

RESEARCH

Identifying Priority Student Leadership and Professionalism Attributes Among Faculty, Preceptors, and Students via Modified Delphi

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Submitted March 26, 2020; accepted July 14, 2020; ePublished July 2020

Objective. The purpose of this study was to identify and build consensus on priority leadership and professionalism attributes for pharmacy student development among faculty, preceptors, and students.

Methods. One hundred individuals (27 faculty, 30 preceptors, 43 students) were invited to participate in a three-round, modified Delphi. Published literature on leadership and professionalism informed the initial attribute list. In the first round, participants reviewed and provided feedback on this list. In the second round, participants prioritized attributes as “Highly Important”, “Important”, or “Less Important” for pharmacy student development. Leadership and professionalism attributes that achieved an overall consensus (a priori set to $\geq 80.0\%$) of being “Highly Important” or “Important” for pharmacy student development were retained. In the third round, participants rank ordered priorities for leadership and professionalism attributes.

Results. Fifteen leadership and 20 professionalism attributes were included in round one while 21 leadership and 21 professionalism attributes were included in round two. Eleven leadership and 13 professionalism attributes advanced to round three. Consensus was reached on the top four leadership attributes (adaptability, collaboration, communication, integrity) and five professionalism attributes (accountability, communication, honor and integrity, respect for others, trust). Differences were observed for certain attributes between faculty, preceptors, and/or students.

Conclusion. The modified Delphi technique effectively identified and prioritized leadership and professionalism attributes for pharmacy student development. This process facilitated consensus building and identified gaps among stakeholders (ie, faculty, preceptors, students). Identified gaps may represent varying priorities among stakeholders and/or different opportunities for emphasis and development across classroom, experiential, and/or co-curricular settings.

Keywords: leadership, professionalism, Delphi methodology

INTRODUCTION

Today’s health care environments are increasingly dynamic and require pharmacy professionals to engage in a variety of roles and responsibilities that span the boundaries of traditional practice.^{1,2} Pharmacists must strive to meet the needs of patients, while also balancing the demands of a rapidly changing health care delivery system.³ The American Association of Colleges of Pharmacy (AACCP) 2008-2009 Argus Commission examined issues related to building a sustainable system of leadership development for pharmacy.⁴ Specifically, their proposed policy statement, “curricular modifications should occur such that competencies for leading change in pharmacy and health care are developed in all student pharmacists, using a consistent thread of didactic, experiential and co-curricular learning opportunities,” clearly identifies a need for emphasizing leadership development in all aspects of pharmacy education.^{4,5}

Building upon this statement and recognizing the importance of developing future leaders and professionals, Standard 4 of the 2016 Accreditation Council for Pharmacy Education (ACPE) Standards (Standards 2016) requires programs to develop leadership and professionalism within their graduates.⁶ Preparing pharmacy students to be effective leaders and professionals is imperative as pharmacists continue to face an ever-transforming health care delivery system.⁷

While Standards 2016 describe the leadership educational outcome as “the graduate is able to demonstrate responsibility for creating and achieving shared goals, regardless of position”,⁶ literature suggests that how leadership is defined, conceptualized, and assessed varies within pharmacy education.⁸ Previous efforts have aimed to advance the understanding of leadership in pharmacy and reach consensus using Delphi methodology.^{9,10,11} The Delphi is a research methodology involving a structured process for developing and measuring consensus on complex topics with limited or conflicting evidence using a panel of experts.¹² Specific to student leadership development, Traynor and colleagues utilized a 26-member Delphi involving leadership instructors across pharmacy education.^{9,10} The purpose of their study

was to identify guiding principles for student leadership development in the doctor of pharmacy (PharmD) curriculum. While twelve guiding principles were identified,^{9,10} one limitation to this approach was Delphi participation was limited to pharmacy faculty involved in teaching leadership, thus only representing one component (ie, didactic) of the pharmacy student learning environment.

