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EDUCATION

UNDERGRADUATE AND GRADUATE/PROFESSIONAL EDUCATION:

Pre-Pharmacy	1997 – 1999
College of Literature, Science, and Arts University of Michigan Ann Arbor, Michigan	
Doctor of Pharmacy (with Distinction)	1999 – 2003
College of Pharmacy University of Michigan Ann Arbor, Michigan	

POST-GRADUATE TRAINING:

Postdoctoral Fellowship in Pediatric Pharmacotherapy	2006 – 2008
Fellowship Director: Milap C. Nahata, PharmD, MS, FCCP, FPPA The Ohio State University, College of Pharmacy, Nationwide Children's Research Institute Columbus, Ohio	

PROFESSIONAL DEVELOPMENT:

Teaching Certificate	2006 – 2009
The Ohio State University	
Focused Investigator Training (FIT)	2009
American College of Clinical Pharmacy (ACCP) Research Institute Salt Lake City, Utah	
Clinical & Translational Research Graduate Certificate	2010 – 2012
Mel and Zuckerman College of Public Health University of Arizona Tucson, Arizona	
Pharmacist Mentorship Program Mentor Training	2014
Cystic Fibrosis Foundation	
Quality Improvement Training	2015 – 2016
Cystic Fibrosis Foundation and Dartmouth Institute	
Leadership and Management Certificate Program	2016 – 2018
American College of Clinical Pharmacy (ACCP)	

Interprofessional Leadership Fellow <i>Cohort 6 - Area of Focus: Experiential Education</i> University of Michigan, Center for Interprofessional Education	2021-2022
Health Sciences Teaching Academy (HSTA) University of Michigan, Center for Interprofessional Education	2023
Mid-Career Faculty Recharge American Association of Colleges of Pharmacy (AACP)	2023 – 2024

LICENSURE AND CERTIFICATIONS

Michigan – Registered Pharmacist Licensure	2003 – Present
Ohio – Registered Pharmacist Licensure	2007 – Present
Arizona – Registered Pharmacist Licensure	2008 – Present

PROFESSIONAL AND ACADEMIC POSITIONS

ADMINISTRATIVE/LEADERSHIP:

Residency Program Director Postgraduate Year 2 (PGY2) Pediatric Pharmacy Residency Program Banner University Medical Center – Tucson, Diamond Children’s Tucson, Arizona	11/2009 – 6/2015
<ul style="list-style-type: none"> • Established the 1st pediatric PGY2 residency program in Arizona • Successful full accreditation during tenure as RPD 	
Assistant Department Head Department of Pharmacy Practice and Science University of Arizona College of Pharmacy Tucson, Arizona	10/2018 – 8/2020
<ul style="list-style-type: none"> ▪ Oversee department faculty mentoring program ▪ Point of contact/liaison for clinical practice site supervisors (Banner Health, El Rio Community Health Centers) ▪ Implemented team-centered process for revision of department metrics based on updated university and college strategic plan, finalized department metrics with department head ▪ Developed and implement annual department retreat 	

ACADEMIC:

Assistant Professor (Non-Tenure Eligible) Department of Pharmacy Practice and Science University of Arizona College of Pharmacy Tucson, Arizona	8/2008 – 6/2016
Faculty, Pharmacy Discipline Pediatric Pulmonary Center (MCHB Funded) University of Arizona College of Medicine Tucson, Arizona	8/2009 – 8/2020

<p>Assistant Professor (Joint Appointment) Section of Pediatric Pulmonary and Sleep Medicine Department of Pediatrics University of Arizona College of Medicine Tucson, Arizona</p>	<p>8/2010 – 6/2016</p>
<p>Assistant Scientist (Joint Appointment) Asthma and Airway Disease Research Center (A2DRC) (Formally known as Arizona Respiratory Center) University of Arizona Tucson, Arizona</p>	<p>5/2015 – 4/2017</p>
<p>Associate Professor Non-Tenure Eligible, 2016-2017; Tenure-Eligible, 2017-2020 Department of Pharmacy Practice and Science University of Arizona College of Pharmacy Tucson, Arizona</p>	<p>7/2016 – 8/2020</p>
<p>Associate Professor (Joint Appointment) Section of Pediatric Pulmonary and Sleep Medicine Department of Pediatrics University of Arizona College of Medicine Tucson, Arizona</p>	<p>7/2016 – 8/2020</p>
<p>Associate Research Scientist (Joint Appointment) Asthma and Airway Disease Research Center (A2DRC) University of Arizona Tucson, Arizona</p>	<p>4/2017 – 8/2020</p>
<p>Clinical Associate Professor (Adjunct Appointment) Department of Clinical Pharmacy University of Michigan College of pharmacy Ann Arbor, Michigan</p>	<p>8/2018 – 8/2020</p>
<p>Associate Professor (Designated Campus Colleague, Adjunct) Department of Pharmacy Practice and Science University of Arizona – College of Pharmacy Tucson, Arizona</p>	<p>9/2020 – 9/2022</p>
<p>Clinical Associate Professor Department of Clinical Pharmacy University of Michigan – College of Pharmacy Ann Arbor, Michigan</p>	<p>8/2020 – Present</p>
<p>Faculty Affiliate, Susan B. Meister Child Health Evaluation and Research (CHEAR) Center Michigan Medicine, Division of General Pediatrics Ann Arbor, Michigan</p>	<p>4/2021 – Present</p>

CLINICAL PRACTICE:

Staff Pharmacist Southeast Michigan District (Detroit South); Walgreens Co.	7/2003 – 10/2003
Clinical Pharmacist Heartland Home Care and Hospice Livonia, Michigan	10/2003 – 10/2004
Pediatrics/Neonatal ICU Clinical Staff Pharmacist C.S. Mott Children’s Hospital University of Michigan Health System Ann Arbor, Michigan	10/2004 – 6/2006
Clinical Pharmacy Specialist Pediatric Pulmonology and Sleep; Adult Cystic Fibrosis Center Diamond Children’s, Banner University Medical Center – Tucson Tucson, Arizona	8/2008 – 8/2020
Clinical Pharmacist Specialist, Ambulatory Care Pharmacy Innovations & Partnerships, Michigan Medicine Pediatric Cystic Fibrosis Center C.S. Mott Children’s Hospital, Michigan Medicine Ann Arbor, Michigan	8/2020 - Present

CONSULTATIVE:

Consultant, Clinical Specialist Wolters Kluwer, Lexicomp (Pediatric and Neonatal Lexi-Drugs)	2/2018 – Present
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HONORS AND AWARDS

2007	Honorary Mention , President’s Salute for Teaching, Undergraduate Programs The Ohio State College of Pharmacy, College of Pharmacy
2009	Co-Recipient , Pharmacy Practice Literature Award ASHP Research and Education Foundation <i>Kaakeh Y, Phan H, DeSmet B, Pasko DA, Glenn DK, Stevenson JG. Enhanced photoemission spectroscopy for verification of high-risk intravenous medications. Am J Health Syst Pharm. 2008; 65(1):49-54.</i>
2012	Recipient , Spirit of PPA Award Pediatric Pharmacy Association (PPA)
2012	Recipient , Exemplary Patient Care Award Arizona Pharmacy Association
2014	Recognition for Service , Research Committee Pediatric Pharmacy Association (PPA)
2015	Recipient , Presidential Citation Award Pediatric Pharmacy Association (PPA)

- 2016 **Recipient**, Theodore G. Tong Distinguished Leadership and Service Award
The University of Arizona College of Pharmacy
- 2016 **Fellow (FCCP)**, American College of Clinical Pharmacy (ACCP)
- 2018 **Fellow (FPPA)**, Pediatric Pharmacy Association (PPA)
- 2019 **Recipient**, ACCP Pediatric Practice and Research Network Achievement Award
Recognizes one full ACCP and member of the Pediatric PRN (≥ 10 years)
annually who:
- Demonstrated leadership in pediatric pharmacy
 - Sustained a high level of contribution related to practice, education, research, service, and/or advocacy in pediatric pharmacy
 - Has maintained a high level of active service and contributions within ACCP and the Pediatric PRN.
- 2022 **Recipient**, PGY2 Pediatric Pharmacy Preceptor of the Year, Michigan Medicine

AWARDED GRANTS / EXTRAMURAL FUNDING

(*denotes trainee(s) supervised by Dr. Phan)

- 2007 “Prescribing trends for medications in the treatment of adolescents and young adults with Type 2 diabetes mellitus” from Takeda Pharmaceutical Company Ltd., Investigator Initiated Grant.
\$74,000, 10% effort (1.2 calendar months).
Collaborators: Nahata MC (PI), Porter K
Role: Co-Principal Investigator
- 2010 – 2015 “Pediatric Pulmonary Center Training Grant,” from Health Resources and Services Administration (HRSA), Maternal Child Health Bureau (MCHB), T72MC00012.
\$1,693,642, 10% effort (1.2 calendar months)
Collaborators: Brown MA (PI), Rascon L, Settle P, McGuire M
Role: Sub-Investigator
- 2011 “Translation of School-Based, Supervised Asthma Therapy into an Internet-Based, Clinician Tool,” from Health Resources and Services Administration, Maternal and Child Health Training Grant T76MC04925.
\$5000, funding for application development
Collaborator: Gerald LB (Co-PI)
Role: Co-Principal Investigator
- 2011 “Gender-Associated Perceived Biases of Pharmacy Faculty,” from The University of Arizona ADVANCE Program, Seed Grant.
\$5,500 (funding for project supplies and travel)
Collaborator: Matthias KR
Role: Principal Investigator

- 2011 – 2013 “Redesigning Inpatient Cystic Fibrosis Care,” from Cystic Fibrosis Foundation, Quality Improvement Project Grant.
\$50,000, 2% effort (0.24 calendar months)
Collaborators: Daines CL (PI), Drake G, McGuire M, Parker M, Settle P, Werchan B
Role: Co-Investigator
- 2011 – 2014 “Integrating Pharmacy Practice Residents and Student Pharmacists into Practice to Promote Innovative Pharmacy Services in San Luis,” from Arizona Area Health Education Centers (AHEC), Training Center Grant.
\$615,819, 5% (0.6 calendar months)
Collaborators: Kennedy AK (PI), Matthias KR
Role: Co-Investigator
- 2014 – 2016 “Pharmacist Collaborative Practice in the Management of High-Risk Pediatric Asthma,” from American Society of Health-System Pharmacists (ASHP) Research and Education Foundation, New Investigator Grant.
\$19,967, 1.5% effort (0.18 calendar months)
Collaborators: Brown MA, Erstad BL
Role: Principal Investigator
- 2014 – 2018 “Success with Therapies Research Consortium CF Center Grant,” from Cystic Fibrosis Foundation.
\$75,000, 5% (0.6 calendar months)
Collaborator: Daines CL (Co-PI)
Role: Co-Principal Investigator
- 2015 – 2016 “Redesigning clinic workflow to improve outpatient cystic fibrosis care,” from Cystic Fibrosis Foundation, Quality Improvement Project Grant.
\$24,000 (for travel support and Dartmouth Quality Improvement Training)
Collaborators: Daines CL (PI), Drake G, McGuire M, Parker M, Settle P, Werchan B, Champion J, Ojo T.
Role: Co-Investigator
- 2015 – 2020 “Pediatric Pulmonary Center Training Grant,” from Health Resources and Services Administration (HRSA), Maternal Child Health Bureau (MCHB), T72MC00012.
\$1,693,642, 8% effort (0.96 calendar months)
Collaborators: Brown MA (PI until July 2016), Daines CL (PI from July 2016), Rascon L, Settle P, McGuire M
Role: Sub-Investigator
- 2016 – 2017 “Perspectives of Rural and Non-Rural Community Pharmacists in Pediatric Dosing and Recommendations,” from Arizona Area Health Education Center, The University of Arizona College of Pharmacy Health Disparities Grant.
\$2,042 (for subject incentives, travel)
Collaborators: Hall-Lipsy (Co-PI), Hu J*, Lin G*
Role: Principal Investigator

- 2016 – 2019 “Expansion of Pharmacy Services in Accredited Adult and Pediatric Cystic Fibrosis (CF) Clinics,” from Cystic Fibrosis Foundation.
\$200,880, 10% effort (1.2 calendar months)
Collaborators: Daines CL (Co-PI)
Role: Co-Principal Investigator
- 2016 – 2020 “Feasibility of a Mobile Medication Plan Application in CF Patient Care,” from Success with Therapies Research Consortium (STRC) Pilot/Feasibility Award, Cystic Fibrosis Foundation, MAP16PEO.
\$850,000, 25% effort (3 calendar months)
Collaborators: Daines CL (Co-PI)
Role: Principal Investigator
- 2017 – 2019 “Implementation of the Depression and Anxiety Guidelines: Award for A Mental Health Coordinator,” from Cystic Fibrosis Foundation.
\$150,000 , 2% effort (0.24 calendar months)
Collaborators: Daines CL (PI), Bowen AL, McGuire M, Mees L
Role: Sub-Investigator
- 2017 – 2023 “An Asthma Collaboration to Reduce Childhood Asthma Disparities on The Navajo Nation,” from National Heart, Lung, and Blood Institute (NHLBI), U01 HL138689-010.
\$4,598,574, 10% effort (1.2 calendar months for 2017-2020), 2.5% (0.3 calendar months for 2021-2023)
Collaborators: Gerald LB (Co-PI), Bender BG (Co-PI), King D, Kobernick A, Liu A, Morgan WJ, Nez P, Simmons B, Lowe A, Solomon T.
Role: Co-Investigator
- 2018 – 2020 “Success with Therapies Research Consortium CF Center Grant,” from Cystic Fibrosis Foundation.
\$50,000, 5% effort (0.6 calendar months)
Collaborator: Daines CL
Role: Co-Principal Investigator
- 2019 “Medication Education in Cystic Fibrosis (CF) Care Centers: Perspectives of Persons with CF, Caregivers of Infants/Children/Adolescents with CF, and CF Healthcare Providers,” from Arizona Area Health Education Center, The University of Arizona College of Pharmacy Health Disparities Grant.
\$480, funding for participant gift card raffle
Collaborators: Seto D*, Romero-Aleshire J*, Eastep TG*, Bowen A, Sharpe A, Hall-Lipsy E
Role: Principal Investigator
- 2019 “Complementary Alternative Medicine (CAM), Cannabis, and Therapeutic Diets in Cystic Fibrosis (CF): Perspectives of Persons with CF, Caregivers of Infants/Children/Adolescents with CF, and CF Healthcare Providers,” from Arizona Area Health Education Center, The University of Arizona College of Pharmacy Health Disparities Grant.
\$1.440, funding for participant gift card raffle
Collaborators: Lam M*, Bradshaw S, Anderson K*, Bowen A, Sharpe A, Jackson K, Hall-Lipsy E, Anderson K*
Role: Principal Investigator

