

## AACP REPORT

### A Pathway to Professional Identity Formation: Report of the 2020-2021 AACP Student Affairs Standing Committee

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**EXECUTIVE SUMMARY** Professional identity formation (PIF) involves internalizing and demonstrating the behavioral norms, standards, and values of a professional community, such that one comes to “think, act and feel” like a member of that community. Professional identity influences how a professional perceives, explains, presents and conducts themselves. This report of the 2020-2021 AACP Student Affairs Standing Committee (SAC) describes the benefits of a strong professional identity, including its importance in advancing practice transformation. Responding to a recommendation from the 2019-2020 SAC, this report presents an illustrative and interpretative schema as an initial step towards describing a pharmacist’s identity. However, the profession must further elucidate a universal and distinctive pharmacist identity, in order to better support pharmacists and learners in explaining and presenting the pharmacist’s scope of practice and opportunities for practice change. Additionally, the report outlines recommendations for integrating intentional professional identity formation within professional curricula at colleges and schools of pharmacy. Although there is no standardized, single way to facilitate PIF in students, the report explores possibilities for meeting the student support and faculty development needs of an emerging new emphasis on PIF within the Academy.

**Keywords:** professional identity formation, practice transformation, professionalism

#### INTRODUCTION

Colleges and schools of pharmacy play a critical role in professional identity formation (PIF) through design of courses and experiential education, as well as co-curricular requirements. Through the policies on professional education for the American Association of College of Pharmacy (AACP) colleges and schools are encouraged “to advance education that is aimed at the intentional formation of professional identity (ie, thinking, feeling and acting like a pharmacist) and developed and implemented in cooperation with the professional pharmacy organizations within the broader pharmacy profession.”<sup>1</sup> This committee report expands on the work of the 2019-2020 AACP Student Affairs Committee by describing the benefits of a strong

professional identity, the challenges of a universal pharmacist identity, and the importance of identity to practice transformation. It presents an illustrative and interpretative schema as an initial step towards describing a pharmacist’s identity. It also explores the faculty development and student support needed to engage in intentional formation of professional identity and implementation activities for colleges and schools to optimally engage in PIF.<sup>2</sup>

#### COMMITTEE CHARGES AND HISTORY

President Anne Lin formed the 2020-2021 Student Affairs Standing Committee (SAC) to continue the work of the 2019-2020 SAC on professional identity formation (PIF). With a year of research and discussion, some returning

members and some new members, the 2020-2021 committee was uniquely positioned to dig deeper into the issues and advance the former committee's plans and recommendations. The charges were to examine: 1) strategies to support PIF in our educational systems, 2) the use of implementation science to support the advancement of PIF and 3) PIF-supportive activities for the new Center to Accelerate Pharmacy Practice Transformation and Academic Innovation (the Center). To address the charges, members of the committee discussed the work of the preceding SAC in context of the other 2019-2020 AACP standing committees, analyzed the documents of multiple pharmacy professional organizations that describe aspects of a pharmacist's professional identity, and reviewed the literature for approaches to develop student pharmacists' professional identity. The SAC began by organizing around two goals established by the 2019-2020 SAC: 1) Develop a framework of essential values that describe the professional identity of a pharmacist and 2) Integrate PIF in pharmacy education, training, and practice. Biweekly meetings were scheduled online for either the entire committee or two subgroups that each focused on one of the goals. The SAC also met with members of the 2020-2021 Research and Graduate Affairs Standing Committee to better understand the use of implementation science to promote PIF in Doctor of Pharmacy (Pharm.D.) degree programs.

Concurrent with its investigations and deliberations on the charges, and in response to a recommendation in the previous report related to faculty development and programming (Recommendation 3),<sup>2</sup> the 2020-2021 SAC worked with AACP to develop an 2021 Interim Meeting session, "What's the end goal? Professionalism or professional identity?" with Dr. Yvonne Steinert, Professor of Family Medicine and Health Sciences Education at McGill University.<sup>3</sup> The programming followed on the PIF microsessions during the 2020 AACP Interim Meeting, a PIF webinar by 2019-2020 SAC members in May 2020, and PIF posters at the 2020 AACP Annual Meeting. The 2020-2021 SAC has also been advocating for the inclusion of PIF in the 2021-2024 AACP Strategic Plan.

In brief, professional identity involves internalizing and demonstrating the behavioral norms, standards, and values of a professional community, such that one comes to "think, act and feel" like a member of that community.<sup>4-6</sup> PIF extends affective development beyond the professionalism competencies well-known to pharmacy educators. It begins when novices first learn the foundational knowledge of the profession and observe the actions of members of the professional community they are joining. PIF continues when students practice acting like a member of the profession, doing the work of the

profession under the observation and guidance of mentors, and getting feedback on actions, attitudes, and behaviors related to professional norms. By regularly demonstrating competence in the roles and responsibilities of the profession and sufficient consistency in conforming to the professional expectations of colleagues, the individual begins to feel like a member of the community and an initial professional identity is developed. The PIF process continues indefinitely over the course of years, with identity evolving in response to additional experiences as a working member of the professional community.<sup>5</sup>

Following our review of the literature and discussions with experts, we contend that professional identity is too important to leave to chance. While there is not one definitive path to identity, or a narrow set of activities or experiences that guarantee it, pharmacy educators must nonetheless continue to collaborate in learning more about effective PIF approaches and incorporating those approaches into the curriculum and co-curriculum in a systematic, progressive manner. The benefits of a strong professional identity are significant. Identity influences how a professional perceives, explains, presents and conducts themselves.<sup>7</sup> Identity is also a key determinant of the scope and nature of an individual's work and prioritization of their roles.<sup>8</sup> As such, a strong professional identity is needed in this era of practice transformation and expansion of the pharmacist's roles. Furthermore, learners require guidance in developing a professional identity while also navigating amongst multiple emerging identities. Student pharmacists are moving from peripheral participant (ie, novice) to full member of the profession by gaining competency, yes, but also by learning the language, the hierarchies within the healthcare system, and the methods to manage the ambiguity that is inherent in patient care.<sup>5</sup> Pharmacy educators have the opportunity to extend our work with professionalism into the identity domain by making PIF an educational goal, engaging students in the work of identity formation and explicitly attending to important factors impacting PIF, including role modelling, mentoring, experiential learning, guided reflection and a welcoming community of practice.<sup>7</sup> Pharmacy educators are important in helping learners to navigate transitions, integrate personal and professional identities, manage emotions associated with this development (eg, anxiety, frustration, satisfaction) and learning to "play the role" on their way to *being* a pharmacist.<sup>5</sup>