In addition to leadership, Standards 2016 describe the professionalism educational outcome as “the graduate is able to exhibit behaviors and values that are consistent with the trust given to the profession by patients, other health care providers, and society”.⁶ Similar to leadership, how professionalism is defined may vary across pharmacy education as one consistent framework has not been identified and endorsed.¹³⁻¹⁵ Further, the American Pharmacists Association Academy of Student Pharmacists and the AACP Council of Deans Taskforce on Professionalism outlined recommendations for developing professionalism in graduates, highlighting the importance of building faculty consensus and involving preceptors in defining professional educational outcomes.¹³

Also new within Standards 2016 was the inclusion of a co-curriculum requirement.⁶ While co-curricular activities, such as service learning, student organizations, and community outreach are not new to pharmacy programs,¹⁶⁻²⁰ the requirement to document student involvement in these activities and demonstrate how these experiences assist students in developing competency in the affective domains (eg, leadership, professionalism) was a new expectation. Notably, planning of co-curricular activities are often student-driven with oversight support provided by faculty.¹⁶⁻²⁰

At the University of North Carolina at Chapel Hill (UNC) Eshelman School of Pharmacy, leadership and professionalism have been taught and evaluated throughout didactic courses, experiential education, and the co-curriculum. However, how faculty, preceptors, and others defined leadership and professionalism were not consistently aligned, leading to varied instruction and assessment of student competency. Thus, an opportunity was identified to standardize the teaching and assessment of these important topics and key stakeholders were sought to engage in this process. The purpose of this study was to identify and build consensus on priority leadership and professionalism attributes for pharmacy student development among expert faculty, preceptors, and students.

METHODS

In January 2019, a sample of 100 individuals (27 faculty, 30 preceptors, and 43 students) involved in the PharmD curriculum were invited to participate in a three-round modified Delphi. The Delphi process is research methodology that involves a panel of experts who review and reach consensus on data through iterative feedback measuring agreement.²¹⁻²⁴ For this study, invited participants represented key constituencies the research team recognized as experts engaged in the didactic, experiential, or co-curricular aspects of the student learning experience. Participants included faculty teaching leadership and professional development courses within the PharmD curriculum; preceptors across diverse experiential settings throughout the region; and students serving in pharmacy student government, class leadership, and/or student organization leadership roles within the co-curriculum and thus charged in their roles with representing the student body. These stakeholder groups were intentionally selected as they represented three distinct settings where students develop as leaders and professionals: didactic coursework (faculty), experiential education (preceptors), and the co-curriculum (students). Attrition was managed such that participation in subsequent Delphi rounds was contingent on involvement in the previous round. This study was submitted to the UNC Institutional Review Board and exempted from review.

In the first round, participants were provided the opportunity to review an emailed list of 15 leadership (Table 1) and 20 professionalism (Table 2) attributes, provide feedback, and add additional attributes important for pharmacy student leadership and professional development. The original list of attributes was informed from published literature outlining important pharmacy leadership^{9,10,25} and professionalism^{13-15,26} characteristics. All feedback was reviewed independently and themes were discussed as a group by the research team for additions and modifications to the attribute lists.

Twenty-one leadership (Table 1) and 21 professionalism (Table 2) attributes were included in the second round. Each attribute was defined using relevant literature and was available for all participants to review when completing the Qualtrics survey. Participants categorized each leadership and each professionalism attribute as “Highly Important”, “Important”, or “Less Important”. Participants were able to provide additional comments on the survey. Similar to the first round, all comments provided in the second round were reviewed by the research team and themes were discussed for inclusion in the third round of the Delphi.

Leadership and professionalism attributes that achieved an overall consensus (a priori set to $\geq 80.0\%$) of being “Highly Important” or “Important” for pharmacy student development were included in the third round of the Delphi. Delphi methodology does not outline a specific consensus threshold, with literature reporting agreement in ranges from 55-100%.¹² For the purposes of this study, $\geq 80.0\%$ was deemed sufficient. Participants rank ordered the leadership attributes by priority of importance for pharmacy student development and were again able to provide comments on the

Qualtrics survey. This same approach was utilized for the professionalism attributes. All comments were reviewed and discussed by the research team. In both of the latter two rounds, participants were able to view the full list of attributes and corresponding definitions as they completed the Delphi (Table 1, Table 2). Agreement frequencies were analyzed using descriptive statistics. Correlations were used to evaluate the differences among groups, with statistical significance defined as $p < .05$. IBM SPSS Statistics Version 26 was used for analysis.