- 2020 – 2023 “Expansion of Outpatient Pharmacy Services in Cystic Fibrosis (CF) Clinics,” from Award for a Pharmacist and/or Technician Grant. Cystic Fibrosis Foundation, CCRX184-19.
\$168,480, 30-43% effort (3.6-5.16 calendar months)
Collaborator: Nasr SZ (PI)
Role: Co-Investigator, Clinician, Clinical Pharmacist Specialist
- 2021 “Cystic Fibrosis Center Grant,” from Cystic Fibrosis Foundation, 000592CC323.
\$1,664,155, 5% effort (0.6 calendar months)
Collaborator: Nasr SZ (PI)
Role: Sub-Investigator
- July 2023 “Success with Therapies Research Consortium CF Center Grant”, from Cystic Fibrosis Foundation, BUTCHE14PE0.
\$47,876, 13.65% effort (1.64 calendar months)
Collaborator: Butcher J (Co-PI), Nasr SZ (Co-PI)
Role: Co-Investigator
- 2023 – 2024 “Therapeutic Development Center Award,” from Cystic Fibrosis Foundation, 002968Y121.
\$2,237,600, 5-17% effort (0.6-2.04 calendar months)
Collaborator: Nasr SZ (PI)
Role: Sub-Investigator
- 2024-2026 “Success with Therapies Research Consortium CF Center Grant”, from Cystic Fibrosis Foundation, BUTCHE14PE0-STRC
\$47,040, 2.1% effort (0.252 calendar months)
Collaborator: Butcher J (Co-PI), Nasr SZ (Co-PI)
Role: Co-Investigator

PUBLICATIONS

(Key: *denotes student, resident, or postdoc at the time)

Web of Science Researcher ID: E-1476-2016 (as of Aug 10, 2024: h-index = 11)

Google Scholar (as of Aug 10, 2024: h-index = 16, i10 index = 19)

ORCID ID: 0000-0003-4968-1460

BOOKS

Benavides S, **Phan H**, Nahata MC (eds). Pediatric Pharmacotherapy Self-Assessment. 1st Edition. Bethesda: American Society of Health-System Pharmacists. 2014. ISBN: 978-1-58528-424-5.

BOOK CHAPTERS:

1. Whittington Goldstone L, Kennedy AK, Clark JS, **Phan H**. Developing and evaluating clinical pharmacy services. In Chisholm-Burns MA, Vaillancourt AM, Shepherd M (eds). Pharmacy Management, Leadership, Marketing, and Finance. 2nd ed. Burlington, MA: Jones & Bartlett Learning; 2012: 199-215.

2. Babico MA*, **Phan H.** Toxicology. In: Benavides S, Phan H, Nahata MC (eds). Pediatric Self-Assessment. 1st Ed. Bethesda: American Society of Health System Pharmacists. 2014: 23-26.
3. Lashkar MO*, **Phan H.** Asthma. In: Benavides S, Phan H, Nahata MC (eds). Pediatric Self-Assessment. 1st Ed. Bethesda: American Society of Health System Pharmacists. 2014: 33-35.
4. Even NM*, **Phan H.** Anaphylaxis. In: Benavides S, Phan H, Nahata MC (eds). Pediatric Self-Assessment. 1st Ed. Bethesda: American Society of Health System Pharmacists. 2014: 17-20.
5. **Phan H.** Respiratory Distress Syndrome and Bronchopulmonary Dysplasia. In: Benavides S, Phan H, Nahata MC (eds). Pediatric Self-Assessment. 1st Ed. Bethesda: American Society of Health System Pharmacists. 2014: 40-42.
6. **Phan H.** Cystic Fibrosis. In: Benavides S, Phan H, Nahata MC (eds). Pediatric Self-Assessment. 1st Ed. Bethesda: American Society of Health System Pharmacists. 2014: 36-39.
7. Lopliato AC*, **Phan H**, Edwards CJ. Type 1 Diabetes Mellitus: Diabetic Ketoacidosis. In: Katz MD, Matthias KR, Chisholm-Burns MA, (eds). Pharmacotherapy: Principles and Practice Casebook. 4th Ed. New York City: McGraw-Hill. 2016: 189-192. (Note: also authored chapter in 1st (2010), 2nd (2012), and 3rd (2014) Ed).
8. **Phan H.** Asthma. PPA: Pediatric PharmPrep Advanced Guide (book online). 2nd ed (2016), Memphis, TN: Pediatric Pharmacy Association. (Note: also authored chapter in 1st Ed (2015))
9. **Phan H**, Murphy JE. Theophylline. In: Murphy JE (ed). Clinical Pharmacokinetics. 6th Edition. Bethesda: American Society of Health-System Pharmacists. 2017:351-364. (Note: also authored chapter in 5th (2011) Ed).
10. **Phan H**, O'Brien C. Cystic Fibrosis. In Murphy JE, Lee MW (ed). Pharmacotherapy Self-Assessment Program (PSAP) 2016-2018: Pulmonary I. Lenexa: American College of Clinical Pharmacy. 2017; 41-66.
11. **Phan H**, Murphy JE. Theophylline. In: Murphy JE (ed). Clinical Pharmacokinetics. 6th Edition. Bethesda: American Society of Health-System Pharmacists. 2017:351-364. (Note: also authored chapter in 5th (2011) Ed).
12. **Phan H**, Kuhn RJ. Cystic Fibrosis. In: Benavides S, Nahata MC (eds). Pediatric Pharmacotherapy. American College of Clinical Pharmacy. 2nd Ed. Lenexa, KS. 2020: 211-233. (Note: also authored chapter in 1st Ed (2013)).
13. **Phan H**, Nahata MC. Introduction to Pediatrics. In: Benavides S, Nahata MC (eds). Pediatric Pharmacotherapy. American College of Clinical Pharmacy. 2nd Ed. Lenexa, KS. 2020: 3-17. (Note: also authored chapter in 1st (2013): 3-17).
14. **Phan H**, Pai VB, Nahata MC. 2-Pediatrics. In: Chisholm-Burns MA, Wells BG, Schwinghammer TL, et al., (eds). Pharmacotherapy: Principles and Practice. 6th Ed. New York City: McGraw-Hill. 2021; 15-26. (Note: also authored chapter in 2nd Ed (2010) and 3rd Ed (2013), 4th Ed (2016), 5th Ed (2018)).

15. **Phan H**, Daines MO. 65-Allergic Rhinitis. In: Chisholm-Burns MA, Wells BG, Schwinghammer TL, et al., (eds). Pharmacotherapy: Principles and Practice. 6th Ed. New York City: McGraw-Hill. 2021; 1049-1064. (Note: also authored chapter in 5th Ed (2018)).
16. Hobart CB, **Phan H**. Theophylline. In: Murphy JE (ed). Clinical Pharmacokinetics. 7th Edition. Bethesda: American Society of Health-System Pharmacists. 2022: 423-442. (Note: also authored chapter in 5th Ed (2011), 6th Ed (2017)).
17. **Phan H**, Daines CL. Cystic Fibrosis. In: Kellerman RD, Rakel D (eds). Conn's Current Therapy 2024. Elsevier. 5th Ed. Philadelphia, PA. (Note: also authored chapter in 1st Ed 2020, 2nd Ed (2021), 3rd Ed (2022), 4th Ed (2023)).
18. Wardlow LC, **Phan H**. Pediatric Immunizations. In: Matthias KR, Katz MD eds. Pharmacotherapy Principles and Practice Study Guide: A Case Based Care Plan Approach, 6th ed. New York: McGraw Hill Medical; 2023. (Note: also authored chapter in 2nd (2012), 3rd (2014), and 4th (2016) Ed).
19. Kadouh N*, **Phan H**. Cystic Fibrosis. In: Matthias KR, Katz MD eds. Pharmacotherapy Principles and Practice Study Guide: A Case Based Care Plan Approach, 6th ed. New York: McGraw Hill Medical; 2023. (Note: also authored chapter in 3rd (2014), 4th (2016), 5th (2019) Ed).
20. Fung MY*, **Phan H**. Acute Asthma Exacerbation. In: Matthias KR, Katz MD eds. Pharmacotherapy Principles and Practice Study Guide: A Case Based Care Plan Approach, 6th ed. New York: McGraw Hill Medical; 2023. (Note: also authored chapter in 4th (2016) and 5th (2019) Ed).
21. Hobart CB, **Phan H**. Allergic Rhinitis. In: Matthias KR, Katz MD eds. Pharmacotherapy Principles and Practice Study Guide: A Case Based Care Plan Approach, 6th ed. New York: McGraw Hill Medical; 2023. (Note: also authored chapter in 5th edition).

PEER-REVIEWED PUBLICATIONS

1. Kaakeh Y, **Phan H**, DeSmet B, Pasko DA, Glenn DK, Stevenson JG. Enhanced photoemission spectroscopy for verification of high-risk intravenous medications. *Am J Health Syst Pharm*. 2008; 65(1): 49-54. PMID: 18159039.
2. **Phan H**, Nahata MC. Clinical uses of dexmedetomidine in pediatric patients. *Paediatr Drugs*. 2008; 10(1): 49-69. PMID: 18162008.
3. **Phan H**, Casavant MJ, Crockett S, Lee A, Hall M, Nahata MC. Serotonin syndrome following a single 50 mg dose of sertraline in a child. *Clin Toxicol*. 2008; 14: 1-5. PMID: 18608268.
4. **Phan H**, Moeller M*, Nahata MC. Treatment of allergic rhinitis in infants and children: efficacy and safety of second-generation antihistamines and the leukotriene receptor antagonist montelukast. *Drugs*. 2009; 69: 2541-76. PMID: 19943707.
5. **Phan H**, Leder M, Fishley M*, Moeller M*, Nahata MC. Off-label medication use and adverse drug events in patients in the pediatric emergency department. *Pediatr Emerg Care*. 2010;26(6):424-30. PMID: 20502385.

6. Warholak TL, Queiruga C*, Roush R*, **Phan H****. Medication error identification rates of pharmacy, medical and, nursing students: A simulation. *Am J Pharm Ed*. 2011;75(2): 1-6. PMID: 21519414.
7. Traylor BR*, Wheatley CM*, Skrentny TT*, Foxx-Lupo WT*, **Phan H**, Patanwala AE, Morgan WJ, Daines CL, Sprissler R, Snyder EM. Influence of Genetic Variation of the Beta-2-Adrenergic Receptor on Lung Diffusion in Patients with Cystic Fibrosis. *Pulm Pharmacol Ther*. 2011 Oct;24(5):610-6. PMID: 21703359.
8. Kennedy MJ, **Phan H**, Benavides S, Potts A, Sorensen S. The role of the pediatric pharmacist in personalized medicine and clinical pharmacogenomics for children. *J Pediatr Pharmacol Ther*. 2011;16(2) 118-122. PMID: 22477836.
9. Jasiak KD*, **Phan H**, Christich AC*, Edwards CJ, Skrepnek GH, Patanwala AE. Induction dose of propofol for pediatric patients undergoing procedural sedation in the emergency department. *Pediatr Emerg Care*. 2012;28: 440-442. PMID: 22531193.
10. **Phan H**, Porter K, Nahata M. Prescribing trends for medications in the treatment of adolescents and young adults with Type 2 diabetes mellitus. *J Man Care Pharm*. 2012 Oct;18(8):607-14. PMID: 23127148.
11. Bhatt-Mehta V, Buck ML, Chung AM, Farrington EA, Hagemann TM, Hoff DS, La Rochelle JM, Pettit RS, **Phan H**, Potts AL, Smith KP, Parrish RH 2nd. Recommendations for Meeting the Pediatric Patient's Need for a Clinical Pharmacist: A Joint Opinion of the Pediatrics Practice and Research Network of the American College of Clinical Pharmacy and the Pediatric Pharmacy Association. **[Dual Journal Publication]** *J Pediatr Pharmacol Ther*. 2012 Jul;17(3):281-91. **AND** *Pharmacother*. 2013 Feb;33(2):243-51. PMID: 23258972.
12. Patanwala AE, Christich AC*, Jasiak KD*, Edwards CJ, **Phan H**, Snyder EM. Age-related Differences in Propofol Dosing for Procedural Sedation in the Emergency Department. *J Emerg Med*. 2013 Apr 44(4):823-8. PMID: 23333181.
13. Wheatley CM*, Morgan WJ, Cassuto NA, Foxx-Lupo WT*, Daines CL, Morgan MA, **Phan H**, Snyder EM. Exhaled breath condensate detects baseline reductions in chloride and increases in response to albuterol in cystic fibrosis patients. *Clin Med Insights Circ Respir Pulm Med*. 2013 Dec 10; 7:79-90. PMID: 24367235.
14. Mueller EW, Bishop JR, Kanaan AO, Kiser TH, **Phan H**, Yang KY. Research Fellowship Programs as a Pathway for Training Independent Clinical Pharmacy Scientists. *Pharmacotherapy*. 2015 Mar;35(3): e13-9. PMID: 25756755.
15. **Phan H**, Brown MA. Fluticasone Furoate for the Treatment of Childhood Asthma. *Expert Review of Respiratory Medicine*. Invited Review. 2015; 9(4): 391-404. PMID: 26184791.
16. Wheatley CM*, Baker SE, Daines CL, **Phan H**, Martinez MG, Morgan WJ, Snyder EM. Influence of the Vibralung Acoustical Percussor on pulmonary function and sputum expectoration in individuals with cystic fibrosis. *Ther Adv Respir Dis*. 2018; 12:1-15. Jan-Dec; 12:1753466618770997. doi: 10.1177/1753466618770997. PMID: 29697011.
17. **Phan H**. Treatment complexity in cystic fibrosis (CF): An increasing multifaceted challenge. *Pediatr Pulmonol*. 2018;53(9):1174-1176. PMID: 29856505.