## **PHARMACIST ROLES AS A COMPONENT OF IDENTITY**

As described by Cruess and Cruess, "It has long been known that humans pass through recognizable developmental stages throughout their lives, during which their

unique identity or identities are strongly linked to the roles that they play.”<sup>7</sup> Therefore, in considering identity, it is important to understand the roles that pharmacists have and are playing. Urick and Meggs summarize the evolution of community pharmacy practice, arguably the face of the profession to the public, by dividing it up into four eras based on the pharmacist’s primary role and/or responsibility.<sup>9</sup> In the “Soda Fountain Era” from 1920-1949, there was a transition away from the pharmacist’s traditional role of compounding medications toward dispensing manufactured proprietary medications. This led to the second era of “Lick, Stick, Pour, and More,” from 1950-1979. During this era, individual pharmacy practitioners and advocacy groups began to promote the idea that the primary role of the pharmacist was to educate the patient about their medications, a concept rapidly adopted by state pharmacy practice acts and emphasized in pharmacy curricula. The “Pharmaceutical Care Era” between 1980-2009 saw major changes to pharmacy practice requiring advanced education, such as expansion of medication administration and medication therapy management; thus, the Doctor of Pharmacy became the sole degree program for pharmacists. In the present “Post-Pharmaceutical Care Era,” acute and ambulatory care practice have largely evolved into the role of clinical services provider. However, much of community pharmacy practice continues to straddle the roles of the “Lick, Stick, Pour and More” and “Pharmaceutical Care” eras. As stated by Cruess, Cruess, and Steinert, “With time, the role comes to represent the individual’s identity or identities.”<sup>6</sup>

Observing differing roles of the pharmacist, such as a care provider in some settings and product dispenser in other settings, can create confusion, frustration and/or stress for pharmacy students as they navigate the tension between ‘who they are’ and ‘who they wish to become.’ Understandably, the various roles may seem discordant or even incompatible with each other. However, professional identity involves more than just the tasks and functions associated with one’s job. In assuming a professional identity, students are also internalizing the value systems of the profession and its norms.<sup>7</sup> Pharmacy educators are critical in providing guided reflection and mentorship to help students think beyond their observations of pharmacist roles and differences between settings. By clarifying the distinctions between roles and the other elements of identity, students will see that regardless of the practice site, pharmacists share a common community of practice based on a fundamental core set of values, characteristics and norms. In addition, schools and colleges can facilitate ‘who students wish to become’ by offering early career guidance and personalized education. Offering students curricular and co-curricular opportunities that examine

emerging career opportunities will help them to see a pharmacist’s identity as including being a change agent in healthcare.<sup>10</sup>

## **THE CHALLENGES OF A UNIVERSAL PHARMACIST IDENTITY**

There is evidence of five identity discourses in pharmacy, including apothecary, dispenser, merchandiser, expert advisor and healthcare provider. Rather than shifting over time, newer identities have been added to existing ones resulting in a “pile up.”<sup>11</sup> Elvey, Hassell and Hall’s research indicates nine role-based identities for pharmacists, including the scientist, clinical practitioner, medicines supplier and business person.<sup>12</sup> As a result, the 2019-2020 SAC report recommended that “AACP should initiate conversations within the profession of pharmacy to develop a unified identity” (Recommendation 2).<sup>2</sup>

Not only do identities differ among practitioners, lack of an agreed-upon identity is evident in stakeholder opinion on the content of educational programming. For example, a study examining European community pharmacists’ and pharmacy academics’ views on pharmacy practice competencies found that academics emphasized the importance of research, pharmaceutical technology, and the regulatory aspects of quality, while community pharmacists concentrated more on patient care competencies.<sup>13</sup> Similarly, Nobel et al. reported that students noticed a disconnect between learning in the curriculum and observations during experiential learning. For example, they were taught by professors that pharmacists are more than dispensing agents for physicians, yet were told by many preceptors that being patient-focused was not efficient in community pharmacy. This dissonance slowed professional identity formation in these students due to a lack of reinforcement of theoretical and practical components.<sup>14</sup>

### **A Step Toward Describing A Universal Pharmacist’s Identity**

Professional organizations in pharmacy have identified the attributes of member pharmacists and represent these identities in official papers and statements by the organizations. Analysis of those official papers and statements was undertaken as a step toward defining a pharmacist’s professional identity. A subgroup of the SAC searched the websites of the 13 member organizations of the Joint Commission of Pharmacy Practitioners (JCPP) to identify official papers or statements providing descriptions or definitions of member pharmacist attributes, roles and responsibilities. A total of 21 white papers, position statements, and other sources were identified for review. These materials included the American Pharmacists Association

(APhA) Oath of a Pharmacist,<sup>15</sup> the American Society of Health-System Pharmacists (ASHP) statements on Professionalism and the Pharmacist's Role in Primary Care,<sup>16,17</sup> the Center for the Advancement of Pharmacy Education (CAPE) Educational Outcomes,<sup>18</sup> the JCPP Pharmacists' Patient Care Process,<sup>19</sup> and the National Association of Boards of Pharmacy (NABP) Model State Pharmacy Act and Model Rules,<sup>20</sup> among others.<sup>21-35</sup> Two-thirds of the sources reviewed either originated or were revised within the past 10 years. Sources were reviewed for descriptions of how pharmacists think, act, and feel. A total of 211 descriptors were identified (51 for Think, 143 for Act, and 17 for Feel) and were categorized into 23 areas, which were then summarized into 13 domains (Table 1).

