

# Seth David Heldenbrand, Pharm. D.

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## PERSONAL INFORMATION

Business Address: University of Arkansas for Medical Sciences  
College of Pharmacy  
4301 West Markham St., Slot #522  
Little Rock, Arkansas 72205  
501-686-6392

E-mail: [heldenbrandsethd@uams.edu](mailto:heldenbrandsethd@uams.edu)

Licensure: Arkansas #8672

## ACADEMIC APPOINTMENT

August 2016 – Present Associate Dean of Experiential Education  
College of Pharmacy  
University of Arkansas for Medical Sciences  
Little Rock, Arkansas

May 2014 – August 2016 Assistant Dean of Experiential Education  
College of Pharmacy  
University of Arkansas for Medical Sciences  
Little Rock, Arkansas

July 2013 – Present Associate Professor of Pharmacy Practice  
College of Pharmacy  
University of Arkansas for Medical Sciences  
Little Rock, Arkansas

August 2007 – June 2013 Assistant Professor of Pharmacy Practice  
College of Pharmacy  
University of Arkansas for Medical Sciences  
Little Rock, Arkansas

## POST-GRADUATE EXPERIENCE

**Pharmacy Practice Residency**  
June 2002 – July 2003 University Hospital

University of Arkansas for Medical Sciences  
Little Rock, Arkansas  
Director: Mike Parr, Pharm. D.

## EDUCATION

Aug. 1993 – May 1997

University of Arkansas for Medical Sciences  
College of Pharmacy  
Little Rock, Arkansas  
Doctor of Pharmacy

Aug. 1990 – May 1993

University of Central Arkansas  
Conway, Arkansas  
Pre-Pharmacy Curriculum

## PROFESSIONAL PRACTICE EXPERIENCE

### Administrative Experience

August 2016 – Present

#### ***Associate Dean of Experiential Education***

Office of Experiential Education  
University of Arkansas for Medical Sciences  
College of Pharmacy/University Hospital  
Little Rock, Arkansas

May 2014 – August 2016

#### ***Assistant Dean of Experiential Education***

Office of Experiential Education  
University of Arkansas for Medical Sciences  
College of Pharmacy/University Hospital  
Little Rock, Arkansas

### Clinical Experience

January 2008 – November 2011

#### ***Clinical Pharmacy Specialist:*** Solid Organ Transplant

Outpatient Kidney Transplant Clinic  
University of Arkansas for Medical Sciences  
College of Pharmacy/University Hospital  
Little Rock, Arkansas

August 2007 – May 2014

#### ***Clinical Pharmacy Specialist:*** Solid Organ Transplant

University of Arkansas for Medical Sciences  
College of Pharmacy/University Hospital  
Little Rock, Arkansas

August 2007 – January 2012      **Clinical Pharmacy Specialist:** Solid Organ Transplant  
Outpatient Liver Transplant Clinic  
University of Arkansas for Medical Sciences  
College of Pharmacy/University Hospital  
Little Rock, Arkansas

August 2004 – June 2007      **Clinical Floor Pharmacist:** Bone Marrow Transplant  
**Staff Pharmacist:** Inpatient Pharmacy  
University of Arkansas for Medical Sciences  
Inpatient Pharmacy, University Hospital  
Little Rock, Arkansas

August 2002 – November 2011      **Clinical Pharmacy Specialist**  
Anticoagulation Clinic  
University of Arkansas for Medical Sciences  
Inpatient Pharmacy, University Hospital  
Little Rock, Arkansas

Other Experience  
January 2000 – June 2002      **Staff Pharmacist: Pharmacist II**  
University of Arkansas for Medical Sciences  
Arkansas Cancer Research Center  
Little Rock, Arkansas

March 2010 – September 2011      **Staff Pharmacist**  
Wal-Mart Pharmacy (Maumelle Blvd)  
Weekend Pharmacist (monthly)  
Maumelle, Arkansas

November 1999 – December 2000      **Staff Pharmacist**  
Kroger Pharmacy (McCain Blvd)  
North Little Rock, Arkansas

April 1997 – November 1999      **Chief IV Pharmacist (05/1998-11/1999)**  
**Staff Pharmacist (04/1997-05/1998)**  
Central Pharmacy of Arkansas, LLC  
Long-Term Care Pharmacy  
Sherwood, Arkansas

May 1995 – August 1995      **Nuclear Pharmacy Intern**  
Mallinckrodt Nuclear Pharmacy  
San Francisco, California

## TEACHING

### College of Pharmacy

August 2016 – Present

#### **Course Coordinator**

Leadership Elective (special problems)  
2 hour elective (14 students 2016)

January 2015 – Present

#### **Course Coordinator**

Entrepreneurship PhPr5752  
2 hour elective (10 students 2016; 12 students 2015)  
Team won Pruitt-Schutte National Competition

January 2014 – Present

#### **Lecturer**

Clinical Pharmacokinetics PhSc4642  
1 hour (120 students)

January 2014 – Present

#### **Business Plan Team Project Advisor**

Entrepreneurship PhPr5752  
Team made top 3 in the NCPA national competition

September 2012 – December 2012

#### **Course Coordinator**

Special Problems in Clinical Practice PhPr 5332  
2 hour elective (1 student)

December 2011 – May 2014

#### **Course Coordinator**

Therapeutics III PhPr 5644 (~120 students)

