

Catherine E. O'Brien, PharmD, MA

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Curriculum Vitae

Business

4301 West Markham Street #522

Little Rock, AR 72205

EDUCATION AND TRAINING

2020 – 2022	Master of Arts in Bioethics and Health Policy, Neiswanger Institute for Bioethics and Healthcare Leadership, Loyola University Chicago	
2006 – 2008	Multidisciplinary Clinical Pharmacology Fellowship University of Arkansas for Medical Sciences (UAMS) College of Pharmacy Little Rock, AR	
2005 – 2006	Pharmacy Practice Residency, UAMS Hospital Little Rock, AR	
2001–2005	UAMS College of Pharmacy Little Rock, AR	Doctor of Pharmacy May 2005 High Honors, Faculty Gold Key
1992–1994	University of Arkansas at Little Rock Little Rock, AR	Bachelor of Science in Chemistry, August 1994
1988–1991	Louisiana Tech University Ruston, LA	Chemistry Major

ACADEMIC APPOINTMENTS

2023 – present	Associate Professor (secondary appointment) Department of Medical Humanities and Bioethics UAMS College of Medicine	
2016 – present	Associate Professor (primary appointment) Department of Pharmacy Practice UAMS College of Pharmacy, Little Rock, AR	
2009 – present	Assistant Professor (secondary appointment) Department of Pediatrics, Division of Clinical Pharmacology and Toxicology UAMS College of Medicine, Little Rock, AR	
2008 – 2016	Assistant Professor Department of Pharmacy Practice UAMS College of Pharmacy, Little Rock, AR	
2005 – 2008	Clinical Instructor UAMS College of Pharmacy, Little Rock, AR	

PROFESSIONAL EXPERIENCE

2008 – 2021	Clinical Pharmacist, Pediatric Pulmonary Clinic, Arkansas Children's Hospital, Little Rock, AR
2007 – 2019	Clinical Pharmacist, Adult Cystic Fibrosis Clinic, UAMS, Little Rock, AR
2006 – 2008	Clinical Pharmacist, Internal Medicine Cardiology Service, UAMS, Little Rock, AR
2005 – 2008	Relief Pharmacist, Cantrell Drug, Little Rock, AR
2005 – 2006	Clinical Pharmacist, Coumadin Clinic, UAMS, Little Rock, AR
1995 – 2001	Research Associate, Center for Osteoporosis and Metabolic Bone Disease (PI: Robert Jilka, Ph.D.), UAMS, Little Rock, AR

PEER-REVIEWED PUBLICATIONS

1. Sifontis NM, Connor SE, Ho JA, Morley S, **O'Brien CE**, Rotzenberg K, Varadarajan R, Covvey JR. A modified Delphi process to achieve consensus on social/administrative science topics in pharmacy curricula. *AJPE* 2025; 89(2): 101349. doi: 10.1016/j.ajpe.2024.101349
2. Sherman AC, **O'Brien CE**, Simonton-Atchley S. A longitudinal study of adherence among cystic fibrosis patients: associations with gratitude over the course of one year. *International Journal of Behavioral Medicine* 2024; Jun 24 [online ahead of print]. doi: 10.1007/s12529-024-10306-1
3. Sherman AC, Simonton-Atchley S, **O'Brien CE**, Campbell D, Reddy R, Guinee B, Wagner LD, Anderson PJ. Associations between religious coping and depression among adults with cystic fibrosis: A 12-month longitudinal study. *J Religion Health* 2021; 60: 2646-2661. doi: 10.1007/s10943-021-01185-x
4. Sherman AC, Simonton-Atchley S, **O'Brien CE**, Campbell D, Reddy RM, Guinee B, Wagner LD, Anderson PJ. Longitudinal associations between gratitude and depression 1 year later among adult cystic fibrosis patients. *Journal of Behavioral Medicine* 2020; 43:596-604. doi: 10.1007/s10865-019-0071-y
5. McKinzie CJ, Chen L, Ehlert K, Grisso AG, Linafelter A, Lubsch L, **O'Brien CE**, Pan A, Wright B, Elson EC. Off-label use of intravenous antimicrobials for inhalation. *Pediatric Pulmonology* 2019; 54(S3): S27-S45. doi 10.1002/ppul.24511
6. Stafford R, **O'Brien CE**, Franks AM. A communications module to reinforce motivational interviewing concepts. *Currents in Pharmacy Teaching and Learning* 2019; 11: 843-848. doi: 10.1016/j.cptl.2019.04.014
7. Sherman A, Simonton-Atchley S, Campbell D, Reddy RM, **O'Brien CE**, Guinee B, Wagner LD, Anderson PJ. Persistent adherence to airway clearance therapy in adults with cystic fibrosis. *Respiratory Care* 2019; 64(7): 778-785 doi: 10.4187/respcare.06500