18. Stultz JS, Knoderer CA, Manasco KB, Morgan JA, **Phan H**. Identification of factors associated with the desire to participate in a pediatric pharmacy practice-based research network. *J Pediatr Pharmacol Ther*. 2018;23(6): 485-491. PMID: 30697134.
19. Hobart CB*, **Phan H**. Pediatric to Adult Health Care Transition (HCT): Current Challenges and Recommended Practices. *Am J Health Sys Pharm*. 2019; 76(19): 1544-1554. PMID: 31532501.
20. Hobart CB*, Daines CL, **Phan H**. Developing Future Clinical Pharmacy Leaders in the Interprofessional Care of Children with Special Health Care Needs and Medical Complexity (CSHCN-CMC) in a Pediatric Pulmonary Center. *Children (Basel)*. 2019 Dec 9;6(12). PMID: 31818043.
21. Butler SM, Boucher EA, Tobison J, **Phan H**. Medication Use in Schools: Current Status and Best Practices. *J Pediatr Pharmacol Ther*. 2020;25(1):7-24. PMID: 31897071.
22. **Phan H**, Butler SM, Tobison J, Boucher EA. Medication Use in Schools: Pediatric Pharmacy Association (PPA) Position Statement. *J Pediatr Pharmacol Ther*. 2020; 25(2): 163-166. PMID: 32071592.
23. Stranges PM, Jackevicius CA, Anderson SL, Bondi D, Danelich I, Englin EF, Hansen ML, Nys C, Patel RS, **Phan H**, Philibrick AM, Ranger M, Schumacher C, Smithgall S. Role of clinical pharmacists and pharmacy support personnel in transitions of care. *J Am Coll Clin Pharm*. 2020; 3:532–545. <https://doi.org/10.1002/jac5.1215>.
24. LaRoche JM, Smith K, Benavides S, Bobo KS, Chung AM, Farrington E, Kennedy A, Knoppert D, Lee B, Manasco KB, Pettit R, **Phan H**, Potts AL, Sandritter TL, Hagemann T. Evidence demonstrating the pharmacist's direct impact on clinical outcomes in pediatric patients: An Opinion of the Pediatrics Practice and Research Network of the American College of Clinical Pharmacy. *J Am Coll Clin Pharm*. 2020; 2020; 3: 786– 792. <https://doi.org/10.1002/jac5.1217>.
25. Muralidharan P*, Mallory EK*, Malapit M*, **Phan H**, Ledford JG, Hayes D, Mansour HM. Advanced design and development of nanoparticle/microparticle dual-drug combination lactose carrier-free dry powder inhalation aerosols. *RSC Advances*. 2020;10(68):41846-56. PMID: 33391731.
26. Muirhead CA, Palmrose W, Condren M, Rotolo SM, Pettit RS, Gill M, **Phan H**. A clinician survey of use assessment, documentation, and education about cannabis in persons with cystic fibrosis. *Pediatr Pulmonol*. 2021 Sep;56(9):2879-2887. PMID: 34232573.
27. Volerman A, Lowe AA, Pappalardo AA, Anderson CMC, Blake KV, Bryant-Stephens T, Carr T, Carter H, Cicutto L, Gerald JK, Miller T, Moore NS, **Phan H**, Sadreameli SC, Tanner A, Winders TA, Gerald LB. Ensuring Access to Albuterol in Schools: From Policy to Implementation. An Official ATS/AANMA/ALA/NASN Policy Statement. *Am J Respir Crit Care Med*. 2021 Sep 1;204(5):508-522. PMID: 34499024.
28. Enochs C, Filbrun AG, Iwanicki C, Moraniec H, Lehrmann J, Stiffler J, Dagher S, Tapley C, **Phan H**, Raines R, Nasr SZ. Development of an Interdisciplinary Telehealth Care Model in a Pediatric Cystic Fibrosis Center. *Telemed Rep*. 2021 Oct 12;2(1):224-232. doi: 10.1089/tmr.2021.0021. PMID: 35720757; PMCID: PMC9049801.

29. Lowe AA, **Phan H**, Hall-Lipsy E, O'Shaughnessy S, Nash B, Volerman A, Gerald LB. School stock inhaler statutes and regulations in the United States: a systematic review. *J Sch Health*. 2022; DOI: 10.1111/josh.13142. PMID: 35285022.
30. Kimple AJ, Senior BA, Naureckas ET, Gudis DA, Meyer T, Hempstead SE, Resnick HE, Albon D, Barfield W, Benoit MM, Beswick DM, Callard E, Cofer S, Downer V, Elson EC, Garinis A, Halderman A, Hamburger L, Helmick M, McCown M, McKinzie CJ, **Phan H**, Rodriguez K, Rubenstein RC, Severin A, Shah G, Shenoy A, Sprouse B, Virgin F, Woodworth BA, Lee SE. Cystic Fibrosis Foundation otolaryngology care multidisciplinary consensus recommendations. *Int Forum Allergy Rhinol*. 2022 Sep;12(9):1089-1103. doi: 10.1002/alr.22974. PMID: 35089650.
31. Lowe AA, Simmons B, Nez P, Begay E, Liu A, King D, Gerald JK, Aaron K, Wightman P, Solomon T, Crooks J, **Phan H**, Morgan W, Bender B, Gerald LB. An asthma collaboration to reduce childhood asthma disparities on the Navajo Nation: Trial protocol for the Community Asthma Program. *Public Health Pract (Oxf)*. 2022 Jul 21; 4:100289. doi: 10.1016/j.puhip.2022.100289. PMID: 36570396.
32. Ince HY*, **Phan H**, Nasr SZ, Pierce JM, Malas N. Clearing up the smoke: Physical and mental health considerations regarding cannabis use in adolescents with cystic fibrosis. *Pediatr Pulmonol*. 2023 Feb;58(2):398-407. doi: 10.1002/ppul.26241. Epub 2022 Nov 18. PMID: 36349504.
33. Reeves, SL, Dombkowski, KJ, Peng, HK, **Phan, H**, Kolenic, G, Creary, SE, Madden, B, Lisabeth, LD. Adherence to Hydroxyurea and Clinical Outcomes among Children with Sickle Cell Anemia. *Pediatr Blood Cancer*. 2023 Apr 12: e30332. doi: 10.1002/pbc.30332. Epub ahead of print. PMID: 37046404.
34. Anderson K, Gerald LB, Hall-Lipsy E, McCulley K, Vuong E, **Phan H**. Pharmacists' Perspectives on Inhaled Bronchodilator Use and Stock Inhaler Access for School-Age Children. *J Public Health Policy*. 2023 Sep;44(3):464-476. doi: 10.1057/s41271-023-00423-8. Epub 2023 Jun 21. PMID: 37344541.
35. Kim AS*, Thompson AN, Axon DR, Sabourin A, Davies MJ, Shannon C, Nasr SZ, **Phan, H****. A scoping review of clinical pharmacist and pharmacy technician contributions to cystic fibrosis care. *J Am Coll Clin Pharm*. 2023; 1-9. doi:10.1002/jac5.187.7.
36. Elijah J*, Fitzgerald LJ, **Phan H**. Use of CFTR modulators in special populations, part 1: Pregnancy and lactation. *Pediatr Pulmonol*. 2023 Dec;58(12):3377-3385. doi: 10.1002/ppul.26706. Epub 2023 Oct 3. PMID: 37787417.
37. Elijah J*, Fitzgerald LJ, **Phan H**. Use of CFTR modulators in special populations, part 2: Severe lung disease. *Pediatr Pulmonol*. 2023 Dec;58(12):3386-3392. doi: 10.1002/ppul.26698. Epub 2023 Sep 20. PMID: 37728222.
38. Kadouh NK*, Elijah J, Fitzgerald LJ, **Phan H**. Use of CFTR modulators in special populations, part 3: Solid organ transplant. *Pediatr Pulmonol*. 2023 Dec;58(12):3393-3402. doi: 10.1002/ppul.26396. Epub 2023 Apr 17. PMID: 37067449.
39. Hovey S, Tabulov C, Matson K, **Phan H**. Age-Based Transitions of Care: Where is the Pharmacist? *J AM Coll Clin Pharm*. 7: 523-528. <https://doi.org/10.1002/jac5.1962>

40. Bender BG, Crooks J, Gerald JK, Hudson B, King DK, Kobernick A, Liu AH, Lowe AA, Morgan W, Nez P, **Phan H**, Wightman P, Gerald LB. Childhood asthma exacerbations on the Navajo Nation. *J Allergy Clin Immunol Pract*. 2024 Apr 30:S2213-2198(24)00429-X. doi: 10.1016/j.jaip.2024.04.044. Epub ahead of print. PMID: 38697473.
41. **Phan H**, Daines CL, Woo T, Psoter KJ, Goodman A, McWilliams E, Frederick C, Milla C, Oates G, Sawicki GS, Riekert KA. Development and preliminary validation of the personalized cystic fibrosis medication questionnaire (PCF-MQ). *J Cyst Fibros*. 2024 Jun 7:S1569-1993(24)00073-0. doi: 10.1016/j.jcf.2024.05.011.

PRESENTATIONS

(Key: presenter is underlined, * denotes student, resident, or postdoc at the time)

POSTER PRESENTATIONS – WITH PUBLISHED ABSTRACTS:

1. Cassuto NA, Wheatley CM*, Foxx-Lupo WT*, Patanwala A, **Phan H**, Molina O, Daines CL, Morgan WJ, Snyder EM. Alveolar-capillary membrane conductance and pulmonary capillary blood volume during exercise in patients with cystic fibrosis. *Pediatr Pulmonol*. 2009; 44(S32):388. 2009 North American Cystic Fibrosis Conference.
2. Cassuto NA, Wheatley CM*, Foxx-Lupo WT*, Patanwala A, **Phan H**, Molina O, Daines CL, Morgan WJ, Snyder EM. Influence of an inhaled β -agonist on exhaled Na⁺, K⁺, and Cl⁻ in humans. *Pediatr Pulmonol. Supplement 32*, 2009:79. 2009 North American Cystic Fibrosis Conference.
3. Traylor BR*, Skrentny T*, Foxx-Lupo WT*, Wheatley CM*, Cassuto NA, **Phan H**, Daines CL, Morgan WJ, and Snyder EM. Influence of an Inhaled B-agonist on Alveolar-Capillary Membrane Conductance and Oxygen Saturation in Patients with Cystic Fibrosis. *Am J Respir Crit Care Med* 181;2010: A1827. 2010 American Thoracic Society Conference.
4. Wheatley CM*, **Phan H**, Wong EC*, Foxx-Lupo WT*, Morgan M, Cassuto NA, Morgan WJ, Daines, CL, Snyder EM. Contribution of DLCO and DLNO measures at rest and peak exercise in explaining variability in changes in outpatient therapy secondary to acute exacerbations in CF. *Pediatr Pulmonol*. 2010; (45)33 :371. 2010 North American Cystic Fibrosis Conference.
5. Wheatley CM*, **Phan H**, Morgan M, Wong EC, Cassuto NA, Foxx-Lupo WT, Daines CL, Morgan WJ, Snyder EM. Pharmacogenetics of the alpha subunit of the epithelial Na⁺ channel on exhaled Na⁺ in response to albuterol in CF. *Pediatr Pulmonol*. 2010;45(33): 287. 2010 North American Cystic Fibrosis Conference.
6. Wheatley CM*, Cassuto NA, Foxx-Lupo WT*, **Phan H**, Molina O, Daines CL, Morgan WJ, Snyder EM. Influence of an Inhaled Beta-Agonist on Exhaled Na⁺, K⁺, and Cl⁻ in Patients with Cystic Fibrosis. *Am J Respir Crit Care Med* 181;2010: A1839. 2010 American Thoracic Society.
7. Herko KK*, Guthrie BT*, **Phan H**, Wheatley CW*, Foxx-Lupo WT*, Morgan MA, Daines CL, Morgan WJ, Snyder EM. Genetic Variation of the Beta-2 Adrenergic Receptor and the Bronchodilatory Response to Albuterol in Patients with Cystic Fibrosis. *Pediatr Pulmonol*. 2011 Oct;46 Suppl 34:273. 2011 North American Cystic Fibrosis Conference.

