

Alicia Beth Lichvar, PharmD, MS, BCPS

Personal Information

University of Illinois College of Pharmacy
Department of Pharmacy Practice and Surgery
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Licensure and Certification

May 2017 – Present	Illinois Pharmacist License, 051300296
Dec 2014 – Present	Board Certified Pharmaceutical Specialist, 3140805F
Aug 2013 – Present	National Provider Identifier (NPI), 1174932982
Aug 2013 – Present	Pennsylvania Pharmacist License, RP447958
Aug 2013 – Present	Pennsylvania Authorization to Administer Injectables, RPI007685
Jan 2013 – Present	Advanced Cardiovascular Life Support, American Heart Association
Jan 2013 – Present	Basic Cardiovascular Life Support, American Heart Association

Education

Aug 2015 – Apr 2017	Master of Science, Clinical & Translational Research, University of Cincinnati
Aug 2009 – Apr 2013	Doctor of Pharmacy, University of Pittsburgh
Aug 2007 – Apr 2011	Bachelor of Science, Pharmaceutical Sciences, University of Pittsburgh

Post-Doctoral Training

Jul 2015 – Jun 2017	Fellowship in Solid Organ Transplantation Research University of Cincinnati, Cincinnati, OH Program Director: Rita R. Alloway, PharmD, FCCP
Jul 2014 – Jun 2015	ASHP Accredited PGY-2 Solid Organ Transplant Pharmacy Residency University of Pittsburgh Medical Center (UPMC) Presbyterian Program Director: Michael A. Shullo, PharmD
Jul 2013 – Jun 2014	ASHP Accredited PGY-1 Pharmacy Residency UPMC Presbyterian Program Director: Heather J. Johnson, PharmD, BCPS

Present Appointment

EFFORT:	5% Teaching (classroom lectures and recitations) 80% Patient Care (direct patient care and student/resident training) 10% Research and Scholarly Activity 5% Public and Professional Service
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Academic Appointments

- Aug 2017 – Present Clinical Assistant Professor
Department of Pharmacy Practice
University of Illinois at Chicago, College of Pharmacy
Department of Pharmacy Practice Head: Keith A. Rodvold, PharmD, FCCP, FIDSA
- Aug 2017 – Present Clinical Assistant Professor
Department of Surgery
University of Illinois at Chicago, College of Medicine
Department Head: Enrico Benedetti, MD, FACS

Professional Experience

- Aug 2017 – Present Clinical Pharmacist, Solid Organ Transplant
University of Illinois Hospital and Health Sciences System
Supervisor: John Garofalo, PharmD, BCPS
- Jan 2018 – Present Registry Staff Pharmacist
University of Illinois Hospital and Health Sciences System
Supervisor: Elizabeth Micke, PharmD
- Aug 2013 – Jun 2015 PGY1/PGY2 Trainee Staff Pharmacist
UPMC, Pittsburgh, PA
Manager: Robert Reynolds, PharmD, BCPS
- Apr 2010 – Apr 2013 Pharmacy Intern
Western Psychiatric Institute and Clinic of UPMC, Pittsburgh, PA
Preceptor: Russell Lawrence Corb, RPh
- May 2009 – Aug 2009 Pharmacy Intern
Diamond Drugs, Incorporated, Indiana, PA
Preceptor: Heather Ann Zahorchek, RPh

Clinical Practice Sites

- Aug 2017 – Present Transplant/ Surgical Intensive Care Unit (ICU)
University of Illinois Hospital and Health Sciences System, Chicago, IL
- Kidney, liver, pancreas, small bowel, and islet transplant recipients and living donors; 12-bed ICU and 10-bed step-down unit
- Aug 2017 – Present Transplant Center
University of Illinois Hospital and Health Sciences System, Chicago, IL
- Outpatient management of kidney and pancreas transplant recipients (acute and chronic), pre-transplant evaluation; 8 half-day clinics per week; scheduled 110 patients per week

