (Toolkit)

Preceptor Teaching Certificate

Preceptor-Specific Conference (similar to the one currently offered by ASHP)

Preceptor-Specific Programming at the AACP Annual Meeting

Preceptor Development Column/Information in The American Journal of Pharmaceutical Education

Social Interface/Mechanism for Preceptors to Network and Share Their Work, Best Practices, and Research

Library Resources

Establishment of a Preceptor Special Interest Group (SIG)

Table 2: Benefits and Services AACP Can Provide to Adjunct/Affiliate Pharmacy Preceptors as Reported by Adjunct/Affiliate Pharmacy Preceptors and New Pharmacy Practice Faculty

Benefit/Service	Adjunct/Affiliate	New Pharmacy
	Preceptor	Practice Faculty
	N=341 responses (%)	N=82 responses (%)
Access to online services, products, programs	65.4	54.9
Online drug information services (e.g., LexiComp,	45.2	31.7
Micromedex)		
Certificate training program (e.g., Antimicrobial stewardship,	48.1	32.9
point-of-care testing)		
Discount/free continuing education programming (live)	51.9	51.2
Discount/free continuing education programming	60.7	58.4
(online/print)		
Preceptor list-serv, blog or other online networking avenue	29.0	19.5
Preceptor mentor program	22.3	37.8
Professional networking opportunities with peers	29.0	58.5
Providing education/training on the preceptor role in	32.0	0
interprofessional education (IPE)		

Table 3: Attitudes Regarding Creation of an AACP Membership Category for Adjunct/Affiliate Pharmacy Preceptors

	Si	urvey Respondent Catego	ry
	Experiential Education	Adjunct/Affiliate	New Pharmacy
	Director	Preceptor	Practice Faculty
	N=75 responses (%)	N=341 responses (%)	N=83 responses (%)
Strongly Agree	21.6	30.5	26.8
Agree	31.1	35.8	40.2
Neutral	21.6	25.5	20.7
Disagree	9.5	1.2	2.4
Strongly Disagree	4.1	0.6	0
Uncertain	12.2	6.5	9.8

Table 4: Willingness of Adjunct/Affiliate Pharmacy Preceptors to Pay for Annual AACP Membership

Annual Membership Fee	Total N	Percent
Zero	83	24.9
\$1.00 to \$50.00	60	18.0
\$51.00 to \$100.00	95	28.4
>\$100.00	44	13.2
Depends	52	15.6
Total	334	

Table 5: Summary of Literature Documenting the Value of Student Pharmacists in Experiential Education

Author(s)	Year	Practice Setting	Practice Area(s)	Number of Student Pharmacists	Level of Student Pharmacists	Outcome Type(s)	Outcomes	Interprofessional Education (IPE) Involvement
Soric MM, Glowczewski JE, Lerman RM. 12	2016	Small community hospital	Health- system, Transitions- of-care	6,720	APPE	Economic; Humanistic (Patient Satisfaction)	Medication cost per discharge: \$161.52 (intervention) vs. \$210.15 (control); percentage of patients reporting they "always" received medication education increased significantly.	No. Layered-learner model is utilized
		·	Health-				Improvement in HCAHPS scores above 75th percentile regarding medication education; increased	
			system,			Humanistic	discharge	
Gilmore V, et		Large academic	Transitions-			(Patient	prescription capture	
al. ¹³	2015	medical center	of-care	Not Provided	APPE	Satisfaction)	rates. At admission, 82% of the medication reconciliations were performed correctly by the team with a student pharmacist vs. 61% when a student pharmacist was not involved (p = 0.006). At discharge, 86% of	No
Mathys M, et		VA in patient mental health	Transitions-			Clinical (Medication	medication reconciliations were	
al. 14	2015	mental health unit	of-care	525	APPE	Reconciliation)	performed correctly	No