RESULTS

All participants in the first round ($n=100$) had the opportunity to review and provide feedback on the list of 15 leadership and 20 professionalism attributes. For both leadership and professionalism, attributes were added ($n=8$, $n=2$ respectively), modified ($n=2$, $n=4$), and deleted ($n=2$, $n=1$) based on detailed discussions of themes identified in participant feedback. In the second round, 82% of first round participants ($n=82$ total: 24 faculty, 21 preceptors, 37 students) responded to the survey and categorized the 21 leadership attributes (Table 3) and 81% of first round participants ($n=81$ total: 24 faculty, 21 preceptors, 36 students) categorized the 21 professionalism attributes (Table 4). Ten leadership and 13 professionalism attributes achieved an overall consensus (a priori set to $\geq 80.0\%$) of being “Highly Important” or “Important” for pharmacy student development. One additional leadership attribute (ie, Accountable for personal development) was retained after reviewing qualitative comments provided in the second round. In total, 11 leadership and 13 professionalism attributes were advanced to the third round. All participants from the second round ($n=82$) were invited to participate in the third round. Of these, 78% ($n=64$ total: 22 faculty, 16 preceptors, 26 students) completed the third and final round of the modified Delphi (Tables 3 and 4).

Correlations were observed between stakeholder groups when analyzing leadership and professionalism attribute ratings within the second and third rounds. Specific to leadership, in the second round, faculty ratings of “Highly Important” and “Important” leadership attributes strongly correlated with preceptor ($r=0.68$, $p < .005$) and student ratings ($r=0.72$, $p < 0.005$) while preceptor ratings strongly correlated with student ratings ($r=0.59$, $p < .005$). In the third round, faculty rankings of leadership attributes correlated significantly with preceptors ($r=0.83$, $p < .005$), while student rankings of leadership attributes were not significantly correlated with faculty ($r=0.51$, $p > .05$) nor preceptors ($r=0.53$, $p > .05$). Specific to professionalism, in the second round, faculty ratings of “Highly Important” and “Important” professionalism attributes strongly correlated with preceptor ($r=0.90$, $p < .005$) and student ratings ($r=0.90$, $p < .005$) while preceptor ratings strongly correlated with student ratings ($r=0.92$, $p < .005$). In the third round, faculty rankings of professionalism attributes strongly correlated with preceptors ($r=0.77$, $p < .005$) and student ratings ($r=0.84$, $p < .005$) while preceptor ratings strongly correlated with student ratings ($r=0.80$, $p < .005$).

While these correlations suggest that most leadership and professionalism attributes were rated similarly among stakeholder groups, differences were observed for some attributes (Table 3, Table 4). For example, in the second round, “accountable for personal development” was endorsed as a “Highly Important” or “Important” leadership attribute by 75.0% of faculty, 100.0% of preceptors, and 70.3% of students. Similarly, differences were observed for leadership attributes “change management” (85.7% faculty, 82.4% preceptors, 48.6% students), “grit” (71.4% faculty, 47.1% preceptors, 67.6% students), and “mentorship” (67.9% faculty, 100.0% preceptors, 70.3% students) (Table 3). Differences among stakeholder groups was also observed for professionalism attributes “creativity and innovation” (42.9% faculty, 70.6% preceptors, 50.0% students) and “service orientation” (60.7% faculty, 70.6% preceptors, 50.0% students) (Table 4).

In the third round, the top four ranked leadership attributes were rated similarly across stakeholder groups, with “communication” ranking as the top leadership attribute (faculty rank #1, preceptors #1, students #1) followed by “integrity” (faculty #2, preceptors #2, students #3), “adaptability” (faculty #5, preceptors #4, students #2), and “collaboration” (faculty #6, preceptors #5, students #4). Differences among stakeholder leadership attribute rankings were observed for “conflict management” (faculty #11, preceptors #10, students #7), “model the way/set the example” (faculty #3, preceptors #6, students #9), and “resilience” (faculty #9, preceptors #11, students #5) (Table 3).