8. Teeter BS, Stafford R, Payakachat N, Reid J, Thiessen K, Franks A, **O'Brien C**. Student pharmacists' use of patient-centered communication skills during an introductory pharmacy practice experience. *AJPE* 2019; 83(8): Article 7244. doi: 10.5688/ajpe7244
9. Louie JM, Hong LT, Garavaglia LR, Pinal DI, **O'Brien CE**. Evaluation of home medication reconciliation by clinical pharmacists for adult and pediatric cystic fibrosis patients. *Pharmacy* 2018; 6: 91. doi 10.3390/pharmacy6030091
10. **O'Brien CE**, Stafford R, Franks AM. Establishment of a patient-centered communication course to address curricular gaps. *Currents in Pharmacy Teaching and Learning* 2018; 10 (7): 933-939. doi 10.1016/j.cptl.2018.04.008
11. **O'Brien CE**, Com G, Fowlkes J, Tang X, James LP. Peripheral quantitative computed tomography detects differences at the radius in prepubertal children with cystic fibrosis compared to healthy controls. *PLoS ONE* 2018;13(1): e0191013. doi:10.1371/journal.pone.0191013
12. Heldenbrand S, Dayer LE, Martin BC, **O'Brien C**, Choi AN, Gubbins PO, Hawthorne J, Ramey M, Willis K, Flowers SK. APPE evaluations are positively associated with MMI, pre-pharmacy GPA and pharmacy GPA. *AJPE* 2018; 82(7): Article 7. doi: 10.5688/ajpe6326
13. **O'Brien CE**, Flowers SK, Stowe CD. Desirable skills in new pharmacists: a comparison of opinions from practitioners and senior student pharmacists. *Journal of Pharmacy Practice* 2017; 30(1):94-98. doi: 10.1177/0897190015621804
14. McCaleb R, Warren RH, Willis D, Maples HD, Bai S, **O'Brien CE**. Description of respiratory microbiology of children with long-term tracheostomies. *Respiratory Care* 2016; 61(4): 447-452. doi: 10.4187/respcare.03518
15. Heldenbrand SD, Flowers SK, Bordelon BJ, Gubbins PO, **O'Brien CE**, Stowe CD, Martin BC. Multiple mini-interview performance predicts academic difficulty in the Pharm.D. curriculum. *AJPE* 2016; 80(2): Article 27.
16. Stolarz AJ, Farris RA, Wiley CA, **O'Brien CE**, Price ET. Fenofibrate attenuates neutrophilic inflammation in airway epithelia: potential drug repurposing for cystic fibrosis. *Clinical and Translational Science* 2015; 8(6):696-701. doi: 10.1111/cts.12310.
17. Ali MM, Cleves M, **O'Brien CE**, Martin B. Exploring the possible association between montelukast and neuropsychiatric events among children with asthma: A matched nested case-control study. *Pharmacoepidemiol Drug Saf* 2015; 24: 435-445. doi: 10.1002/pds.3758
18. Stowe CD, Castleberry AN, **O'Brien CE**, Flowers SK, Warmack TS, Gardner SF. Development and Implementation of the Multiple Mini-Interview in Pharmacy Admissions *Currents in Pharmacy Teaching and Learning* 2014; 6: 849-855. doi: <http://dx.doi.org/10.1016/j.cptl.2014.07.007>
19. Com GC, Cetin N, **O'Brien CE**. Complicated *Clostridium difficile* colitis in children with cystic fibrosis: association with gastric acid suppression? *Journal of Cystic Fibrosis* 2014; 13: 37-42. DOI:10.1016/j.jcf.2013.08.005
20. **O'Brien CE**, Price ET. The blood neutrophil to lymphocyte ratio correlates with clinical status in children with cystic fibrosis: A retrospective study. *PLoS ONE* 2013 8(10): e77420. doi:10.1371/journal.pone.0077420
21. **O'Brien CE**, Harden H, Com G. A survey of nutrition practices for patients with cystic fibrosis. *Nutr Clin Pract* 2013; 28: 237-241. DOI:10.1177/0884533612468162

22. Tangpricha V, Kelly A, Stephenson A, et al. for the **Cystic Fibrosis Foundation Vitamin D Evidence-Based Review Committee**. An update on the screening, diagnosis, management, and treatment of vitamin D deficiency in individuals with cystic fibrosis: evidence-based recommendations from the Cystic Fibrosis Foundation. *J Clin Endocrinol Metab* 2012; 97(4):1082-93. DOI: 10.1210/jc.2011-3050
23. **O'Brien CE**, Anderson PA, Stowe CD. Lubiprostone for constipation in adults with cystic fibrosis: a pilot study, *Ann Pharmacother* 2011;45:1061-1066. DOI 10.1345/aph.1Q219
24. **O'Brien CE**, Anderson PA, Stowe CD. Use of the chloride channel activator lubiprostone for constipation in adults with cystic fibrosis: a case series, *Ann Pharmacother* 2010;44:577-581. DOI 10.1345/aph.1M642
25. Franks AM, **O'Brien CE**, Stowe CD, Wells TG, Gardner SF. Candesartan cilexetil effectively reduces blood pressure in hypertensive children, *Ann Pharmacother* 2008; 42(10):1388-1395. DOI 10.1345/aph.1L212
26. **O'Brien CE**, Harik N, James L, Seib P, Stowe CD. Cesium-induced QT-interval prolongation in an adolescent, *Pharmacotherapy* 2008; 28(8): 1059-1065.
27. **O'Brien CE**, Franks AM, Stowe CD. Multiple rubric-based assessments of student case presentations, *AJPE* 2008; 72 (3): Article 58.
28. Hutchison LC, **O'Brien CE**. Changes in pharmacokinetics and pharmacodynamics in the elderly patient, *Journal of Pharmacy Practice* 2007; 20 (1): 4-12.

BOOK CHAPTERS

Phan H, **O'Brien CE**. Cystic Fibrosis. In: Thomas MC, Faculty Panel Chair. *PSAP 2017 Book 2 Pulmonary and Emergency Medicine*. ACCP 2017:41-66. ISBN-13: 978-1-939862-52-5.

O'Brien CE, Lowry J, Palmer K, Farrar HC, Kearns, GL, James LP. Gastrointestinal Drugs. In: Yaffe SJ, Aranda JV, eds. *Neonatal and Pediatric Pharmacology: Therapeutic Principles in Practice*. 4th ed. Philadelphia, Penn: Lippincott Williams & Wilkins; 2011:742-759.

ABSTRACTS AND MEETING PRESENTATIONS

1. **O'Brien CE**, Teeter BS, Boehmer K, Stafford R, Franks AM. Use of a horizon analysis to encourage reflection in Introduction to Patient-Centered Communication. *AJPE* 2021; 85 (7): 8737. doi: <https://doi.org/10.5688/ajpe8737>, Poster presentation, American Association for College of Pharmacy (AACCP) Annual Meeting, July 2021, Virtual. *Finalist for best poster award in the Social and Administrative Sciences section*.
2. Sherman AC, Simonton-Atchley S, **O'Brien CE**, Campbell D, Reddy RM, Guinee B, Wagner LD, Anderson PJ. Relationships between gratitude and persistent adherence: a longitudinal study of airway clearance therapy among adult cystic fibrosis patients. *Psychosom Med* 2019; 81(4): A44-45.
3. Sherman AC, Simonton-Atchley S, **O'Brien CE**, Campbell D, Reddy RM, Guinee B, Wagner LD, Anderson PJ. Longitudinal associations between religious/spiritual involvement and depression one year later among adult cystic fibrosis patients. *Psychosom Med* 2019; 81(4): A44-45.