Publications

1. **Lichvar AB**, Tremblay S, Naik D, Lipscomb J, King E, Vinks AA, Christians U, Alloway RR. Evaluation of clinical and safety outcomes following uncontrolled tacrolimus conversion in adult transplant recipients. *Pharmacotherapy*. [accepted for publication]
2. **Lichvar AB**, Ensor CR, Zeevi A, Morrell MR, Pilewski JM, Hayanga JWA, D’Cunha, McDyer JF, Petrov AA. Detrimental association of hypogammaglobulinemia with chronic lung allograft dysfunction and death is not mitigated by on-demand immunoglobulin G replacement after lung transplantation. *Prog Transplant*. 2018 doi:10.1177/1526924818817028.
3. Diwan TS, **Lichvar AB**, Leino AD, Vinks AA, Christians U, Shields A, Cardi M, Fukuda T, Mizuno T, Kaiser T, Woodle ES, Alloway RR. Pharmacokinetic and pharmacogenetic analysis of immunosuppressive agents after laparoscopic sleeve gastrectomy. *Clin Transplant*. 2017; 31:e12975.
4. **Lichvar AB**, Hedges AR, Benedict NJ, Donihi AC. Combination of a flipped classroom and a virtual patient case to enhance active learning in the classroom. *Am J of Pharm Educ*. 2016; 80: 175.
5. Ensor CR, Rihtarchik LC, Morrell MR, Hayanga JW, **Lichvar AB**, Pilewski JM, Wisniecki S, Johnson BA, D’Cunha J, Zeevi A, McDyer JF. Rescue alemtuzumab for refractory acute cellular rejection and bronchiolitis obliterans syndrome after lung transplantation. *Clin Transplant*. 2017; 31: e12899.
6. **Lichvar AB**, Moore, C, Ensor CR, McDyer J, Teuteberg J, Shullo MA. Safety and Efficacy of Direct Oral Anticoagulation Agents in Heart and Lung Transplant Recipients. *Prog Transplant*. 2016; 26 (3): 263 – 269.
7. Henao JP, Peperzak KA, **Lichvar AB**, Orebaugh SL, Skledar SJ, Williams BA. The incidence of extrapyramidal symptoms following administration of oral perphenazine 4 or 8 mg: an 11-year retrospective analysis. *Eur J Anaesth*. 2013; 31 (4): 231-235.

Platform Presentations

1. **Lichvar A**, Campara M, Tzvetanov I, Benedetti E, Benken J. The Implementation and Impact of an Opioid Minimization Protocol in an Urban Renal Transplant Population. *Am J of Transplant*. 2019; 19 (suppl 3).
2. **Lichvar A**, Portwood E, Brailey P, Tremblay S, Shields A, Govil A, Cardi M, Cuffy M, Alloway R, Girnita A, Woodle ES. Early and Late Antibody Mediated Rejection and Mixed Acute Rejection Are Clinically Distinct and Demonstrate Biologic Differences in Immunodominant Donor Specific Antibody Characteristics. *Am J Transplant*. 2017;17 (suppl 3).
3. **Lichvar A**, Leino A, Tremblay S, Shields A, Abu Jawdeh B, Hardy B, Anand M, Cuffy M, Cardi M, Alloway R, Woodle ES. Immunodominant Donor Specific Antibody Reduction with Proteasome Inhibitor Based Treatment: Clinical Variability and Implications for Long Term Graft Survival. *Am J Transplant*. 2017;17 (suppl 3).

4. **Lichvar A**, Portwood E, Brailey P, Tremblay S, Shields A, Abu Jawdeh B, Kremer J, Paterno F, Alloway R, Girnita A, Woodle ES. Comprehensive Functional Assessment of the Pathogenic Potential of Immunodominant Donor Specific Antibody Following Treatment of Late Antibody Mediated Rejection or Mixed Acute Rejection. *Am J Transplant*. 2017;17 (suppl 3).
5. Tremblay S, Shields A, Alloway R, Brailey P, Leino A, **Lichvar A**, Abu B, Driscoll J, Girnita A, Woodle ES. A Prospective Iterative Trial of Carfizomib-Based Desensitization Trial: Initial Comparative Observations. *Am J Transplant*. 2017; 17 (suppl 3).
6. **Lichvar A**, Leino AD, Tremblay T, Abu-Jawdeh B, Govil A, Mogilishetty G, Kremer J, Cardi M, Cuffy M, Paterno F, Witte D, Alloway RR, Woodle ES. Antibody Mediated Rejection and Mixed Acute Rejection: Long Term Results and Predictive Factors for Graft Loss Following Proteasome Inhibitor Therapy. *Am J Transplant*. 2016; 16 (suppl 3).
7. Leino AD, **Lichvar A**, Abu-Jawdeh B, Govil A, Mogilishetty G, Cardi M, Kremer J, Cuffy M, Paterno F, Alloway RR, Shields AR, Woodle ES. Evaluation of the Toxicity Profile of Proteasome Inhibitor-Based Therapy for Antibody Mediated Rejection. *Am J Transplant*. 2016; 16 (suppl 3).
8. **Lichvar AB**, Ensor CR, McDyer JF, Hayanga A, Morrell MR, Pilewski JM, D’Cunha J, Zeevi A, Patrov AA. On-demand immunoglobulin-G replacement is not associated with benefits in lung transplant recipients with hypogammaglobulinemia. *J Heart Lung Transplant*. 2016; 35 (S69).