The domains (Table 1) were then discussed with the entire SAC to develop professional identity items that would fit into Think, Act, and Feel (Table 2), which is a schema suggested by Cruess et al. in their discussion of identity.<sup>4</sup> While these items were not taken verbatim from the 21 sources, they were derived from discussing the various points raised across the sources. This schema can be used as a guide for pharmacy learners, educators, and practitioners in considering the identity of a pharmacist. The examples related to feeling like a pharmacist were most difficult to identify and elucidate, and more work is needed in this area.

While this schema provides some initial insight, there is still a need for further description of the professional identity of a pharmacist. As part of this clarification, the profession should consider moving beyond roles, traits, characteristics and attributes. Descriptions of the profession's values, standards and norms that take into account current and future practice would complement the work presented in Tables 1 and 2 by elaborating on the principles

guiding behavior, especially in navigating difficult or ambiguous situations in the increasing complexity of practice.

### **Distinguishing a Pharmacist's Identity from Other Healthcare Professionals**

Any work in describing the pharmacist's identity cannot ignore the identities of other healthcare professionals. According to Merriam Webster, the definition of identity is "the distinguishing character or personality of an individual."<sup>36</sup> What distinguishes pharmacists from other healthcare professionals and leads to acceptance of their value to patient care? While profession-specific roles and tasks may be easily distinguishable, how one thinks, acts, and feels as a professional is to some extent shared among healthcare professionals. For example, compassion, empathy, communication skills, and the ability to think critically, utilize sound judgment to solve problems, make evidence-based decisions, and defend a point of view are arguably traits that comprise professional identity for all healthcare professions. One might conclude there is a foundational shared identity of a healthcare professional to which the identities of a specific profession are added. Figure 1 provides an illustration of only a few examples of many healthcare professions sharing common values, characteristics and norms.

Given the assertion of a shared identity among healthcare professionals, Tables 1 and 2 can be interpreted in a new way. Most of the elements listed could be considered as representing any healthcare professional. It is the pharmacist's role in optimizing medication use that distinguishes our profession from others. Pharmacists are uniquely trained to identify medication therapy problems. No other profession teaches medication-related skills, such as comprehensive medication review and clinical pharmacokinetics to the degree emphasized in pharmacy education. Furthermore, colleges and schools are working to prepare students to use a consistent thought process that involves assessing each drug for indication, effectiveness, safety and adherence.<sup>37</sup> Additional work in elucidating the distinctiveness of the pharmacist's identity is needed to support pharmacists and learners in explaining, presenting and conducting themselves in a manner that positively affects practice transformation.

Complicating the discussion is that values and norms are further stratified and nuanced among different types of roles and settings, making it more challenging to determine one universal professional identity for pharmacists. For example, while it may be the norm for clinic-based, ambulatory care pharmacists to follow up with patients to determine the effectiveness of therapy, this may not be the

Table 1. Common Pharmacy Professional Domains Found in Official Documents and Statements from Various Professional Pharmacy Organizations.

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Collaboration, Teamwork
Collect Pertinent Information
Communication, Counseling, Education
Recommend, Prescribe, Order
Enhance Adherence
Prepare, Dispense, Provide Medications
Implementation of Plans, Therapy, Testing
Promote Health and Wellness
Patient Advocacy
Patient Care Focus
Evidence-Based Practice
Creativity, Innovation, Entrepreneurship
Medication Expertise

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Table 2. An Illustrative Schema to Help Describe A Pharmacists' Professional Identity Based on the Domains Provided in Table 1 and Organized into the Think, Act, and Feel Schema Proposed by Cruess.<sup>5</sup>

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**Examples of How Pharmacists Think:**

- Critically evaluating data and other information
- Problem solving using pertinent information
- Prioritizing analysis of medications and their use
- Assessing a patient's status to determine the presence of medication-related problems (adverse effects, drug interactions, lack of adherence, duplicate therapy, inadequate therapy, etc.)
- Creating therapeutic and monitoring plans focusing on pertinent drug and nondrug therapy
- Continuing to learn about new drugs, disorders, practices, and technologies that impact patient care
- Performing accurate and appropriate calculations related to drug therapy

**Examples of How Pharmacists Act:**

- Participating as a team member and collaborating with the patient, caregivers, and other healthcare professionals
- Collecting pertinent information as needed to make appropriate decisions
- Communicating effectively with patients, caregivers, and other health professionals
- Providing documentation of services and recommendations provided
- Providing accurate information to patients, caregivers, and other healthcare professionals
- Conducting health and wellness screening
- Administering medications when appropriate
- Promoting healthy lifestyles and preventive health behaviors
- Protecting the confidentiality of patient information
- Acquiring, preparing, dispensing, and providing medications and other healthcare products
- Managing the medication use system
- Providing pharmacy-based services that enhance patient care
- Locating, summarizing, evaluating, and applying evidence from the primary literature

**Examples of How Pharmacists Feel:**

- Responsible for providing accurate information to patients, caregivers, and other healthcare professionals
  - Responsible for following the laws, regulations, standards of practice when providing services to patients, caregivers, and other healthcare professionals
  - Compelled to optimize patient care based on the patient's needs and wishes
  - Compelled to advocate for the patient to meet the patient's needs
  - Responsible for enhancing the health and wellbeing of patients and the community
  - Responsible to consider the accessibility, cost, and risks of therapy when making decisions or recommendations with respect to patient care
  - Compelled to develop covenantal relationships with patients
  - Compelled to focus on patient care
  - Compelled to portray a professional image
  - Accountable for their actions and decisions
  - Confident in their ability to solve the problems that arise on a day-to-day basis as a pharmacist
  - Empathy and compassion for their patients and for those with whom they work.
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norm in another practice setting. Additionally, norms also vary by region within the United States and globally. For example, the pharmacist functions permitted by law may differ in California compared with New York, which may impact professional identity. Clearly, discussion is needed within the profession to determine the universal and distinctive norms and core values common to all pharmacist professionals.