4. Jacob S, Carlin K, Nagel A, Hutchinson D, **O'Brien C**, Bhandari NR, Payakachat N, Rosenfeld R. Vitamin D deficiency in patients with cystic fibrosis: Are we adhering to monitoring recommendations? *Journal of Cystic Fibrosis* 2018;17(S3):S118. Presented in poster format at the 41st European Cystic Fibrosis Conference, Belgrade, Serbia.
5. **O'Brien CE**, Beringer P, Ueng S, Lubsch L, McDade EJ, Moran M, Pettit RS, Autry E, Schroeder E, Duval MA, Shropshire J, Manasco K, Kuhn RJ. Anti-MRSA antibiotics for pulmonary exacerbations in CF: patterns of use and outcomes. *Pediatr Pulmonol* 2017; 52(S47):S457. Poster presentation, North American Cystic Fibrosis Conference (NACFC), November 2017, Indianapolis, IN.
6. **O'Brien CE**, Stafford R, Teeter B, Reid J, Payakachat N, Franks A. Patient-centered communication uptake during a community pharmacy IPPE: A qualitative analysis. *AJPE* 2017; 81(5); Article S5, page 85. Poster presentation, AACP Annual Meeting, July 2017, Nashville, Tennessee.
7. Khan M, Montgomery C, Camp A, Humphrey G, Jones K, White LS, **O'Brien C**, Gath E. Improving healthy lifestyle attitudes with F.I.G.H.T nights. Poster presentation, Society of Student-Run Free Clinics Annual Meeting, February 2017, Anaheim, CA.
8. Robinson J, **O'Brien C**. Single-center study evaluation of the mean dose of vitamin D required to reach a therapeutic level in children with cystic fibrosis. 2017 ACCP Virtual Poster Session. January 2017.
9. Whitaker B, Blanchard M, Henshaw J, Com G, **O'Brien CE**. Differences in knowledge, attitudes and experiences for gastrostomy tube placement among caregivers of children with cystic fibrosis. *Pediatr Pulmonol* 2016; 51(S45): S686. Poster presentation, NACFC, October 2016, Orlando, Florida.
10. Dayer LE, Flowers SK, Martin BC, **O'Brien CE**, Choi AN, Hawthorne J, Willis K, Ramey M, Heldenbrand S. Multiple-mini interview for pharmacy school admissions is prognostic with advanced pharmacy practice scores. *AJPE* 2016;80(5) Article S2. Poster presentation, AACP Annual Meeting, July 2016, Anaheim, CA.
11. Blanchard M, Whitaker B, Henshaw J, Com G, **O'Brien, C**. Knowledge, attitudes, and experiences among parents of children with cystic fibrosis regarding gastrostomy tube placement. Poster presentation, Society of Pediatric Psychology Annual Conference, April 2016, Atlanta, GA.
12. Louie JM, Hong LT, Biondo LR, Pinal DI, **O'Brien CE**, Phan H. Evaluation of home medication reconciliation by clinical pharmacists for adult and pediatric cystic fibrosis patients. *Pediatr Pulmonol* 2015; 50:533. Poster presentation, NACFC, October 2015, Phoenix, Arizona.
13. **O'Brien CE**, Johnston S, Henshaw JA, Com G. Algorithm-driven improvement in vitamin D management. *Pediatr Pulmonol* 2014;49:573. Poster presentation, NACFC, October 2014, Atlanta, Georgia.
14. Sherman AC, Simonton-Atchley S, **O'Brien CE**, Reddy RM, Campbell D, Jensen B, Wagner L, Anderson PJ. Predictors of adherence to enzyme supplements among adult cystic fibrosis patients: a longitudinal study. *Pediatr Pulmonol* 2013;48:633. Poster presentation, NACFC, October 2013, Salt Lake City, Utah.
15. Sherman AC, Simonton-Atchley S, Reddy RM, Campbell D, **O'Brien CE**, Jensen B, Wagner L, Anderson PJ. Health behaviors among adults with cystic fibrosis. *Pediatr Pulmonol* 2013;48:634. Poster presentation, NACFC, October 2013, Salt Lake City, Utah.