Similar to leadership, in the third round, the top five ranked professionalism attributes were rated similarly across stakeholder groups, with “honor and integrity” (faculty #1, preceptors #2, students #3) and “respect for others” (faculty #2, preceptors #3, students #1) tying as the overall top leadership attribute followed by “accountability” (faculty #3, preceptors #1, students #4) then “communication” (#6 faculty, #4 preceptors, #2 students) and “trustworthiness” (faculty #4, preceptors #5, students #5). Differences among stakeholder professionalism attributes rankings were observed for “commitment to self-improvement” (faculty #11, preceptors #5, students #11) and “initiative” (faculty #12, preceptors #8, students #10) (Table 4).

Comparing stakeholder groups, the difference in mean priority rank was more variable across leadership attributes compared to professionalism attributes. The largest difference in priority rank of leadership attributes was observed for “resilience” (difference in mean priority rank: 3.5), “model the way/set the example” (2.9), and “accountable for personal

development” (2.4) (Table 3). The largest difference in priority rank of professionalism attributes was observed for “accountability” (2.2), “communication” (2.1), and “covenantal relationship” (2.0) (Table 4).

DISCUSSION

This study is among the first to describe a process for identifying and building consensus on priority leadership and professionalism attributes for pharmacy student development across multiple stakeholders involved in the student learning experience. While there is consensus that leadership and professionalism are important skills necessary for pharmacy practitioners,^{6,9,13-15,25-27} literature suggests that how individuals define these characteristics may vary.^{8,13-15} While Standards 2016 lack specificity on the attributes important for developing leadership and professional competency,⁶ these study findings can be used by the Academy to further define these affective domains. Additionally, programs may consider replicating this Delphi process to prioritize leadership and professionalism attributes within their program.

Although Standards 2016 broadly define these educational outcomes,⁶ how educators interpret these outcomes may vary depending on their priorities, values, expectations, and experiences. These results support this and suggest that more variance may exist in how individuals define leadership compared to professionalism. This finding expands on the work completed by Reed and colleagues, which found that definitions for leadership in pharmacy varied considerably.⁸ Reflecting on this finding poses future research questions. For example, is professionalism more centrally agreed upon because of key elements embedded within the Oath of a Pharmacist?²⁸ More research is needed to further investigate this finding.

Results from this study indicate that there is general consensus among faculty, preceptors, and students on the top priority leadership and professionalism attributes important for pharmacy student development. More specifically, priority professionalism attributes correlated highly across all stakeholder groups throughout the Delphi and the overall top five rated professionalism attributes all ranked within the top four attributes for each stakeholder group. Further, the overall top four rated leadership attributes all ranked within the top six attributes for each stakeholder group. This level of agreement suggests there is consensus among different stakeholder groups on the top leadership and professionalism attributes important for pharmacy student development.

While correlations between faculty and preceptor priority leadership attributes remained robust for the second and third rounds, student correlations with faculty and preceptor rankings did not. Differences were observed among the groups for multiple leadership and professionalism attributes. These findings pose multiple questions about the implications of this research. First, should input from all participant groups be weighted equally in determining priority leadership and professionalism attributes for pharmacy student development? Faculty, preceptors, and student stakeholders were intentionally selected as these groups represent three unique experiences within the student learning environment: didactic coursework (faculty), experiential education (preceptors), and the co-curriculum (students). When evaluating leadership and professionalism throughout these experiences, for example, should faculty ratings and priorities be weighted more heavily when evaluating leadership and professionalism within didactic coursework, preceptors more during experiential rotations, and/or students more within the co-curriculum? Second, do variations in attribute priorities reflect variations in setting opportunities and/or setting expectations? For example, is “model the way/set the example” a more important or more commonly used skill in academia (faculty) compared to clinical practice (preceptors) and/or the co-curriculum (students)? Is “commitment to self-improvement” a more important or more commonly used skill in clinical practice (preceptors) compared to the didactic curriculum (faculty/students), co-curriculum (students), academia (faculty), and/or student organizations (students)? Future research is needed to investigate these questions.