## **IDENTITY AND PRACTICE TRANSFORMATION**

In order to fully capitalize on the current and future abilities of pharmacists to meet societal needs and expectations, practice transformation within the pharmacy

profession needs to be unified and accelerated. Perceptions of the scope and nature of a professional's work and prioritization of the professional's roles is influenced by professional identity.<sup>8</sup> This conceptualization of "being a pharmacist," in turn, influences how the professional perceives, explains, presents and conducts themselves,<sup>7</sup> which in turn influences their approach when engaging in practice advancement and transformation.

To support the profession, a universal professional identity is needed that would be readily recognized by patients, caregivers, other healthcare professionals, payers, governmental and private industry entities, and other stakeholders in healthcare. A universal professional identity



Figure 1. Common and Distinctive Values, Characteristics and Norms of Healthcare Professionals.

should unify pharmacists by focusing on a set of common attributes, values, and norms that contribute to the delivery of high-quality pharmaceutical care, products, and services that are needed to fulfill the Quadruple Aim.<sup>38</sup>

Similar to medicine, pharmacy does not consist of just one community of practice. Physicians can demonstrate a multiplicity of professional identities as they join various communities (eg, clinical care, academia, research) with their global identity linked to their profession (medicine).<sup>39</sup> A “landscape of communities” has been forming within pharmacy with each community developing their own unique identities.<sup>40</sup> Practice expansion without a global identity has led to fragmentation within pharmacy, where the focus is more on the roles and attributes of pharmacists within the various communities, rather than a shared set of values and norms. This fragmentation and lack of shared professional identity has hindered a unified approach to practice transformation. The development of a universal professional identity is only possible when pharmacists embody the professional identity through their own professional identity formation, which begins in their Doctor of Pharmacy program and extends through further education, training, and practice. AACP and the Center can play a key role in establishing the shared professional identity for pharmacists and supporting colleges and schools in promoting and enhancing professional identity formation by learners, educators, and practitioners.

## SUPPORTING PROFESSIONAL IDENTITY FORMATION

PIF has become an important consideration in health profession education programs, most notably in medicine, nursing, and now pharmacy. Foundationally to the trend, faculty must agree that formation of professional identity and demonstration of professionalism are not the same. In 2000, the American Pharmaceutical Association Academy of Student Pharmacists (APhA-ASP) and the American Association of Colleges of Pharmacy Council of Deans Task Force (AACP-COD) defined professionalism as “active demonstration of traits of a professional.”<sup>41</sup> Professionalism is described in the 2013 CAPE Outcomes as the ability to “Exhibit behaviors and values that are consistent with the trust given to the profession by patients, other healthcare providers, and society.”<sup>18</sup> The 2014 AACP-COD Task Force on Professional Identity Formation later moved beyond demonstration of professionalism to adopt a definition of PIF: “Professional Identity Formation (PIF) is the transformative process of identifying and internalizing the ways of being and relating within a professional role.”<sup>42</sup>

To illustrate the extension of PIF from professionalism, it is useful to imagine the addition of a new level atop Miller’s Pyramid of Professional Competence (Figure 2) as proposed by Cruess, et al.<sup>6</sup> This imagery more easily allows educators to envision the distinction between a student who can reliably “exhibit behaviors,” which demonstrate professionalism in an advanced pharmacy practice experience (APPE) or objective structured clinical exam (ie, checking all the boxes), and a student who has truly “internalized” and relates to a professional role. This internalized identity includes professionalism, but extends to include other beliefs, values, motives, core knowledge and

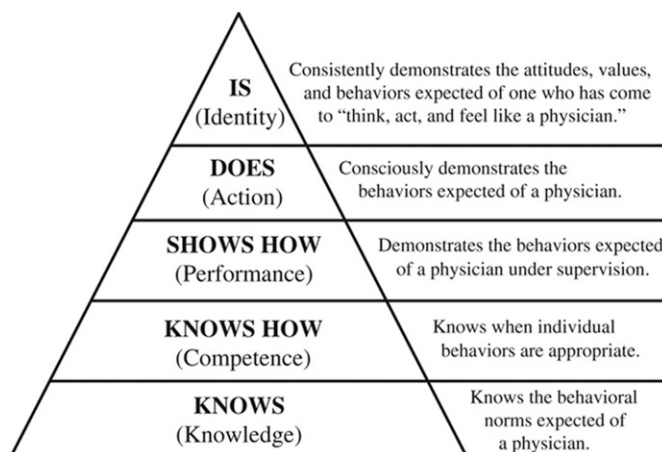


Figure 2. The amended version of Miller’s Pyramid of Clinical Competence. Reprinted with permission from Wolters Kluwer Health, Inc.<sup>6</sup>

skills, attitudes, behaviors, and other attributes that students develop over time as they move from a nonprofessional lay person to a professional.<sup>43-45</sup>

There are a number of theories describing the development of professional identity, including Self-Authorship Theory,<sup>46</sup> Provisional Selves Theory,<sup>44</sup> and the Theory of Social Learning, more commonly known as “Communities of Practice.”<sup>40</sup> These example theories describe similar supports for development of the identity, including exposure to role models, active participation and imitation, and immersion. These identified supports naturally suggest pedagogical strategies faculty could use to assist students in PIF, including experiential education, guided reflection, symbolic and ceremonial events, and strong mentoring programs. Each of the aforementioned identity theories has been explored more deliberately in terms of personal identity than professional identity, though there are increasing reports of application of these theories to pharmacy education.<sup>14</sup>

Pharmacy educators are encouraged to develop a working knowledge of one or more identity theories to assist in selecting pedagogies and approaches for PIF support that align with their curricula. In particular, the role of socialization has been described as a critical factor by which an individual learns to function in a particular society.<sup>5,7</sup> This model may be particularly helpful in assisting student services personnel, faculty and preceptors in understanding the process of identity formation (Figure 3). Factors that influence socialization include self-assessment, the learning environment,

attitudes and treatment of the student by patients, peers and health professionals, as well as conscious reflection and unconscious acquisition of norms and values from experiences, role models and mentors.<sup>5</sup>