16. Simonton-Atchley S, Sherman AC, Campbell D, Reddy RM, **O'Brien CE**, Jensen B, Wagner L, Anderson PJ. Positive and negative dimensions of social support: associations with quality-of-life outcomes among adults with cystic fibrosis. *Pediatr Pulmonol* 2013;48:636. Poster presentation, NACFC, October 2013, Salt Lake City, Utah.
17. Jensen B, **O'Brien CE**, Sherman A. Impact of spiritual beliefs on medication adherence in cystic fibrosis patients. Poster presentation, Arkansas Association of Health-System Pharmacists Fall Seminar, October 2013, Little Rock, AR
18. McCaleb RV, Maples H, Warren R, Willis D, **O'Brien CE**. Retrospective analysis of respiratory cultures of individuals with neurodisabilities who are tracheostomy dependent. Poster presentation (encore), Annual meeting for the Association of Providers for Children with Complex Medical Needs, October 2012, Des Moines, IA.
19. Sherman AC, Simonton-Atchley S, Campbell D, **O'Brien CE**, Reddy RM, Anderson PJ, Jensen B, Kumar S. Religious coping and psychological distress among adults with cystic fibrosis. *Pediatr Pulmonol* 2012;S35:436. Poster presentation, NACFC, October 2012, Orlando, FL.
20. Anderson PJ, Sherman AC, Reddy RM, Campbell D, **O'Brien CE**, Jensen B, Kumar S, Simonton-Atchley S. Relationship between illness beliefs and quality-of-life outcomes among adult cystic fibrosis patients. *Pediatr Pulmonol* 2012;S35:436. Poster presentation, NACFC, October 2012, Orlando, FL.
21. Anderson PJ, Sherman AC, Simonton-Atchley S, Campbell D, Reddy RM, Jensen B, Kumar S, **O'Brien CE**. Associations between personal resources and health-related quality-of-life among adults with cystic fibrosis. *Pediatr Pulmonol* 2012;S35:437. Poster presentation, NACFC, October 2012, Orlando, FL.
22. Simonton-Atchley S, Sherman AC, Campbell D, Reddy RM, **O'Brien CE**, Jensen B, Kumar S, Anderson PJ. Posttraumatic growth among adult cystic fibrosis patients. *Pediatr Pulmonol* 2012;S35:439. Poster presentation, NACFC, October 2012, Orlando, FL.
23. Simonton S, Sherman AC, Reddy RM, Campbell D, **O'Brien CE**, Jensen B, Kumar S, Anderson PJ. Associations between illness beliefs and psychosocial adjustment among adults with cystic fibrosis. *Annals of Behavioral Medicine* 2012; 43 (suppl):s33
24. Sherman AC, Simonton S, Campbell D, Reddy R, **O'Brien CE**, Jensen B, Kumar S, Anderson PJ. Seeking and found global meaning among cystic fibrosis patients: associations with quality-of-life outcomes. *Annals of Behavioral Medicine* 2012; 43(suppl):s34
25. Sherman AC, Simonton S, **O'Brien CE**, Campbell D, Reddy RM, Jensen B, Kumar S, Anderson PJ. Adherence to airway clearance therapy in cystic fibrosis: effects of treatment beliefs and self-efficacy. *Annals of Behavioral Medicine* 2012; 43 (suppl):s33
26. Stolarz A. FR, **O'Brien C.**, Price E. Fenofibrate attenuates Interleukin-1 α -stimulated inflammatory chemokine production in small airway epithelial cells *American Society for Clinical Pharmacology and Therapeutics Annual Meeting 2012*. National Harbor, Maryland 2012.
27. McCaleb RV, Maples H, Warren R, Willis D, **O'Brien CE**. Retrospective analysis of respiratory cultures of individuals with neurodisabilities who are tracheostomy dependent. *Journal of Investigative Medicine* 2012;60(1):446. Platform presentation, Southern Regional Meeting for the Society of Pediatric Research, February 2012, New Orleans, LA.

28. Stolarz A. FR, **O'Brien C.**, Price E. Fenofibrate Modulates Colony Stimulating Factor Production in Cystic Fibrosis Bronchial Epithelial Cells. *Pittsburgh International Lung Conference Personalized Medicine of Lung Disease*. Pittsburgh, PA 2011:232.
29. **O'Brien CE**, Reddy R, Anderson PJ. Patient-centered discussion about adherence significantly improves self-assessed adherence to chest physiotherapy in a single-center adult CF population. *Pediatr Pulmonol* 2011;46(S34):463. Poster presentation, NACFC, November 2011, Anaheim, CA.
30. Harden H, **O'Brien CE**. Assessment of quality improvement initiatives in clinic procedures for vitamin D levels of CF patients. *Pediatr Pulmonol* 2011;46(S34):464. Poster presentation, NACFC, November 2011, Anaheim, CA.
31. Simonton S, Sherman AC, Campbell D, Reddy RM, Kumar S, **O'Brien CE**, Anderson PJ. Depression and anxiety symptoms among adults with cystic fibrosis. *Pediatr Pulmonol* 2011;46(S34):532. Platform presentation, NACFC, November 2011, Anaheim, CA.
32. Simonton S, Sherman AC, Campbell D, Reddy RM, Kumar S, **O'Brien CE**, Anderson PJ. Adherence to airway clearance therapy among adults with cystic fibrosis. *Pediatr Pulmonol* 2011;46(S34):533. Poster presentation, NACFC, November 2011, Anaheim, CA.
33. Anderson PJ, Sherman AC, Campbell D, Reddy RM, Kumar S, **O'Brien CE**, Simonton S. Health-related quality of life among adult cystic fibrosis patients. *Pediatr Pulmonol* 2011;46(S34):572. Poster presentation, NACFC, November 2011, Anaheim, CA.
34. Crumby AS, Ottoson L, Stinnett A, Maples HD, Dehart R, Jones K, **O'Brien CE**. Use of anti-anxiety medications, antidepressants, and stimulants among students in a college of pharmacy. *AJPE* 2011;75(5) Article 105. Poster presentation, American Association for College of Pharmacy (AACP) Annual Meeting, July 2011, San Antonio, TX.
35. Jones KM, **O'Brien CE**, Maples HD. Implementation and effectiveness of a structured debate in advanced pharmacy practice experiences. *AJPE* 2010;75(5) Article 105. Poster presentation, AACP Annual Meeting, July 2011, San Antonio, TX.
36. Norman S, **O'Brien C**, Maples H. IV or No IV: Eradication of *Pseudomonas aeruginosa* in Pediatric Cystic Fibrosis Patients. Presented in poster format at the Arkansas Association of Health-System Pharmacists Fall Seminar, October 2010, Little Rock, AR. *Best poster winner*. Presented as an encore at the University of Arkansas for Medical Sciences Student Research Day, April 1 2011, Little Rock, AR.
37. Barham J, **O'Brien C**, Maples H. Impact of chronic inhaled tobramycin on incidence of tobramycin resistant pseudomonas aeruginosa in cystic fibrosis. *Journal of Investigative Medicine* 2010;58(2):453. Oral presentation, Southern Society for Pediatric Research Annual Meeting, February 2010, New Orleans, LA.
38. Harden H, Thompson S, **O'Brien CE**, Com G. Nutrition recommendations for CF patients: assessing the practices of CF nutrition professionals. *Pediatr Pulmonol* 2010;45(S33):542. Poster presentation, NACFC, October 2010, Baltimore, MD.
39. Hutchison LC, **O'Brien CE**. Cross-sectional study of gabapentin for sleep. *Pharmacotherapy* 2010;30(10):94. Poster presentation, American College of Clinical Pharmacy Annual Meeting, October 2010, Austin, TX.

