**David C. Young**

Home Address: Work Address:

560 N 870W University of Utah College of Pharmacy

West Bountiful, UT 84087 Department of Pharmacy Practice

(801) 294-5520 30 South 2000 East Rm 258

 Salt Lake City, UT 84112 (801) 581-8510

 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**EDUCATION AND TRAINING:**

1995-1996 Primary Care Pharmacy Residency. Idaho State University

and Family Practice Residency of Idaho, Boise, Idaho

* 1. Doctor of Pharmacy. Idaho State University, Pocatello,

Idaho.

**APPOINTMENTS:**

Current

2012-present Co-Coordinator, North American Cystic Fibrosis Foundation Pharmacist Mentorship Program

2012-present Chairman, Utah State Board of Pharmacy

2011-present Member, North American Cystic Fibrosis Foundation Annual Meeting Planning Committee

2011-present Member, National Association of Boards of Pharmacy Multistate Pharmacy Jurisprudence Examination Committee

2009-present Member, Division of Occupational & Professional Licensing Controlled Substances Advisory Committee

2009-present Member, Cystic Fibrosis Related Diabetes Guideline Committee

2009-present Vice Chair, Department of Pharmacotherapy

2007-present Member, Utah State Board of Pharmacy

2004-present Associate Professor (Clinical), University of Utah College of Pharmacy

2003-present Coordinator of Student Affairs, University of Utah College of

Pharmacy

2002-present Member, Utah Asthma Task Force, Utah Department of Health

2002-present Advisor, Utah Student Pharmacists Association (USPA)

Past

2007-2012 Member, Utah State Board of Pharmacy

2000-2006 Member, National Association of Boards of Pharmacy Disease State Management Review Committee

1998-2003 Assistant Professor (Clinical), University of Utah College of

Pharmacy

* 1. Member, American Lung Association of Utah Board

1999-2002 Advisor, Academy of Students of Pharmacy University of Utah College of Pharmacy

* 1. Clinical Assistant Professor, University of Utah College of

Pharmacy

* 1. Clinical Pharmacist, University of Utah Hospitals & Clinics
	2. Adjunct Instructor, Idaho State University College of

Pharmacy

**PUBLICATIONS:**

Clinical

1. **David C. Young, Pharm.D**.; Jeffery T. Zobell, Pharm.D.; Chris Stockmann, MSc; Dustin Waters, Pharm.D.; Krow Ampofo, M.D.; Catherine M.T. Sherwin, Ph.D.; Michael Spigarelli, M.D., Ph.D. Optimization of Anti-pseudomonal Antibiotics for CysticFibrosis Pulmonary Exacerbations: IV. Aminoglycosides. Pediatric Pulmonol.  2012 (submitted)
2. Jeffery T. Zobell, Pharm.D.; Dustin Waters, Pharm.D.; **David C. Young, Pharm.D**.; Chris Stockmann, MSc; Krow Ampofo, M.D.; Catherine M.T. Sherwin, Ph.D.; Michael Spigarelli, M.D., Ph.D. Optimization of Anti-pseudomonal Antibiotics for CysticFibrosis Pulmonary Exacerbations: VI. Executive Summary. Pediatric Pulmonol.  2012 (Accepted for publication)
3. Jeffery T. Zobell, Pharm.D.; Christina Ferdinand, Pharm.D; **David C. Young, Pharm.D.** Continuous Infusion Meropenem and Ticarcillin-clavulanate in Pediatric Cystic Fibrosis Patients. Pediatric Pulmonol.  2012 (submitted)
4. **David C. Young, Pharm.D**.; Jeffery T. Zobell, Pharm.D.; Dustin Waters, Pharm.D.; Krow Ampofo, M.D.; Chris Stockmann, MSc; Catherine M.T. Sherwin, Ph.D.; Michael Spigarelli, M.D., Ph.D. Optimization of Anti-pseudomonal Antibiotics for CysticFibrosis Pulmonary Exacerbations: IV. Colistimethate sodium. Pediatric Pulmonol.  2012; 48(1):1-7.
5. Chris Stockmann, MSc; Catherine M.T. Sherwin, Ph.D.; Jeffery T. Zobell, Pharm.D.; **David C. Young, Pharm.D**.; Dustin Waters, Pharm.D.; Michael Spigarelli, M.D., Ph.D.; Krow Ampofo, M.D. Optimization of Anti-pseudomonal Antibiotics for CysticFibrosis Pulmonary Exacerbations: III. Fluoroquinolones. Pediatric Pulmonol.  2012 (DOI: 10.1002/ppul.22667)
6. Jeffery T. Zobell, Pharm.D.; Dustin Waters, Pharm.D.; **David C. Young, Pharm.D**.; Chris Stockmann, MSc; Krow Ampofo, M.D.; Catherine M.T. Sherwin, Ph.D.; Michael Spigarelli, M.D., Ph.D. Optimization of Anti-pseudomonal Antibiotics for CysticFibrosis Pulmonary Exacerbations: II. Penicillins and Cephalosporins. Pediatric Pulmonol.  2012 (DOI: 10.1002/ppul.22669)
7. Jeffery T. Zobell, Pharm.D.; Dustin Waters, Pharm.D.; **David C. Young, Pharm.D**.; Chris Stockmann, MSc; Krow Ampofo, M.D.; Catherine M.T. Sherwin, Ph.D.; Michael Spigarelli, M.D., Ph.D. Optimization of Anti-pseudomonal Antibiotics for CysticFibrosis Pulmonary Exacerbations: I. Aztreonam and Carbapenems. Pediatric Pulmonol.  2012; 47(12):1147-1158.
8. Zobell JT, **Young DC**, Chatfield BA.  Intermittent and extended-infusion Beta-Lactam utilization in cystic fibrosis.  Pediatric Pulmonol.  2012 (DOI:  10.1002/ppul.22641)
9. Carl Victor Asche, Shelah Leader, Craig Plauschinat, Ming Yan, Xiangyang Ye, **David C. Young.** Adherence to current guidelines for chronic obstructive pulmonary disease (COPD) among patients treated with combination of long-acting bronchodilators or inhaled corticosteroids. International Journal of COPD 2012;7:201-209.
10. Jeffery T. Zobell, Pharm.D., **David C. Young, Pharm.D.**, C. Dustin Waters, Pharm.D., BCPS, Krow Ampofo, M.D., Jared Cash, Pharm.D., BCPS, Bruce C. Marshall, M.D., Jared Olson, Pharm.D.,and Barbara A. Chatfield, M.D. A Survey of the Utilization of Anti-Pseudomonal Beta-Lactam Therapy in Cystic Fibrosis Patients. Pediatric Pulmonology 2011;46:987-990.
11. Jeffery T. Zobell, Pharm.D., Chris Stockmann, Ph.D.; Krow Ampofo, MD; **David C. Young, Pharm.D.**; Jared Cash, Pharm.D., BCPS; Brittany J. McDowell, Kent Korgenski, MS,MT(ACSP); Barbara A. Chatfield, MD. Pharmacodynamic Modeling of High Dose Intermittent Ticarcillin-clavulanate Administration In Pediatric Cystic Fibrosis Patients. Clinical Therapeutics 2011 Jul;9(4):280-3
12. Jeffery T. Zobell, Krow Ampofo, Jared Cash, Kent Korgenski, Barbara A. Chatfield **(Acknowledgements Young DC)**. High dose intermittent ticarcillin–clavulanate administration in pediatric cystic fibrosis patients.; Journal of Cystic Fibrosis - July 2010; 9(4):280-283.
13. Peterson KA, Samuelson WM, Ryujin DT, **Young DC**, Hilden K, Thomas KL, Fang JC. The Role of Gastroesophageal Reflux (GERD) in Exercise-Triggered Asthma: a randomized, controlled trial. Dig Dis Sci 2008 Aug 8: 564-71
14. Brixner D, Lenhart G, **Young DC**, Samuelson W. Impact of changing trends in asthma prescribing on asthma exacerbations and drug costs over six years. Current Medical Research and Opinions. 2007;23(11):2887-2895
15. Brooks TW, Creekmore FM, **Young DC**, Asche CV, Oberg B, Samuelson WM. Rates of hospitalizations and emergency department visits in patients with asthma and chronic obstructive pulmonary disease taking beta-blockers. Pharmacotherapy. 2006 May;27(5):684-90.
16. **Young DC**, Bleyl K, Clark T, Liou T. Increasing Pneumococcal Vaccination Rates Among Adult Cystic Fibrosis Patients. Am J Health Syst Pharm 2004;61:1490-1493.
17. Ng TM, Munger MA, Lombardi WL, Doing TH, Ryujin DT, **Young DC**, Lugo RA. Chronically inhaled salmeterol improves pulmonary function in heart failure. J Cardivasc Pharmacol 2002 Jul;40(1):140-145.