It has been argued that, if PIF is an educational goal, it must be explicitly included in the formal curriculum as part of the cognitive base of the professional.<sup>7</sup> To that end, the SAC encourages faculty and institutions to prioritize the development of curricular, extracurricular, and co-curricular opportunities for students to explore professional identity. PIF initiatives can find a fit within a nearly endless array of possibilities from orientation day to graduation. Activities used and reported in pharmacy education have been summarized,<sup>47</sup> including the effects of autonomy-supportive teaching in a PIF workshop series integrated into existing courses<sup>48</sup> and embedded PIF-oriented activities in an APPE.<sup>49</sup> Studies have also been conducted on the influence of pharmacy employment<sup>50</sup> and the overall curriculum on PIF.<sup>14</sup> Periods of transition (eg, entry into Introductory Pharmacy Practice Experiences) present opportunities and challenges for learners, which can be viewed through the lens of identity formation.<sup>7</sup> Pharmacy educators should be creative and flexible in development and evaluation of activities, and responsive to the ongoing global conversation about pharmacist identity in a time of practice transformation.

Self-assessment is critical in charting progress towards the development of a professional identity.<sup>6,7</sup> For learners, positive feedback about progress is important to both belonging within the pharmacy profession and

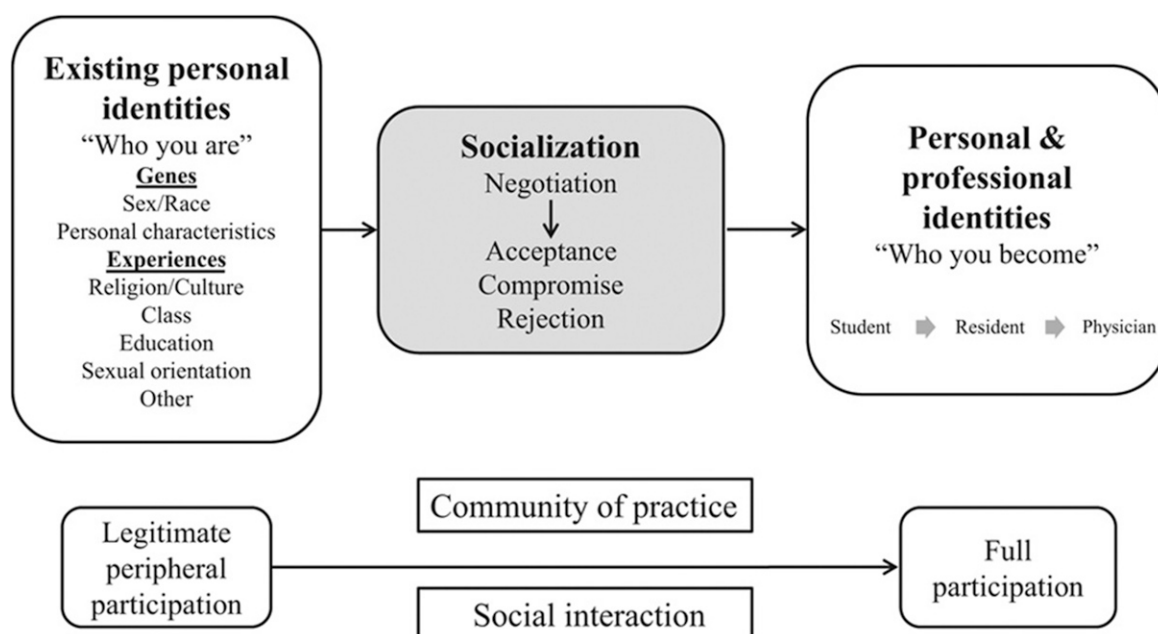


Figure 3. A schematic representation of professional identity formation. Reprinted with permission from Wolters Kluwer Health, Inc.<sup>5</sup>

confidence.<sup>5,7</sup> With the current methods available, summative assessment at the learner level is difficult. At the program level, some survey tools for quantitative assessment are being explored, though at present the majority of PIF assessment relies on qualitative approaches, including mentored discussion groups and reflective writing assignments. This will present a challenge for many colleges and schools as qualitative assessments often require a significant time investment. All members of the Academy will benefit from resource-sharing and deliberate collaboration as we develop mechanisms to identify students needing support and demonstrate the program's effect on identity formation.

## **APPLYING IMPLEMENTATION SCIENCE PRINCIPLES**

In order to intentionally prepare graduates to “think, act, and feel” like pharmacists as described in this report, a sustainable culture shift is needed in our academic approach. Traditionally, curricula have prioritized competencies, cognitive abilities and skill development. By making PIF the goal of education, our approach must become broader and incorporate more deliberate support. PIF is not easy work, requiring intentional design, guided reflection, strong role modeling, new forms of student learning assessment, new forms of program evaluation, and faculty and preceptor development.

Therefore, the successful adoption of PIF will require intentional planning and commitment by all stakeholders. Implementation science, with its focus on methods and strategies to promote successful adoption of evidence-based practices and interventions into real world settings, will be critical for transitioning.<sup>51,52</sup> Application of implementation science to pharmacy education and practice has generated considerable interest within the Academy. The 2019-2020 AACP Research and Graduate Affairs Committee (RGAC) was charged with articulating the case for implementation science as a key strategy for practice and curricular advancement efforts led by academic institutions. In their report, the RGAC recommended that AACP should continue to find opportunities to connect academic pharmacy with the implementation science community.<sup>51</sup>