40. **O'Brien CE**, Flowers SK, Payakachat N, Stowe CD. Preferred communication methods among pharmacy students. *AJPE* 2010;74(5) Article 96 Poster presentation, AACP Annual Meeting, July 2010, Seattle, WA.
41. **O'Brien CE**, Anderson PA, Stowe CD. Lubiprostone for the treatment of constipation in adults with cystic fibrosis: preliminary results. *Pediatr Pulmonol* 2009;40(S32):547. Poster presentation, NACFC, October 2009, Minneapolis, MN.
42. **O'Brien CE**, Reddy R, Anderson PA. Treatment adherence questionnaire in a single center adult CF population. *Pediatr Pulmonol* 2009;40(S32):503. Poster presentation, NACFC, October 2009, Minneapolis, MN.
43. **O'Brien CE**, Flowers SK, Stowe CD. Comparison of responses to UAMS College of Pharmacy Employer and Graduate Surveys. *AJPE* 2009;73(4) Article 57:41. Poster presentation, AACP Annual Meeting, July 2009, Boston MA.
44. Stowe CD, Flowers S, Warmack TS, **O'Brien CE**, Gardner SF. Admission Objective Structure Clinical Examination (OSCE): Multiple-Mini Interview (MMI). *AJPE* 2008; 72(3) Article 72: 56. Poster Presentation, AACP Annual Meeting, July 2008, Chicago IL.
45. Stowe CD, **O'Brien CE**, Warmack TS, Gardner SF. Communication Skill Development: OSCE Assessment of Lay and Healthcare Provider Encounters. *AJPE* 2007; 71(3) Article 60: 14. Poster presentation, AACP Annual Meeting, July 2007, Orlando FL.
46. **O'Brien CE**, Franks AM, Dickey K, Stowe CD. Multiple Rubric-Based Assessments of Student Case Presentations in Recitation. *AJPE* 2007; 71(3) Article 60: 21. Poster presentation, AACP Annual Meeting, July 2007, Orlando, FL.
47. **O'Brien CE**. Cross-Sectional Study of Gabapentin for Sleep in Elderly Patients. Platform presentation, Midwest Pharmacy Resident Conference, April 2006, Omaha, NE.
48. Jilka RL, Lecka-Czernik B, Ali AA, **O'Brien CE**, Weinstein RS, Manolagas SC. Activation of PPAR γ 2 by Rosiglitazone Causes Bone Loss Associated with Increased Marrow Adiposity and Decreased Osteoblast Number in Mice. *J. Bone Miner. Res.* 16 (Sup. 1): SU020, 2001. Poster presentation, 23rd Annual Meeting of the American Society for Bone and Mineral Research (ASBMR), October 2001, Phoenix, AZ.
49. Digregorio-Taguchi GB, Gubrij I, **Smith C**, Parfitt AM, Manolagas SC, Jilka RL. The Transit Amplifying Mesenchymal Progenitor Cell Compartment, not the Stem Cell Compartment, is the Principal Site of Control of Osteoblast Production in Normal and Pathologic Bone Remodeling. *J. Bone Miner. Res.* 15 (Sup. 1): SU 185, 2000. Poster presentation, 22nd Annual Meeting of the ASBMR, September 2000, Toronto, Canada.
50. Jilka RL, Parfitt AM, Manolagas SC, Bellido T, and **Smith C**. Cleavage of Collagen by Osteoblasts In Vitro Generates Anti-apoptotic Signals: A Mechanism for the Regulation of Their Functional Lifespan and Fate During Bone Formation. *J. Bone Miner. Res.* 14 (Sup. 1): SA 140, 1999. Poster presentation, 21st Annual Meeting of the ASBMR, September 1999, St. Louis, MO.
51. Jilka RL, Weinstein RS, Roberson P, Shelton R, Swain F, **Smith C**, Kirchner J, Parfitt AM, and Manolagas SC. PTH Increases Bone Formation by Postponing Osteoblast Apoptosis, not by Increasing Progenitor Proliferation. *Bone* 23 (Sup. 5): F461, 1998. Poster presentation, 20th Annual Meeting of the ASBMR, December 1998, San Francisco, CA.
52. Jilka RL, **Smith C**, and Manolagas SC. Dexamethasone Promotes Apoptosis of Osteoblast Progenitors in Murine Bone Marrow Cultures: Antagonism by IL-6 Type Cytokines. *J. Bone*

Miner. Res. 12 (Sup. 1): S411, 1997. Poster presentation, 19th Annual Meeting of the ASBMR, September 1997, Cincinnati, OH.

53. Weinstein RS, Jilka RL, Young C, Miller FL, Shelton R, **Smith C**, Parfitt AM, and Manolagas SC. Glucocorticoid Excess Decreases the Number of Osteoblast Progenitors in the Marrow and Increases Mature Osteoblast Apoptosis in Mice. *J. Bone Miner. Res.* 12 (Sup. 1): P256, 1997. Plenary poster presentation, 19th Annual Meeting of the ASBMR, September 1997, Cincinnati, OH.
54. Weinstein RS, Carlin AA, Miller FL, Shelton R, **Smith C**, Roberson P, Parfitt AM, and Manolagas SC. The Effects of Androgen Deficiency on Bone Remodeling and Bone Mineral Density are Mediated via Cells of the Osteoblastic Lineage. *J. Bone Miner. Res.* 11 (Sup. 1): 137, 1996. Platform presentation, 18th Annual Meeting of the ASBMR, September 1996, Seattle, WA.
55. Jilka RL, Weinstein RS, Bellido T, Miller FL, **Smith C**, Parfitt AM, and Manolagas SC. Demonstration of Programmed Cell Death (Apoptosis) in Osteoblasts: Evidence for Modulation of this Process by Growth Factors and Cytokines. *J. Bone Miner. Res.* 11 (Sup. 1): P213, 1996. Plenary poster presentation, 18th Annual Meeting of the ASBMR, September 1996, Seattle, WA.