Textbook Chapters

 Stults BM, Dunson WM, **Young DC**. Management of Hypertension in Diabetes Mellitus. In: Jones RE, Kulkarni K, editors. Utah Diabetes Management Handbook. 2nd ed. Salt Lake City: Buckboard Press; 2002 p. 25.1-25.10.

Abstracts

1. Zubin Bhakta, **David C. Young**, Zobell, JT, Chin M, Sabadosa K, Kuhn R. A Survey of the Pharmacist’s Role at Provided Care at U.S. Cystic Fibrosis Foundation (CFF)-accredited Centers. (Accepted for presentation at the American Society of Health System Pharmacist Midyear Meeting, Las Vegas, Nevada, December 2012)
2. **David C. Young, Pharm.D.** Maximizing Benefit/Minimizing Risk: PK-PD Considerations of Antipseudomonal Antibiotics. Pediatr Pulmonol 2011 Oct; Suppl 34: 155
3. Jeffery T. Zobell, Pharm.D., Chris Stockmann, Ph.D.; **David C. Young, Pharm.D.**; Jared Cash, Pharm.D., BCPS; Catherine Sherwin, Ph.D.; Mike Spigarelli, M.D., Ph.D.; Barbara A. Chatfield, MD; Krow Ampofo, M.D. Population pharmacokinetics (PK) and pharmacodynamics (PD) modeling of ticarcillin-clavulanate in pediatric CF patients. Pediatr Pulmonol 2011 Oct; Suppl 34: 277
4. Asche CV, Leader S, Plauschinat C, Raparla S, Yan M, Ye X, **Young D**. Adherence to Current Guidelines for Chronic Obstructive Pulmonary Disease (COPD) in Subjects Treated with Combination of Long-Acting β2-Agonist (LABA), Long-Acting Muscarinic Antagonist (LAMA) or Inhaled Corticosteroids (ICS). (Accepted for poster presentation at the American Thoracic Society National Conference, Denver, Colorado, May 2011)
5. Gallegos, Amanda; **Young, David C**; Clark, Teresa; Kinsfather, Jennifer; Scott, Peggy; Carveth, Holly; Liou, Theodore G. Improving the use of beneficial therapies in adult cystic fibrosis patients. Pediatr Pulmonol 2008 Oct; Suppl 43: 586
6. Liou, Theodore; Brayshaw, Sara; Brown, Mark; Chatfield, Barbara; Jensen, Judy; McDonald, Catherine; Koenig, Joni; Peet, Kim; Radford, Peggy; Reineke, Linda; Otsuka, Kim; Wagener, Jeffrey; **Young, David**. Improving Performance in the Detection and Management of CFRD in the Mountain West CF Consortium. Pediatr Pulmonol 2006 Sept; Suppl 29: 363
7. Asche CV, Brixner D, Conoscenti CS, **Young DC,** Shah H, Phillips AL. Assessment of physician prescribing for primary care patients with chronic obstructive pulmonary disease (COPD) in a national electronic medical record (EMR) research database. Chest 2006 Oct: 130(4):175S
8. Brooks TA, Creekmore FC, **Young DC,** Asche CV, Oberg B. Hospitalization & emergency room visit rates in asthma and chronic obstructive pulmonary disease patients taking beta-blockers. (Accepted for presentation at the American College of Clinical Pharmacists Annual Meeting, St Louis, MO, October 2006)
9. Peterson K, Fang J, Canale C, Ryujin D, **Young D,** Samuelson W. The Role of Gastroesophageal Reflux (GERD) in Exercise-Triggered Asthma (Accepted for presentation at Digestive Disease Week Annual Meeting, Los Angeles, CA May 2006)
10. **Young DC,** Shane-McWhorter L, Bleyl K, Odereda G, Haddadin B, Jensen J, Carver H, Liou T. Cystic Fibrosis Related Diabetes Education (CFRD-E) Survey: A National Perspective. Pediatr Pulmonol 2005 Sept; Suppl 28: 355
11. Canale C, **Young DC,** Koelliker E, Samuelson W, Peterson K. Silent Gastroesophageal Reflux and Asthma: The value of empiric acid suppression therapy. Chest 2004;126 (4):705S
12. **Young DC,** Bleyl K, Clark T, Liou T. Improving Pneumococcal Vaccination Rates Among Adult Cystic Fibrosis Patients. Pediatr Pulmonol 2003 Sept; Suppl 25: 324-325
13. Peterson K, Samuelson W, Koelliker E, Canale C, **Young DC,** Fang J, Wong R. Prevalence of gastroesophageal reflux in asymptomatic asthmatics: can it contribute to respiratory symptoms? (Presented to the American Association for the Study of Liver Disease, American Gastroenterologic Association, American Society for Gastrointestinal Endoscopy, and the Society for Surgery of the Alimentary Tract Annual Meeting, Orlando, FL, May 2003).
14. **Young DC,** Gunning K. Integration of Immunization Training into a College of Pharmacy Curriculum. (Presented to the Centers for Disease Control National Immunization Conference, Chicago, IL, March 2003).
15. **Young DC,** Samuelson W, Sullivan C, Wolfgramm L. Asthma Education: The Role of the Clinical Pharmacist. Chest 2001;120(4)suppl:219S (Presented to the American College of Chest Physicians Annual Meeting, Philadelphia, PA, November 2001).
16. NG TMH, Lombardi W, Doing T, **Young D,** and Munger M. Are inhaled ß-agonist beneficial and safe in heart failure? Clin Pharmacol Ther 2001;69(2):PII-10. (Presented to 2001 American Society of Clinical Pharmacology and Therapeutics Annual Meeting, Orlando, FL, March 2001).