8. Daines CL, **Phan H**, McGuire M, Parker M, Settle P, Werchan B, Drake G. Impact of a dedicated respiratory care team on inpatient pulmonary outcomes. *Pediatr Pulmonol*. 2013;48(S36):392-393. 2013 North American Cystic Fibrosis Conference.
9. Wheatley CM*, Baker SE, Daines CL, **Phan H**, Morgan WJ, Snyder EM. Influence of the vibralong device on Pulmonary function and sputum expectoration in patients with cystic fibrosis. *Pediatr Pulmonol*. 2013;48(S36):357. 2013 North American Cystic Fibrosis Conference.
10. **Phan H**, Babico M*, George A*, Foxx-Lupo WT*, Drake RT, Kleifgen B, Daines CL. Pharmacist impact on inpatient drug therapy as part of the interdisciplinary cystic fibrosis team. *Pharmacotherapy*. 2015; 35 (11): E225-226. 2015 American College of Clinical Pharmacy Annual Meeting.
11. **Phan H**, Cruz V, Drake G, McGuire M, Werchan B, Settle P, Werchan A, Campion J, Daines CL. Redesigning clinic workflow to improve outpatient cystic fibrosis care. *Pediatr Pulmonol*. 2016; 51(S45): 474. 2016 North American Cystic Fibrosis Conference.
12. Malapit M*, Mallory EK*, Muraalidharan P*, **Phan H**, Hayes Jr. D, Mansour HM. In vitro aerodynamic analysis of co-spray dried fluticasone propionate (FPP) and salmeterol xinafoate (SX) dry powder inhalation aerosols with lactose-alternative excipient. *Am J Respir Crit Care Med* 2017; 195: A6271. 2017 American Thoracic Society Conference.
13. Miller TW*, Limke K*, Robertson R*, Cash C*, **Phan H**. Evaluation of Medication-Related Risk Factors and Pediatric Hospital Readmissions. *Pharmacotherapy*. 2017; 37(12): E198-199. 2017 American College of Clinical Pharmacy Annual Meeting.
14. Hu J*, Lin G*, Hall-Lipsy H, **Phan H**. Perspectives of rural and non-rural Arizona community pharmacists on pediatric dosing and recommendations. *Pharmacotherapy*. 2017; 37(12): E199. 2017 American College of Clinical Pharmacy Annual Meeting.
15. Bowen AM, McGuire M, Mees L, Davidson R, Celaya T*, Faqeer Z*, Lopez DJ*, Nguyen C*, Ojo T, Daines CL, **Phan H**. Coproduction in the development and implementation of a behavioral health screening program in a CF care center. *Pediatr Pulmonol*. 2017;52(S47):387. 2017 North American Cystic Fibrosis Conference.
16. Repholz A*, Matthias KR, Sivinski J*, Lew D*, Tien Q*, Daines CL, **Phan H**. Extended infusion of beta-lactams in the treatment of acute pulmonary exacerbations in cystic fibrosis: a pilot evaluation of safety and efficacy outcomes. *Pediatr Pulmonol*. 2017;52 Suppl 47:504. 2017 North American Cystic Fibrosis Conference.
17. **Phan H**, Hobart C, Tongchinsub PP, Daines MO. Combination omalizumab and mepolizumab in an adolescent with severe persistent allergic asthma. *American Journal of Respiratory and Critical Care Medicine* 2018;197:A5577. 2018 American Thoracic Society.
18. **Phan H**, Sawicki GS, Quittner AL, Daines CL, Nasr SZ, Butcher JL, Psoter K, Riekert KA. Medication beliefs among adolescent and adult patients prescribed cystic fibrosis transmembrane protein regulator (CFTR) modulators. *Pediatr Pulmonol*. 2018;53(S2): 425. 2018 North American Cystic Fibrosis Conference.
19. Deshpande D, **Phan H**, M. Borgstrom R. Miller, Brown MA. Caregiver knowledge as a predictor of length of stay in children hospitalized with asthma exacerbations [Abstract]. *Ann*

Allergy Asthma Immunol, 2018 Nov; 121(5), supplement, S9. 2018 American Academy of Allergy, Asthma, Immunology.

20. Lowe AA*, Gerald JK, Black S, Begay J, **Phan H**, Bender B, Gerald LB. Caregiver Reported Asthma Outcomes of School-Age Navajo Children in Tuba City, Arizona. Am J Respir Crit Care Med. 2019; 199:A4071. 2019 American Thoracic Society.
21. Lam M*, Bradshaw S*, Seto D*, Sharpe A, Jackson K, Hall-Lipsy E, Bowen A, **Phan H**. Use and Perspectives of Complementary Alternative Medicine in the Cystic Fibrosis Community. Pediatr Pulmonol. 2019; 54(2): 376. 2019 North American Cystic Fibrosis Conference.
22. Seto D*, Romero-Aleshire J*, Eastep T*, Bowen A, Sharpe A, Hall-Lipsy E, **Phan H**. Medication Education in Cystic Fibrosis (CF) Care: Perspectives of Key Stakeholders in the CF Community. Pediatr Pulmonol. 2019; 54(S2): 379-380. 2019 North American Cystic Fibrosis Conference.
23. Murihead C, Palmrose Q, Condren M, Rotlolo SM, Pettit RS, Gill M, **Phan H**. Survey: Evaluation, Documentation, and Education about Cannabis Use in Cystic Fibrosis. Pediatr Pulmonol. 2019; 54(S2):379. 2019 North American Cystic Fibrosis Conference.
24. **Phan H**, Aina B, Liu AH, Kobernick A, Bryson D, Lowe AA, Gerald LB, Bender BG. Pharmacists' Contributions in A Community Asthma Program in Navajo Nation, NNR-16.247. Am J Respir Crit Care Med 2020;201:A4280. 2020 American Thoracic Society.
25. Frederick, CA, Dunn KM, Green A, Hall S, Lindwall J, Maggs J, Moffett K, **Phan H**, Prickett M, Saavedra MT, Oates GR. Perspectives of The CF Community on Research Ideas Related to Self-Management and Adherence. Pediatr Pulmonol. 2020; 55(S2): 271. 2020 North American Cystic Fibrosis Conference.
26. **Phan H**, Daines CL, Woo T, Goodman, A, Sawicki GS, Riekert KA. Design And Validation of The CF Medication Questionnaire (CF-MQ). Pediatr Pulmonol. 2020; 55(S2): 264. 2020 North American Cystic Fibrosis Conference.
27. **Phan H**, Hall-Lipsy E, McCulley K*, Vuong E*, Anderson K*, Sharpe A, Bowen A. Perspectives of people with CF and caregivers regarding medication access and telehealth in CF care during the COVID-19 pandemic. J Cys Fibr. 2021; 20(S2): S116. 2021 North American Cystic Fibrosis Conference.
28. Enochs C, Filbrun A, Iwanicki C, Moraniec H, Lehrmann J, Stiffler J, Dagher S, Tapley C, **Phan H**, Raines R, Nasr SZ. Development of an interdisciplinary telemedicine care model in a pediatric cystic fibrosis center. J Cys Fibr. 2021; 22:(S1): S50. 2021 North American Cystic Fibrosis Conference.
29. Ergenekon A, Cenk Yanaz M, Guliyeva A, M. Yuksel, Selçuk M, Karabulut S, Metin Cakar N, Uzunoglu B, Tastan G, Kocamaz D, **Phan H**, Gokdemir Y, Erdem Eralp E, Nasr SZ, Karakoc F. Outcomes of patients with intermittent versus continuous access to CFTR modulator therapy in Turkey. J Cys Fibr. 2023; 22:(S3): S221. 2023 North American Cystic Fibrosis Conference.
30. Ergenekon A, Cenk Yanaz M, Guliyeva A, M. Yuksel, Selçuk M, Karabulut S, Metin Cakar N, Uzunoglu B, Tastan G, Kocamaz D, **Phan H**, Gokdemir Y, Erdem Eralp E, Nasr SZ, Karakoc F. Outcomes of cessation of CFTR modulator therapy: an unfortunate experience. J Cys Fibr. 2023; 22:(S3): S228-S229. 2023 North American Cystic Fibrosis Conference.

POSTER PRESENTATIONS – WITHOUT PUBLISHED ABSTRACT:

1. **Phan H**, Pai VB, Stephens, JS, Puthoff T, Nahata MC. Safety and efficacy of inhaled aminoglycoside in mechanically ventilated premature infants for the treatment of symptomatic Gram-negative bacilli tracheitis. ACCP Annual Meeting. Denver, Colorado. October 2007.
2. Phan H, Pai VB, Mehta B, Rescheke K, McDowell M, Cable G, Nahata MC. Basic pharmacotherapy knowledge of childcare providers on general pediatric health care, asthma, and diabetes mellitus: A pilot study. ASHP Midyear Clinical Meeting. Las Vegas, Nevada. December 2007.
3. **Phan H**, Griffith J, Casavant MJ, Nahata MC, Baker SD. Evaluation of zolpidem exposures in the pediatric population. North American Congress of Clinical Toxicology (NACCT) Annual Meeting, Toronto, Ontario, Canada, September 2008.
4. **Phan H**, Porter K, Nahata M. Prescribing trends for medications in the treatment of adolescents and young adults with Type 2 diabetes mellitus. Academy Managed Care Pharmacy (ACMP) Educational Meeting. San Antonio, TX. October 2009.
5. **Phan H**, Matthias KR. Gender-Associated Perceptions of Pharmacy Practice Faculty. Original Research Poster Presentation. American Association of Colleges of Pharmacy, Annual Meeting, Chicago, IL, July 2013.
6. Smith AV*, Matthias KR, **Phan H**. Evaluating treatment options for NAP1 versus non-NAP1 strains of Clostridium difficile infection among pediatric patients at an academic hospital. Pediatric Pharmacy Association (PPA) Annual Conference. Indianapolis, Indiana. May 2013.
7. Weddle P*, Warholak TL, **Phan H**. Pediatric Education Diagnosis Survey (PEDS): Analyzing Pediatric Education within PharmD Program in the US. Pharmacotherapy. 2013 Pediatric Pharmacy Association Annual Conference. Indianapolis, Indiana. May 2013.
8. Cooley JH, Bhattacharjee S, **Phan H**. Career Preparation for PharmD Students: From Job Networking to Enhancing Interviewing Skills. AACP School Poster Presentation. AACP Annual Meeting. Anaheim, CA. July 2016.
9. **Phan H**, Brown MA. Pharmacist collaborative practice in the management of high-risk pediatric asthma. Professional Poster Presentation, Evaluative Study. American Society of Health-System Pharmacists Midyear Clinical Meeting. Las Vegas, NV. December 2016. <http://www.ashp.org/menu/Events/Conferences/Abstract-Archives>.
10. Cooley JH, Cameron CK, Bhattacharjee S, **Phan H**. Helping PharmD Students Develop Self-Awareness: A Longitudinal Approach. AACP School Poster Presentation. AACP Annual Meeting. Nashville, TN. July 2017.
11. Anderson K*, Gerald LB, Hall-Lipsy E, McCulley K*, Vuong E*, **Phan H**. Pharmacists' Perspectives on Inhaled Bronchodilator Use and Stock Inhaler Access for School-Age Children. Pediatric Pharmacy Association. 2020 Fall Conference. Virtual. September 2020.
12. **Phan H**, Popov V, Thiel M. Development of an Interprofessional Shared Decision-Making Teaching Tool (IP-SDM-T2). University of Michigan Health Professions Education Day, April 2022. Also Presented at 2022 Nexus Interprofessional Conference (virtual), August 2022.

13. Nguyen M*, Ivy C*, Zhang R*, Thompson AN, Sabourin A, Nasr SZ, **Phan H**. Development and Evaluation of an Asynchronous, Hybrid Pediatric Cystic Fibrosis (CF) Clinical Pharmacy Care Model and CF Pharmacy Scoring (CF-RxS) Tool. Pediatric Pharmacy Association Fall Conference. Columbus, OH. September 2022.
14. Kim A*, Thompson AN, Axon R, Sabourin A, Davies M, Shannon C, Nasr SZ, **Phan H**. A Systematic Scoping Review Contributions of Pharmacist and Pharmacy Technicians in Cystic Fibrosis Care. American College of Clinical Pharmacy Global Conference. San Francisco, CA. October 2022.
15. Robinson C*, Kadouh N, **Phan H**. Significant Gastrointestinal-Related Adverse Effects After Change from Ivacaftor to Elexacaftor/Tezacaftor/Ivacaftor. 2024 Pediatric Pharmacy Association Annual Meeting. Minneapolis, MN, May 2024.

INVITED INTERNATIONAL CONFERENCE PLATFORM PRESENTATIONS:

*Key: presenter is underlined, * denotes student, resident, or postdoc at the time*

1. “Drug Toxicity in Cystic Fibrosis (CF): Hepatotoxicity, Other Adverse Effects, and CF Drug Therapy: Risk versus Benefit.” Symposium Session. North American Cystic Fibrosis Conference. Baltimore, Maryland. October 2010.**
*Accompanying published abstract: Phan H. Hepatotoxicity, other adverse effects, and CF drug therapy: risk versus benefit. *Pediatr Pulmonol*. 2010; (45)33: 206-208.*
2. “What & Why in Drug Therapy: An International Approach.” 2011 North American Cystic Fibrosis Conference. Orlando, Florida. October 2011.
3. “Cystic Fibrosis Drug Therapy for the Non-Pharmacist – Issues and Answers.” Short Course Lecture. 2012 North American Cystic Fibrosis Conference. Orlando, Florida. October 2012.
4. “Pediatric Pharmacotherapy.” India Association of Colleges of Pharmacy Annual Meeting. Hyderabad, India. October 2013.
5. “PharmD Curriculum and the Path to Clinical Pharmacy Practice in U.S.” Visiting Professor Lecture to Faculty and Students. Malla Reddy College of Pharmacy. Hyderabad, India. October 2013.
6. “Cystic Fibrosis (CF) Collaborative Research – Path to a Future Practice Research Based Network for CF Pharmacists.” 2013 North American Cystic Fibrosis Conference. Baltimore, MD. October 2013.
7. Daines CL, Drake G, McGuire M, Parker M, Settle P, Werchan B, Phan H. Redesigning inpatient cystic fibrosis care. 2013 North American Cystic Fibrosis Conference. Platform Presentation.
*Accompanying published abstract: Daines CL, Drake G, McGuire M, Parker M, Settle P, Werchan B, Phan H. Redesigning inpatient cystic fibrosis care. *Pediatr Pulmonol*. 2013;48(S36): 392.*
8. “The CF Pharmacist Practice Based Research Network (PBRN).” 2014 North American Cystic Fibrosis Conference. Atlanta, Georgia. October 2014.