							by the team with	
							student pharmacist	
							involvement vs.	
							68% in the control	
							group (p = 0.005).	
							88% of patients had	
							at least one	
							discrepancy	
							identified in their	
							medication history	
							and corrected in the	
							electronic medical	
							record. 11.4% of	
						Clinical	patients had a	
Ashjian E, et		Outpatient	Transitions-			(Medication	medication-related	
al. ¹⁵	2015	infusion center	of-care	510	IPPE	Reconciliation)	problem identified.	No
							93% of medication	
							histories were	
							completed within 24	
							hours of	
							admission. Student	
							pharmacists	
							identified 0.9	
							medication-related	
							problems per patient	
							in collaboration	
							with a pharmacist	
							preceptor. Students	
							believed the quality	
							of their interactions	
						Clinical	with healthcare	
Pinelli NR, et		Large academic	Transitions-			(Medication	professionals was	
al. ¹⁶	2015	medical center	of-care	83	IPPE	Reconciliation)	good or excellent.	No
						,	59,613 interventions	
							with an estimated	
						Economic	cost avoidance of	
						(Estimated Cost	over \$8M. The	
						Avoidance);	average savings per	
			Health-			Clinical	intervention was	
Shepler BM ¹⁷	2014	Various	System	580	APPE	(Interventions)	\$148. The top three	No
~r			- j 			()	,	3

							intervention types	
							for cost avoidance	
							were identifying	
							potential allergic	
							reactions,	
							identifying drug	
							interactions, and	
							resolving	
							contraindications.	
							2,170 interventions	
							with a 97%	
							acceptance rate and	
							an estimated cost	
							savings of	
							\$280,297. The most	
							common	
							interventions	
							performed were	
						Economic	patient education,	
						(Estimated Cost	medication history,	
Shogbon AO,		Community				Avoidance);	and IV to PO	
Lundquist		nonteaching	Health-			Clinical	screening and	
Lundquist LM ¹⁸	2014	hospital	System	120	APPE	(Interventions)	conversions.	No
LIVI	2014	nospitai	System	120	AFFE	(Interventions)	Estimated cost	NO
							savings \$61,855	
						II	mostly attributed to	
						Humanistic	writing medication	
						(patient/provider	list and counseling	
						education);	patient. Of	
						Clinical	recommended	
						(medication	interventions that	
						reconciliation,	were categorized as	
						therapy	needing immediate	
						recommendations);	attention, 58% were	
- 10		Urban family	Ambulatory			Economic (cost	accepted by	
Ginzburg R ¹⁹	2014	medicine clinic	Care	18	APPE	avoidance)	provider.	No
						Clinical (DRP	Students complete	
						identification,	676 medication	
Armor BL,		Family medicine	Ambulatory			medication	histories and made	
et al. ²⁰	2014	clinic (PCMH)	Care	38	APPE	reconciliation,	1308 DRP	No

						therapy	interventions.	
						recommendation	During the live	
						and acceptance	medication	
						rate)	reconciliation	
							process 78% of	
							student	
							recommendations	
							were accepted.	
							Highest acceptance	
							rates were for	
							recommendations to	
							provide education	
							and refill a	
							prescription.	
							87 (71%) students	
							documented 5,775	
							interventions with	
							an estimated cost	
							avoidance of over	
							\$900K. The	
							intervention	
							categories with	
							greatest cost	
							avoidance included	
			Health-			Economic	preventions of	
			System,			(Estimated Cost	adverse drug events,	
			Community,			Avoidance);	provider education,	
Woolley AB,			Ambulatory			Clinical	and patient	
et al. ²¹	2013	Various	Care	123	APPE	(Interventions)	education.	No
							Results of the	
							interprofessional	
							clinical rounding	
							model observations	
							and	
							debriefings revealed	
							most students were	
						Humanistic	engaged in the	
						(Interprofessional	process and reported	
Lyon KJ, et		Large academic	Health-			Student	a high level of	
al. ²²	2013	medical center	System	48	APPE	Satisfaction)	satisfaction. All	Yes