Newsletters

1. **Young, DC.** The flu & you. Intermountain Cystic Fibrosis Center Newsletter October 2006.
2. **Young, DC.** Is nebulized oregano oil safe to use in cystic fibrosis. Intermountain Cystic Fibrosis Center Newsletter April 2006.
3. **Young, DC.** Update on the flu. Intermountain Cystic Fibrosis Center Newsletter October 2005.
4. **Young, DC.** Flu vaccine is in short supply Intermountain Cystic Fibrosis Center Newsletter October 2004.
5. **Young, DC.** Prevention is the Cure for “the flu.” Intermountain Cystic Fibrosis Center Newsletter October 2003.
6. **Young, DC.** Cold or Flu? “tis the season”. Intermountain Cystic Fibrosis Center Newsletter October 2002.
7. **Young, DC**. Pancreatic Enzymes are Not All Created Equal. Intermountain Cystic Fibrosis Center Newsletter April 2001.
8. **Young, DC.** Flu Shot Recommended. Intermountain Cystic Fibrosis Center Newsletter October 2001.
9. **Young, DC.** Leukotriene Modifiers. Utah Society of Health-System Pharmacists Newsletter July 1999.

 Book Reviews

**Young, DC.** Rev. of New Drugs for Asthma, Allergy, and COPD. Basel, by Trevor J Hansel and Peter J Barnes. Resp Care 2002;47(12):1479-1480.

Disease State Education

1. Asthma Inhaler Technique Video for Utah Department of Health. 2012. (<http://www.youtube.com/watch?v=Rdb3p9RZoR4>)
2. Asthma Medication Provider Manual for Utah Department of Health. Updated 2010.

(<http://www.health.utah.gov/asthma/pdf_files/Provider_manual/2010_medications_asthma.pdf>)

1. Asthma education handouts for Utah Department of Health. Updated 2009.

(<http://health.utah.gov/asthma/professionals/pharmacy.htm>)

**GRANTS:**

Clinical Service Salary Support

1. Division of Respiratory, Critical Care & Occupational Pulmonary Medicine (2002-current) **(ACTIVE $11,709)**

1. University Hospitals & Clinics Inpatient Pharmacy (2005-current)

**(ACTIVE $27,966)**

Current

1. Jeffery T. Zobell, Pharm.D.; **David C. Young, Pharm.D**.; Chris Stockmann, MSc; Krow Ampofo, M.D.; Barbara A Chatfield, M.D.; Jared Olson, Pharm.D.; Catherine M.T. Sherwin, Ph.D.; Michael Spigarelli, M.D., Ph.D.; Elliott Dasenbrook, M.D.,M.H.S. A Survey of the Utilization of Anti-staphylococcal Antibiotics at U.S. CF Centers **(ACTIVE)** Unfunded.
2. Zubin Bhakta, **David C. Young**, Zobell, JT, Kuhn R. A Survey of the Pharmacist’s Role at Provided Care at U.S. Cystic Fibrosis Foundation (CFF)-accredited Centers. **(ACTIVE)** Unfunded.
3. **David C. Young**, Zobell, JT, Kuhn R. A Survey of the Pharmacists Provided Care at U.S. CFF-accredited Centers. **(ACTIVE)** Unfunded.