As the 2020-2021 SAC worked through its charges, implementation science was consulted to examine needs related to PIF, recommend potential actions for implementation, and identify important stakeholders and implementation leaders (Tables 3,4,5,6). The committee contends that the proposed Center is well-positioned to provide the vision, leadership, and resources needed for supporting PIF as a component of practice transformation. Implementation science also provided a framework for SAC to

suggest potential actions for AACP, the Center, and individual faculty or institutions to support the diffusion and adoption of PIF into pharmacy education. Potential actions are provided and organized by implementation stage and supporting rationale for the action is included (Tables 3,4,5,6).<sup>53,54</sup> The subsequent discussion on the advancement of PIF in the academy draws upon the Powell, et al. compilation report of implementation science strategies.<sup>54</sup>

According to the National Implementation Research Network, implementation progresses through four stages of development: exploration, installation, initial implementation, and full implementation.<sup>53</sup> A brief description of each stage is provided to offer context for the SAC's approach, findings, and recommendations. In the *Exploration* phase, organizations work to assess the needs of target populations, the fit of a new initiative with the identified need, and the feasibility of implementation. Given the charges to the committee by our two most recent presidents, AACP is currently in the *Exploration* phase in regards to implementation of PIF. The two most recent SAC committees were charged with determining whether increased emphasis on PIF in pharmacy curricula would support professional goals of practice transformation. Both 2019-20 and 2020-21 SAC agreed that PIF is an appropriate focus for the Academy and recommend proceeding to the second stage of implementation, *Installation*. During this phase, the organization works to build interest, infrastructure, and capacity to support a full roll-out of the initiative. During the *Initial Implementation* phase, the Center and AACP would develop and provide extensive education, faculty development, and shared resources to support the efforts of colleges and schools in piloting PIF activities and curricula with emphasis on continuous quality improvement and the scholarship of teaching and learning. Eventually, the momentum of the initiative reaches *Full Implementation*, where a large enough proportion of the target population adopts the initiative to support population-level outcomes assessment. The principles of fidelity and sustainability will be particularly important with implementation of PIF initiatives. Colleges and schools are asked to pay careful attention to initial education and training interventions and the fidelity of delivery of those interventions in subsequent iterations. Colleges and schools should also consider the sustainability of curricular changes during initial design and implementation.

## **AFFIRMING THE 2019-2020 SAC RECOMMENDATIONS AND SUGGESTIONS**

The 2019-2020 SAC recommended that AACP should advocate for the adoption of PIF in educational and



Table 3. Potential Actions to Promote Professional Identity Formation in Pharmacy Using the Exploration (First) Stage of Implementation Science Development

<b>Implementation Science Stages and Strategies</b>	<b>Rationale (Why might this help to advance PIF?)</b>	<b>Potential Actions (What could be done?)</b>
Assess for Readiness and Identify Barriers and Facilitators	Determine the current state of PIF understanding.	Identify existing AACCP policy statements aligned with the promotion of PIF. <sup>a</sup> Identify models of PIF-supportive faculty culture within colleges and schools of pharmacy. <sup>c</sup> Assess faculty interest and understanding of the nature of identity formation and socialization processes. <sup>b</sup>
Build a Coalition, Identify Early Adopters and Champions	Recruit and cultivate relationships with faculty partners, scholars, and researchers.	Identify authors of scholarly works in area of PIF who might be interested in continued committee service to AACCP or Center, and/or developing or delivering content required for the Installation and Implementation stages (i.e., faculty development). <sup>a</sup> Collaborate with national student organizations and professional pharmacy organizations to make PIF more visible and discussed. <sup>a</sup>
Involve and Inform Opinion Leaders and Executives, Conduct Consensus Discussions	Influence other early adopters or organizations to take up the initiative if they believe it is important and will solve a specific problem.	Collaborate with professional pharmacy practice organizations to advance PIF. <sup>a</sup> Seek to be more specific in defining a universal identity of a pharmacist. <sup>a</sup> Articulate strong connections between PIF and practice transformation. <sup>a</sup>
Shadow Other Experts, Identify an Implementation Advisor, Visit Other Sites, Develop Academic Partnerships	Seek guidance from others with more experience in identity formation and practice change and other experts.	Collaborate with AAMC and other medical educators in adopting PIF. <sup>a</sup> Consult an implementation sciences/change management professional. <sup>a</sup> Consult PIF literature outside of the healthcare industry (i.e., law, mental health). <sup>c</sup>

PIF=Professional Identity Formation; Center=Center to Accelerate Pharmacy Practice Transformation and Academic Innovation.

<sup>a</sup> AACCP would be responsible.

<sup>b</sup> Colleges and schools of pharmacy would be responsible.

<sup>c</sup> Both AACCP and colleges and schools of pharmacy would be responsible.

professional goal statements.<sup>2</sup> Since this time, ACPE has announced its intention to revise Standards 2016 with new standards that will be known as “Standards 2025.”<sup>55</sup> The 2020-2021 SAC affirms the prior suggestion and emphasizes that the timing is right for follow-through on the 2019-2020 recommendation. AACCP, during its

opportunities for input into the revision of accreditation standards, should advocate for the development of a strong professional identity as a goal of pharmacy education.

The 2019-2020 SAC also recommended that AACCP adopt professional identity and PIF as priorities in the next strategic plan.<sup>2</sup> Since this time, AACCP has begun the

Table 4. Potential Actions to Promote Professional Identity Formation in Pharmacy Using the Installation (Second) Stage of Implementation Science Development