RESEARCH FUNDING

FOUNDATION FUNDING

Primary contact, "Health and Wellness Education Series for Medically Underserved Areas in Arkansas," Blue and You Foundation, **\$1000**, August 2013 – August 2014. Submitted to fund the 2013-14 professional development project for the UAMS College of Pharmacy Student Society of Health-System Pharmacists.

INTRAMURAL FUNDING

Principal Investigator, "Bone microarchitecture at the radius: a comparison between children with cystic fibrosis and healthy controls," CUMG, **\$37,986.84**. January 2010 – July 2013.

EXTRAMURAL FUNDING (FELLOWSHIP PROJECTS)

Principal Investigator, "Short Term Safety and Efficacy of Lubiprostone in Adults with Cystic Fibrosis." Takeda and Sucampo Pharmaceuticals, **\$27,556.80**. June 2008 – April 2010.

Principal / Junior Investigator, "Effect of Lubiprostone on Nutritional Status and Pulmonary Function in Adults with Cystic Fibrosis," (Cindy D. Stowe, Senior Investigator) American Society of Health System Pharmacists (ASHP) Foundation Junior Investigator Research Grant, **\$18,000**. May 2007 – April 2009.

INSTRUCTION – UAMS College of Pharmacy

CURRENT

Coordinator, Lecturer, and Facilitator

PHPR 73002 Pharmacy Law and Ethics
PHPR 71232 Principles of Pharmacy Practice II

Lecturer

PHPR 72004 Principles of Pharmacy Practice
PHPR 71143 Social and Administrative Sciences I
PHPR 71133 Principles of Pharmacy Practice I

Facilitator

PHPR 71101 Longitudinal Laboratory I

PREVIOUS (selected)

Small Group Facilitator and Lecturer

PHPR 71042 Career Orientation and Communication

Coordinator, Lecturer, and Facilitator

PHPR 71071 Introduction to Patient-Centered Communication

Elective

PHPR 7354 Treatment Adherence

Instructor and Lecturer

PHPR 5654 Pharmacy Practice III: Injection Certification Lab, EKG Interpretation

Lecturer

PHPR 4625 Therapeutics I
PHPR 5342 Geriatrics Therapeutics
PHPR 5442 Introduction to Research Methods
PHPR 5362 Drug Induced Diseases
PHPR 5472 Problem based learning in pediatrics
PHPR 7309 Addiction
PHPR 7151: Death and Dying
PHPR 7304 Therapeutics III
PHPR 71082 Drug Information

Special Problems Electives

Treatment Adherence, Manuscript Preparation, Research

Preceptor

PHPR 6714 Ambulatory Care Advanced Pharmacy Practice Experience
PHPR 6714 Direct Patient Care Advanced Practice Experience, Cardiology

INSTRUCTION – UAMS Graduate School (previous)

INTX 6653 Clinical Toxicology: “Drug-Drug Interactions”

INSTRUCTION – UAMS College of Medicine (previous)

Pharmacology/Toxicology Longitudinal Elective: “Antidepressants”, “Pharmacogenomics”

RESEARCH MENTORING

1. Brent Curry, PharmD: Arkansas Children's Hospital/UAMS PGY1 resident 2020-21, project "Investigation into current enoxaparin dosing among various patient populations within a pediatric hospital"
2. Jessica Baker, PharmD: ACH/UAMS COP PGY1 resident 2018-19, project "Pharmacist Comfort with Pediatric Prescriptions: A State Survey"
3. Zhoumin Cai, PharmD: ACH/UAMS COP PGY1 resident 2017-18, project "Re-Evaluating Inhaled Corticosteroid Use in Cystic Fibrosis Patients Without Appropriate Diagnosis"
4. Joshua Robinson, PharmD: ACH/UAMS COP PGY1 resident 2016-17, project "Evaluation of Vitamin D Dosing in Children with Cystic Fibrosis"
5. Jonathan Martinez, PharmD: ACH/UAMS COP PGY1 resident 2015-16, project: "Medication Reconciliation: Creating the Best Possible Home Medication List"
6. Andrew Houck, PharmD: ACH/UAMS COP PGY1 resident 2014-15, project: "Quality Improvement in Asthma Patient Education: Comparison of Parent/Patient and Health Care Professional Perspectives"
7. Grant Florer, UAMS COP 2013 summer research fellow, project: "Adherence to new guidelines for the treatment of pediatric fever and neutropenia: a retrospective study of cases treated at Arkansas Children's Hospital"
8. Karisma Patel, PharmD: ACH/UAMS COP PGY1 resident 2012-13, project: "Risk factors associated with the development of multi-drug resistant *Pseudomonas aeruginosa* in children and adults with cystic fibrosis"
9. Trinity Lahti, PharmD: ACH/UAMS COP PGY1 resident 2011-12, project: "Interactive Patient Cases: Development and Evaluation of a Novel Nontraditional Teaching Method"
10. Kirsten Boggs, PharmD: ACH/UAMS COP PGY1 resident 2011-12, project: "Effect of ADHD Medication Use on Nutritional Status and Need for Nutritional Intervention in Pediatric Subjects with Cystic Fibrosis"
11. Rachael McCaleb, UAMS COP 2011 and 2012 summer research fellow, project: "A retrospective analysis of the antimicrobial colonization/infection in the respiratory tract of individuals with neurodisabilities who are tracheostomy dependent"
12. Sarah Norman: UAMS COP 2010 summer research fellow, project: "IV or No IV: Eradication of *Pseudomonas aeruginosa* in Pediatric Cystic Fibrosis Patients"
13. Jonathan Barham: UAMS COP 2009 summer research fellow, project: "Impact of chronic inhaled tobramycin on incidence of tobramycin resistant *pseudomonas aeruginosa* in cystic fibrosis"
14. Starr McLain, PharmD: ACH/UAMS COP PGY1 resident 2009-10, project: "Medication adherence in adolescents and young adults post-liver and renal transplant: Self-reported barriers and strategies for improvement"