In efforts to integrate these priority leadership and professionalism attributes throughout the UNC Eshelman School of Pharmacy PharmD program (eg, didactic curriculum, experiential education, co-curriculum), leadership and professionalism brand statements were created using the top attributes identified through the modified Delphi. The leadership brand statement incorporates the top five leadership attributes identified (ie, adaptability, collaboration, communication, critical thinking, integrity) while the professionalism brand statement incorporates the top six professionalism attributes identified (ie, accountability, communication, ethically sound decision making, honor and integrity, respect for others, trust) (Table 5). The purpose of these brand statements is to focus the School’s leadership and professionalism content, and thus expectations, throughout the various student learning experiences on the priority attributes identified by faculty, preceptors, and students. While these priority attributes and brand statements do not encompass all leadership and professionalism attributes important for various professional pharmacy settings, the statements represent attributes that will be embodied by the pharmacy leader and professional graduating from the PharmD program. Thus, these brand statements were reviewed and endorsed by the PharmD Curriculum and Assessment Committee for inclusion in all relevant syllabi and coursework. Additionally, students are introduced to these brand statements during new student orientation. While these brand statements focus the leadership and professionalism content

emphasized throughout the PharmD program, broader literature should be consulted regarding how best to effectively teach these competencies.

Although prior professionalism research in pharmacy has indicated the importance of exhibiting professionalism attributes through role modeling,²⁹ the impact of a professionalism brand statement related to one's behavior and perceptions regarding professionalism needs to be investigated. Future research is needed to evaluate the impact of brand statements on both leadership and professionalism development in pharmacy students. Further, modeling is acknowledged as one of the most effective means of teaching professionalism within both the actual and any "hidden" curricula that may exist.²⁶ More research is needed to determine what effect having explicit leadership and professionalism brand statements has on role modeling. Further, as many of the attributes are applicable to multiple health professions, brand statements could be used as part of professionalism and/or leadership activities designed to strengthen interprofessional collaboration and education.^{30,31}

While this study was effective at identifying and prioritizing leadership and professionalism attributes for pharmacy student development among faculty, preceptor, and student groups, it was conducted at a single institution with volunteer expert faculty, preceptor, and student participants. Additionally, attrition between rounds may be associated with non-response bias. Although this Delphi methodology can easily be implemented at other institutions, specific leadership and professionalism priorities may vary to reflect differences in curricular practices, experiential education, and/or co-curricular activities. However, inclusion of preceptors within this study may improve the generalizability of these findings as preceptors represent the pharmacy workforce and often precept for multiple schools/colleges of pharmacy. Next steps in this work include integrating the priority attributes throughout the PharmD curriculum and determining the assessment criteria and strategy for evaluating these priority leadership and professionalism attributes across the student learning environment (didactic, experiential, co-curriculum).

CONCLUSION

The modified Delphi technique can effectively identify and prioritize leadership and professionalism attributes important for pharmacy student development. This process facilitates consensus building and identifies gaps among stakeholders (ie, faculty, preceptors, students). Identified gaps may represent varying priorities among stakeholders and/or different opportunities for emphasis and development across educational settings (eg, didactic, experiential, co-curriculum).

ACKNOWLEDGMENTS

The authors acknowledge the UNC Eshelman School of Pharmacy Leadership and Professional Development course stream members who advised on the implementation of this study.

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Table 1. Leadership Attributes and Definitions Utilized in the modified Delphi