<b>Implementation Science Stages and Strategies</b>	<b>Rationale (Why might this help to advance PIF?)</b>	<b>Potential Actions (What could be done?)</b>
Capture and Share Knowledge, Plan for Ongoing Training	Support the education of target audiences on the new PIF programs.	Utilize the Center and/or AJPE as the central location for published PIF literature and tools. <sup>a</sup> Develop and maintain a toolkit on how colleges and schools can incorporate PIF into the curriculum, co-curriculum, and extracurricular activities. <sup>a</sup> Continue PIF as a charge for future AACP standing committees. <sup>a</sup>
Access New Funding	Secure long-term funding and support for PIF initiatives.	Include specific references to PIF in the 2021-2024 AACP Strategic Plan. <sup>a</sup> Identify external grants or funding sources for new educational initiatives to support PIF. <sup>b</sup>
Provide Centralized Technical Assistance, Consultation, and Support	Develop and use a centralized system to assist with PIF implementation.	Utilize the AACP Academic Leadership Fellow to serve as a PIF resource for colleges and schools. <sup>a</sup> Store PIF resources in the AACP Connect library. <sup>a</sup>
Provide Incentives or Awards	Increase the likelihood of identifying and supporting PIF champions and early adopters.	Develop opportunities within AACP SOTL Grants, New Investigator Awards, or similar programs to stimulate and support the development and assessment of PIF. <sup>a</sup>
Mass Media Campaigns and/or Pledge, Button/ Lapel Pin or Badge System	Increase public awareness and acceptance of the PIF campaign.	Develop a technology-based system so individuals can add badges or hashtags to email signatures or websites to demonstrate support for the PIF initiative. (i.e., #ThinkFeelAct, #IAmAPharmacist, #PharmacistIdentity). <sup>c</sup>
Develop Academic Partnerships	Partner with a university or academic unit for the purposes of shared training and bringing research skills to a PIF project.	Identify a specific individual or role at each institution to serve as a champion of PIF development (i.e., individual overseeing academic, student, or experiential affairs). <sup>c</sup>
Recruit, Designate, and Train for Leadership	Recruit, designate, and train leaders to support PIF programs for students.	Utilize the Center to create a train-the-trainer program and offer regular support of colleges and schools implementing PIF. <sup>a</sup>

PIF=Professional Identity Formation; Center=Center to Accelerate Pharmacy Practice Transformation and Academic Innovation; SOTL=Scholarship of Teaching and Learning.

<sup>a</sup> AACP would be responsible.

<sup>b</sup> Colleges and schools of pharmacy would be responsible.

<sup>c</sup> Both AACP and colleges and schools of pharmacy would be responsible.

Table 5. Potential Actions to Promote Professional Identity Formation in Pharmacy Using the Initial Implementation (Third) Stage of Implementation Science Development

<b>Implementation Science Stages and Strategies</b>	<b>Rationale (Why might this help to advance PIF?)</b>	<b>Potential Actions (What could be done?)</b>
Conduct Educational Meetings, Conduct Ongoing and Dynamic Training	Host meetings targeting different stakeholder groups and utilizing varied platforms to teach them about the innovation and practice.	Incorporate PIF themes into the AACP Annual and Interim Meetings, CAPE Institutes, Consensus Conferences, etc. <sup>a</sup> Utilize champions within SIGs/ Sections, webinar series, and meeting programming. <sup>a</sup>
Create a Learning Collaborative and/or Resource Sharing Agreement	Identify venues for interested parties to communicate and share outside of regularly scheduled AACP events.	Host a centralized forum and library through AACP Connect or the Center to facilitate the ability of faculty to share PIF resources, including OSCEs, reflection prompts, journal club articles, activities, etc. <sup>a</sup>
Develop and Distribute a Bibliography, Educational Materials, Tools for Assessment and Quality Monitoring	Suggested goal of Center is, “To provide AACP members with resources, models and best practices on innovation and transformation in pharmacy education and practice.”	Charge the Center with developing and distributing glossaries, bibliographies, or toolkits; hosting webinars; mediating chat forums, etc. <sup>a</sup> Develop and provide information to help pharmacists envision their scope of practice and explain and present themselves to others. <sup>a</sup>
Involve Additional Stakeholders	Obtain support and buy-in from target audiences.	Include students, preceptors, professional organizations, etc. in PIF activities and discussions. <sup>b</sup>
Conduct Cyclical Small Tests of Change	Implement changes in a cyclical fashion using small tests of change before taking changes system-wide.	Implement PIF pilot programs with small groups of students. <sup>b</sup>
Change Record Systems	Change records systems to allow better assessment of implementation or outcomes.	Consider changes to the AACP Graduating Student Survey to include PIF. <sup>a</sup> Create software system for colleges and schools to track the cycle of learning, implementation, and assessment of PIF. <sup>a</sup> Consider utilization of AAMS to support PIF. <sup>a</sup>

PIF=Professional Identity Formation; Center=Center to Accelerate Pharmacy Practice Transformation and Academic Innovation.

<sup>a</sup> AACP would be responsible.

<sup>b</sup> Colleges and schools of pharmacy would be responsible.

<sup>c</sup> Both AACP and colleges and schools of pharmacy would be responsible.

strategic planning process. The 2020-2021 SAC affirms this recommendation and emphasizes that the timing is right for follow through on the 2019-2020 recommendation. In addition, current SAC members have recommended PIF’s inclusion during the open hearings on the AACP 2021-2024 Strategic Plan and offer an updated recommendation below.

The 2019-2020 SAC also recommended that AACP adopt professional identity and PIF as priorities in the next

strategic plan.<sup>2</sup> Since this time, AACP has begun the strategic planning process. The 2020-2021 SAC affirms this recommendation and emphasizes that the timing is right for follow through on the 2019-2020 recommendation. In addition, current SAC members have recommended PIF’s inclusion during the open hearings on the AACP 2021-2024 Strategic Plan and offer an updated recommendation below.