Poster Presentations

1. Tejani K, Hajjiri Z, Benedetti E, **Lichvar A**. Clinical Outcomes and Risk Factors for Delayed or Slow Graft Function in an Adult, Urban Renal Transplant Population. *Am J Transplant*. 2019; 19 (suppl 3).
2. Tejani K, Hajjiri Z, Benedetti E, **Lichvar A**. Alemtuzumab versus Anti-Thymocyte Globulin Induction in the Setting of Immediate Post-Renal Transplant Acute Tubular Necrosis in an Urban, Minority Patient Population. *Am J Transplant*. 2019; 19 (suppl 3).
3. Khalil K, West-Thielke P, **Lichvar A**, Benedetti E, Patel S. Time within Therapeutic Range: A Comparison of Three Tacrolimus Formulations within Ninety Days of Renal Transplant. *Am J Transplant*. 2019; 19 (suppl 3).
4. Reticker A, **Lichvar A**, Gross A, Benedetti E, Patel S. The Significance and Impact of Screening Preservation Fluid Cultures in Renal Transplant Recipients. *Am J Transplant*. 2019; 19 (suppl 3).
5. Valdepenas B, Benken J, Hajjiri Z, Benedetti E, **Lichvar A**. Clinical Implications of Belatacept Conversion in a High-Risk, Urban Renal Transplant Population. *Am J Transplant*. 2019; 19 (suppl 3).
6. Patel A, **Lichvar A**, Petzel-Gimbar R, Benedetti E, Campara C. Factors Influencing Emergency Room Visits Post-Renal Transplantation in a High-Risk Patient Population. *Pharmacotherapy*. 2018
7. Underwood H, **Lichvar A**, Benken J, Hajjiri Z, Benedetti E. Clinical Response to Salvage Bortezomib Therapy for Antibody Mediated Rejection and Mixed Acute Rejection in a High Immunologic Risk Renal Transplant Population. *Pharmacotherapy*. 2018 (updated data)

8. Khalil K, West-Thielke P, **Lichvar A**, Benedetti E, Patel S. Time within Therapeutic Range: A Comparison of Three Tacrolimus Formulations in Renal Transplant Recipients. *Pharmacotherapy*. 2018 (updated data).
9. **Lichvar A**, Benken J, Benedetti E. Clinical Response to Salvage Bortezomib Therapy for Antibody Mediated Rejection and Mixed Acute Rejection in a High Immunologic Risk Renal Transplant Population. *Am J Transplant*. 2018;18 (suppl 3).
10. Loethen A, **Lichvar A**, Tremblay S, Shields A, Dao A, Cardi M, Brailey P, Girnita A, Abu Jawdeh B, Alloway R, Woodle E. Clinical Heterogeneity of Early Anamnestic Donor Specific Antibody Responses in Kidney Transplantation. *Am J Transplant*. 2018;18 (suppl 3).
11. Benken J, Kane C, **Lichvar A**, Benedetti E. Differences in Rejection and Clinical Outcomes in Obese versus Non-Obese Renal Transplant Recipients Receiving Basiliximab Induction Immunosuppression. *Am J Transplant*. 2018;18 (suppl 3).
12. Patel S, **Lichvar A**, Benedetti E, West-Thielke P. A Comparison of Alemtuzumab versus Antithymocyte Globulin Induction in High-Risk, Non-Sensitized Renal Transplant Recipients. *Am J Transplant*. 2018;18 (suppl 3).
13. Khalil K, West-Thielke P, **Lichvar A**, Benedetti E, Patel S. Time within Therapeutic Range: A Comparison of Three Tacrolimus Formulations in Renal Transplant Recipients. *Am J Transplant*. 2018;18 (suppl 3).
14. **Lichvar A**, Tremblay S, Naik D, King E, Vinks A, Christians U, Lipscomb J, Alloway R. Evaluation of Clinical and Safety Outcomes Following Uncontrolled Tacrolimus Conversion in Adult Transplant Recipients. *Am J Transplant*. 2018;18 (suppl 3).
15. Campara M, West-Thielke P, Progar K, Jasiak N, **Lichvar A**, Tang I, Benedetti E. Infectious Complications Associated with Eculizumab Used for ABO-Incompatible Renal Transplantation. *Am J Transplant*. 2018; 17 (suppl 3).
16. **Lichvar A**, Tremblay S, Naik D, Lipscomb J, King E, Vinks AA, Christians U, Alloway RR. Evaluation of Clinical and Safety Outcomes Following Uncontrolled Tacrolimus Conversion in Adult Renal Transplant Recipients. *Pharmacotherapy*. 2017; 37: e237.
17. **Lichvar A**, Leino A, Tremblay S, Shields A, Paterno F, Govil A, Anand M, Diwan T, Kremer J, Alloway R, Woodle E. Adjunctive Thymoglobulin with Proteasome Inhibitor Based Treatment of Late Mixed Acute Rejection. *Am J Transplant*. 2017; 17 (suppl 3).
18. **Lichvar A**, Leino A, Shields A, Alloway RR. Late Antibody-Mediated Rejection and Acute Mixed Rejection are Less Responsible to Proteasome Inhibitor Treatment. *Pharmacotherapy*. 2016; 36: e306.
19. **Lichvar AB**, Tremblay S, Brailey P, Girnita A, Alloway RR, Woodle ES. Prospective Single Antigen Bead Epitope Based Clustering for Early Detection of Antibody Mediated Rejection. *Am J Transplant*. 2016; 16 (suppl 3).