1. Asche Carl V, **Young David**, Yu Junhua, Ye Xiangyang, Oberg Brian. Comparative Effectiveness of Dual Bronchodilation for Treatment of Chronic Obstructive Pulmonary Disorder (COPD) in a Usual-Care Setting (Co-Investigator) Novartis Pharmaceuticals **(ACTIVE)** **$299,798.**
2. **Young DC,** Zobell J, Jorgensen R, Jennings B, Wagner D, Jolley T, Atherton A, Fitzpatrick R, Samuelson W. Impact of individualized, pharmacist-provided asthma education in an Asthma Care Pharmacy (Principal Investigator) Marriner S Eccles Foundation(2009-current) **(ACTIVE)** **$6,500.**
3. Gallegos A, **Young DC,** Liou TG, Carveth H. Cystic Fibrosis Quality Improvement Study. (Co-Investigator & Mentor) (2007-current). **(ACTIVE)** Unfunded.
4. Asche C, Brixner D, **Young D.** COPD: Impact of Intervention on Compliance to the recommended HEDIS guidelines, Clinical Outcomes and Cost of Illness. (Co-investigator) Boehringer-Ingelheim (2006-current) **(ACTIVE)** **$153,000.**
5. Peterson K, Samuelson W, Go M, **Young DC**, Sturrock A, Kuwada S, Ryujin D. Elucidation of Acid-Induced Pulmonary Inflammation (Co-Investigator) Tap Pharmaceutical Products Inc. (2005-current) **(ACTIVE) $111,345**.
6. **Young DC,** Shane-McWhorter L, Liou TG, Bleyl K, Jensen J, Oderda GM. Cystic Fibrosis Related Diabetes Education (CFRD-E) Survey. (Principal Investigator) (2004-current) **(ACTIVE)** Unfunded.
7. **Young DC**, Lugo RA, VanAarle P. Weight-based assessment of metered-dose inhaler contents. (Principal Investigator) Glaxo-SmithKline (2003-current) **(ACTIVE) $4500.**
8. Peterson K, Samuelson W, Canale C, **Young DC**. Prevalence of Asymptomatic gastroesophageal reflux in asthmatics: Can it contribute to respiratory symptoms. (Co-Investigator) (2003-current) **(ACTIVE)** Unfunded.

Completed

1. Peterson K, Ryujin D, Mannebach S, Samuelson W, Fang J, **Young DC**. Effect of Acid Reflux on Respiratory Physiology during Exercise in Athletes with GER-Response to Acid Suppression. (Co-Investigator) AstraZeneca Pharmaceuticals (2006-current) $105,400.
2. Samuelson W, Ryujin D, **Young D**, Scholand M, Hoidal J, Leppert M. Asthma Database “Wheeze” (Co-Investigator) (Completed 1998-2007)Unfunded.
3. **Young DC**, Bleyl K, Clark T, Liou T. Increasing Pneumococcal Vaccination Rates Among Adult Cystic Fibrosis Patients. (Principal Investigator) (Completed 2003-2004) Unfunded.
4. **Young DC**, Samuelson WM, Sullivan CA. A pilot study: Impact of individualized, pharmacist-provided asthma education in an adult asthma clinic. (Principal Investigator) Astra-Zeneca (Completed 2000-2001) $2500.
5. Ng TM, Munger MA, Lombardi WL, Doing TH, Ryujin DT, **Young DC**, Lugo RA. Chronically inhaled salmeterol improves pulmonary function in heart failure. Public Health Service Research Grant-in-Aid M01-RR00064 (Co-Investigator) National Center for Research Resources (Completed 1999-2000) $10,600.

Pending

1. Evaluation and Costs of Survivorship of Cystic Fibrosis (Co-Investigator) Cystic Fibrosis Foundation **(SUBMITTED)** **$314,697.**

Closed

1. **Young DC**, Liou T, Bleyl K, Clark T, Munger M. Pharmacokinetics of standard versus high doses of salmeterol in adult cystic fibrosis patients. (Principal Investigator) This investigation was supported by GCRC Grant no. M01-RR00064 from the National Center for Research Resources (2003-current) $35,000.
2. Reilly C, Samuelson W, **Young D**, Wenshilboum R. Genetic Polymorphisms in SOCS5 and IL-4R alpha-chain and Pro-Inflammatory Signaling in Asthma. (Co-Investigator) (Closed 2007)Unfunded.
3. Peterson K, Go M, Samuelson W, **Young DC**. Acid suppression: will it suppress more than gastroesophageal reflux (GER) (Co-Investigator) (Closed 2007)Unfunded.

**COPYRIGHTS:**

 Providers United For Improving Inhaler Technique (PUFIIT SCALE) (Submitted

 to Library of Congress in May 2003)

**POST GRADUATE TRAINING PROGRAM:**

Internal Medicine Post Graduate Year 2 (PGY2) Pharmacy Residency Program

2012-present Director, Department of Pharmacy Practice, University of Utah Hospitals & Clinics, Salt Lake City, Utah

 Zubin Bhakta (2012-2013)

2003-2007 Co-director, Department of Pharmacy Practice, University of Utah Hospitals & Clinics, Salt Lake City, Utah

Tyson Brooks (2005-2006)

Kyle Mills (2004-2005)

Nicole Bohm (2004-2005)

Russell Christensen (2003-2004)

University of Utah Hospitals & Clinics

2003-present Preceptor **(4 week Pulmonary Internal Medicine)**, Department of Pharmacy Practice, University of Utah, Salt Lake City, Utah

Ian Ford (2012-2013)

Adya Mishra (2012-2013)

Nikki Milne (2009-2010)

Paola Ponce (2008-2009)

Tyson Brooks (2005-2006)

Kyle Mills (2004-2005)

Russell Christensen (2003-2004)

2000-present Preceptor **(12 month continuity ambulatory clinic)**, PGY2, Department of Pharmacy Services, University of Utah Hospitals & Clinics, Salt Lake City, Utah.

Tyson Brooks (2005-2006)

 Kyle Mills (2004-2005)

 Sarah Feddema (2002-2003)

 David Peterson (2001-2002)

1998-present Preceptor **(4 week ambulatory care)**, PGY1, Department of Pharmacy Services, University of Utah Hospitals & Clinics, Salt Lake City, Utah.