							groups suggested	
							they had a better	
							appreciation for the	
							roles of other	
							healthcare	
							professionals in the	
							team were able to	
							develop a more	
							integrated plan of	
							care.	
							Literature review of	
							multiple practice	
							settings comprised	
							of 29 studies and 6	
							abstracts. Each	
Mersfelder							student saved	
TL,							between \$500-	
Bouthillier						Economic (cost	\$6000 during	
M^{23}	2012	Various	Various	Not Provided	APPE	savings)	clerkship rotations.	No
							Diabetes	
							management clinics	
							run by student	
							pharmacists saw	
							significant	
							decreases in overall	
							A1c, blood pressure,	
		Rural					total cholesterol,	
		community				Humanistic	LDL cholesterol and	
		health centers				(student	triglycerides. No	
		with diabetes				perception);	significant change	
Nuffer E, et		management				Clinical (disease	noted for HDL	
al. ²⁴	2012	programs	Community	120	APPE	state markers)	cholesterol.	No
							704 drug-related	
							problems identified	
							for 509 patients	
							(53% relayed	
		Community				Clinical (DRP	recommendations to	
		Pharmacy				identification,	their physician); 205	
Hata M, et		(Chain and				therapy	Physicians accepted	
al. ²⁵	2012	Independent)	Community	47	APPE	recommendation)	recommendations	No

							(75%); 88% of	
							patients felt better	
							about their	
							medications after	
							receiving MTM	
							services.	
		Inpatient						
		anticoagulation					Student pharmacists	
		teaching service					and residents	
		supporting a					significantly	
		large teaching				Humanistic	increased the rate of	
		hospital, a				(Patient	patient education	
		women's				Education);	(59.2% vs. 39.1%,	
Wilhelm SM,		hospital, and a				Economic	p < 0.0001) and	
Petrovitch		rehabilitation	Transitions-			(Readmission	lowered 60-day	
$EA.^{26}$	2011	facility	of-care	387	APPE	Rates)	readmission rates.	No
							320 interventions;	
							the most common	
							interventions	
							included patient	
							education (13.1%),	
							order clarification	
							(11.6%), therapeutic	
							dosing adjustments	
							(10.9%), and lab	
							order monitoring	
							(8.8%). Estimated	
						Economic	cost avoidance for	
						(Estimated Cost	student pharmacist	
						Avoidance);	interventions was	
Campbell		Specialty	Health-			Clinical	approximately	
AR, et al. ²⁷	2011	hospital	system	15	APPE	(Interventions)	\$23,000.	No
1111, 00 011	_011	1100111111	5) 500111	10		(Inter (entrolle)	Student pharmacists	110
							involved in a	
							structured	
							medication	
							reconciliation	
						Humanistic	process learning	
Walker PC,		Large academic	Transitions-			(Student	experience reported	
et al. ²⁸	2011	medical center	of-care	Not provided	IPPE	Satisfaction)	to have a positive	No
ct ai.	2011	medical center	or-care	riot provided	ппь	Sausiachon)	to have a positive	140

							attitude toward the	
							process and are	
							aware of its	
							importance. The	
							survey indicated	
							students' gained a	
							better understanding	
							of medication	
							reconciliation,	
							ability to assess	
							pertinent data, and	
							how to	
							communicate	
							discrepancies to	
							other healthcare	
							professionals.	
							103	
							recommendations	
							made to physicians	
							with a 41%	
							acceptance rate; the	
							percentages of	
							patients receiving	
							"any," "suitable,"	
							and "optimal"	
							prophylaxis	
							increased from	
							70.5% to 82.7% (p	
							= 0.0005), 64.4% to	
							75.9% (p = 0.0022),	
		Large				Clinical (Venous	and 56.3% to 68.5%	
Butkievich		community	Health-			Thromboembolism	(p = 0.0022),	
LE, et al. ²⁹	2010	teaching hospital	system	295	APPE	Prophylaxis Rates)	respectively.	No
			·				95% of patients	
							found the student	
						Humanistic	pharmacist	
						(patient education,	assessment helpful,	
		Internal and				patient satisfaction,	31% of patients	
Garrison GD,		Family Medicine	Ambulatory			student pre-post	were identified to	
et al. ³⁰	2010	Clinics	Care	57	APPE	tests)	have a CHD risk	No
						,		

							factor that was	
							previously	
							undocumented.	
							Student pre and post	
							test scores indicate a	
							26.9% improvement	
							after the rotation.	
							Patients of	
							pharmacies that had	
							APPEs that	
							integrated	
							pharmaceutical care	
							activities reported	
							significantly higher	
							mean satisfaction	
							scores and	
							significantly smaller	
							gap between	
							expectations and	
							experience	
							compared with	
		Community				Humanistic	patients of	
Kassam R, et		Pharmacy				(Patient	pharmacies with	
al. ³¹	2010	(Retail Chain)	Community	Not Provided	APPE	Satisfaction)	traditional APPEs.	No
							Number of patients	
							receiving	
							medication	
							education increased;	
							percentage of	
							patients with at least	
							one MTM	
							recommendation	
							increased; students	
							reported experience	
						Humanistic	positively affected	
						(Patient Education,	their ability to	No.
			Health-			Student and Staff	impact care;	Multidisciplinary
			system;			Satisfaction);	hospital benefitted	medication
Donihi AC,		Large academic	Transitions-			Clinical (MTM	for ability to expand	education
et al. ³²	2009	medical center	of-care	426	APPE	recommendation)	services; school of	program.