20. **Lichvar AB**, Leino AD, Kaiser T, Mizuno T, Fukuda T, Christians U, Alloway RR, Vinks AA, Woodle ES, Diwan T. Pharmacokinetic Evaluation of Astagraf XL® and Prograf® in Renal Transplant Candidates Following Laparoscopic Sleeve Gastrectomy. *Am J Transplant*. 2016; 16 (suppl 3).
21. Leino AD, **Lichvar AB**, Kaiser T, Christians U, Mizuno T, Fukuda T, Alloway RR, Vinks AA, Woodle ES, Diwan TS. Mycophenolate Mofetil Single Dose Pharmacokinetics Following Laparoscopic Sleeve Gastrectomy. *Am J Transplant*. 2016; 16 (suppl 3).
22. Leino AD, **Lichvar AB**, Abu-Jawdeh B, Govil A, Mogilishetty G, Cardi M, Kremer J, Cuffy M, Paterno F, Alloway RR, Shields AR, Woodle, ES. Randomized Controlled Trial of Mixed Acute Rejection Therapy in Renal Allografts (3 Year Follow-up). *Am J Transplant*. 2016; 16 (suppl 3).
23. **Lichvar AB**, McDyer JF, Morrell MR, Hayanga JA, Pilewski JM, Crespo MM, D’Cunha J, Ensor CR. Mycophenolate-based immunosuppressive regimens are associated with a mortality benefit in lung transplantation recipients at a single high-volume center. *J Heart Lung Transplant*. 2016; 35 (S421).
24. **Lichvar AB**, Morrell MR, Hayanga JA, Pilewski JM, Crespo MM, D’Cunha J, Zeevi A, McDyer JF, Ensor CR. Tacrolimus immunosuppressive regimens are associated with a mortality benefit in lung transplantation recipients at a high-volume single center. *J Heart Lung Transplant*. 2016; 35 (S419).
25. **Lichvar A**, Leino A, Kaiser T, Mizuno T, Fukuda T, Christians U, Alloway RR. Pharmacokinetic Evaluation of Astagraf XL® and Prograf® in Renal Transplant Candidates Following Laparoscopic Sleeve Gastrectomy. *Pharmacotherapy*. 2016; 36: e103.
26. **Lichvar AB**, Ensor CR, Petrov AA. Impact of on-demand intravenous immunoglobulin therapy on the burden of infection and rejection in lung transplant recipients with hypogammaglobulinemia. *Pharmacotherapy*. 2015; 35 (e287).
27. **Lichvar AB**, Hedges AR, Benedict N, Donihi A. Combination of a flipped classroom and a virtual patient case to enhance active learning in the classroom. *Pharmacotherapy*. 2015; 35 (e184).
28. **Lichvar AB**, Moore, C, Ensor CR, Teuteberg J, McDyer J, Shullo MA. Safety and Efficacy of Direct Oral Anticoagulation Agents in Heart and Lung Transplant Recipients. *Pharmacotherapy*. 2015; 35 (e285).
29. Brown MA, Johnson HJ, **Lichvar AB**, Chopra KB, Dunn MA. Effect of simeprevir administration on dose-normalized concentration of calcineurin inhibitors in solid organ transplant recipients with hepatitis C infection. *Hepatology*. 2015; 62 (S1).
30. **Lichvar AB**, Johnson HJ, Rustgi V. The effect of ledipasvir/sofosbuvir on dose-normalized levels of immunosuppression in liver transplant recipients. *Hepatology*. 2015; 62 (S1).
31. **Lichvar AB**, Johnson HJ, Deen DP, Bonner JJ, Costa G, Cruz R, Abu-Elmagd K, and Venkataramanan R. Tacrolimus trough concentrations increase in intestinal transplant recipients during episodes of acute cellular rejection. *Am J Transplant*. 2015; 15 (suppl 3).