Kinjal Parikh (2011-2012)

Nathan Votroubek (2010-2011)

Paola Ponce (2007-2008)

David Canaan (2006-2007)

Benson Sederholm (2005-2006)

 Derrick VanBeuge (2002-2003)

Cathy Wick (2000-2001)

National Immunization Certification Program

2001-present Faculty, Pharmacist-Based Immunization Delivery Certificate Program American Pharmacists Association, Salt Lake City, Utah.

**TEACHING:**

 Didactic

 2012-present PCTH 7200 (Clinical Seminar) Co-moderator, 12 hours, 6 students

2012-present NURS 6021 (Physical Assessment) Lab co-section leader, 18 hours, 8 students

2002-present FP MD 6032 (Therapeutics in Primary Care II) Lecturer, 16 hours,

 38, students

 2000-present PCTH 7314 (Community Practice) Lecturer, 2 hours, 60 students

 2000-present PCTH 7321 (Introduction of Clerkship) Lecturer, 4 hours, 6 students

 1999-present PCTH 5222 (Diseases & Drug Therapy I) Lecturer, 14 hours, 60 students

 1999-present PCTH 5112 (Introduction to Profession of Pharmacy) Co-coursemaster (2012-13) Lecturer, 12 hours, 60 students

2002-2010 PHPRC 7322 (Diseases & Drug Therapy III) Lecturer, 4 hours, 20 students

1999-2009 PCTH 7100/7200 (Clinical Seminar) Course master, 75 hours, 100 students

1997-2007 PCTH 1010 (Survey of Pharmacy) Lecturer, 1 hour, 30 students

 2005-2007 MD ID 7090 (Social Medicine) Small Group Facilitator, 3 hours, 20

 students

2000-2005 NP6050 (Nurse Practioner Pharmacotherapy) Lecturer, 4 hours,

 35 students

1998-2002 PHPRC 6031 (Therapeutics in Primary Care I) Lecturer, 16 hours,

 30 students

1998-2002 PHPRC 5312/7312 (Diseases & Drug Therapy III) Lecturer, 10 hours, 49 students

 1997-2000 PHPRC 7314/5314 (Community Practice) Lecturer, 4 hours,

 50 students

Clerkship

1997-present PCTH 7511 (Ambulatory Care Clerkship) Preceptor. Responsible

 for teaching students the necessary skills to practice patient care in an adult ambulatory care clinic, 8-10 students/year

1997-2004 PHPRC 5411 (Drug Therapy Clerkship) Preceptor. Responsible

 for teaching students the necessary skills to practice patient care in an adult ambulatory care clinic, 3 students/year

**HONORS AND AWARDS:**

2011 PRECEPTOR OF THE YEAR, University of Utah College of Pharmacy

2011 DISTINGUISHED TEACHER OF THE YEAR (4th Year Class), University of Utah College of Pharmacy

 2010 DISTINGUISHED TEACHER OF THE YEAR (2nd Year Class), University of Utah College of Pharmacy

 2010 Nominated for Distinguished Teaching (1st & 4th Professional Year Classes) , University of Utah College of Pharmacy

2010 Nominated for Preceptor of the Year, University of Utah College of Pharmacy

2009 Nominated for Distinguished Teaching (2nd & 4th Professional Year Classes) , University of Utah College of Pharmacy

 2009 Nominated for Preceptor of the Year, University of Utah College of Pharmacy

2008 Nominated for Distinguished Teaching (2nd Professional Year Class), University of Utah College of Pharmacy

 2007 Nominated for Distinguished Teaching (3rd Professional Year Class), University of Utah College of Pharmacy

 2007 Nominated for Preceptor of the Year, University of Utah College of Pharmacy

 2006 Nominated for Distinguished Teaching (2nd Professional Year Class), University of Utah College of Pharmacy

 2006 Nominated for Preceptor of the Year, University of Utah College of Pharmacy

 2006 TEACHER OF THE YEAR, University of Utah

 Physician Assistants Program

 2003 DISTINGUISHED ALLIED HEALTH PROFESSIONAL TEACHING,

 University of Utah Physician Assistants Program

 2001 DISTINGUISHED TEACHING, University of Utah College of

 Pharmacy

1998 Outstanding Volunteer Award, Simplot Games

**PROFESSIONAL PRESENTATIONS:**

International/National:

1. “Advanced Drug Therapy for the Treatment of Acute Pulmonary Exacerbations”, Presented at the North American Cystic Fibrosis Conference Orlando, Florida, October 2012 (Short Course; Lead Instructor)
2. “Pharmacists Collaborating to Optimize Anti-staphylococcal and Anti-pseudomonal Antibiotic Utilization in CF”, Presented at the North American Cystic Fibrosis Conference Orlando, Florida, October 2012 (Pharmacist Caregiver Session)
3. “Maximizing Benefit/Minimizing Risk: PK-PD Considerations of Antipseudomonal Antibiotics”, Presented at the North American Cystic Fibrosis Conference Anaheim, California, November 2011 (Symposium Speaker)
4. “Strategies to Implementation of a Dedicated Pharmacist to the CF Team”, Presented at the North American Cystic Fibrosis Conference Anaheim, California, November 2011 (Pharmacist Caregiver Session)
5. “Endocrine Issues in CF” Presented at the North American Cystic Fibrosis Conference , Orlando, Florida, October 2008 (Symposium Co-Moderator)
6. “Continuous Infusion Beta-lactam antibiotics for acute CF exacerbations: lessons learned” Presented at the North American Cystic Fibrosis Conference , Orlando, Florida, October 2008 (Pharmacist Caregiver Session)
7. “Improving Performance in the Detection and Management of CFRD in the Mountain West CF Consortium” Presented at the North American Cystic Fibrosis Conference , Denver, Colorado, November 2006 (Endocrine Workshop Speaker)
8. “Treating Cystic Fibrosis Related Diabetes Education (CFRD) with Quality Improvement” Presented at the North American Cystic Fibrosis Conference Short course, Denver, Colorado, November 2006
9. “Cystic Fibrosis Related Diabetes Education (CFRD-E) Survey: A National Perspective” Presented at the North American Cystic Fibrosis Conference Bone & Endocrine Research Workshop, Baltimore, Maryland, October 2005