January 2012 – May 2014

#### **Lecturer**

Therapeutics I PhPr 4625 (~120 students)  
Lecture hours: 2012 (two), 2013 (one), 2014 (one)  
*Glomerulonephritis; Diuretics*

November 2010 – November 2011

#### **Lecturer**

Drug Induced Disease Elective PrPh 5362 (~ 30 students)  
Lecture hours: 2010 (one)  
*Nephrogenic Systemic Fibrosis*

February 2008 – Present

#### **Lecturer**

Therapeutics III PhPr 5644; (~120 students)  
Lecture hours: 2008 (four), 2009 (nine), 2010 (fourteen),  
2011 (ten), 2012 (five), 2013 (five), 2014 (six)  
*Introduction to Solid Organ Transplant and  
Immunosuppression; Immunology I & II; Transplant  
Rejection and the KDIGO Guidelines; Infectious Disease  
Complications of Transplantation; Non-infectious  
Complications of Transplantation; Cancer Pain; Cancer and*

*Cancer Therapy; Bone Marrow Transplantation; Top U.S. Cancers I & II; Symptomatic Treatment of Cancer Complications I & II; Antineoplastics I & II*

March 2012– May 2014

***Residency Preceptor***

Central Arkansas Veterans Healthcare System Pharmacy  
Practice Residency  
PGY2 Ambulatory Care Specialty Residency  
Little Rock, Arkansas  
Academic year: 2011-2012 (1 resident)

December 2010 – May 2014

***Residency Preceptor***

University of Arkansas for Medical Sciences  
College of Pharmacy  
Combined Masters In Public Health and PGY1 Practice  
Residency (2 year residency)  
Little Rock, Arkansas  
Academic year: 2009-2010 (3 resident months); 2010-2011  
(3 resident months)

March 2010 – May 2014

***Residency Preceptor***

Central Arkansas Veterans Healthcare System Pharmacy  
Practice Residency  
Little Rock, Arkansas  
Academic year: 2010-2011 (2 residents); 2011-2012 (1  
resident)

September 2009 – May 2014

***Residency Preceptor***

Arkansas Children’s Hospital ASHP Pharmacy Practice  
Residency  
Little Rock, Arkansas  
Academic year: 2009-2010 (1 resident)

August 2008 – Present

***Small Group Facilitator***

Pharmacy Practice 3422  
Career Orientation and Communication

January 2008 – May 2014

***Residency Preceptor***

University Hospital  
ASHP Pharmacy Practice Residency  
Little Rock, Arkansas  
Academic year: 2007-2008 (1 resident); 2008-2009 (3  
residents); 2009-2010 (2 residents); 2010-2011 (3 resident  
months); 2011-2012 (2 resident months), 2012-2013 (3  
resident months)

February 2008 – May 2014	<b><i>Preceptor</i></b> Pharmacy Practice 6614; Acute Care Advanced Pharmacy Practice Experience, Adult Medicine Rotation, Solid Organ Transplantation Academic year: 2007-2008 (3 students); 2008-2009 (16 students); 2009-2010 (16 students); 2010-2011 (16 students)
January 2007 – May 2014	<b><i>Facilitator</i></b> Acute Care Adult Medicine Conference Facilitator for weekly patient specific discussions for all students on acute care rotations
January 2002 – May 2003	<b><i>Facilitator</i></b> Pharmacy Practice: PPHR 4625 Therapeutics I Recitation Leader Facilitator for weekly case discussions
August 2002 – December 2002	<b><i>Facilitator</i></b> Pharmacy Practice: PPHR 4625 Therapeutics II Recitation Leader Facilitator for weekly case discussions

## RESEARCH EXPERIENCE

August 2015 - July 2016	Evaluating the impact of APPE rotations on pharmacy students' attitudes on perceptions toward interprofessional practice Cora Housley, PharmD, Rebecca Shilling, PharmD Candidate 2017, <b><u>Seth Heldenbrand, PharmD</u></b> , Nalin Payakachat, PhD, Ashley Castleberry, PharmD, MAEd, Schwanda Flowers, PharmD, Drayton Hammond, PharmD, MBA, BCPS, BCCCP
June 2015 – Present	Review of Smartphone Medication Adherence Apps for Features, Functionality, and Level of Health Literacy Followed by Launch of a Searchable Medication Adherence App Website <b><u>Seth Heldenbrand, Pharm.D.</u></b> , Lindsey Dayer, Pharm.D., Becky Shilling, Pharm.D. Candidate 2017, Madalyn Vanvalkenburg, Pharm.D. Candidate 2018, Paul Gubbins, Pharm.D., Brad Martin, Pharm.D., Ph.D.
May 2015 – Present	Multiple Mini-Interview Performance Correlation with Advanced Pharmacy Practice Experience Performance, Summative Exam Scores, and Didactic Pharmacy School GPA