32. Rihtarchik LC, McDyer JF, Zeevi A, Pilewski JM, Crespo M, Johnson BA, **Lichvar AB**, Bermudez C, Smith RB, Ensor CR. Rescue alemtuzumab for refractory acute cellular rejection and bronchiolitis obliterans syndrome after lung transplantation at a single high-volume center. *J Heart Lung Transplant*. 2015; 24 (S242).
33. **Lichvar AB**, Ensor CR, Kwak EJ, Pilewski J, Empey E, McDyer J. Oral ribavirin for the treatment of paramyxovirus respiratory infections in lung transplant patients. *Pharmacotherapy*. 2014; 34 (e228).
34. **Lichvar AB**, Johnson HJ, Deen DP, Bonner JJ, Costa G, Abu-Elmagd K, and Venkataramanan R. Tacrolimus trough concentrations increase in intestinal transplant recipients during episodes of acute cellular rejection. *Pharmacotherapy*. 2014; 34 (e228).

Non-Funded Ongoing Research

Impact of Delayed and Slow Graft Function on Short-term and Long-term Outcomes in Living and Deceased Donor Renal Transplant

Role: Senior faculty advisor

Resident: Khusbu Tejani, PharmD (PGY2)

Dates: 2018 – Present

Incidence and Clinical Impact of Urinary Tract Infections in Renal Transplant Candidates at an Urban Medical Center

Role: Senior faculty advisor

Resident: Kaitlin Seila, PharmD (PGY1)

Dates: 2018 – Present

Clinical Efficacy and Safety of Belatacept Conversion in High-Risk Renal Transplant Recipients at an Urban Medical Center

Role: Senior faculty advisor

Resident: Benito Valdepenas, PharmD (PGY1)

Dates: 2018 – Present

Assessment of Different Strategies of Furosemide Dosing in Renal Transplant Recipients

Role: Co-faculty advisor

Resident: Jamie Thomas, PharmD (PGY1)

Dates: 2018 – Present

Narcotic Minimization Following Kidney Transplantation - Is It Worth the Pain?

Role: Co-faculty advisor

Resident: Erin Pozzolano, PharmD (PGY1)

Dates: 2018 – Present

Long-Term Outcomes of Steroid-Free Pancreas Transplant Recipients

Role: Co-faculty advisor

Resident: Lan-His (Nancy) Lin, PharmD (PGY1)

Dates: 2018 – Present

Significance and Impact of Screening Preservation Fluid Cultures in Renal Transplant Recipients

Role: Co-faculty advisor

Resident: Anesia Reticker, PharmD (PGY1)

Dates: 2018 – Present

Factors Influencing Emergency Room Visits Post-Renal Transplantation in a High-Risk Patient Population

Role: Co-faculty advisor

Resident: Alisha Patel, PharmD (PGY1)

Dates: 2017 – Present

Clinical Efficacy and Safety of Basiliximab Induction in Obese Patients Versus Non-Obese Patients

Role: Co-investigator

Dates: 2017 – Present

Clinical Efficacy of Bortezomib for Salvage Antibody-mediated Rejection Therapy in an Immunologic High-risk Population

Role: Primary Investigator

Dates: 2017 – Present

Fc Receptor Binding Assay for Functional Assessment of HLA Antibodies: Initial Clinical Validation in Patients with Late Antibody Mediated Rejection and Mixed Acute Rejection

Role: Co-investigator

Dates: 2016 – Present

Adjunctive Thymoglobulin with Bortezomib-Based Treatment for Mixed Acute Rejection

Role: Primary investigator

Dates: 2016 – Present

Immunodominant DSA Reduction with Antibody Mediated Rejection and Mixed Acute Rejection Therapy: Clinical Variability and Implications for Long Term Graft Survival

Role: Primary investigator

Dates 2016 – Present

Funded Ongoing Research

Retrospective Evaluation of Clinical and Safety Outcomes Associated with Conversion from Brand-Name to Generic Tacrolimus Products in High Risk Transplant Recipients

Source: FDA Solicitation 13-223-SOL-00102

Role: Co-investigator (retrospective component only)

Dates: 2015 – Present

Amount: \$2,250,000

Mozobil and B-Cell Targeted Desensitization Strategy for Preformed Anti-HLA Antibodies in Patients Awaiting Kidney Transplantation

Source: Takeda

Role: Research assistant, 1% effort

Dates: 2015 – 2017

Amount: \$863,424

Carfilzomib Targeted Desensitization Strategy for Preformed Anti-HLA Antibodies in Patients Awaiting Kidney Transplantation

Source: Onyx

Role: Research assistant, 1% effort

Dates: 2015 – 2017

Amount: \$771,503

Belimumab and B-Cell Targeted Desensitization Strategy for Preformed Anti-HLA Antibodies in Patients Awaiting Kidney Transplantation