1. “Improving the care of adult patients with cystic fibrosis related diabetes (CFRD)”

Presented at the North American Cystic Fibrosis Conference Consultation Clinics, Baltimore, Maryland, October 2005

1. Update in COPD. CME Teleconference. September 2004.
2. Update in COPD. CME Teleconference. October 2004

Regional:

1. “Mountain West Consortium Diabetes Project” Presented at the Mountain West Cystic Fibrosis Centers Consortium Annual Meeting, Tucson, Arizona, July 2006
2. “Asthma Therapy-a step in the right direction” Presented at the Eastern Idaho Regional Medical Center Grand Rounds, Idaho Falls, Idaho, August 2003.
3. “Current management of Allergic Rhinitis” Presented to the Albany County Pharmacists Association, Laramie, Wyoming, April 2003.
4. “Current management of Allergic Rhinitis” Presented to the Laramie County

 Pharmacists Association, Cheyenne, Wyoming, April 2003.

1. “Advances in Asthma Therapy” Presented at Eastern Idaho Regional Medical Center Grand Rounds, Idaho Falls, Idaho, July 2002
2. “Update in Anticoagulation” Moderator of Utah Society of Health System

 Pharmacists Meeting, Salt Lake City, Utah, March 1999.

Local:

1. “Asthma and the Breath of Life”, Presented at the Essentials of Correctional Medicine Conference, Salt Lake City, Utah, November 2012
2. “Pharmacy Based Immunization Delivery—A certificate program for pharmacists” Presented at the University of Utah College of Pharmacy, Salt Lake City, Utah, August 2012
3. “Pharmacy Based Immunization Delivery—A certificate program for pharmacists” Presented at the University of Utah College of Pharmacy, Salt Lake City, Utah, August 2011
4. “The Last Chance for the Latest Law Update” Presented at the University of Utah Alumni Association Summer CE. Cedar City, Utah, August 2011
5. “Your Asthma Device & You: a hands on approach” Presented at the University of Utah Alumni Association Summer CE. Cedar City, Utah, August 2011
6. “In the World of Asthma, Device Matters” Presented as webinar for the UtahTelehealth Network. Salt Lake City, Utah, May 2011
7. “Utah Law Update” Presented at the University of Southern Nevada Spring CE. Moab, Utah, March 2011
8. “Utah Law Update” Presented at the University of Southern Nevada Spring CE. South Jordan, Utah, March 2011
9. “End of Life Ethics Panel” Presented at the Utah Society of Health Systems Pharmacists Mid-Winter Meeting. Salt Lake City, Utah, February 2011
10. “Utah Law Update-The only constant is change” Presented at Primary Children’s Medical Center. Salt Lake City, Utah, September 2010
11. “Asthma Update-The Need to Breathe” Presented at the Utah Society of Health Systems Pharmacists Annual Meeting. Layton, Utah, October 2010
12. “Utah Law Update-The only constant is change” Presented at the University of Utah Alumni Association Summer CE. Cedar City, Utah, August 2010
13. “Pharmacy Based Immunization Delivery—A certificate program for pharmacists” Presented at the University of Utah College of Pharmacy, Salt Lake City, Utah, August 2010.
14. “Pharmacy Based Immunization Delivery—A certificate program for pharmacists” Presented at the University of Utah College of Pharmacy, Salt Lake City, Utah, August 2009.
15. “Pharmacy Based Immunization Delivery—A certificate program for pharmacists” Presented at the University of Utah College of Pharmacy, Salt Lake City, Utah, August 2008.
16. “Asthma Friendly Pharmacist” Presented at the Utah Pharmacists Association Annual Meeting, St George, Utah, April 2008