Attribute	Attribute Definition
Leadership Attributes (listed alphabetically)	
<i>The following definitions pertain to both patient and non-patient care activities</i>	
Accountable for personal development	<ul style="list-style-type: none"> • Modified lifelong learner • Demonstrate self-awareness and self-leadership • Actively work on personal leadership development plan
Adaptability*	<ul style="list-style-type: none"> • Ability to adjust to new conditions
Advocate for patients and the profession	<ul style="list-style-type: none"> • Publicly support or make recommendations on behalf of patients/the profession
Change management	<ul style="list-style-type: none"> • Navigate and manage transitions effectively • Develop knowledge of organizational culture and understand its value
Critical thinking	<ul style="list-style-type: none"> • Ability to objectively analyze and evaluate an issue or problem
Collaboration	<ul style="list-style-type: none"> • Promote teamwork through appropriate leveraging of team strengths • Effectively lead a team • Develop others – recognize others’ abilities • Create a shared vision for an initiative or project
Communication	<ul style="list-style-type: none"> • Exhibit effective written, verbal, and nonverbal communication • Influence others
Conflict management*	<ul style="list-style-type: none"> • Recognizing and addressing disputes in an appropriate manner
Delegation*	<ul style="list-style-type: none"> • Ability to entrust to another person
Empowerment	<ul style="list-style-type: none"> • Giving somebody the power or authority to do something
Global mindset	<ul style="list-style-type: none"> • An openness and awareness of diversity across cultures and the ability to utilize this frame of reference when making decisions or taking action
Goal-oriented	<ul style="list-style-type: none"> • Ability to create and achieve measurable goals
Grit*	<ul style="list-style-type: none"> • Perseverance and passion for long term goals
Inclusivity*	<ul style="list-style-type: none"> • Including people who might other not be included or marginalized
Innovation	<ul style="list-style-type: none"> • Encourage and engage in innovation in practice • Actively participate in practice advancement
Integrity*	<ul style="list-style-type: none"> • The quality of being honest and having strong moral principles
Mentorship*	<ul style="list-style-type: none"> • Ability to mentor and guide others
Model the way/ Set the example	<ul style="list-style-type: none"> • Value difference and diversity • Encourage the heart – tap into what motivates others • Demonstrate emotional intelligence
Networking*	<ul style="list-style-type: none"> • Interacting with others to exchange information and develop relationships
Resilience	<ul style="list-style-type: none"> • Capacity to recover quickly from difficulties
Vision	<ul style="list-style-type: none"> • Ability to create a dream or future direction that other people want to share or follow

*Attribute added based on round 1 feedback.

Two attributes were deleted from round 1 to round 2 based on round 1 feedback: (1) Distinguish between leadership versus management, and (2) Explain the importance of leadership in pharmacy.

Table 2. Professionalism Attributes and Definitions Utilized in the modified Delphi

Attribute	Attribute Definition
Professionalism Attributes (listed alphabetically)	
<i>The following definitions pertain to both patient and non-patient care activities</i>	
Accountability	<ul style="list-style-type: none"> Responsible for fulfilling the implied covenant that one has with patients, addressing health needs of the public, and adhering to pharmacy's code of ethical conduct
Advocacy	<ul style="list-style-type: none"> Helping patients make the best decisions and helping the profession further advance
Altruism	<ul style="list-style-type: none"> Serve the best interest of patients above their own or above that of employers
Caring	<ul style="list-style-type: none"> Attending to the needs of others
Commitment to self-improvement	<ul style="list-style-type: none"> Dedicated to improving oneself professionally
Communication	<ul style="list-style-type: none"> Ability to share or exchange information, news, or ideas with patients and providers
Covenantal relationship with patient	<ul style="list-style-type: none"> Ethical obligation to care and provide care for the patient
Creativity and innovation	<ul style="list-style-type: none"> Coming up with unique and new approaches
Duty	<ul style="list-style-type: none"> Commitment to serve patients even when it is inconvenient
Ethically sound decision making	<ul style="list-style-type: none"> Using good moral judgment
Excellence	<ul style="list-style-type: none"> Commitment to lifelong learning and knowledge acquisition or retrieval
Honor and integrity	<ul style="list-style-type: none"> Being fair, truthful, meeting commitments, and being straightforward
Initiative	<ul style="list-style-type: none"> Ability to assess and initiate things independently
Knowledge and skills of the profession	<ul style="list-style-type: none"> Demonstrates foundational knowledge and skills necessary of a pharmacist
Leadership	<ul style="list-style-type: none"> Ability to lead individuals, groups, or organizations
Patient-centered care*	<ul style="list-style-type: none"> Providing care that is respectful of, and responsive to, individual patient preferences, needs and values, and ensuring that patient values guide all clinical decisions
Pride in the profession	<ul style="list-style-type: none"> Feeling of pleasure or satisfaction with the work and qualities of the profession
Poise*	<ul style="list-style-type: none"> Ability to carry oneself in a composed manner
Respect for others	<ul style="list-style-type: none"> Having due regard for the feelings, wishes, or rights of others
Serve orientation	<ul style="list-style-type: none"> A mindset to serve others – from patients to the community
Trustworthiness	<ul style="list-style-type: none"> Ability to be relied upon and truthful

*Attribute added based on round 1 feedback.