9. "The CF Pharmacist Practice Based Research Network (PBRN): Updates and Brainstorming." 2015 North American Cystic Fibrosis Conference. Phoenix, Arizona. October 2015.
10. "Easier Said Than Done: Adherence." Clinical Controversies in CF Care, Pharmacist Discipline Session. Session Chair and Speaker. Pharmacist Discipline Session. 2015 North American Cystic Fibrosis Conference. Phoenix, Arizona. October 2015.
11. "To Take or Not to Take: A Practical Approach to Adherence." Roundtable Session Leader. 2016 North American Cystic Fibrosis Conference. Orlando, FL. October 2016.
12. "The CF Pharmacist Practice-Based Research Network: 2015-16 Updates & New Study Ideas." Session Chair and Speaker. Pharmacist Discipline Session. 2016 North American Cystic Fibrosis Conference. Orlando, FL. October 2016.
13. "Redesigning Clinic Workflow to Improve Outpatient Cystic Fibrosis Care." Invited Platform, Workshop Session. 2016 North American Cystic Fibrosis Conference. Orlando, FL. October 2016.
14. "The CF Pharmacist Practice-Based Research Network: 2017 Updates & New Study Ideas." Session Chair and Speaker. Pharmacist Discipline Session. 2017 North American Cystic Fibrosis Conference. Indianapolis, IN. November 2017.
15. "Sustaining Daily Care." Clinical Roundtable. 2017 North American Cystic Fibrosis Conference. Indianapolis, IN. November 2017.
16. "Coproduction in the development and implementation of a behavioral health screening program in a CF care center." Invited Platform, Workshop Session. 2017 North American Cystic Fibrosis Conference. Indianapolis, IN. November 2017.
17. "Gastroesophageal Reflux in CF." Advanced Pharmacology for the CF Provider. Short course leader and faculty. North American Cystic Fibrosis Conference. Denver, CO. October 2018.
18. "Controversial Practices: Helpful or Harmful." Invited Symposium Speaker. 2018 North American Cystic Fibrosis Conference. Denver, CO. October 2018.
*Accompanying published abstract: **Phan H***. Considerations in the safety and efficacy of dietary supplements intended to promote lung health. *Pediatr Pulmonol.* 2018; 53(S2): 65-66.*
19. "Pharmacogenomic Principles of Cystic Fibrosis and Interstitial Pulmonary Fibrosis" American College of Clinical Pharmacy (ACCP) Global Conference. Seattle, WA. October 2018.
20. "Not Your Cookie Cutter Case: Complex Case Scenarios in Advanced CF Pharmacotherapy." Short course leader and faculty. 2019 North American Cystic Fibrosis Conference. Nashville, TN. October 2019.
21. "Caring for CF Patients Across the Continuum" Discipline Session Speaker. North American Cystic Fibrosis Conference. Nashville, TN. November 2019.

22. “The Pharmacist Will See You Now: PharmD Telemedicine Visits in CF Care”. Discipline Session Speaker. North American Cystic Fibrosis Conference. Virtual. November 2021.
23. . “Feasibility and acceptability of a medication schedule mobile application as part of CF care: a real-world, mHealth study in CF clinics.” North American Cystic Fibrosis Conference. Virtual. November 2021.**
*Accompanying published abstract: **Phan H***, Daines CL, Green A, Camick N, Goodman A, Woo T, Riekert KA. Feasibility and acceptability of a medication schedule mobile application as part of CF care: a real-world, mHealth study in CF clinics. J Cys Fibr. 2021; 20(S2): S140. 2021 North American Cystic Fibrosis Conference. Poster and Platform Presentation.*
24. “Wait There Is More’ - Hidden Effects of Highly Effective Modulatory Therapy (HEMT)”. Discipline Session Co-Chair. North American Cystic Fibrosis Conference. Philadelphia, PA. November 2022.
25. “Sustaining Daily CF Therapies: Approaches & Understanding of Adherence”. Workshop Co-Chair. North American Cystic Fibrosis Conference. Philadelphia, PA. November 2022.
26. “A to Zzzz's: Strategies for CF Sleep Disorders”, “Updates on Sleep Disorders in CF.” Workshop Co-Chair and Speaker. North American Cystic Fibrosis Conference. Phoenix, AZ. November 2023.
27. “Existing Research on THC: The Latest Decree on THC.” Symposium Speaker. North American Cystic Fibrosis Conference. Phoenix, AZ. November 2023.
28. “Documentation practices of cystic fibrosis pharmacists: an opportunity for discipline-wide quality improvement.” 2023 North American Cystic Fibrosis Conference. Phoenix, AZ. Poster and Platform Presentation.
*Accompanying published abstract: **Phan H**, Rosano J, Huntman, Safirstein J, Kormelink L, Seamans E, Shanley L. Documentation practices of cystic fibrosis pharmacists: an opportunity for discipline-wide quality improvement. J Cys Fibr. 2023; 22:(S1): S229.*

INVITED NATIONAL CONFERENCE PLATFORM PRESENTATIONS:

1. “Cultural Considerations in Clinical Practice.” 2011 Annual Pediatric Pharmacy Association (PPA) Meeting. Memphis, Tennessee. March 2011.
2. “Pediatrics and Geriatrics: Integration or Specialization in the Curriculum?” 2011 American Association of Colleges of Pharmacy Annual Meeting. San Antonio, Texas. July 2011.
3. “Drug Dosing in Critically Ill Obese Pediatric Patients.” 2012 American Society of Health-System Pharmacists (ASHP) Summer Meeting. Baltimore, Maryland. June 2012.
4. “Late Breakers: Pediatrics – D is for Deficiency in the PICU.” 2012 American College of Clinical Pharmacy (ACCP) Annual Meeting. Hollywood, Florida. October 2012.
5. “Pediatrics: Little Patients, Big Rewards.” Student Session. 2013 Pediatric Pharmacy Association (PPA) Annual Conference. Indianapolis, Indiana. May 2013.
6. “Drug Dosing in Obese Pediatric Patients.” 2013 American Society of Health-System Pharmacists (ASHP) Summer Meeting. Minneapolis, Minnesota. June 2013.

7. "Transitioning from PGY2 Resident to PGY2 Preceptor." 2013 American Society of Health-System Pharmacists (ASHP) Summer Meeting. Minneapolis, Minnesota. June 2013.
8. "Little Patients, Big Dilemmas: Updates in Pediatrics." Session Moderator. 2013 American College of Clinical Pharmacy (ACCP) Annual Meeting. Albuquerque, New Mexico. October 2013.
9. "Off-Label Use in the Health System: Focus on Pediatrics." 2014 American Pharmacists Association (APhA) Annual Meeting. Orlando, Florida. March 2014.
10. "Patient Safety in Special Populations: A Focus on Drug Dosing in Obesity – Pediatrics." 2014 American Society of Health-System Pharmacists (ASHP) Midyear Clinical Meeting. Anaheim, California. December 2014.
11. "Pediatric Pulmonology." Presented at the 2105 Fall Pediatric Pharmacy Association (PPA) Meeting, Board Certification Board Preparation Course. Houston, Texas. September 2015.
12. "Take Good Care: Managing Children's Medications." 2016 American Pharmacists Association (APhA) Annual Meeting. Baltimore, MD. March 2016.
13. "Best Practices for Pharmacists When Caring for Pediatric Patients." 2017 American Pharmacists Association (APhA) Annual Meeting. Baltimore, MD. March 2017.
14. "To Inhale or Not to Inhale: Insights into Aerosolized Medications in the Pediatric Population." 2017 American College of Clinical Pharmacy (ACCP) Annual Meeting. Phoenix, AZ. October 2017.
15. "Do it for the Kids: Off-Label and Specialty Medication Management in Pediatrics." 2018 American Pharmacists Association (APhA) Annual Meeting. Nashville, TN. March 2018.
16. "Myths and Truths of Medication Use in Children." 2019 American Pharmacists Association (APhA) Annual Meeting. Seattle, WA. March 2019.
17. "Partnership in Cystic Fibrosis (CF) Care: Communication and Collaboration When Considering Complimentary Therapies." Cystic Fibrosis Research Institute. 35th National Cystic Fibrosis Education Conference. July 31, 2022. Virtual.
18. "Oh, The Places You'll Go": Navigating Transformations as a Leader in Your Career." 2022 Pediatric Pharmacy Association (PPA) Fall Conference. September 23, 2022.

INVITED REGIONAL, STATE, AND LOCAL CONFERENCE PLATFORM PRESENTATIONS:

1. "Behavior Issues in Children: Major Depressive Disorder and ADHD." Presented at the 2009 Annual Southwest Clinical Pharmacy Seminar. Tucson, Arizona. February 2009.
2. "Pediatric Seizures 101 - Clinical Pearls for the Non-Pediatric Pharmacist." Presented at the 2010 Arizona Pharmacy Alliance, Health-System Academy Conference. Phoenix, Arizona. April 2010.
3. "Medications in School." 2011 Annual Arizona School Healthcare Conference. Phoenix, Arizona. September 2011.

4. "Controversies about Medications and Asthma: From Literature to Practice." Presented at the Annual Southwest Clinical Pharmacy Seminar. Tucson, Arizona. March 2012.
5. "Discovering Tomorrow." Keynote Address, 2012 Lotus Laureate Graduation Convocation. Asian Pacific American Student Affairs, The University of Arizona. Tucson, Arizona. May 2012.
6. "Updates in Acute Care and Outpatient Therapy in Pediatric Patients." Presented at the Arizona Pharmacists Association Annual Meeting. Tucson, Arizona. June 2013.
7. "Cystic Fibrosis Drug Therapy: A Review." Presented to physicians, nurses, social workers, and pharmacists. The University of Arizona Pediatric Pulmonary Center. Tucson, Arizona. September 2013.
8. "Cystic Fibrosis: Drug Therapy Dilemmas and Interdisciplinary Solutions." Grand Rounds at Phoenix Children's Hospital. August 2013.
9. "Medication Adherence in Pediatric Patients." Grand Rounds at Phoenix Children's Hospital. August 2013.
10. "Medication Use in School: Clinical & Legal Issues." 2014 Annual Arizona School Healthcare Conference. Tucson, Arizona. February 2014.
11. "A Breath of Fresh Air: Updates in Pediatric Asthma and Bronchiolitis." Presented at the 2014 Annual Southwest Clinical Pharmacy Seminar. Tucson, Arizona. March 2014.
12. "Medication Use in the School Setting." Presented at the 2014 Annual Region XI School Healthcare Training Event, San Diego, California. June 2014.
13. "Side Effects of Inhaled Corticosteroids: Should We Worry?" Presented at the 2015 Annual Arizona School Healthcare Conference. Phoenix, Arizona. February 2015.
14. "Pharmacotherapy Therapy Through the Lifespan I: Very Young and School-Aged Children." 9th Annual Arizona Asthma & Allergy Clinical Conference. Mesa, Arizona. October 2015.
15. "Medications in the School Setting." 2016 Annual Arizona School Healthcare Conference. Tucson, Arizona. January 2016.
16. "Asthma Pharmacotherapy in Very Young and School-Aged Children." 49th Annual Southwest Clinical Pharmacy Seminar. Tucson, AZ. February 2016.
17. "Alternative treatment options for pediatric seizure disorders." California School Nurse Association Conference. San Jose, CA. April 2016.
18. "Asthma management in the school setting." Sunnyside School District. Tucson, AZ. August 2016.
19. "The new kids on the block for pharmacists: biologics in management of asthma." Arizona Asthma Coalition Conference. Pharmacist Track Session. Phoenix, AZ. October 2016.
20. "What's new on the horizon for management of asthma? An update on biologics in management of asthma." Clinical Track Session (MD/DO/NP/PA). 2016 Arizona Asthma Coalition Conference. Phoenix, AZ. October 2016.

21. "The role of interprofessional teams in managing asthma & allergy: a panel discussion." 2016 Arizona Asthma Coalition Conference. Phoenix, AZ. October 2016.
22. "Medication Use in Schools." Sunnyside School District. Tucson, AZ. March 2017.
23. "Navigating the Muddy Waters of Drug Interactions in CF Drug Therapy." 2017 Mountain West Cystic Fibrosis Conference. Birmingham, Alabama. March 2017.
24. "Asthma management in the school setting." Amphi School District. Tucson, AZ. April 2017.
25. "Partnerships with Patients and Families: Coproduction of Asthma Management." 2017 Arizona Asthma Coalition Conference. Phoenix, AZ. October 2017.
26. "Medication Use in Schools: An Update on the Stock Inhaler Program." 2018 Annual Arizona School Healthcare Conference. Tucson, Arizona. January 2018.
27. "Easier Said Than Done: Easier Said than Done - Adherence: Evidenced Based Approaches and Future Directions." 2019 Arizona Asthma Coalition Conference. Phoenix, AZ. October 2019.
28. "Going "Back to Where I Came From": Reflections of a 1st generation AAPI." Webinar. The University of Arizona Health Sciences, Department of Equity, Diversity, & Inclusion. May 2021.
29. "Recent Advances in the Treatment of Cystic Fibrosis (CF)" Tom D. Rowe 70th Annual Pharmacy Lectures. The University of Michigan. Virtual. October 2021.
30. "Development of an Interprofessional Shared Decision-Making Teaching Tool (IP-SDM-T2)." University of Michigan Health Professions Education Day 2022. Lightning Talk (was also a poster presentation).
31. "More to CF Medications Than CFTR Modulators" The University of Florida Pediatric Pulmonary Division. Invited Lecture. April 2022.