1. “Continuous infusion antibiotics in CF patients” Presented to the University Hospitals & Clinics 2 East Nursing Staff, University of Utah, Salt Lake City, Utah, November 2007.
2. “Old Asthma: New guidelines for treatment” Presented at the Department of Family & Preventative Medicine Grand Rounds, University of Utah, Salt Lake City, Utah, October 2007.
3. “Pharmacy Based Immunization Delivery—A certificate program for pharmacists” Presented at the University of Utah College of Pharmacy, Salt Lake City, Utah, August 2007.
4. The Art of Continuous Infusion Beta-lactam antibiotics in CF patients.” Presented at the Pulmonary Fellows Grand Rounds, Salt Lake City, Utah June 2007
5. “New school Asthma Therapy & Chronic Obstructive Lung Disease—Beyond Bronchodilators” Presented at the University of Utah College of Pharmacy Primary Care Summit, Salt Lake City, Utah, May 2007
6. “Immunization Update” Presented at the University of Utah College of Pharmacy Annual Homecoming CE, Salt Lake City, Utah, October 2006
7. “Pharmacy Based Immunization Delivery—A certificate program for pharmacists” Presented at the University of Utah College of Pharmacy, Salt Lake City, Utah, August 2006.
8. “What’s new in the worlds of Wheezing & Sneezing” Presented at USHP Annual Meeting, Salt Lake City, Utah, October 2005
9. “Pharmacy Based Immunization Delivery—A certificate program for pharmacists” Presented at the University of Utah College of Pharmacy, Salt Lake City, Utah, August 2005.
10. “Update in Asthma & COPD” Presented at the UPhA/USHP Primary Care Summit, Salt Lake City, Utah, May 2005
11. “Current Trends in Allergic Rhinitis & Asthma” Presented at the USHP Annual Meeting, Salt Lake City, Utah, October 2004
12. “Update in Allergic Rhinitis” Presented at the Department of Family & Preventative Medicine Grand Rounds, University of Utah, Salt Lake City, Utah, September 2004.
13. “Advances in Asthma & COPD” Presented at the W.A.T.S. (Wednesday Afternoon Teaching Session), Department of Family and Preventative Medicine, University of Utah, Salt Lake City, Utah, September 2004.
14. “Pharmacy Based Immunization Delivery—A certificate program for pharmacists” Presented at the University of Utah College of Pharmacy, Salt Lake City, Utah, August 2004.
15. “Current Concepts in COPD” Presented to the Utah Pharmaceutical Association , Logan, Utah, May 2004
16. “Current Concepts in COPD” Presented at the Utah Pharmaceutical Association Annual Meeting, St George, Utah, April 2004
17. “Pharmacy Based Immunization Delivery—A certificate program for pharmacists” Presented at the University of Utah College of Pharmacy, Salt Lake City, Utah, August 2003.
18. “Allergic Rhinitis Update” Presented to the Utah Pharmaceutical Association, Sandy, Utah, July 2003.
19. “Allergic Rhinitis Update” Presented to the Utah Pharmaceutical Association, Sandy, Utah, June 2003.
20. “Developing a TEAM approach to asthma care” Presented to the Medical Towers Family Practice, Salt Lake City, Utah, June 2003.
21. “Developing a TEAM approach to asthma care” Presented to the South Jordan Family Practice, Salt Lake City, Utah, June 2003.
22. “Developing a TEAM approach to asthma care” Presented to the Riverton Family Health Clinic, Salt Lake City, Utah, May 2003.
23. “Developing a TEAM approach to asthma care” Presented to the Medical Mall Family Practice, Salt Lake City, Utah, May 2003.
24. “Asthma Therapy Update” Presented at the Department of Family & Preventative Medicine Grand Rounds, University of Utah, Salt Lake City, Utah, February 2003.
25. “Advances in Asthma Therapy” Presented to the Utah Pharmaceutical Association, Logan, Utah, November 2002
26. “Advances in Asthma Therapy” Presented to the Utah Pharmaceutical Association, Layton, Utah, October 2002.
27. “Pharmacy Based Immunization Delivery—A certificate program for pharmacists” Presented at the University of Utah College of Pharmacy, Salt Lake City, Utah, August 2002.
28. “Asthma Control—How can pharmacy help?” Presented to the Utah Pharmaceutical Association, Salt Lake City, Utah, January 2002.
29. “Update in Asthma” Presented at the Department of Family & Preventative Medicine Grand Rounds, University of Utah, Salt Lake City, Utah, December 2000.
30. “Asthma Technology Update” Presented to the Utah Pharmaceutical Association, Salt Lake City, Utah, August 2000.
31. “Asthma Technology Update” Presented to the Utah Pharmaceutical

Association, Salt Lake City, Utah, July 2000

1. “Harvest Africa” Presented to the Department of Pharmacy Services, University

 of Utah Hospitals & Clinics, Salt Lake City, Utah, March 2000.

1. “Harvest Africa” Presented to the Academy of Students of Pharmacy, University

 of Utah College of Pharmacy, Salt Lake City, Utah, March 2000.

1. “Asthma technology—more than just a meter” Presented to the Department of

 Pharmacy Services, University of Utah Hospitals & Clinics, Salt Lake City, Utah,

 October 1999.

1. “Asthma technology—more than just a meter” Presented to the Department of Pharmacy at Primary Children’s Medical Center, Salt Lake City, Utah, July 1999.
2. “Clinical Pearls of Metered-dose inhalers and peak flow meters” Presented at

The W.A.T.S. (Wednesday Afternoon Teaching Session), Department of Family and Preventative Medicine, University of Utah, Salt Lake City, Utah, May 1999.

1. “Meds and monitoring” Presented at the W.A.T.S. (Wednesday Afternoon Teaching Session), Department of Family & Preventative Medicine, University of Utah, Salt Lake City, Utah, August 1998.
2. “Asthma and COPD” Presented to the Department of Pharmacy Services,

 University of Utah Hospitals & Clinics, Salt Lake City, Utah, June 1998.

1. “Technique and Metered-dose inhalers” Presented to the Utah Society of

 Respiratory Therapists, Salt Lake City, Utah, April 1998.

1. “Estrogen Replacement Therapy” Presented to the Wasatch Internal Medicine

 Clinic, Salt Lake City, Utah, April 1998.

1. “Asthma--To breathe or Not to breathe” Presented to the Utah Pharmaceutical

 Association, Ogden, Utah, February 1998.

1. “Pediculosis--Update on treatment options” Presented to the Salt Lake City-

 County Health Department, Salt Lake City, Utah, February 1998.

1. “Asthma Management for Practitioners and Staff” Presented at the

Intermountain Health Care Asthma Certification Program, Salt Lake City, Utah, November 1997.

1. “Asthma Education and Products” Presented to the Wasatch Internal Medicine

 Clinic, Salt Lake City, Utah, November 1997.

# “Living with Asthma” Presented at the Utah Society of Health System Pharmacists Annual Meeting, Park City, Utah, September 1997.

1. “Metered Dose Inhalers” Presented at the Utah Society of Health System Pharmacists Annual Meeting, Salt Lake City, Utah, April 1997.
2. “Medical Assistant Certification Program” Presented to the Wasatch Family Practice Clinic, Salt Lake City, Utah, March 1997.

**COMMUNITY SERVICE:**

Current

2008-present Children’s Health Connection Pharmacist, Ogden, Utah

2005-present Junior League Care Fair Advisor, USPA, Salt Lake City, Utah

2003-present Operation Immunization Advisor, ASP-APhA, Salt Lake City, Utah

2003-present Senior Expo Advisor, USPA, Salt Lake City, Utah

1998-present Operation Diabetes Advisor, ASP-APhA, Salt Lake City, Utah

1998-present Brown Bag Medicine Checks, ASP-APhA, Salt Lake City, Utah

Past

1999-2009 Education Counselor, American Lung Association of Utah Camp Wyatt (Asthma Camp), Toole, Utah

1992-2007 Assistant Meet Director, Simplot Games, Idaho State University, Pocatello, Idaho

2001-2002 Doping Control Venue Coordinator for 2002 Winter Olympic Games (Freestyle & Slalom), Salt Lake Organizing Committee, Deer Valley, Utah.