PRESENTATIONS (selected)

1. "Yes, Ethics Applies to That! Incorporating Ethics into Pharmacotherapy Education" presented at the AACP Annual Meeting on July 20, 2025 in Chicago, IL with co-presenters Katherine Rotzenberg and Angela Baalman.
2. AACP Health Care Ethics SIG Quarterly Ethics Chat: "Preparing 2025 Graduates for Ethics Content on the NAPLEX" via webinar on May 16, 2025.
3. AACP Health Care Ethics SIG Quarterly Ethics Chat: "Ethical Issues Related to the use of CFTR Modulators in Pregnancy" via webinar on November 15, 2024
4. Motivational Interviewing introductory series for pediatricians with a focus on working with HPV vaccine hesitancy; coordinated by the Arkansas chapter of AAP; provided 7.5 hours of CME with MOC. Presentation dates April 18th and 25th, and May 2nd and 4th 2023. Modified content to provide 4 hours of CME with MOC in 2024 (presentation dates May 23rd and 30th, June 6th and 20th).
5. "What, So What, Now What: Tools for Targeting Health Care Disparities" Presented with Kam Nola, PharmD, for the AACP Health Disparities and Cultural Competence SIG webinar on April 3, 2023.
6. "Azithromycin – Chronic use in Cystic Fibrosis" Presented at the Pulmonary/CF meeting at Arkansas Children's Hospital in Little Rock, AR on December 20, 2019.
7. "Addressing Bias in Naloxone and Medical Marijuana Patient Counseling" Presented November 17, 2019 at the 2019 Pharmacy Update continuing education event at Little Rock, AR.
8. "MRSA – Old Enemy, New Strategies", facilitation of a roundtable at the 2018 North American Cystic Fibrosis Conference, October 20th, in Denver, Colorado
9. "Drug Interactions", Presented to the lay public and health care professionals at the Cathedral of St. Andrew Health and Wellness Workshop in Little Rock, AR, May 19 2018.
10. "Interprofessional Clinical Teams" Presented at the Connection Across Professions/LEGOS Teleconference at UAMS, April 4 2018 (1.0 hour of Certified Health Education Specialist credit, 1.0 ACPE contact hour, 1.0 contact hour of AMA PRA category 1 CME credit).
11. "Communication is key: Innovative Curriculum Prepares Students for Patient Care" Presented at the UAMS 2016 Alumni Weekend (with Michelle Piel, Pharm.D.)
12. "Motivational Interviewing" Presented at the 2016 Annual Meeting of the Arkansas Pharmacists Association, July 2016, Hot Springs, AR
13. "Collaborative CF Pharmacist Research: Multicenter Evaluation to Establish Patterns of Treatment of MRSA in CF Patients – Preliminary Results" Presented at the 2015 North American Cystic Fibrosis Conference on October 2015, Phoenix, AZ (part of a 2 hr ACPE accredited CE)

14. "Research & Collaboration: What are CF Pharmacists Doing?: Multi-center Evaluation to Establish Patterns of Treatment of MRSA in Cystic Fibrosis Patients" Presented at the 2014 NACFC in October 2014, Atlanta GA (part of a 2 hr ACPE accredited CE)
15. "Motivational Interviewing: A Patient-Centered Approach to Communication" Arkansas Association of Health-System Pharmacists Fall Seminar, Little Rock, AR (1 hr, ACPE accredited CE), October 2014
16. "Medication Safety: Everyone has a role" and "UAMS Patient Safety Initiatives" Presented at the 2014 Arkansas Children's Hospital CF Family Resource Day to a group of caregivers and health care professionals
17. "Medication Safety: Everyone has a role" Presented to a group of caregivers and health care professionals at the 2013 Family Resource Day for the Arkansas Center for Respiratory Technology Dependent Children, Little Rock, AR, June 2013.
18. "Practical Pharmacology and Therapeutics of Antidepressants" Presented at the 2013 Arkansas Nurses Association Advanced Pharmacotherapeutics Seminar, Little Rock, AR, June 2013. Approved for CE accredited by the American Nurses Credentialing Center's Commission on Accreditation
19. "Merging the New and the Old: Adult Perspective" and "Merging the New and the Old: Discussion" Presented at the 2012 NACFC in October 2012, Orlando FL (1.25 hrs ACPE accredited CE)
20. "Bone Health in Cystic Fibrosis: Development of a Research Program from a Young Faculty Perspective" UAMS College of Pharmacy Seminar Series. August 26, 2011
21. "OTC Cough and Cold Medications in Children" PedsPlace at Arkansas Children's Hospital, approved for physician CME, broadcast to distant sites around Arkansas. March 31, 2011. Presented to medical residents and faculty at UAMS Family Medicine resident conference on April 27, 2011 and to pharmacists at the UAMS College of Pharmacy Last Chance CE Program, December 2011.
22. "Sinonasal Drug Administration in Cystic Fibrosis" Presented at the 2010 NACFC, Baltimore MD (1 hr ACPE 816-999-10-016-L01-P). This was also presented as an encore to the Pulmonary division at Arkansas Children's Hospital on 2/11/11.
23. "Medication Adherence in CF – Adherence Survey" Presented at 8th Annual CF Family Resource Day to an audience of multidisciplinary health care professionals and parents of children with cystic fibrosis, September 2009
24. "Safe Use of OTC Cough and Cold Medications in Children" Glass Lectureship – Regional Continuing Education Program, Pharmacist CE, Helena, AR (1 hr, ACPE 004-000-08-046-L01-P), November 2008