One attribute was deleted from round 1 to round 2 based on round 1 feedback: (1) Accountability for his her actions.

Table 3. Summary of Modified Delphi Results for Leadership Attributes

Leadership Attributes	Round 2 ^a	Round 2 ^a	Round 2 ^a	Round 2 ^a	Round 3 ^b	Round 3 ^b	Round 3 ^b	Round 3 ^b
	All (n=82)	Faculty (n=24)	Preceptors (n=21)	Students (n=37)	All (n=64)	Faculty (n=22)	Preceptors (n=16)	Students (n=26)
Accountable for personal development	78.0%	75.0%	100.0%	70.3%	#11 (4.2)	#8 (5.0)	#9 (5.2)	#11 (2.8)
Adaptability	96.3%	100.0%	94.1%	94.6%	#3 (6.9)	#5 (6.3)	#4 (6.9)	#2 (7.5)
Advocate for patients and the profession	91.5%	89.3%	100.0%	89.2%	#8 (4.8)	#10 (4.5)	#7 (5.6)	#9 (4.7)
Change management	68.3%	85.7%	82.4%	48.6%	----	----	----	----
Collaboration	97.6%	96.4%	100.0%	97.3%	#4 (6.6)	#6 (6.2)	#5 (6.4)	#4 (7.1)
Communication	98.8%	100.0%	100.0%	97.3%	#1 (8.6)	#1 (8.1)	#1 (9.1)	#1 (8.8)
Conflict management	86.6%	78.6%	88.2%	91.9%	#10 (4.5)	#11 (3.6)	#10 (4.1)	#7 (5.6)
Critical thinking	96.3%	100.0%	100.0%	91.9%	#5 (6.3)	#4 (6.7)	#3 (7.1)	#8 (5.5)
Delegation	74.4%	78.6%	70.6%	73.0%	----	----	----	----
Empowerment	69.5%	71.4%	64.7%	70.3%	----	----	----	----
Global mindset	47.6%	39.3%	52.9%	51.4%	----	----	----	----
Goal-oriented	87.8%	82.1%	88.2%	91.9%	#7 (5.7)	#7 (5.6)	#8 (5.4)	#6 (5.9)
Grit	64.6%	71.4%	47.1%	67.6%	----	----	----	----
Inclusivity	78.0%	89.3%	58.8%	78.4%	----	----	----	----
Innovation	72.0%	64.3%	88.2%	70.3%	----	----	----	----
Integrity	93.9%	96.4%	100.0%	89.2%	#2 (7.5)	#2 (7.8)	#2 (7.4)	#3 (7.3)
Mentorship	75.6%	67.9%	100.0%	70.3%	----	----	----	----
Model the way/Set the example	85.4%	89.3%	94.1%	78.4%	#6 (6.1)	#3 (7.6)	#6 (6.0)	#9 (4.7)
Networking	47.6%	35.7%	47.1%	56.8%	----	----	----	----
Resilience	90.2%	82.1%	82.4%	100.0%	#8 (4.8)	#9 (4.6)	#11 (2.7)	#5 (6.2)
Vision	79.3%	75.0%	76.5%	83.8%	----	----	----	----

^a Participants prioritized round 2 attributes as “Highly Important”, “Important”, or “Less Important” for pharmacy student development. Attributes that achieved an overall consensus (a priori set to $\geq 80.0\%$) of being “Highly Important” or “Important” advanced to Delphi round 3. “Accountable for personal development” was retained in Delphi round 3 based on qualitative feedback and comments provided.

^b Participants rank ordered attributes by highest priority of importance for pharmacy student development in round 3. Results reported as overall rank number (mean priority rank), with lower overall rank values representing higher priority rank.