- Seth Heldenbrand, Pharm.D.**, Brad Martin, Pharm.D., Ph.D., Kelsey Willis, Pharm.D. Candidate 2018, Ashley Castleberry, Pharm.D., Janna Hawthorne, Pharm.D., Morgan Ramey, Pharm.D. Candidate 2016, Schwanda Flowers, Pharm.D.
- June 2014 – May 2015      Review of Online Marketplaces and Testing of Smartphone Medication Adherence Apps for Features, Functionality, and Level of Health Literacy  
**Seth Heldenbrand, Pharm.D.**, Lindsey Dayer, Pharm.D., Catie Renna, Pharm.D. Candidate 2016, Becky Shilling, Pharm.D. Candidate 2017, Paul Gubbins, Pharm.D., Brad Martin, Ph.D.
- Sept. 2013 – June 2016      Multivariate Analysis of the Multiple Mini-Interview as a Predictor of Academic Difficulty In the Pharm.D. Curriculum  
**Seth Heldenbrand, Pharm.D.**, Bryan Bordelon, Pharm.D., Schwanda Flowers, Pharm.D., Paul Gubbins, Pharm.D., Brad Martin, Ph.D.
- February 2013 – June 2013      Predictors of Academic Difficulty: GPA, PCAT and Multiple Mini-Interview All Predict Academic Difficulty In the PharmD Curriculum  
**Seth Heldenbrand, Pharm.D.**, Schwanda Flowers, Pharm.D., Cindy Stowe, Pharm.D., Paul Gubbins, Pharm.D., Brad Martin, Ph.D.
- Nov. 2012 – March 2012      Review of Smartphone Medication Adherence App Online Marketplaces  
Lindsey Dayer, Pharm.D. **Seth Heldenbrand, Pharm.D.**, Paul Anderson, Paul Gubbins, Pharm.D., Brad Martin, Ph.D.
- July 2012 – July 2016      Efficacy and Safety of Valganciclovir for Prevention of Cytomegalovirus Disease in Moderate-risk Renal Transplant Recipients: A Multi-center, Retrospective Analysis  
Principal Investigator: **Seth Heldenbrand, Pharm.D.**  
Co-Investigator: Steven Gabardi, Pharm.D., BCPS
- March 2012 – 2013      Do Smartphone ‘Apps’ Improve Antihypertensive Adherence & Blood Pressure Control?  
Co-Investigator and mentor: **Seth Heldenbrand, Pharm.D.**  
Principal Investigator: Lindsey Dayer, Pharm.D.
- Sept 2011 – June 2012      Direct to Consumer Coupon Culture and the Pharmacist as Intermediary.  
Co-Principle Investigator: **Seth Heldenbrand, Pharm.D.**  
Principle Investigator: Qayyim Said, Ph.D.  
Co-Principle Investigator: Karen M Hood, Ph.D.

- May 2011 – June 2013      Retrospective Evaluation and Comparison of Brand Name Prograf® and Generic Tacrolimus in Hospitalized and Ambulatory Liver and Kidney Transplant Recipients at UAMS.  
Principle Investigator: **Seth Heldenbrand, Pharm.D.**
- October 2009 – June 2010      Evaluation of the Transplant Medication Education Process: A Look at Patient Self-efficacy and Satisfaction in the Transplant Setting.  
Principal Investigator and mentor: **Seth Heldenbrand, Pharm.D.**  
Co-Investigator: Lindsey Turnbow, Pharm.D.
- July 2002 – June 2003      A Retrospective Analysis of the Relationship between the Administration of Trastuzumab and the Incidence of Brain Metastases in Women with Primary Carcinoma of the Breast.  
Principal Investigator: **Seth Heldenbrand, Pharm.D.**
- June – August 1995      The Viability of Radio-labeled Human White Blood Cells: An Examination of Cell Function and Survival. Principle Investigator: Brian Nguyen, Pharm.D. Co-Investigator: **Seth Heldenbrand.**  
Mallinckrodt Nuclear Pharmacy, San Francisco, California

## GRANTS

### Unfunded

Development of a Behavioral App for Improving Medication Adherence

Peters T, Medactionplan.com, LLC (PI), Martin B (PI), **Heldenbrand S** (Co-I), Payakachat N (Co-I)

Submitted 12/2013 to NIH STTR Funding (\$149,533)

Do Smartphone ‘Apps’ Improve Antihypertensive Adherence & Blood Pressure Control?

Dayer L (PI), **Heldenbrand S (Co-I)**, Martin B (Co-PI), Gubbins PO (Co-I), Anderson P (Co-I), Wei F (Co-I) Submitted to NIH R21 Funding (\$399,793.00)

The Influence of Cancer on Hypertension, Diabetes, and Hyperlipidemia Control

Martin B (PI), Dayer L (Co-I), **Heldenbrand S (Co-I)**, Gubbins PO (Co-I), Wei F (Co-I)

Submitted to UAMS TRI Funding (\$25,000.00)



## PUBLICATIONS

### Refereed Publications

#### Case Reports

Gaurav S, **Heldenbrand S**, Duarte-Rojo, A. Seizures as a potential complication of treatment with simeprevir and sofosbuvir. *Am J Ther*. 2014 Dec

#### Original Research

**Heldenbrand S**, Li, Chengui, Steven Gabardi, PharmD<sup>1</sup>, Rosemary P Cross, PharmD<sup>1</sup>, Kelly A DePiero, PharmD<sup>1</sup>, Travis B Dick, PharmD<sup>1</sup>, Kara Ferguson, PharmD<sup>1</sup>, Erin Newkirk, PharmD<sup>1</sup>, Jeong M Park, PharmD<sup>1</sup>, Eric Tichy, PharmD<sup>1</sup>, Kimi R Ueda, PharmD<sup>1</sup>, Renee R Weng, PharmD<sup>1</sup> Multicenter Evaluation of Efficacy and Safety of Valganciclovir 450mg/day vs. 900 mg/day for Prevention of Cytomegalovirus Disease in Donor Positive and Recipient Positive (D+/R+) Renal Transplant Recipients. *Transplant Infectious Diseases*: ePub ahead of print August 2016