PROFESSIONAL, GRADUATE, AND UNDERGRADUATE TEACHING

GRADUATE STUDENTS:

University of Arizona

2008 – 2013 Courtney Wheatley, PhD (Graduate Dissertation Committee Member)

DIDACTIC TEACHING:

The Ohio State University, College of Pharmacy (2006 – 2008)

Years	Course Role(s)	Topic(s) # of hours	Learner Type Class Size
Required Curriculum			
2006 – 2008	PH 734D, Clinical Pharmacokinetics • Recitation facilitator	Antimicrobials, Pediatrics 2 hours	2 nd year PharmD ~40 students/class

2006 – 2008	PH 781, Pathophysiology and Therapeutics V • Case Facilitator	Endocarditis, Meningitis 4 hours	3 rd year PharmD ~80-120 students/class
2006 – 2008	PH 782, Pathophysiology and Therapeutics VI • Instructor/Lecturer	Cystic Fibrosis 2 hours	3 rd year PharmD ~80-120 students/class
2006 – 2008	PH 617, Introduction to Research • Instructor/Lecturer	Challenges in Pediatric Research 1 hour	2 nd year PharmD ~80-120 students/class
Elective Curriculum			
2006 – 2008	PH 715, Pediatric Pharmacotherapy • Instructor/Lecturer	Major Depressive Disorder in Children/Adolescents, Pediatric Immunizations 2 hours	2 nd , 3 rd year PharmD ~40 students/class

The University of Arizona, College of Pharmacy (2008 – 2020)

Years	Course Role	Topics	Learner Type Class Size
Required Curriculum			
2008 – 2010	PhPr 875c Pathophysiology and Therapeutics II • Module Coordinator • Instructor/Lecturer	Introduction to Pediatrics, Cystic Fibrosis, Common Pediatric Respiratory Illnesses, Acute Otitis Media, Accidental Exposures, Patent Ductus Arteriosus, Neonatal Sepsis 8 hours	3 rd year PharmD ~80-120 students/class
2009 – 2011	PhPr 812, Nonprescription Medications and Devices • Instructor/Lecturer	Pediatrics and Self-Care	2 nd year PharmD ~80-120 students/class
2009 – 2011	PhPr 822, Pharmacology and Pharmaceutical Chemistry • Case discussion Facilitator	Case topics varied by year, based on availability	2 nd year PharmD ~80-120 students/class
2009 – 2019	PhPr 814, Preventive Health • Course Coordinator • Instructor/Lecturer	Immunizations, Adult Prevention/Screenings, and Maternal/Child Health 10 hours	2 nd year PharmD ~80-120 students/class
2009 – 2019	PhPr 805b, Introduction to Pharmacy Practice • Instructor/Lecturer	Pediatric Pharmacy Practice 1 hour	1 ST year PharmD ~80-120 students/class
2010 – 2019	PhPr 875b Pathophysiology and Therapeutics II • Module Coordinator • Instructor/Lecturer	Pediatrics 101, Drugs and Lactation, Infant Nutrition/Formulas, Autism, Common Pediatric Infectious Diseases, Accidental Exposures, Congenital Heart Disease, Conjunctivitis, Asthma, Enuresis, Cystic Fibrosis (chronic care), Nephrotic Syndrome, Neonatal Sepsis	2 nd year PharmD ~80-120 students/class

		10 hours	
2016 – 2020	PhPr 875a, Pathophysiology and Therapeutics I <ul style="list-style-type: none"> Module Coordinator Instructor/Lecturer Case discussion Facilitator 	Acute Otitis Media, Pharyngitis, Sinusitis, Pediatric Community Acquired Pneumonia, Cystic fibrosis (acute exacerbation), Bronchiolitis, Croup, Pertussis 8 hours	2 nd year PharmD ~80-120 students/class
2016 – 2020	PhPr 811, Advanced Patient Care <ul style="list-style-type: none"> Instructor/Lecturer 	Asthma 2 hours	3 rd year PharmD 80-100 students/class
2016 – 2020	PhPr 885A, Pharmacokinetics	Pediatrics 2 hours	3 rd year PharmD ~80-120 students/class
2017	PhPr 804, Communication Skills and Human Behavior	Communicating with Children and Caregivers (1 hour)	1 st year PharmD ~80-120 students/class
2019	PhPr 860, Pharmacotherapeutics II (new curriculum)	Asthma (2 hours) Attention Deficit Hyperactivity Disorder (ADHD) (1 hour)	2 nd year PharmD ~80-120 students/class
2019	PhPr 809 Beginning Pharmacy Practice	Pediatric Pharmacy (1 hour)	1 st year PharmD ~80-120 students/class
2019	PCOL 310 Drug Approval: The 3 billion Dollar Bet <ul style="list-style-type: none"> Instructor/Lecturer 	Clinical Trials – Perspectives of a Clinician and Investigator 1 hour	BSPS Students ~40 students/class
Elective Curriculum			
2014 – 2019	PhPr 828 Pharmacy Health Disparities in the U.S. <ul style="list-style-type: none"> Instructor/Lecturer 	Maternal & Child Health: Impact of Life Course on Health 1 hour	2 nd and 3 rd year PharmD students ~40 students
2009 – 2011	PhPr 887, Individualized Medicine: Applied Pharmacogenetics for Pharmacy Students <ul style="list-style-type: none"> Instructor/Lecturer 	Cystic Fibrosis and Asthma 2 hours	2 nd and 3 rd year PharmD students ~40 students
2009 – 2011	PhPr 845, Medication Use and the US Health Care System <ul style="list-style-type: none"> Instructor/Lecturer 	Pediatrics in the Health-Care System	

BSPS = Bachelor of Science, Pharmaceutical Science

University of Arizona, College of Pharmacy, MCHB PPC TRAINING GRANT TRAINEES:
(Key: Maternal Child Health Bureau (MCHB), Pediatric Pulmonary Center (PPC), Long Term Trainee (LT), Advanced Medium Term (AMT), Medium Term Trainee (MT))

- 2010 – 2011 Nicole Even, PharmD (MT).
- 2011 – 2012 Allison George, PharmD (MT)
- 2012 – 2013 Anita Nayar, PharmD (MT)
- 2013 – 2014 Mary Babico, PharmD (MT)
- 2014 – 2015 Alex Lopilato, PharmD (MT)
Tara Warren, PharmD (MT)
- 2015 – 2016 Richard Haftmann, PharmD (AMT)

2016 – 2017	Ashley Repholz, PharmD (MT)
2017 – 2018	Catherine Hobart, PharmD (LT)
2017 – 2019	Tyler Eastep, PharmD Candidate (LT)
2018 – 2019	Melanie Lam, PharmD (AMT), Stephanie Bradshaw, MS Nutrition Candidate (LT)
2018 – 2020	Kalia Anderson, PharmD Candidate (LT)
2019 – 2020	Elizabeth Vuong, PharmD Candidate (LT) Kathryn McCulley, PharmD Candidate (LT)
2019 – 2020	Collin Strunk, PharmD (AMT)

The University of Arizona, School of Sociology

Years	Course Role(s)	Topic(s)	Learner Type Class Size
Required Curriculum			
2016	CHS 306, Interprofessional Care <ul style="list-style-type: none"> Instructor/Lecturer 	Beyond the Pharmacy Counter: Clinical Pharmacy 1 hour	Undergraduate ~100 students/class

The University of Arizona, College of Medicine

Years	Course Role(s)	Topic(s)	Learner Type Class Size
Required Curriculum			
2008 – 2020	MED 821, Life Course <ul style="list-style-type: none"> Instructor/Lecturer 	Introduction to Pediatric Pharmacology 2 hours	2 nd year MD ~100 students/class

The University of Michigan, College of Pharmacy (2020 – Present)

Years	Course Role(s)	Topic(s)	Learner Type Class Size
Required Curriculum			
2021 - Present	P730 PharmD Seminar <ul style="list-style-type: none"> Instructor 	Pediatric or Pulmonary Topics; PharmD Investigation Project Presentations	1-2 students mentored/year
2021 - Present	P719-739 PharmD Investigations <ul style="list-style-type: none"> Instructor 	Pediatric or Pulmonary Topics	1-2 students mentored/year
2021 - 2023	P602 Therapeutic Problem Solving I <ul style="list-style-type: none"> Instructor 	Asthma, COPD, Associated Labs and SPI 13.5 hours	2 nd year PharmD ~80 students/year
2022	P612 Therapeutic Problem Solving II <ul style="list-style-type: none"> Instructor 	Pediatric Calculations (class session facilitator only), Cystic Fibrosis 3 hours	2 nd year PharmD ~80 students/year
2023 - Present	P200 The Science of Medicines <ul style="list-style-type: none"> Instructor 	Smaller Patients, Bigger Challenges: Pediatric Drug Development and Clinical Trials; Data Safety Monitoring in Clinical Trials: The What, Why, Who, and How: A	BSPS students ~40 students/class

		Case Study of Advances in Pharmacotherapy and Extended Life Expectancy: Cystic Fibrosis; Off Label Medication Use in Pediatrics: Common Practice vs Controversy 4 hours	
2023 – Present	P302 Personal Professional Development <ul style="list-style-type: none"> • Course Coordinator • Instructor 	Personal Vision and Mission; Document Your Professional Self; Workplace Readiness; Time Management; Using Your Strengths for Your Dream Job; Conflict Management and Teamwork; Understanding Your Values	BSPS students
Pending 2025	P612 Therapeutic Problem Solving II	Asthma, COPD	2 nd year PharmD ~80 students/year
Elective Curriculum			
2021 - Present	P647 Pediatric Elective Instructor	Pediatric Ambulatory Care 1 hour	2 nd and 3 rd year PharmD students ~40 students

BSPS = Bachelor of Science, Pharmaceutical Science

PRIMARY, PHARMD INVESTIGATION (PDI) ADVISING

Class of 2024	Chelsey Ivy Ruixi (Grace) Zhang Noreen Mika
Class of 2025	Georgia Warmbein Delaney Fornwalt
Class of 2026	Katherine Vitou

The University of Michigan, School of Nursing

Years	Course Role(s)	Topic(s)	Learner Type Class Size
Required Curriculum			
2021 - Present	P620 Pharmacotherapeutics, 2021-2023: Instructor Fall 2024-Present: Coordinator	2021-2023: Asthma, COPD, Allergic Rhinitis, 4 hours 2024-Present: Basic Principles, Dose-Response Relationships, Pediatric Considerations, Drug Use in Pregnancy and Lactation, Asthma, COPD, Allergic Rhinitis, 20 hours	DNP students ~120 students/class

Pending 2025	P621 Pharmacotherapeutics Winter 2025-Present: Coordinator	None	DNP students
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The University of Michigan, Medical School

Years	Course Role(s)	Topic(s)	Learner Type Class Size
Elective Curriculum			
2023 - Present	LHS 680 Teamwork for Healthcare	Interprofessional Care Teams – “It Takes a Village: Interprofessional Care of Children with Chronic Conditions(s) 1.5 hours	MS Health Infrastructure and Learning Systems students ~10 students

RESIDENCY AND FELLOWSHIP TEACHING**THE UNIVERSITY OF ARIZONA - COLLEGE OF PHARMACY**

Years	Rotation	# of Learners/Year
Advanced Pharmacy Practice Experience (APPE)		
2008 – 2010	Acute Care Pediatric Pulmonology	4-6
2009 – 2020	Ambulatory Care Pediatric Pulmonology (Cystic Fibrosis and Severe Asthma Clinics)	4-6
2009 – 2020	Academia Elective	1-2

BANNER UMC-TUCSON PHARMACY RESIDENCY PROGRAMS

Years	Rotation	# of Learners/Year
Postgraduate Year 1 (PGY1) Pharmacy Practice Resident		
2008 – 2020	Pharmacy Resident Scholars in Teaching and Learning Program (PRSTL), Program Mentor	1-2
2008 – 2020	Ambulatory Care Pediatric Pulmonology (Cystic Fibrosis and Severe Asthma Clinics)	2-4
2008 – 2020	Academia	1-2
Postgraduate Year 2 (PGY2) Pediatric Pharmacy Resident		
2008 – 2020	Longitudinal, Ambulatory Care Pediatric Pulmonology (Cystic Fibrosis and Severe Asthma Clinics)	1
2008 – 2020	Academia	1
Postgraduate Year 2 (PGY2) Infectious Disease Resident		
2008 – 2020	Acute Care, Cystic Fibrosis/Pulmonology	1

RESIDENTS AS RESIDENCY PROGRAM DIRECTOR (RPD)

2010 – 2011 Nicole Even, PharmD (PGY2)
 2011 – 2012 Allison George, PharmD (PGY2)
 2012 – 2013 Anita Nayar, PharmD (PGY2)
 Manar Lashkar, PharmD (PGY2)

2013 – 2014 Mary Babico, PharmD (PGY2)
 2014 – 2015 Alex Lopilato, PharmD (PGY2)
 Tara Warren, PharmD (PGY2)

PRIMARY MENTOR, RESIDENT RESEARCH

2008 – 2009 Julie Alford, PharmD (PGY1)
 2009 – 2010 Karalea Jasiak, PharmD, BCPS (PGY1)
 2010 – 2011 Nicole Even, PharmD (PGY2)
 Allison George, PharmD (PGY1)
 2011 – 2012 Allison George, PharmD (PGY2)
 Manar Lashkar, PharmD (PGY1)
 2012 – 2013 Anita Nayar, PharmD (PGY2)
 Manar Lashkar, PharmD (PGY2)
 Mary Babico, PharmD (PGY1)
 William T. Foxx-Lupo, PharmD (PGY1)
 Amanda Peck PharmD (PGY1)
 2013 – 2014 Mary Babico, PharmD (PGY2)
 2014 – 2015 Alex Lopilato, PharmD (PGY2)
 Tara Warren, PharmD (PGY2)
 Richard Haftmann, PharmD (PGY1)
 2015 – 2016 Richard Haftmann, PharmD (PGY2)
 Ashley Repholz, PharmD (PGY1)
 2017 – 2018 Catherine Hobart, PharmD (PGY2)
 2018 – 2019 Melanie Lam, PharmD (PGY2)
 2019 - 2020 Collin Strunk, PharmD (PGY2)