Source: Glaxo Smith Kline

Role: Research assistant, 1% effort

Dates: 2015 - 2017

Amount: \$350,051

A Randomized, Open-Label, Multicenter, Parallel-Group Study of Belatacept-Based Early Glucocorticoid Withdrawal Regimen with Alemtuzumab or Rabbit Anti-thymocyte Globulin Induction Compared to Tacrolimus-based Early Glucocorticoid Steroid Withdrawal Regimen with Rabbit Anti-thymocyte Globulin Induction in Renal Transplantation

Source: Bristol Meyers Squibb

Role: Research assistant, 1% effort

Dates: 2015 – 2017

Amount: \$5,206,812

A Single-Center Pilot Study to Determine the Pharmacokinetics of Tacrolimus and Mycophenolate Mofetil in Renal Transplant Candidates or Transplant Recipients who have Undergone Laparoscopic Sleeve Gastrectomy

Source: Astellas

Role: Co-investigator, 1% effort

Dates: 2015 – 2017

Amount: \$232,124

Prospective Observational Trial to Evaluate the Correlation of T-SPOT® Response to CMV Disease and T-Cell Mediated Acute Graft Rejection

Source: Oxford Immunotec

Role: Research assistant, 1% effort

Dates: 2015 – 2016

Amount: \$113,400 (40 enroll target)

Invited Presentations

National

Revisiting DOAC Anticoagulation in Transplantation: Measuring and Reversal of DOACs. American Transplant Congress, Boston, MA, June 2, 2019.

Updates in Transplant Medicine. Presentation to patients and care providers. Living with Chronic Kidney Disease and Transplant Conference. National Kidney Foundation of Illinois, Chicago, IL, April 14, 2018.

Local

Transplant Pharmacology. Continuing nursing education (CNE) presentation to nurse practitioners. UPMC Presbyterian, Pittsburgh, PA, March 2015.

Anticoagulation in Continuous Flow Left Ventricular Devices—A Tale of Two Pumps. ACPE accredited continuing education presentation to clinical pharmacists and pharmacy students. UPMC Presbyterian, Pittsburgh, PA, January 2015.

Bortezomib: A New Hope or The Allograft Strikes Back? ACPE accredited continuing education presentation to clinical pharmacists and pharmacy students. UPMC Presbyterian, Pittsburgh, PA, August 2014.

Hypogammaglobulinemia in Lung Transplantation: How Low Can You Go? ACPE accredited continuing education presentation to clinical pharmacists and pharmacy students. UPMC Presbyterian, Pittsburgh, PA, April 2014.

Care of Patients with GERD, Gastroparesis, Clostridium Difficile and Ulcerative Colitis. Continuing nursing education (CNE) presentation to nurse practitioners. University of Pittsburgh School of Nursing, Pittsburgh, PA, February 2014.

Cytomegalovirus Prophylaxis in Solid Organ Transplant: Is Timing Really Everything? ACPE Accredited continuing education presentation to clinical pharmacists and pharmacy students. UPMC Presbyterian, Pittsburgh, PA, October 2013.

PGY Seminar Mentor; ACPE accredited CE program equivalent to 1.0 contact hour or 0.1 CEU

October 2018 “Direct Acting Anticoagulants in Solid Organ Transplantation”
PGY1: Enela Aliaj, PharmD
University of Illinois Hospital; Chicago, IL

October 2018 “Current Update in Cytomegalovirus Infection Prophylaxis”
PGY1: Hannah Whiteemore, PharmD
University of Illinois Hospital; Chicago, IL

Clinical Teaching Experience

Aug 2017 – Present ASHP Accredited Pharmacy Practice Residency
Transplant ICU, PGY1 Resident Co-Preceptor (* = primary preceptor)
University of Illinois Hospital and Health Sciences System, Chicago, IL

1. Khushbu Tejani, PharmD 2017/2018
2. Kristina Falk, PharmD 2017/2018
3. Hannah Underwood, PharmD 2017/2018
4. Elizabeth Eitzen, PharmD 2017/2018
5. Nicole Coglianese, PharmD 2017/2018*
6. Alisha Patel, PharmD 2017/2018*
7. Marisa Brizzi, PharmD 2017/2018*
8. Emily Armgardt, PharmD 2017/2018