Table 6. Potential Actions to Promote Professional Identity Formation in Pharmacy Using the Final Implementation (Fourth) Stage of Implementation Science Development

<b>Implementation Science Stages and Strategies</b>	<b>Rationale (Why might this help to advance PIF?)</b>	<b>Potential Actions (What could be done?)</b>
Mandate Change	Leadership declares the priority of the innovation and their determination to have PIF implemented.	Consider incorporating specific references to PIF into the CAPE Outcomes or ACPE Accreditation Standards. <sup>a</sup> Advocate for PIF related questions to be included in ACPE Self-Study documents. <sup>a</sup> Incorporate PIF into institutional strategic plans and assess benchmark indicators. <sup>b</sup>
Facilitate Relay of Data to Stakeholders	Provide as close to real-time data as possible about key measures of process and outcomes using integrated channels of communication in a way that promotes the use of PIF.	Charge the Center with publishing or maintaining a dashboard of real-time data relative to PIF implementation and outcomes, which could be considered by school administrators and/or curriculum committees. <sup>c</sup>
Remind Educators	Develop reminder systems designed to help educators recall information and/or prompt them to use PIF.	Charge the Center with creating communication or marketing plan with regular updates regarding PIF implementation, which could be further shared or distributed within colleges and schools. <sup>c</sup>
Use Data Experts	Involve, hire, and/or consult with experts to inform management teams on the use of data generated by PIF implementation efforts.	Ensure individuals with the necessary qualifications in program assessment and evaluation serve as PIF data custodians and reporters. <sup>c</sup>
Audit and Provide Feedback	Assist colleges and schools with monitoring PIF successes.	Utilize the AACP Graduating Student Survey reports to assess the effectiveness of implemented PIF programming. <sup>a</sup> Create or share existing instruments to assist programs with assessing student status with thinking, feeling and acting like a pharmacist. <sup>a</sup>

PIF=Professional Identity Formation; Center=Center to Accelerate Pharmacy Practice Transformation and Academic Innovation. CAPE=Center for the Advancement of Pharmacy Education; ACPE=Accreditation Council for Pharmacy Education.

<sup>a</sup> AACP would be responsible.

<sup>b</sup> Colleges and schools of pharmacy would be responsible.

<sup>c</sup> Both AACP and colleges and schools of pharmacy would be responsible.

With the Bridging Pharmacy Education and Practice Summit on the horizon, the 2020-2021 SAC affirms the previous committee’s recommendation that AACP “collaborate with other pharmacy organizations to help the profession develop and embody a clear and unified identity for practice today and tomorrow.”<sup>2</sup> The 2020-

2021 SAC adds a specific recommendation related to the summit below.

In addition, the 2019-2020 committee made a recommendation that AACP continue to facilitate inquiry and dissemination of strategies related to PIF assessment and suggestions that colleges/schools: 1) pursue scholarly

questions in support of PIF assessment and 2) share their initiatives and evaluative evidence related to PIF. The 2020-2021 SAC affirms this recommendation and these suggestions.<sup>2</sup>

#### **2020-2021 RECOMMENDATIONS**

1. AACP should work with JCPP to determine the essential elements of professional identity for pharmacists, in order to meet current and future needs and to advance the profession.
2. AACP should include professional identity formation in the AACP Strategic Plan, including, but not limited to, strategies related to faculty development programming and resource sharing between colleges and schools of pharmacy.
3. AACP should charge the Center with incorporating PIF as a strategic priority with a robust action plan, as noted in Tables 3-6 of this report, to support professional identity formation (PIF) in its important role with practice transformation.
4. AACP should continue to provide programming and other resources to assist colleges and schools of pharmacy to develop a comprehensive, integrated, developmental set of curricular and co-curricular components that will enhance professional identity formation in pharmacy students, trainees, and faculty.
5. AACP should incorporate PIF into the 2022 summit, ensuring that participants have a firm understanding of the principles and actions needed to support it, in preparation for profession-wide action planning.
6. AACP should include a PIF session at the 2022 Leadership Forum as follow-up to the 2022 summit.
7. AACP should encourage the Council of Faculties to coordinate conversation regarding PIF through a task force in order to support faculty development and intentional planning within colleges and schools of pharmacy.
8. AACP should encourage the Council of Faculties to consider PIF as a prominent theme in the 2022 and/or 2023 Teachers Seminars.
9. AACP should encourage Special Interest Groups and Sections to examine their role in student professional identity formation and charge committees and/or task forces with appropriate work in this area.
10. AACP should feature PIF in the 2022 or future school posters.

#### **2020-2021 SUGGESTIONS**

1. Colleges and schools of pharmacy should extend their professionalism work by fostering a culture of intentional support of PIF that aids students in explaining, presenting and conducting themselves within the scope of student work and professional priorities.
2. Colleges and schools of pharmacy should explore, adopt, and implement an explicit approach for supporting professional identity formation through its curricular and co-curricular components, including setting goals and objectives, activities, and assessments (including self-reflection and feedback) supporting professional identity formation.
3. Colleges and schools of pharmacy should support a range of efforts with a diverse variety of stakeholders (eg, professional associations, employers, student services professionals, preceptors) that help students to navigate transitions, learn the language of the profession, integrate personal and professional identities and manage difficult emotions and attitudes related to professional identity formation.
4. Colleges and schools of pharmacy should anticipate the dissonance that students experience in transitioning to practice, developing strategies to support them and practice transformation.
5. Colleges and schools of pharmacy should invest in faculty development on the nature of identity formation (including its internal and social dimensions), socialization processes and professional communities of practice, including teaching pedagogies and assessment.
6. Colleges and schools of pharmacy should provide preceptor development programming, emphasizing the unique role of preceptors in students' conscious and unconscious acquisition of behaviors, attitudes, and beliefs, and the preceptor's influence through role modeling and socialization processes.
7. Colleges and schools of pharmacy should utilize implementation science principles to create a robust action plan, as noted in Tables 3-6 of this report, to support the diffusion and adoption of professional identity formation (PIF) at the institution and within the profession.
8. Scholars in education at colleges and schools of pharmacy should undertake initiatives that explore the process and influencers of professional identity formation in students.

## CONCLUSION

The pharmacy profession has rapidly evolved over the last 30 years, which has led to the fragmentation and accumulation of conflicting identities for pharmacists based on their role, geographic location, and practice setting. The lack of a universal identity and inconsistent efforts to promote professional identity formation in Pharm.D. degree programs have hindered our ability to advance practice transformation and prepare student pharmacists to navigate and influence the rapidly evolving healthcare landscape. A coordinated and collaborative approach to professional identity formation will facilitate the ability of pharmacists to more effectively convey their value to themselves, patients, payers, and other providers. Pharmacy must pursue two goals to realize the benefits of PIF. One is to

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