**Heldenbrand S**, Martin B, Gubbins PO, Hadden K, Renna C, Shilling R, Dayer L. Assessment of medication adherence apps' features, functionality, health literacy level and the creation of a web-based adherence app resource for health care professionals and patients. *J Am Pharm Assoc* 2016 Apr 7

**Heldenbrand S**, Flowers S, Bordelon, B, Gubbins PO, O'Brien C, Stowe, C and Martin B. Multiple Mini-Interview Performance Predicts Academic Difficulty in the Pharm.D. Curriculum. *Am J Pharm Edu* Mar 2016 25; 80(2): 27

Dayer L, **Heldenbrand S**, Gubbins PO, Anderson P, Martin B. Review of mobile adherence technologies aimed at improving patient adherence to medications. *J Am Pharm Assoc*. 2013;53:172-181

#### Review Articles

Doyle I, Maldonado A, **Heldenbrand S**, Tichy E, Trofe-Clark J. Non-adherence to therapy after adult solid organ transplantation: A focus on risk and mitigation strategies. *Am J Health-Sys Pharm* 2016, 73(12):909-920

Gubbins PO, **Heldenbrand S**. Clinically Relevant Drug Interactions of Current Antifungal Agents. *Mycoses*. 2009 Dec; 53, 95–113

Warmack SC, Estes M, **Heldenbrand S**, Franks A.  $\beta$ -Adrenergic Antagonists in Hypertension: A Review of the Evidence. *Ann Pharmacother*. 2009 Dec;43(12):2031-43

### Non-Refereed Publications

#### Editorials

**Heldenbrand S**. Focus on electronic-based technology: Medication adherence in solid organ transplant recipients. *Pharmacy Practice News*. May 2014; 41:5; 18

#### Letters

Dayer L, **Heldenbrand S**, Gubbins PO, Anderson P, Martin B. Smartphone medication adherence apps: Potential benefits to patients and providers: Response to Aungst. *J Am Pharm Assoc.* 2013;53:4; 345

Manuscripts In-progress

**Heldenbrand S**, Li, Chengui, Steven Gabardi, PharmD<sup>1</sup>, Rosemary P Cross, PharmD<sup>1</sup>, Kelly A DePiero, PharmD<sup>1</sup>, Travis B Dick, PharmD<sup>1</sup>, Kara Ferguson, PharmD<sup>1</sup>, Erin Newkirk, PharmD<sup>1</sup>, Jeong M Park, PharmD<sup>1</sup>, Eric Tichy, PharmD<sup>1</sup>, Kimi R Ueda, PharmD<sup>1</sup>, Renee R Weng, PharmD<sup>1</sup> Multicenter Evaluation of Efficacy and Safety of Valganciclovir 450mg/day vs. 900 mg/day for Prevention of Cytomegalovirus Disease in Donor Positive and Recipient Positive (D-/R+) Renal Transplant Recipients.

Flowers S, **Heldenbrand S**, B, Gubbins PO, O'Brien C, Stowe, C and Martin B. Multiple Mini-Interview Performance Correlates with APPE performance  
*In Progress*

Lindsey D, Martin B, Gubbins PO, Shilling B, Vanvalkenburg M, and **Heldenbrand S** There Are Too Many Apps for That: Medication Adherence  
*In Progress*

**ARTICLES REFEREED**

- |               |   |
|---------------|---|
| May 2015      | A prospective randomized trial on the effect of using an electronic monitoring drug dispensing device to improve adherence and compliance<br><i>American Journal of Transplantation</i> |
| December 2014 | Nonadherence in kidney transplant recipients: can technology help?<br><i>American Journal of Transplantation</i>  |
| November 2012 | Polymyositis in solid organ transplant recipients<br><i>American Journal of Transplantation</i>   |

**ABSTRACTS AND PRESENTATIONS**

Abstracts

- |           |  |
|-----------|--|
| July 2016 | <b>Seth Heldenbrand, PharmD</b> , Nalin Payakachat, PhD, Ashley Castleberry, PharmD, MAEd, Schwanda Flowers, PharmD, Drayton Hammond, PharmD, MBA, BCPS, BCCCP |
|-----------|--|

Evaluating the impact of APPE rotations on pharmacy students' attitudes on perceptions toward interprofessional practice  
Cora Housley, PharmD, Rebecca Shilling, PharmD Candidate 2017,

March 2016

**Seth Heldenbrand, Pharm.D.**, Lindsey Dayer, Pharm.D., Becky Shilling, Pharm.D. Candidate 2017, Madalyn Vanvalkenburg, Pharm.D. Candidate 2018, Paul Gubbins, Pharm.D., Brad Martin, Pharm.D., Ph.D.