PROFESSIONAL SERVICE – Local

2024 – present	UAMS HLC reaffirmation of accreditation process, committee member
2023 – present	UAMS COP Resident Teaching Certificate Program, director 2024-present, co-director 2023-2024, portfolio review committee chair and member
2023 – present	UAMS Pharmacy and Therapeutics Targeted Drug Review Subcommittee
2023	Support of Didactic Curriculum Delivery & Student Success ad hoc committee, UAMS College of Pharmacy (COP)
2023 – 2024	Chancellor's Green House Gas Project, committee member, UAMS
2022 – 2023	UAMS COP Drug Information/Principles of Pharmacy Practice Revision Ad Hoc Committee
2021 – 2024	UAMS COP Curriculum Transformation Committee
2021 – present	Residency Research Certificate Program Committee
2020 – 2021	Self-study working group leader, UAMS COP
2017 – present	OSCE Board, member, UAMS COP
2017 – 2021	Curriculum 2025 ad hoc committee, UAMS COP; Chair 2017-2021
2019 – 2021	Arkansas Children's Hospital Cystic Fibrosis Transition Committee
2016 – 2020	Promotion and Tenure Committee, UAMS COP
2015 – 2017	Admissions Committee, UAMS COP
2015 – 2017	Curriculum Committee, UAMS COP; Chair 2016 - 2017
2014 – 2017	Administrator/moderator, UAMS Cystic Fibrosis Facebook group for adults
2011 – present	UAMS COP Teaching Certificate Program mentor
2011 – 2012	Family Resource Day Committee, Arkansas Center for Respiratory Technology Dependent Children
2010 – 2016	Faculty advisor, Student Society of Health-System Pharmacists
2010 – 2011	Cystic Fibrosis Family Resource Day Committee
2009 – 2016	Arkansas Association of Health-System Pharmacists, board member Fall Seminar student programming co-chair, 2013 & 2014
2009 – 2015	Continuing Education Committee, UAMS COP
2009 – 2015	Student Research Committee, UAMS COP (Chair 2010-2014)
2009 – 2021	Cystic Fibrosis Nutrition Committee, Arkansas Children's Hospital
2009 – 2021	Cystic Fibrosis QI and Research Committee, Arkansas Children's Hospital
2007 – 2016	UAMS COP Admissions Multiple Mini Interview Write and review cases, summarize data, train interviewers
Various years	Judge, SSHP Clinical Skills Competition, UAMS COP

PROFESSIONAL SERVICE – National

2025 – present Chair, American Association of Colleges of Pharmacy (AACP) Health Care Ethics SIG
2022 – 2023 AACP Health Disparities and Cultural Competence SIG Programming Committee, member
2022 – present AACP Social and Administrative Sciences Section, Curriculum Committee, member
2022 – present Reviewer, Walmart Health Equity Scholarship
2021 – present Reviewer, CVS Minority Health Scholarship
2020 – 2022 Editorial board member, AACP Ethics SIG Newsletter
2012 – 2017 Reviewer, ASHP Foundation Pharmacy Resident Practice-Based Research Grant
2012 – 2021 Reviewer, Walmart Scholar Program, AACP
2010 – 2012 Vitamin D Management Guidelines Committee, Cystic Fibrosis Foundation
2008 Reviewer, Crystal APPLE Award, AACP

CERTIFICATIONS

2006	Postgraduate Teaching Course	UAMS College of Pharmacy
2005	Authorization to administer immunizations	Arkansas State Board of Pharmacy
2004	CPR certification	American Red Cross

PROFESSIONAL DEVELOPMENT

August 2013 American College of Clinical Pharmacy Focused Investigator Training
August 2012 Comprehensive Motivational Interviewing Training (comMIt™)
August 2010 Auburn University Motivational Interviewing Training Institute

PROFESSIONAL ORGANIZATIONS

2019 – present American Society for Bioethics and Humanities
2009 – 2013 American College of Clinical Pharmacy, full member
2008 – 2010 Pediatric Pharmacy Advocacy Group
2005 – 2017 Arkansas Association of Health-System Pharmacists (AAHP)
2005 – present American Association of Colleges of Pharmacy (AACP)
2005 – present Arkansas Pharmacists Association (APA)
2003 – present Rho Chi Honor Society, Beta Iota Chapter

HONORS AND AWARDS

- 2019 - 2022 Loyola University Chicago Dean's Scholarship for Master of Arts in Bioethics and Health Policy
- 2018 John and Donna Wolfe Award for Faculty Excellence, UAMS College of Pharmacy
- 2010 Co-author and faculty mentor of poster winner at the Arkansas Association of Health-System Pharmacists annual Fall Seminar (student and primary author, Sarah Norman)
- 2007 Wal-Mart Annual Conference Scholarship to attend the AACP Teachers Seminar AACP Annual Meeting (Orlando, FL)
- 2006 Wal-Mart Annual Conference Scholarship to attend the AACP Teachers Seminar AACP Annual Meeting (San Diego, CA)
- 2005 Faculty Gold Key, UAMS College of Pharmacy
- 2005 APhA Mortar and Pestle Professionalism Award, UAMS College of Pharmacy
- 2004 Who's Who in American Colleges and Universities, UAMS College of Pharmacy
- 2004 AAHP Scholarship, UAMS College of Pharmacy
- 2004 ASHP National Clinical Skills Competition Top Ten Finalist
ASHP Midyear Clinical Meeting (Orlando, FL)
- 2003, 2004 Jordin Scholar, UAMS College of Pharmacy scholarship

SELECTED COMMUNITY ACTIVITIES

- 2013 – 2014 Boomer Esiason Foundation, member of Team Boomer for the 2013 Bank of America Chicago Marathon, 2014 Little Rock Marathon
- 2011 – present Volunteer, Cathedral of St. Andrew, Little Rock, AR
- 2001 – 2022 Volunteer pharmacist, Westside Free Medical Clinic, Catholic Diocese of Little Rock, Member of advisory board (2008)