2001 Doping Control Escort Supervisor (Bobsleigh), Salt Lake Organizing Committee, Park City, Utah.

2001 Doping Control Escort Supervisor (Freestyle), Salt Lake Organizing Committee, Deer Valley, Utah.

2001 Doping Control Escort (Bobsleigh), Salt Lake Organizing Committee, Park City, Utah.

2001 Doping Control Escort (Freestyle), Salt Lake Organizing Committee, Deer Valley, Utah.

2000-2001 Member, American Lung Association of Utah Camp Wyatt Committee, Salt Lake City, Utah

1999-2001 Assistant Scout Master, West Bountiful Troop 109, West Bountiful, Utah

1999 Physical Fitness Merit Badge Counselor, West Bountiful Troop 109, West Bountiful, Utah.

1999 “Asthma Education” Park City Health Fair, Park City, Utah.

1999 “Asthma Education” Sugar House Health Fair, Sugarhouse, Utah.

1998 “Asthma Education” Salt Lake City Health Fair, Salt Lake City, Utah.

1998 “Asthma Education” West Valley City Health Fair, West Valley City, Utah.

1997 “Asthma Management for Practitioners and Staff” Intermountain Health Care Asthma Certification Program, Salt Lake City, Utah.

1997 “Medical Assistant Certification Program” Wasatch Family Practice Clinic, Salt Lake City, Utah.

1988-1991 Volunteer, Simplot Games, Idaho State University, Pocatello, Idaho

**EXTRAMURAL SERVICE:**

National

2012-present Co-Coordinator, North American Cystic Fibrosis Foundation Pharmacist Mentorship Program

2011-present Member, North American Cystic Fibrosis Foundation Annual Meeting Planning Committee

2011-present Member, National Association of Boards of Pharmacy Multistate Pharmacy Jurisprudence Examination (MPJE) Committee

2009-present Member, Cystic Fibrosis Related Diabetes Guideline Committee

2008-present Member, National Association of Boards of Pharmacy Multistate

 Pharmacy Jurisprudence Examination (MPJE) Item Writing &

 Review Workshops

2000-2006 Member, National Association of Boards of Pharmacy Disease

 State Management (DSM) Review Committee

* 1. Member, National Association of Boards of Pharmacy Disease

State Management Standards Setting Committee of Anticoagulation

* 1. Member, National Association of Boards of Pharmacy Disease

 State Management Item Writing Workshop

Local

2009-present Member, Division of Occupational & Professional Licensing Controlled Substances Advisory Committee

2007-present Member, Utah State Board of Pharmacy

 2002-present Member, Utah Asthma Task Force, Utah Department of Health

2002-2006 Member, Utah Society of Health System Pharmacists Awards Committee

1999-2003 Member, Harvest Africa Board

* 1. Member, American Lung Association of Utah Board

1997-2001 Member, Utah Society of Health System Pharmacists Program Committee

Journal Reviewer

2003-present American Journal of Health System Pharmacists

2003-present Journal of Managed Care Pharmacy

2002-present Annals of Family Medicine

**INTRAMURAL SERVICE:**

University of Utah

2008-present Member, Academic Appeals & Misconduct Committee

2008-present Member, Task Force on Global Health

2001-present Clinical Pharmacist: Intermountain Cystic Fibrosis Adult Center

1998-present Clinical Pharmacist: Utah Asthma Center

2002-2009 Clinical Pharmacist: Utah Asthma GERD Center

1998-2001 Member: University of Utah Hospitals & Clinics Residency

 Advisory Committee

Department of Pharmacotherapy

2009-current Vice-Chair: Department of Pharmacotherapy

2009-current Chair: Post Graduate Training Committee

2008-current Co-chair: Clinical Retention & Promotion Advisory Committee

2011-2012 Interim Chair:Department of Pharmacotherapy

2008-2009 Member: Community Practice Faculty Search Committee

 2007-2008 Chairman: Internal Medicine & Acute Care Clinical Faculty

 Search Committee

2006-2007 Chairman: Community Practice Faculty Search Committee

 1998-2007 Member: Strategic Planning on Reimbursement

 1999-2001 Member: Teaching Committee

 1999-2000 Member: Residency & Fellowship Committee

College of Pharmacy

 2012-present Member: Curriculum Transformation Lead Team

 2006-present Ex-officio: Assessment Committee

 2003-present Coordinator: Student Affairs

2003-present Coordinator: Western Interstate Commission for Higher Education

 Professional Student Exchange Program

2003-present Ex-officio: Diversity Advisory Committee

2000-present Member: Admissions Interview Committee

2000-present Chairman: Awards & Financial Aid Committee

1999-present Advisor: Utah Student Pharmacist Alliance

 2008-2011 Chairman: Curriculum Transformation Committee Task Force #1

2006-2009 Chairman: Seminar Committee

 2006-2008 Chairman: Self Study Task Force #4 Committee

 2006-2008 Member: Self Study Task Force #9 Committee

 2006-2008 Member: Self Study Task Force #10 Committee

1998-2004 Member: Excellence & Leadership Committee

1998-2000 Member: Awards & Financial Aid Committee

**LICENSURE:**

 National Provider Identifier #1255454302

 Utah State Board of Pharmacy

 License #330828-1701

 Controlled Substance License #330828-8911

Utah State Board of Pharmacy, Preceptor License #102197

Approved August, 1997

Idaho State Board of Pharmacy

 License #P5110

**PROFESSIONAL AFFILIATIONS:**

2003-present American Association of Colleges of Pharmacy

2003-present Utah Pharmacists Association

1996-present Utah Society of Health-System Pharmacists

1993-present American Pharmacists Association, Member

1990-present American Society of Health-System Pharmacists