THE UNIVERSITY OF ARIZONA, COLLEGE OF MEDICINE

Years	Clinical Teaching	# of Learners/Year
Pediatric Pulmonology Fellowship		
2008 – 2020	Pharmacology/Pharmacotherapy topics: cystic fibrosis pharmacotherapy, inhaler devices, pharmacokinetics, antibiotics for cystic fibrosis exacerbations, unusual pulmonary infections, patient/caregiver medication education <ul style="list-style-type: none"> • Dima Ezmigna, MBBS (2009-2012) • Anunya Hiranrattana, MD (2012 - 2015) • Ali Asseri, MD (2016-2018) • Nasim Khattab, MD (2016 - 2019) • Lauren Benton, MD (2019-2021) 	1-2
Pediatrics Residency Program		
2008 – 2020	Pediatric Pharmacotherapy Clerkship (elective, Primary Preceptor)	1
2008 – 2020	Resident Journal Club, Mentor	1-2
2008 – 2020	Teaching Seminars on topics: <ul style="list-style-type: none"> • Cystic fibrosis pharmacotherapy • Pharmacokinetics in pediatrics • Chronic asthma management, inhaler devices 	Topics presented annually

THE UNIVERSITY OF MICHIGAN, COLLEGE OF PHARMACY:

Years	Rotation	# of Learners/Year
Introductory Pharmacy Practice Experience (IPPE)		
2021 – Present	Ambulatory Care Pediatric Cystic Fibrosis Clinic	4-6
Advanced Pharmacy Practice Experience (APPE)		
2021 – Present	Ambulatory Care Pediatric Cystic Fibrosis Clinic	4-6

UNIVERSITY OF MICHIGAN HEALTH – MICHIGAN MEDICINE:

Years	Rotation	# of Learners/Year
Postgraduate Year 1 (PGY1) Pharmacy Practice Resident		
2021 – Present	Ambulatory Care Pediatric Cystic Fibrosis Clinic	2-4
2021 – Present	Academia	1-2
Postgraduate Year 2 (PGY2) Pediatric Pharmacy Resident		
2021 – Present	Longitudinal, Ambulatory Care Pediatric Cystic Fibrosis Clinic	4-6
2021 – Present	Academia	1

PRIMARY MENTOR, RESIDENT RESEARCH

2023 – 2024 Nour Kadouh, PharmD (PGY2)
Angela Chen, PharmD (PGY1)
2022 – 2023 Valerie Moore, PharmD (PGY1)
2021 – 2022 Michelle Nguyen, PharmD (PGY1)

PRIMARY MENTOR, RESIDENT WRITING PROJECT

2022 – 2023 Hannah Hammoud, PharmD (PGY2)
2021 – 2022 Joseph Elijah, PharmD (PGY1)

CHOSEN MENTOR, ALL RESIDENT PROGRAMS

2023 – 2024 Ashlyn Whitesell, PharmD

CLINICAL SERVICE DEVELOPMENT AND IMPLEMENTATION

Inpatient Clinical Pharmacy Service, Pediatric Pulmonary 2008 – 2020
Banner University Medical Center-Tucson, Diamond Children’s
Developed clinical pharmacy services and serves as clinical pharmacy specialist as part of the Section of Pediatric Pulmonology and Sleep. Services include patient care rounds, antimicrobial management and pharmacokinetic services, acute care plan development (i.e., therapy selection/dosing, laboratory monitoring, etc.), discharge therapy consults and patient/caregiver education.

Ambulatory Care Pharmacy, Cystic Fibrosis Clinics 2009 – 2020
Banner University Medical Center-Tucson, Tucson Cystic Fibrosis (CF) Clinic
Developed clinical pharmacy services and serves as clinical pharmacy specialist as part of the interdisciplinary patient care team in the CF Foundation-Accredited CF Center for both adults and pediatric patients. Services include chronic care management (drug selection/dosing,

laboratory monitoring, etc.), adherence assessment/intervention, medication reconciliation, drug information, patient/caregiver education, and outpatient exacerbation management (including medication selection/dosing, laboratory monitoring, etc.). *Recognized by the CF Foundation as one of the first CF Foundation Pharmacist Mentoring Program Sites in 2015.*

Ambulatory Care Pharmacy, General Pediatric Asthma Clinic 2009 – 2020

Banner University Medical Center-Tucson, Pediatric Pulmonary Center
Developed clinical pharmacy services and serves as clinical pharmacy specialist as part of the Pediatric Pulmonology Asthma Clinics. Services include medication management (chronic disease management including medication selection/dosing, laboratory monitoring, etc.) and adherence assessment and intervention, medication reconciliation, drug information, and patient/caregiver education.

Inpatient Clinical Pharmacy Consult Service, Adult Pulmonary/CF 2012 – 2020

Banner University Medical Center-Tucson, Diamond Children's
Developed clinical pharmacy services and serves as clinical pharmacy specialist as part of the Adult CF Inpatient Service. Services include patient care rounds, antimicrobial management and pharmacokinetic services, acute care plan development (i.e., therapy selection/dosing, laboratory monitoring, etc.), discharge therapy consults, and patient/caregiver education.

Ambulatory Care Pharmacy, Pediatric Severe Asthma Clinic 2014 – 2020

Banner University Medical Center-Tucson, Pediatric Pulmonary Center.
Developed clinical pharmacy services and serves as clinical pharmacy specialist, with a pediatric allergist, social worker, and home care nurse for children at high-risk for asthma related complications based on asthma severity classification or hospitalization events (e.g., admission to the intensive care unit). Different from the general asthma clinic, this clinic allocates additional dedicated time for asthma education, medication management, and home assessment with our home care RN. *Clinic establishment and outcomes evaluation supported by an ASHP New Investigator Grant (2014-2016).*

Role of a Pharmacy Technician in Cystic Fibrosis and Asthma Clinic 2016 – 2020

Banner University Medical Center-Tucson, Pediatric Pulmonary Center.
Obtained competitive funding to support pilot of pharmacy technician role in cystic fibrosis clinics (2016-2019 Cycle for CFF Expanding Outpatient Clinical Pharmacy Services Grant), with supplemental support from Banner Specialty Pharmacy. Role expanded to include pediatric asthma and support other medication access in the section of pediatric pulmonology. Demonstrated value through achieved metrics, resulting in clinic nursing/support staff budget to include coverage of this continued position.

Ambulatory Care Pharmacy, Pediatric Cystic Fibrosis Center 2020 - Present

C.S. Mott Children's Hospital, Michigan Medicine
Contributed to the development of clinical pharmacy services and serves as clinical pharmacy specialist as part of the interdisciplinary patient care team in the CF Foundation-Accredited Pediatric CF Center. Services include chronic care management (drug selection/dosing, laboratory monitoring, etc.), adherence assessment/intervention, medication reconciliation, drug information, patient/caregiver education, and outpatient exacerbation management (including medication selection/dosing, laboratory monitoring, etc.). Developed innovative telemedicine clinical pharmacy services offering various visit types including asynchronous routine visits, comprehensive medication education visits, adherence support visits, medication monitoring visits, home intravenous antibiotic follow up visits.

CLINICAL POST-GRADUATE TRAINING PROGRAM DEVELOPMENT:

Postgraduate Year 2 (PGY-2) Pediatric Pharmacy Residency Program 2009

Banner University Medical Center-Tucson, Diamond Children's

Developed and lead one of the first PGY-2 Pediatric Pharmacy Residency programs in the Southwest/West. Residents provide clinical pharmacy services to a variety of settings including pediatric intensive care unit, neonatal intensive care unit, general pediatric medicine/surgery unit, hematology/oncology unit, pediatric pulmonary consult service, pediatric infectious diseases consult service, weekend clinical coverage, as well as clinical pharmacy service in Cystic Fibrosis (pediatric and adult) and Pediatric Asthma Clinics. Accredited by the American Society of Health-System Pharmacists in 2010 (continued). Served as Residency Program Director from 2009 to 2015.

CONTRIBUTIONS TO INSTITUTIONAL CLINICAL PROTOCOLS/GUIDELINES/POLICIES:

Banner University Medical Center, Tucson, Arizona

- 2010 Inpatient Use of Inhaled Tobramycin in Patients with Cystic Fibrosis
- 2012 Use of Extended Infusion Beta Lactams in Patients with Cystic Fibrosis
- 2013 Aminoglycoside Therapeutic Drug Monitoring in Patients with Cystic Fibrosis
- 2013 Vancomycin Therapeutic Drug Monitoring Using Area Under the Curve (AUC) in Patients with Cystic Fibrosis
- 2014 High Dose Ibuprofen in Patients with Cystic Fibrosis: Candidate Screening, Dosing, and Monitoring
- 2014 Inpatient Use of Dornase alfa in Patients with Cystic Fibrosis
- 2015 Pediatric Empiric Antimicrobial Card/Guide
- 2015 CFTR Modulators in Patients with Cystic Fibrosis: Candidate Screening, Dosing, and Monitoring
- 2016 Pancreatic Enzymes in Patients with Cystic Fibrosis
- 2016 Pharmacokinetic and Renal Dosing in Pediatric Patients
- 2017 Clinic Intake form and Care Plan form for EMR downtime
- 2017 Pre-Clinic Visit Forms, Pharmacy Technician: medication history review, questions for care team members, reminders for clinic
- 2018 Cystic Fibrosis Pulmonary Exacerbation Scoring Form
- 2019 CFTR Modulators in Patients with Cystic Fibrosis: Candidate Screening, Dosing, and Monitoring – Update
- 2020 Telemedicine Clinic Interprofessional Logistics – Pediatric and Adult CF Clinics

Michigan Medicine, Ann Arbor, Michigan

- 2020 Pediatric CF PharmD Visit Algorithm
- 2021 Revised Therapeutic Substitution and Lab Ordering Protocol to include PharmD
- 2021 Pediatric CF Exacerbation Guidelines (collaboration between Pediatric Pulmonary and Infectious Diseases services)
- 2021 Pediatric New CFTR Modulator Onboarding Processes
- 2021 Pediatric CF Aminoglycoside Lab Draw Nursing Protocol
- 2022 Pediatric CF Exacerbation Antibiotic Duration Guidelines
- 2022 Pediatric CF Annual Labs and Rx Refill Guidelines
- 2022 Pediatric CF Audiology Screening/Monitoring Guidelines
- 2022 Pediatric CF Exacerbation Antibiotic Duration Algorithm
- 2023 Pediatric CF Mucolytic Step-Down Algorithm

CLINICAL IN-SERVICES, INTERPROFESSIONAL EDUCATION:

Asthma Treatment – Medications and Inhaler Devices: Updates. Presented to Faculty, Section of Pediatric Pulmonology, and Sleep. Annually 2008-2020.

Cystic Fibrosis Drug Therapy: Updates. Presented to Faculty, Section of Pediatric Pulmonology, and Sleep. Annually 2008-2020.

Cystic Fibrosis Drug Therapy: Pediatric Nursing Considerations in Inpatient Care. Presented to Nursing Staff. Banner University Medical Center-Tucson, Diamond Children's. Annually 2008-2020.

Cystic Fibrosis Drug Therapy: Adult Nursing Considerations in Inpatient Care. Presented to Nursing Staff. Banner University Medical Center-Tucson, Diamond Children's. Annually 2008-2020.

Cystic Fibrosis Acute Exacerbation Management. Presented to attending physicians and medical residents within the Department of Medicine. Banner University Medical Center-Tucson. Annually 2008-2020.

Pediatric Asthma Patient Care Processes. Presented to medical residents. Banner University Medical Center-Tucson, Diamond Children's. Annually 2008-2020.

CF Otolaryngology Guidelines. Presented to medical attendings, pulmonary division clinical staff. April 2022.

SIMPLIFY CF Step-Down Therapy Proposed Algorithm. Presented to medical attendings, pulmonary division clinical staff. January 2023.