There are too many apps for that: Medication Adherence  
APhA Annual 2016 meeting Baltimore, MD

September 2015

**Seth Heldenbrand, Pharm.D.**, Lindsey Dayer, Pharm.D., Becky Shilling, Pharm.D. Candidate 2017, Madalyn Vanvalkenburg, Pharm.D. Candidate 2018, Paul Gubbins, Pharm.D., Brad Martin, Pharm.D., Ph.D.

There are too many apps for that: Medication Adherence  
AAHP Fall Seminar Little Rock, AR

April 2015

Lanita White, Pharm.D., Kathryn Neill, Pharm.D., **Seth Heldenbrand, Pharm.D.**, Lee Wilbur, MD

Creating an Interprofessional Triple Aim Curriculum  
Poster presented at the Society of Teachers of Family Medicine 2015 Annual Spring Conference, Orlando FL

March 2015

**Seth Heldenbrand, Pharm.D.**, Lindsey Dayer, Pharm.D., Catherine Renna, Rebecca Shilling, Bradley C. Martin, PharmD, PhD  
Navigating the Flooded Adherence App Marketplace: Rating the Quality of Medication Adherence Apps  
Poster Presented at the APhA National Meeting 2015, San Deigo, CA

July 2014

**Seth Heldenbrand, Pharm.D.**, Brian Bordelon, Pharm.D. Schwanda Flowers, Pharm.D., and Brad Martin, Ph.D. Multivariate Analysis of the Multiple Mini-Interview as a Predictor of Academic Difficulty In the Pharm.D. Curriculum. Poster Presented at the AACP National Meeting, Grapevine, TX

July 2013

**Seth Heldenbrand, Pharm.D.**, Schwanda Flowers, Pharm.D., Paul O Gubbins, Pharm.D., Cindy Stowe, Pharm.D., and Brad Martin, Ph.D.  
Predictors of Academic Difficulty In a Pharm.D. Curriculum  
Poster Presented at the AACP National Meeting, Chicago, IL

May 2013

Qyaaaim Said, Ph.D., Karen Hood, Ph.D, **Seth Heldenbrand,**

**Pharm.D.**

Prescription Drugs and Discounts: The Pharmacist's View  
Poster Presented at ISPOR 18th Annual International Meeting May, 2013, New Orleans, LA

May 2013

Steven Gabardi, PharmD<sup>1</sup>, Rosemary P Cross, PharmD<sup>1</sup>, Kelly A DePiero, PharmD<sup>1</sup>, Travis B Dick, PharmD<sup>1</sup>, Kara Ferguson, PharmD<sup>1</sup>, Erin Newkirk, PharmD<sup>1</sup>, Jeong M Park, PharmD<sup>1</sup>, Eric Tichy, PharmD<sup>1</sup>, Kimi R Ueda, PharmD<sup>1</sup>, Renee R Weng, PharmD<sup>1</sup>  
**and Seth Heldenbrand, PharmD<sup>1</sup>**

Multicenter Evaluation of Efficacy and Safety of Valganciclovir 450mg/day vs. 900 mg/day for Prevention of Cytomegalovirus Disease in Donor and Recipient Positive (D+/R+) Renal Transplant Recipients.

Presented as an Oral Presentation in Concurrent Session 12: Cytomegalovirus and other viruses at the American Transplant Congress 2013 *Seattle, WA*

Steven Gabardi, PharmD<sup>1</sup>, Rosemary P Cross, PharmD<sup>1</sup>, Kelly A DePiero, PharmD<sup>1</sup>, Travis B Dick, PharmD<sup>1</sup>, Kara Ferguson, PharmD<sup>1</sup>, Erin Newkirk, PharmD<sup>1</sup>, Jeong M Park, PharmD<sup>1</sup>, Eric Tichy, PharmD<sup>1</sup>, Kimi R Ueda, PharmD<sup>1</sup>, Renee R Weng, PharmD<sup>1</sup>  
**and Seth Heldenbrand, PharmD<sup>1</sup>**

"Prevention of Cytomegalovirus with Valganciclovir 450mg Daily vs. 900mg Daily in Intermediate Risk Renal Transplant Recipients (D-/R+); a Multicenter Safety and Efficacy Evaluation"

Presented as a Poster Presentation at the American Transplant Congress 2013 *Seattle, WA*

July 2012

Gubbins PO, Schneider EF, Carle MH, Neill KK, Jones KM, Warmack TS, **Heldenbrand S** "Students' Assessment of Whether Report Cards Provide Valuable Feedback on Their Exam Performance" presented at the 2012 AACP Annual Meeting in Kissimmee, FL [Abstract]. 113th Annual Meeting of the American Association of Colleges of Pharmacy, Kissimmee, FL, July 14-18, 2012. Am J Pharm Ed 2012; 76 (5): Article 99.