9. Lauren Cunningham, PharmD 2018/2019*
 10. Anesia Reticker, PharmD 2018/2019
 11. Benito Valdepenas, PharmD 2018/2019
 12. Hannah Whittemore, PharmD 2018/2019
 13. Erin Pozzolano, PharmD, 2018/2019*
 14. Nancy Lin, PharmD, 2018/2019
 15. Karina Rudenberg, PharmD, 2018/ 2019
- Aug 2017 – Present ASHP Accredited Pharmacy Practice Residency
Transplant Center, PGY1 Resident Co-Preceptor
University of Illinois Hospital and Health Sciences System, Chicago, IL
1. Hannah Underwood, 2017/2018
- Aug 2017 – Present ASHP Accredited Pharmacy Practice Residency
Transplant ICU, PGY2 Resident Co-Preceptor
University of Illinois Hospital and Health Sciences System, Chicago, IL
1. Karen Khalil, PharmD 2017/2018
 2. Khushbu Tejani, PharmD 2018/2019
 3. Brian Phan, PharmD 2018/2019
- Aug 2017 – Present PHAR 371: Advanced Pharmacy Practice Experience—Acute Care
Transplant ICU, P4 Student Co-Preceptor
University of Illinois Hospital and Health Sciences System, Chicago, IL
1. Anesia Reticker, 2017
 2. Marilyn Gaske, 2017
 3. Levi Pilones, 2017
 4. Melissa Chaung, 2017
 5. Patricia Green, 2018
 6. Nicholas Kim, 2018
 7. Danielle Bae, 2018
 8. Nicholas Kelly, 2018
 9. Belinda Moy, 2018
 10. Michael Genet, 2018
 11. Serene Abuzir, 2018
 12. Dana Pierce, 2018
 13. Eva Galka, 2018
 14. Shane Brandt, 2018
 15. Ryan Piantanida, 2019
 16. Huyen Tran, 2019
 17. Corinne Songer, 2019
- Aug 2018 – Present PHAR 515: Introductory Pharmacy Practice Experience (IPPE)
Transplant Center, P3 Student Preceptor
University of Illinois Hospital and Health Sciences System, Chicago, IL
1. Jenna Crosby, 2018
 2. Amanda Walsh, 2018
 3. Ryan Broda, 2019

Aug 2017 – Apr 2018 PHAR354: Introductory Pharmacy Practice Experience (IPPE) IV
Second year pharmacy students—patient interviews

International Teaching Experience

Aug 2017 – Present Visiting Pharmacist Program
Solid Organ Transplant Clinics, Co-preceptor
University of Illinois Hospital and Health Sciences System, Chicago, IL

1. Yu (Tempo) Heng, Visiting Scholar from China, 2017
2. Li F. Yang, Visiting Scholar from China, 2017
3. Ashley (Huang Kuei-Jung) from China, 2018
4. Patty (Chen Feng-Ju) from China, 2018
5. Tarin (Lin Tien-Jui) from China, 2018

Independent Study/ Special Projects

Fall 2018 – Present PMPR 380: Undergraduate Research in Pharmacy Practice
First, second, and third year pharmacy students

1. Timothy Ortman, Fall 2018
2. Fong Kit Tam, Spring 2019
3. Olga Piatek, Spring 2019
4. Kelsey Lamartina, Spring 2019
5. Dagmara Kutzuba, Spring 2019
6. Kasia Szaflarska, Spring 2019
7. Hannah Jenkins, Spring 2019
8. Jamie Holden, Spring 2019

Spring 2019 – Present PMPR 390: Special Projects in Pharmacy Practice
First, second, and third year pharmacy students

1. Hannah Roppo, Spring 2019

Didactic Teaching Experience

University of Illinois at Chicago College of Pharmacy

Fall 2019 – Present PHAR 503: Pathophysiology, Drug Action, and Therapeutics
Renal, Electrolytes, Nutrition
Hypercalcemia and Hypophosphatemia—1 hour
Hypercalcemia and Hypophosphatemia recitation—4 hours
Second year pharmacy students

Fall 2019 – Present PHAR 504: Pathophysiology, Drug Action, and Therapeutics
Immunology/ Respiratory
Tolerance and Autoimmunity—1 hour
Second year pharmacy students

Spring 2018 – Present PMPR 374: Solid Organ Transplant Elective
Course Coordinator, 2019 – Present
Acute Post-Operative Care of the Kidney Transplant Recipient—1 hour
Basics in Immunology in Transplantation—1 hour
Small Bowel Transplantation—1 hour
Controversies in Solid Organ Transplantation—2 hours
Third year pharmacy students (elective)

Spring 2018 – Present PMPR 381: Chronic Kidney Disease Elective
Renal Transplantation—2 hours
Second year pharmacy students (elective)

Spring 2018 PHAR 407: Pathophysiology, Drug Action, and Therapeutics
Calcium and Phosphorous Imbalances—3 hours
Calcium and Phosphorous Imbalances Recitation—6 hours
Third year pharmacy students