PROFESSIONAL SERVICE

NATIONAL/INTERNATIONAL PROFESSIONAL SERVICE:

Leadership, Elected Positions

Faculty Delegate, Alternate American Association of Colleges of Pharmacy (AACP)	2011
Chair-Elect (2011-12) / Chair (2012-13) Pediatric Practice & Research Network (Pediatric PRN) American College of Clinical Pharmacy (ACCP)	2011 – 2013
Chair-Elect (2012-13)/Chair (2013-14) Research Committee Pediatric Pharmacy Association (PPA)	2012 – 2014
Secretary (2-year elected term) Pediatric Special Interest Group (SIG) American Association of Colleges of Pharmacy (AACP)	2013 – 2015

Director-at-Large, Board Member (3-year elected term) Pediatric Pharmacy Association (PPA)	2014 – 2017
President-Elect and Executive Board Member Pediatric Pharmacy Association (PPA)	2018 – 2019
President and Executive Board Member Pediatric Pharmacy Association (PPA)	2019 – 2020
Immediate Past President and Executive Board Member Pediatric Pharmacy Association (PPA)	2020 – 2021
Board Regent American College of Clinical Pharmacy (ACCP)	2023 – 2026

Leadership, Appointed Positions

Center Representative, UA Pediatric Pulmonary Center Cultural Sensitivity Committee Maternal Child Health Bureau (MCHB) Pediatric Pulmonary Centers	2010 – 2014
Faculty Delegate, Alternate American Association of Colleges of Pharmacy (AACCP) Chair	2011 2011 – 2015
Travel Award Committee, Pediatric Practice & Research Network American College of Clinical Pharmacy (ACCP)	
Representative, Banner University Medical Center-Tucson UHC Pediatric Committee	2012 – 2015
Appointed Member Postgraduate Fellowship Training Program Review Committee American College of Clinical Pharmacy (ACCP)	2012 – 2018
Chair-Elect (2012-13)/Chair (2013-14) Research Committee Pediatric Pharmacy Association (PPA)	2012 – 2014
SCCP Faculty Liaison, The University of Arizona American College of Clinical Pharmacy (ACCP)	2013 – 2020
<ul style="list-style-type: none"> • Faculty Coach/Advisor, ACCP Clinical Pharmacy Challenge (2013 – 2020) <ul style="list-style-type: none"> • Conduct student screening and team selection • Coordinate faculty/preceptor review sessions • 2017 - Top 16 (Nationally) • 2019 - Semifinalist (Nationally) • Faculty Coach/Advisor, ACCP Clinical Research Challenge (2016 – 2020) <ul style="list-style-type: none"> • 2016 - 2nd place (Nationally) • 2017 – Top 20 • 2018 – Finalist 	

Co-Chair CF Pharmacist Practice Based Research Network Cystic Fibrosis Foundation Pharmacist Discipline Workgroup	2013 – 2019
Organization Representative, PPA Specialty Framework Advisory Committee Board of Pharmacy Specialties (BPS)	2014
Co-Chair Board Certified Pediatric Pharmacotherapy Specialist (BCPPS) Recertification Program Pediatric Pharmacy Association (PPA)	2014 – 2018
Co-Chair Partnership Working Group Success with Therapies Research Consortium, Cystic Fibrosis Foundation	2014 – 2015
Co-Chair Measurements Working Group Success with Therapies Research Consortium, Cystic Fibrosis Foundation	2015 – 2017
Mentor, CF Pharmacist Mentoring Program Cystic Fibrosis Foundation Designated Apprentices: 2015 - Kalen Manasco, PharmD (U of Georgia) 2016 - Joe Sartor, PharmD (U of Texas, Tyler) 2017 - Katie Tu, PharmD (Children's of Orange County) 2018 - Joshua Wang, PharmD (U of Southern California, Keck) 2019 - Mary Alice Gajo, PharmD (Children's of Los Angeles) 2023 - Jamie Colucci (Akron Children's)	2015 – Present
Center Representative, UA Pediatric Pulmonary Center Sleep Ad Hoc Committee Maternal Child Health Bureau (MCHB) Pediatric Pulmonary Centers	2015 – 2018
Chair-Elect (2015-16) / Chair (2016-17) Research Committee, Pediatric Practice & Research Network American College of Clinical Pharmacy (ACCP)	2015 – 2017
Appointed Pharmacist Member (3-year term) Education Committee Cystic Fibrosis Foundation	2016 – 2019
Center Representative, UA Pediatric Pulmonary Center Advocacy Committee Maternal Child Health Bureau (MCHB) Pediatric Pulmonary Centers	2017
Appointed Member Presentations and Publications Committee Success with Therapies Research Consortium, Cystic Fibrosis Foundation	2018 – Present
Appointed Member Community Input Project Workgroup Success with Therapies Research Consortium, Cystic Fibrosis Foundation	2018 – 2020

Appointed Member, Clinical Practice Affairs Committee B 2018 – 2019
American College of Clinical Pharmacy (ACCP)

Co-Chair, Publications and Presentations Committee 2020 – 2021
Success with Therapies Research Consortium, Cystic Fibrosis Foundation

Appointed Member, Ensuring Albuterol Access in Schools: 2020 – 2021
From Policy to Implementation, Policy Statement Working Group
American Thoracic Society (ATS)

- Implementation Committee, Policy Committee

Appointed Member, Cystic Fibrosis Foundation otolaryngology 2020-2022
care multidisciplinary consensus recommendations
Cystic Fibrosis Foundation

Appointed Member, AACP Diversity, Equity, Inclusion 2021
and Anti-racism Advisory Panel

Appointed Member, FCCP and Credentialing Committee 2022 – 2023
American College of Clinical Pharmacy (ACCP)

Professional Membership

American Society of Health-System Pharmacists (ASHP) 2002 – 2018
Full Member 2020 – Present

American College of Clinical Pharmacy (ACCP) 2006 – Present
Full Member

- ACCP Pediatrics Practice and Research Network
- ACCP Infectious Diseases Practice and Research Network
- ACCP Education and Training Practice and Research Network
- ACCP Clinical Pharmacy Challenge Item Writer (2012-2015, 2017)
- CV Reviewer
- Resident/Student Mentor
- Abstract Reviewer, Annual Meetings
- ACCP Pediatric PRN Awards Committee Member
- Faculty Coach/Advisor, ACCP Clinical Pharmacy Challenge for University of Michigan, College of Pharmacy (2022 – Present)

Pediatric Pharmacy Association (PPA) 2006 – Present

- Research Committee (2006 – Present)
- Nominations Committee (2018-2019, 2020-2021 (Chair), 2021-2022)
- Yaffe Award Selection Committee (2019 – Present)

Rho Chi Academic Honor Society 2007 – Present

- Postgraduate Member, The Ohio State University (2007-2017)
- Faculty Member, The University of Arizona (2017 – 2020)
- Faculty Member, The University of Michigan (2020-Present)

American Association of Colleges of Pharmacy (AACP) 2009 – Present
Full Member

American Thoracic Society (ATS) Full Member	2014 – Present
American Academy of Pediatrics (AAP) Affiliate Member, Section of Pediatric Pulmonology & Sleep Medicine (SOPPSM)	2015 – Present
Association of Teachers of Maternal and Child Health (ATMCH) Faculty/Staff-Academic MCH Training Program Member	2015 – 2020
American Pharmacists Association (APhA) Full Member	2015 – 2020
<u>Scholarly Book/Chapter/Guideline Reviewer</u>	
ACCP Flip Cards, Pharmacotherapy	2014
ACCP Critical Care Pharmacotherapy	2015
National Association of School Nurses (NASN) Medication Administration Clinical Practice Guidelines for the School Setting	2021
<u>Editorial Board Appointment</u>	
Journal of Pediatric Pharmacology and Therapeutics (JPPT)	2019 – Present
<u>Peer-Review Journal Referee</u>	
American Journal of Health-System Pharmacy (AJHP)	2008 – Present
Journal of Pediatric Pharmacology and Therapeutics (JPPT)	2008 – Present
Annals of Pharmacotherapy	2008 – 2020
Journal of American Pharmacists Association (JAPhA)	2009 – Present
Clinical Therapeutics	2011 – 2020
Pharmacotherapy	2012 – Present
Critical Care Nurse	2014 – 2020
Expert Reviews in Respiratory Medicine	2016 – Present
Pediatric Pulmonology	2016 – Present
Clinical Medicine Insights: Pediatrics	2016 – 2020
Cochrane Collaboration Reviews, Airways Group	2016 – Present
Currents in Pharmacy Teaching and Learning	2017 – Present
Pediatric Allergy, Immunology, and Pulmonology	2018 – Present
American Thoracic Society (ATS) Scholar	2024 – Present
JAMA-Pediatrics	2024 – Present
<u>Scientific Abstract Reviewer</u>	
ACCP/ESCP International Congress Meeting	2009
ASHP Summer and Midyear Meetings	2009 – 2012
PPA Annual Spring Conference	2009 – Present
ACCP Virtual Poster Symposium	2017
ACCP Annual Meeting	2017
NACFC Poster Presentations	2016 - Present
<u>Grant Application Reviewer</u>	
ASHP Collaborative Care Grant	2021, 2022
CF Foundation, Clinical Research Award Plus Concept Proposal and Planning Grant:	2024

Data Safety Monitoring Board, Advisory Board Appointments, and Other Related Service

Appointed Member, Data Safety Monitoring Board (DSMB) Cystic Fibrosis Foundation (CFF)	2015 – Present
Disease Education Advisory Board Vertex Pharmaceuticals Incorporated	2016
Pharmacist Advisory Board Vertex Pharmaceuticals Incorporated	2018, 2019
Medical Affairs Advisory Board Gilead Sciences Inc.	2018

National Institutes of Health (NIH) Related Service

Co-Chair, Pulmonary Workgroup Best Pharmaceuticals for Children Act (BPCA) Priority List of Needs in Pediatric Therapeutics, Obstetric and Pediatric Pharmacology Branch, Eunice Kennedy Shriver National Institute of Child Health, and Human Development (NICHD) at the National Institutes of Health (NIH)	2011 – 2012
Reviewer Best Pharmaceuticals for Children Act (BPCA) Priority List Eunice Kennedy Shriver NICHD at NIH	2011 – 2014
Reviewer Small Business Innovation Research (SIBR) Phase II Proposals National Institutes of Health (NIH), National Institutes of Drug Abuse (NIDA)	2014
Reviewer Best Pharmaceuticals for Children Act (BPCA) Priority List Eunice Kennedy Shriver NICHD at NIH	2019

Other Professional Service

Training Instructor for University of Arizona CF Center MSL Training on Cystic Fibrosis Vertex Pharmaceuticals Inc.	2016, 2017
Exam Item Writer, Pediatrics Board Certification in Pediatric Pharmacotherapy Specialty (BCPPS) Board of Pharmacy Specialties (BPS)	2014
Co-Lead for University of Arizona CF Center Site MedGap Pilot, Cystic Fibrosis Foundation	2016
Reviewer, Pharmacist RFA Grants Cystic Fibrosis Foundation	2016
Medical Affairs, Consultant Vertex Pharmaceuticals Incorporated	2017
Commercial Advisory Panel, Consultant Vertex Pharmaceuticals Incorporated	2018 - 2019

LOCAL/STATE PROFESSIONAL SERVICE:

Leadership

Pharmacy Lead 2010 – 2020
 Cystic Fibrosis Continuous Quality Improvement Committee
 Banner University Medical Center
 • Contributed to preparation and achievement of renewal of Center Accreditation by the Cystic Fibrosis Foundation

Pharmacy Lead 2010 – 2020
 Pediatric Asthma Committee
 Banner University Medical Center
 • Contributed to preparation and achievement and maintenance of Gold Seal Certification in Pediatric Asthma by the Joint Commission

Member, Board of Directors 2017 – 2020
 Arizona Asthma Coalition (AAC)

Vice Chair, Board of Directors 2018 – 2020
 Arizona Asthma Coalition (AAC)

Pharmacy Lead 2020 – Present
 Pediatric Cystic Fibrosis Quality Improvement Core Team
 C.S. Mott Children’s Hospital, Michigan Medicine

Faculty Executive Representative 2023 - Present
 Susan B. Meister Child Health Evaluation and Research (CHEAR) Center
 Department of Pediatrics, Medical School
 The University of Michigan

Pharmacy Representative 2023 – Present
 Pediatric Immunizations Work Group
 Michigan Medicine

Professional Membership

Arizona Pharmacists Association, Full Member 2008 – 2020
 Arizona Asthma Coalition (AAC), Full Member 2016 – 2020
 Michigan Pharmacists Association, Full Member 2021 – 2024

Arizona Health Science Center – The University of Arizona:

Member, Dean Search Committee, College of Pharmacy 2016

College of Pharmacy Committees – The University of Arizona:

Member, Department Head Search Committee 2011 – 2012
 Member, Admissions Committee 2012 – 2016
 Member, Readmissions Committee 2015 – 2020
 Chair, Faculty TRS Percent Effort Committee 2016 – 2017
 Member, Assessment Committee 2016 – 2018
 Member, Innovations Committee 2016 – 2018
 Member, Student Success Seminar Programming Committee 2017 – 2018
 Chair, Professionalism Committee 2018 – 2020
 Member, Practice Innovation Taskforce 2019

College of Pharmacy Committees – The University of Michigan:

Member, Admissions Committee	2021 - Present
Member, Honor Council	2021 - Present

Departmental Committees – Pharmacy Practice and Science – The University of Arizona

College of Pharmacy:

Member, Faculty Search Committee	2009 – 2013, 2016
Chair, Residency-Fellowship Preparation Program Committee	2010 – 2019
Ad-Hoc Member, Faculty Status Committee	2012 – 2013
Member, Peer Review Committee	2013 – 2015

Other Faculty Contributions College of Pharmacy – The University of Arizona

Faculty Advisor – PediaCATS, PPA Student Chapter	2010 – 2020
Faculty Advisor – SCCP, ACCP Student Chapter	2016 – 2020

Other Faculty Contributions College of Pharmacy – The University of Michigan

Faculty Coach – ACCP Clinical Pharmacy Challenge	2022 – Present
Faculty Advisor – LittleVictors, PPA Student Organization	2023 – Present

Other Committees – Banner University Medical Center-Tucson (BUMC-T):

Member, BUMC-T Residency Programs Advisory Committee	2009 – 2015
Member, Medication Use Subcommittee	2010 – 2013
Member, Pharmacy Quality Improvement Committee	2010 – 2013
Chair, PGY2 Pediatric Pharmacy Residency Committee	2010 – 2015
Member, Pediatric Asthma and Bronchiolitis Committee	2018 – 2020

Community Service/Outreach

Health Fair Preceptor, Asthma Screenings/Education The University of Arizona College of Pharmacy	2008 – 2019
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Mentor for Undergraduate/Graduate Students Asian American Faculty, Staff and Alumni Association (AAFSAA) The University of Arizona	2009 – 2014
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Pharmacist Committee Member Healthy Children, Daycare Providers Pima County Health Department, American Academy of Pediatrics (AAP)	2010 – 2012
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