May 2012

Extended Comparison of Therapeutic Treatment Outcomes of *de novo* Liver and Kidney Transplant Recipients with Generic Tacrolimus (Sandoz™) or Brand Name (Prograf®)

**Seth Heldenbrand, Pharm.D.**, Gavin Jones, Ph.D., Joshua Bornhorst, Ph.D., Nalin Payakachat, Ph.D. *Am J Transplant.* 2012 Supplement 3 Vol 12:240

Presented at the American Transplant Congress 2012 *Boston, MA*

- October 2011 Five-month Observational Control Trial of Generic Versus Brand Name Tacrolimus in UAMS Solid Organ Transplant Recipients  
Gavin Jones, Ph.D., **Seth Heldenbrand, Pharm.D.**, Nalin Payakachat, Ph.D., Joshua Bornhorst, Ph.D.  
Awarded 1st Place in Poster Competition  
*2011 AAHP Annual Meeting and Seminars, Little Rock, AR*
- August 2010 Evaluation of Patient Satisfaction and Self-Efficacy After Medication Education Following Solid Organ Transplantation  
**Seth Heldenbrand, Pharm.D.**, Lindsey Turnbow, Pharm.D., Nalin Payakachat, Ph.D.  
*2010 ACCP Annual Meeting and Seminars, Austin TX*
- March 2010 Development and implementation of a high-stakes objective structured clinical examination (OSCE)-based senior summative examination  
Cindy D. Stowe; Eric F. Schneider; Jeremy L. Thomas; Phillip J Breen; Denise Ragland; **Seth D Heldenbrand**; Jan K. Hastings; Stephanie F. Gardner.  
*2010 AACP Annual Meeting and Seminars, Seattle, WA*

#### Invited Presentations

- September 2014 Medication Adherence Aids for Underserved Populations  
Presented to the Nursing Managers of Community Health Centers
- July 2014 Medication Adherence Aids of Yesterday, Today, and Tomorrow  
Presented at the Arkansas Department of Health
- December 2013 Patient and Family Centered Care and the UAMS Employee Evaluation Process  
Presented at the graduation of the Leadership Institute 2013
- December 2013 Medication Adherence Tools In the Challenging Transplant Recipient Live Webinar broadcasted by the American Society of Transplantation  
[www.a-s-t.org](http://www.a-s-t.org)

#### Other Presentations

- July 2014 Teaching Advanced Pharmacy Practice Experiential Students  
Presented to the UAMS Teaching Certificate Program  
Little Rock, Arkansas
- February 2013 Transplant Pharmacy and Organ Donation and Awareness: Past, present and future

- Presented to the UAMS Society of Student Hospital Pharmacists Organization  
Little Rock, Arkansas
- August 2012 Interdisciplinary Education: How Pharmacists Can Lead The Way  
Presented to the UAMS Residency Teaching Certificate Program  
Little Rock Arkansas
- August 2012 Assessing Student SOAP Notes  
Presented to the UAMS Residency Teaching Certificate Program  
Little Rock, Arkansas
- October 2011 Comparison of Brand and Generic Tacrolimus in Renal and Hepatic  
Transplant Recipients at UAMS: Preliminary Data  
UAMS College of Pharmacy Seminar Series  
Arkansas State Board of Pharmacy approved live CE  
Presented to UAMS Healthcare Professionals and Students in  
Attendance  
Little Rock, Arkansas
- August 2011 Transplant Medications and How to Pay for Them  
American Association of Kidney Patients National Meeting  
Presented to Attendees of the 2011 AAKP National Meeting  
Little Rock, Arkansas
- July 2011 Interdisciplinary Education: How Integration Leads to Team  
Education  
Presented to the UAMS Residency Teaching Certificate Program  
Little Rock, Arkansas
- May 2011 Hepagam HBIG for Prevention of Hepatitis B Recurrence Following  
Orthotopic Liver Transplantation: The Differences From NabiHB  
Presented to the UAMS Liver Transplant Conference  
Division of Transplant  
Little Rock, Arkansas
- January 2010 Effectiveness and Expense of Atovaquone for PCP Prophylaxis in  
Liver Transplant Patients  
Presented to the UAMS Liver Transplant Conference  
Division of Transplant  
Little Rock, Arkansas
- January 2010 Reducing Medication Errors through Changes in Practices with Our  
Electronic Medication Records  
Presented to the UAMS Solid Organ Transplant Team  
2010 UAMS Transplant Retreat

Division of Transplant  
Little Rock, Arkansas

March 2009  
Transplant Immunology and Immunosuppression for Surgical Residents  
Presented to UAMS surgical residents and anesthesia interns  
Department of Surgery Basic Science Conference  
Little Rock, Arkansas

March 2008  
A Review of Immunosuppressants  
Presented to the Arkansas Organ Recipient Support Group  
Conway, Arkansas

### Continuing Education Programs

October 2014  
Making the Most Out of Experiential Education  
Arkansas Association of Hospital Pharmacists  
Certified CNE (1 hour)  
Little Rock, Arkansas

July 2013  
Transplant Immunosuppression  
UAMS Transplant and Floor Nurses  
Certified CNE (1 hour)  
Co-presenters Kayla Rudolph and Helen Chang  
Little Rock, Arkansas

April 2012  
“Transplant for Dummies”  
Arkansas State Board of Pharmacy approved live CE  
VA Grand Pharmacy Rounds  
Presented to VA and UAMS pharmacist and technicians  
Little Rock, Arkansas

September 2011  
Belatacept: A novel primary immunosuppressant for kidney transplant recipients  
Arkansas State Board of Pharmacy approved live CE  
Presented to UAMS pharmacists and technicians  
Little Rock, Arkansas

August 2010  
Common causes of end-stage liver disease and the role of transplantation  
Arkansas State Board of Pharmacy approved live CE  
Presented to UAMS pharmacists and technicians by a fourth year pharmacy student on my rotation  
Little Rock, Arkansas