							pharmacy benefitted	
							by establishing an	
							APPE site.	
							542	
							recommendations	
							made (average 38.7	
							per student), 65% of	
							recommendations	
							were written.	
							Overall acceptance	
							rate was 88.6%,	
							acceptance of verbal	
							recommendations	
							97.9%, acceptance	
							of written	
							recommendations	
							83.6%. Most	
							common	
							recommendations	
		Outpatient				CIL 1	were lab	W D !!
T 1 1.4		internal				Clinical	monitoring,	Yes: Resident
Lundquist		medicine clinic	A1. 1 . 4			(acceptance rate of	medication	physicians and
LM, Moye	2000	in a teaching	Ambulatory	1.4	A DDE	written vs verbal	initiation and dose	student
PM^{33}	2009	hospital	Care	14	APPE	recommendations)	change. Number of	pharmacists
							admission	
							assessment referrals	
							increased by 60%,	
							for those patients	
							meeting institution	
							criteria, IV to PO	
							conversion rate	
							increased to 100%,	
							and days on IV	
						Clinical	therapy decreased	
Bock LM,						(Admission	from seven days to	
Duong M,						Assessments, IV to	two days. No raw	
Williams		Large academic	Health-			PO conversion, IV	data or significance	
JS. ³⁴	2008	medical center	system	Not Provided	APPE	days of therapy)	was reported.	No
• • • • • • • • • • • • • • • • • • • •	_000		5,500	30 2 10 . 1000		says of merapy)	reported.	1.0

							97% of students	
							(medical, pharmacy)	
							completed the post-	
							discharge follow-	
							up curriculum. The	
							attitudes and self-	
							assessed skills of	
							both medical and	
							pharmacy students	
							significantly	
							improved for most	
							survey items after	
							the	
							program. Students	
							reported the	
							curriculum had a	
							favorable impact on	
							their learning about	
							interdisciplinary	
							care, humanism, and	
							discharge	
							planning. 93%	
						Humanistic	reported the	
						(Interprofessional	curriculum was	
Lai CJ, et		Large academic	Transitions-			Student	valuable to their	
al. ³⁵	2008	medical center	of-care	61	APPE	Satisfaction)	education.	Yes
							109 interventions	
							documented, half of	
							interventions	
							included	
							recommendations	
							for lab monitoring,	
							drug information or	
							patient education.	
							The physician	
							partners accepted	
		Primary care	Ambulatory			Clinical	66.2% of the	
Fit KE ³⁶	2008	clinic	care	2	APPE	(interventions)	recommendations.	No

							922 medication	
							discrepancies	
							were identified by	
							student	
							pharmacists. There	
							was a significant	
							relationship	
							between the number	
							of discrepancies	
							identified and the	
							total number of	
							medications	
							prescribed for a	
							patient (p <	
							0.05). Students	
							identified and	
							provided a	
							recommendation	
							and intervention for	
							a total of 59 drug-	
		Three small				Clinical	related problems	
Lubowski TJ,		community	Transitions-			(Medication	with a 48%	
et al. ³⁷	2007	hospitals	of-care	330	APPE	Reconciliation)	acceptance rate.	No
ct ai.	2007	позрнаіз	01-care	330	ALL	reconcination)	acceptance rate.	110

APPE=Advanced Pharmacy Practice Experience; HCAHPS=Hospital Consumer Assessment of Healthcare Providers and Systems; VA=Veterans Administration IPPE=Introductory Pharmacy Practice Experience; PCMH=Patient-Centered Medical Home; DRP= Drug-Related Problems

APPENDIX 1: Executive Summary of the Literature Review of the Value of Student Pharmacists in Experiential Education



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