University of Pittsburgh School of Pharmacy

Spring 2015 PHARM 5223: Gastroenterology and Nutrition
Complications of Liver Disease Video Lecture—1 hour
Complications of Liver Disease and Hepatitis C Virus Practicum—3 hours
Second year pharmacy students

Spring 2015 PHARM 5321: Advanced Pharmaceutical Care 2
Problem-based learning case facilitator, chronic kidney disease—4 hours
Second year pharmacy students

Spring 2015 PHARM 5225: Advanced Pharmaceutical Care 1
Problem-based learning case facilitator, Pulmonary Embolism—2 hours
Second year pharmacy students

Fall 2014 PHARM 5314: Pharmacology of the Immune System
Immunosuppressants in Transplantation Lecture—1 hour
Therapeutic Drug Monitoring of Immunosuppressants—3 hours
Third year pharmacy students

Spring 2014 University of Pittsburgh Pharmacy Scholars Program
Introduction to IBM SPSS Statistics—1 hour
Fourth year pharmacy students

Spring 2014 PHARM 5321: Advanced Pharmaceutical Care 2
Problem-based learning case facilitator, chronic kidney disease—4 hours
Second year pharmacy students

Spring 2014	PHARM 5223: Gastroenterology and Nutrition Complications of Liver Disease Video Lecture—1 hour Complications of Liver Disease Practicum—3 hours Second year pharmacy students
Spring 2014	PHARM 5225: Advanced Pharmaceutical Care 1 Problem-based learning case facilitator, Pulmonary Embolism—2 hours Third year pharmacy students
Spring 2014	PHARM 5401: Advanced Pharmacy Practice Experience 1 Internal Medicine—5 week rotation Fourth year pharmacy students
Fall 2013	PHARM 5110: Profession of Pharmacy 1 Standardized patient final facilitator—4 hours First year pharmacy students
Fall 2013	PHARM 5216: Pharmacology of Cardiovascular Disease Facilitator for Patient Simulation Practicums—8 hours Second year pharmacy students
Fall 2013	PHARM 5210: Profession of Pharmacy 3 Insect Bites and Pediculosis Lecture—1 hour Final Practicum Facilitator—4 hours Second year pharmacy students
Fall 2013	PHARM 5216: Pharmacology of Endocrinology Thyroid Disorder Lecture—2 hours Contraceptive Practicum Facilitator—3 hours Third year pharmacy students
Fall 2013	PHARM 5316: Pharmacology of Pulmonology Respiratory Lab Facilitator—3 hours Third year pharmacy students

Committee Work

College of Pharmacy

2018 – Present Kappa Psi Chi 2017 Scholarship Award Committee

Department of Pharmacy Practice

2018 – Present PGY1 Residency Advisory Committee (RAC)
2018 – Present Transplant Clinical Research Team Meeting (monthly), Coordinator
2018 – Present Transplant Clinical Pharmacist Search Committee, Member
2018 – Present PGY1 Resident Selection Committee—Applicant Reviewer and Interviewer
2017 – Present PGY1 Resident Research Committee

University of Illinois Hospital and Health Sciences System

2017 – Present Transplant Immunosuppression Guideline Review Committee
2017 – Present Kidney Transplant Quality Assurance and Performance Improvement Committee
2017 – Present Organ Transplant Listing Committee, Member

Memberships in Professional Societies

2017 – Present Illinois Transplant Pharmacist Association

2014 – Present American Society of Transplantation
Transplant Pharmacy Community of Practice, Executive Committee Member, 2016

2012 – Present American College of Clinical Pharmacy
Immunology/ Transplantation PRN, Communication Committee Chair, 2019
Immunology/ Transplantation PRN, Communication Committee Vice-Chair, 2018
Immunology/ Transplantation PRN, Research Committee Member, 2017
Immunology/ Transplantation PRN, New Practitioner Committee Chair, 2016
Immunology/ Transplantation PRN, Trainee Executive Board Member, 2016

2009 – Present Kappa Psi Pharmaceutical Fraternity, Inc.
Grand Council Deputy (Chi Chapter), 2018 – Present

Honors and Awards

2016 ACCP Immunology/ Transplantation PRN Travel Award
2016 ATC Transplant COP—Young Investigator Research Travel Award
2014 ACCP GI/Liver/Nutrition PRN Travel Award
2014 AACP Walmart Scholar
2010 Big East All-Academic Team

Volunteer Activities

2016 – 2017 Cincinnati Greyhound Adoption League
2014 Ocote Paulino Honduras Brigade, Pharmacist
2013 – 2015 Birmingham Free Clinic of UPMC, Pharmacist
2012 – 2013 The Salvation Army Harbor Light, The Albert Schweitzer Fellow
2012 Crohn's & Colitis Foundation of America, Team Challenge

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