Common causes of end-stage renal disease and the role of transplantation  
Arkansas State Board of Pharmacy approved live CE  
Presented to UAMS pharmacists and technicians by a fourth year pharmacy student on my rotation  
Little Rock, Arkansas

November 2008

Pharmacokinetic Changes in the Elderly  
UAMS Pharmacy CE Department  
Arkansas State Board of Pharmacy approved live CE  
Presented to a large group of consultant pharmacist  
Little Rock, Arkansas

August 2008

Introduction to Solid Organ Transplant and Immunosuppression  
VA Pharmacy Grand Rounds  
Arkansas State Board of Pharmacy approved live CE  
Presented to VA, UAMS, and other central Arkansas pharmacists  
Little Rock, Arkansas

#### University In-services

September 2011

Belatacept: Selective T-Cell Costimulation Blocker and its impact on organ transplantation  
Presented to E7 transplant nurses and transplant coordinators by a fourth year pharmacy student on my rotation

July 2010

A review Good Pasture's syndrome  
Presented to E7 transplant nurses and transplant coordinators by a fourth year pharmacy student on my rotation

A review of Alport's syndrome  
Presented to E7 transplant nurses and transplant coordinators by a fourth year pharmacy student on my rotation

June 2010

Primary sclerosing cholangitis  
Presented to E7 transplant nurses and transplant coordinators by a fourth year pharmacy student on my rotation

Primary biliary cirrhosis  
Presented to E7 transplant nurses and transplant coordinators by a fourth year pharmacy student on my rotation

January 2010

UAMS transplant immunosuppression protocols  
Presented to H4 ICU nurses by a fourth year pharmacy student on my rotation



September 2009	Transplant anti-infectives Presented to E7 transplant nurses and transplant coordinators by a fourth year pharmacy student on my rotation
July 2009	Immunosuppression protocol for liver and kidney patients Presented to E7 transplant nurses and transplant coordinators by a fourth year pharmacy student on my rotation
April 2009	The importance of adherence in transplant patients Presented to E7 transplant nurses and transplant coordinators by a fourth year pharmacy student on my rotation
October 2008	Common pathogens post solid organ transplantation Presented to A7 transplant nurses and transplant coordinators by a fourth year pharmacy student on my rotation
August 2008	Toxicities of immunosuppressant and anti-infective agents Presented to A7 transplant nurses and transplant coordinators by a fourth year pharmacy student on my rotation

## **PROFESSIONAL SERVICE**

### National Level

July 2013 – June 2015	UAMS American Association of Colleges of Pharmacy Delegate (elected / 2-year term)
April 2012 – Present	Organ Donation Awareness Committee American Society of Transplantation Transplant Pharmacist Community of Practice
April 2012 – Present	ATC Pharmacist Roadmap Committee American Society of Transplantation Transplant Pharmacist Community of Practice
September 2011 – Present	Technology and Information Committee American Society of Transplantation Transplant Pharmacist Community of Practice
September 2011 – Present	Professional Workgroup Committee American Society of Transplantation Transplant Pharmacist Community of Practice
June 2009 – Present	Community of Practice of Transplant Pharmacist American Society of Transplantation

State Level

October 2016 – Present

Arkansas Regional Organ Recovery Agency  
*Chairman of the Board*  
ARORA Board of Directors  
Little Rock, Arkansas

August 2013 – October 2016

Arkansas Regional Organ Recovery Agency  
*Board Member*  
Little Rock, Arkansas

November 2007 – June 2009

Arkansas Medicaid Drug Review Committee  
Appointed by the Chair of Pharmacy Practice  
University of Arkansas for Medical Sciences  
Little Rock, Arkansas

University Level

March 2015 – Present

UAMS Interprofessional Education Curriculum Pillar Team  
University of Arkansas for Medical Sciences  
Little Rock, Arkansas

July 2015 – October 2015

UAMS Interprofessional Education Collaboration  
Committee  
Co-chair of subcommittee  
University of Arkansas for Medical Sciences  
Little Rock, Arkansas

October 2014 – February 2015

UAMS Interprofessional Education Pilot Subcommittee  
Chair of subcommittee  
University of Arkansas for Medical Sciences  
Little Rock, Arkansas

December 2013 - Present

UAMS Interprofessional Education Steering Committee  
Appointed by the Dean of the College of Pharmacy  
University of Arkansas for Medical Sciences  
Little Rock, Arkansas

August 2011 – Present

UAMS Medication Reconciliation Committee  
Appointed by the Dean of the College of Pharmacy  
University of Arkansas for Medical Sciences  
Little Rock, Arkansas

October 2011 – Present

UAMS Readmissions Committee  
Appointed by the Dean of the College of Pharmacy  
University of Arkansas for Medical Sciences  
Little Rock, Arkansas