Table 4. Summary of Modified Delphi Results for Professionalism Attributes

Professionalism Attributes	Round 2 ^a	Round 2 ^a	Round 2 ^a	Round 2 ^a	Round 3 ^b	Round 3 ^b	Round 3 ^b	Round 3 ^b
	All (n=81)	Faculty (n=24)	Preceptors (n=21)	Students (n=36)	All (n=64)	Faculty (n=22)	Preceptors (n=16)	Students (n=26)
Accountability	98.8%	100.0%	100.0%	97.2%	#3 (9.1)	#3 (9.0)	#1 (10.6)	#4 (8.4)
Advocacy	74.1%	71.4%	76.5%	75.0%	----	----	----	----
Altruism	66.7%	64.3%	76.5%	63.9%	----	----	----	----
Caring	87.7%	89.3%	88.2%	86.1%	#9 (6.1)	#10 (6.1)	#11 (5.6)	#9 (6.3)
Commitment to self-improvement	87.7%	92.9%	88.2%	83.3%	#10 (5.9)	#11 (5.5)	#5 (7.5)	#11 (5.4)
Communication	98.8%	100.0%	100.0%	97.2%	#4 (8.0)	#6 (6.9)	#4 (7.8)	#2 (9.0)
Covenantal relationship with patient	85.2%	85.7%	82.4%	86.1%	#11 (5.3)	#9 (6.2)	#12 (4.2)	#12 (5.1)
Creativity and innovation	51.9%	42.9%	70.6%	50.0%	----	----	----	----
Duty	64.2%	57.1%	70.6%	66.7%	----	----	----	----
Ethically sound decision making	98.8%	100.0%	100.0%	97.2%	#6 (7.8)	#5 (8.6)	#7 (7.0)	#5 (7.5)
Excellence	70.4%	71.4%	70.6%	69.4%	----	----	----	----
Honor and integrity	98.8%	100.0%	100.0%	97.2%	#1 (9.3)	#1 (9.8)	#2 (9.6)	#3 (8.6)
Initiative	82.7%	75.0%	82.4%	88.9%	#11 (5.3)	#12 (4.4)	#8 (6.3)	#10 (5.6)
Knowledge and skills of the profession	96.3%	92.9%	100.0%	97.2%	#8 (6.3)	#7 (6.4)	#9 (6.0)	#8 (6.5)
Leadership	81.5%	85.7%	88.2%	75.0%	#13 (4.1)	#13 (3.8)	#13 (4.1)	#13 (4.5)
Patient-centered care	93.8%	89.3%	94.1%	97.2%	#7 (6.5)	#7 (6.4)	#9 (6.0)	#7 (6.8)
Pride in the profession	71.6%	64.3%	82.4%	72.2%	----	----	----	----
Poise	61.7%	67.9%	64.7%	55.6%	----	----	----	----
Respect for others	96.3%	92.9%	94.1%	100.0%	#1 (9.3)	#2 (9.1)	#3 (8.7)	#1 (9.7)
Service orientation	58.0%	60.7%	70.6%	50.0%	----	----	----	----
Trustworthiness	95.1%	92.9%	94.1%	97.2%	#4 (8.0)	#4 (8.8)	#5 (7.5)	#5 (7.5)

^a Participants prioritized round 2 attributes as “Highly Important”, “Important”, or “Less Important” for pharmacy student development. Attributes that achieved an overall consensus (a priori set to $\geq 80.0\%$) of being “Highly Important” or “Important” advanced to Delphi round 3.

^b Participants rank ordered attributes by highest priority of importance for pharmacy student development in round 3. Results reported as overall rank number (mean priority rank), with lower overall rank values representing higher priority rank.

Table 5. Leadership and Professionalism Brand Statements

Leadership Brand Statement ⁺	Professionalism Brand Statement ⁺
<p>“I will lead with <i>integrity</i>, using effective <i>communication</i> and <i>collaboration</i> with patients and colleagues as cornerstones for success. I will leverage <i>critical thinking</i> and <i>adaptability</i> when navigating healthcare challenges, assuring the highest quality care and respect for my patients and their families.”</p>	<p>“I will serve my patients with the utmost <i>honor and integrity</i>, focusing on <i>ethically sound decision making</i> that best serves the interests of patients and society. I will <i>respect others</i> and be <i>accountable</i> for my behaviors and actions. I will <i>communicate</i> effectively with my patients and colleagues in a manner that builds and instills <i>trust</i> with those that I work with and serve.”</p>

⁺Bold italics represent the top attributes identified and how they are infused in the brand statement.

1

Accepted Draft
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