July 2011 – September 2012	UAMS Discharge Pathway Improvement Committee Appointed by the Dean of the College of Pharmacy University of Arkansas for Medical Sciences Little Rock, Arkansas
March 2011 – September 2011	UAMS Physicians Assistant Chair Search Committee Appointed by the Dean of the College of Pharmacy University of Arkansas for Medical Sciences Little Rock, Arkansas
September 2010	Inaugural Interprofessional Education Series Panelist and Facilitator Appointed by the Dean of the College of Pharmacy University of Arkansas for Medical Sciences Little Rock, Arkansas
July 2009 – June 2011	UAMS House of Delegates UAMS College of Pharmacy Representative University of Arkansas for Medical Sciences Little Rock, Arkansas
August 2008 – July 2009	Academic Senate UAMS College of Pharmacy Representative University of Arkansas for Medical Sciences Little Rock, Arkansas
July 2002 – June 2003	University Hospital Pharmacy & Therapeutics Committee University of Arkansas for Medical Sciences Little Rock, Arkansas
<u>College Level</u> July 2012 – June 2015	Curriculum Committee (chair) UAMS College of Pharmacy University of Arkansas for Medical Sciences Little Rock, Arkansas
March 2012 – Present	Teaching Certificate Program Portfolio Review Committee University of Arkansas for Medical Sciences Little Rock, Arkansas
July 2011 – Present	Admissions Committee Department of Pharmacy Practice Representative University of Arkansas for Medical Sciences Little Rock, Arkansas
September 2008 – Present	Assessment Committee

Department of Pharmacy Practice Representative  
University of Arkansas for Medical Sciences  
Little Rock, Arkansas

June 2012 – Present

Social Chair  
Department of Pharmacy Practice  
University of Arkansas for Medical Sciences  
Little Rock, Arkansas

#### Department Level

2007 – Present

Evaluator and Case Writer  
Pharmaceutical Care Encounters Program (PCEP)  
University of Arkansas for Medical Sciences  
Little Rock, Arkansas

### **POST-GRADUATE PROFESSIONAL DEVELOPMENT**

January 2013 – December 2013

Leadership Institute 2013  
University of Arkansas for Medical Sciences  
Little Rock, Arkansas

August 2012 – Present

Immunization Certification  
Arkansas Pharmacist Association and Arkansas State  
Board of Pharmacy

July 2009 – May 2010

College of Pharmacy Teaching Certificate Program  
Director: Amy Franks, Pharm. D.

### **PROFESSIONAL ORGANIZATIONS**

January 2010 – Present

American Association of Colleges of Pharmacy

January 2007 – Present

American College of Clinical Pharmacy

January 2007 – Present

American Society of Transplantation

January 1998 – Present

Arkansas Pharmacist Association

January 1998 – Present

American Pharmaceutical Association

June 1997 – Present

American Society of Health-System Pharmacist

## HONORS/AWARDS

- October 2015  
National Community Pharmacist Association  
**Winner** of the National Good Neighbor Pharmacy NCPA  
Pruitt-Schutte Student Business Plan Competition  
Co-Advisor  
NCPA National Meeting National Harbor, Maryland
- July 2015  
National Community Pharmacist Association  
**Top 3** of the National Pruitt-Schutte Student Business Plan  
Competition  
Co-Advisor  
AACP Annual Meeting National Harbor, Maryland
- July 2015  
American Society of Transplantation  
**Winner** of the National Organ Donation Awareness  
Challenge  
Presented at the World Transplant Congress 2015  
Philadelphia, Pennsylvania
- February 2015  
National Association of Community Pharmacists  
**Top 10** of the National Pruitt-Schutte Student Business Plan  
Competition  
Co-Advisor  
AACP Interim Meeting 2015 Austin, Texas
- July 2014  
American Society of Transplantation  
**Winner** of the National Organ Donation Awareness  
Challenge  
Presented at the World Transplant Congress 2014  
San Francisco, California
- May 2013  
American Society of Transplantation  
**Winner** of the National Organ Donation Awareness  
Challenge  
Presented at the American Transplant Congress 2013  
Seattle, Washington
- May 2012  
Pharmacy Practice Outstanding Faculty of the Year Award  
(voted on by the fourth year pharmacy students)
- March 2012  
Finalist: Jonathan and Donna Wolf Outstanding Faculty  
Award  
Voted on by UAMS College of Pharmacy Faculty  
*Runner up*

March 2012	American Pharmacist Association & Pharmacy Today One-to-One Patient Counseling Recognition Award Honorable Mention, 2012 APhA Annual Meeting, New Orleans, Louisiana
September 2011	<u>Awarded 1st Place in Poster Competition</u> 5 month Observational Control Trial of Generic versus Brand Name Tacrolimus in UAMS Solid Organ Transplant Recipients <i>2011 AAHP Annual Meeting and Seminars, Little Rock, AR</i>
March 2011	Finalist: Jonathan and Donna Wolf Outstanding Faculty Award Voted on by UAMS College of Pharmacy Faculty <i>Runner up</i>
May 1997	Patient Counseling Competition: Honorable Mention Awarded during Convocation by the UAMS College of Pharmacy Department of Pharmacy Practice

## **LICENSURE AND CERTIFICATIONS**

October 2009 -- Present	HIPAA Required Privacy & Security Training
September 2009 -- Present	Collaborative Institutional Training Initiative (CITI) Biomedical Research, Basic Course
September 2009 -- Present	Collaborative Institutional Training Initiative (CITI) Students conducting no more than minimal risk research, Basic Course
January 2009 – Present	Pharmacist Disease State Management Certification Arkansas State Board of Pharmacy
September 2002	Building Bridges Employee Management Seminar
July 2002 – Present	American Heart Association Basic Life Support (CPR & AED)
May 1997	Doctor of Pharmacy University of Arkansas for Medical Sciences College of Pharmacy