

# Laura Tsu, Pharm.D., BCPS, BCGP

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## EDUCATION AND TRAINING

- 2010 - 2011*                    **PGY2 Pharmacy Practice Residency, Cardiology**  
University of California, Davis  
Program Director: William Dager, Pharm.D., BCPS (AQ  
Cardiology)
- 2009 - 2010*                    **PGY1 Pharmacy Practice Residency**  
University of California, Davis  
Program Director: Patricia Parker, Pharm.D., BCPS
- 2005 - 2009*                    **University of California San Diego School of Pharmacy**  
University of California, San Diego  
Doctor of Pharmacy
- 2001 - 2005*                    **University of California, Irvine**  
Irvine, California  
B. S. Biological Sciences

## PROFESSIONAL EXPERIENCE

- 2019 - current*                    **Chapman University School of Pharmacy**  
Associate Professor, Pharmacy Practice Department
- 2015 - 2019*                    **Chapman University School of Pharmacy**  
Assistant Professor, Pharmacy Practice Department
- Hoag Medical Center**  
Clinical Pharmacist, Cardiology
- 2011 - 2015*                    **Midwestern College of Pharmacy - Glendale**  
Assistant Professor, Pharmacy Practice Department
- Banner Boswell Medical Center**  
Clinical Pharmacist, Cardiology and Cardiovascular Surgery
- Cardiac Solutions Outpatient Clinic**  
Clinical Pharmacist, Cardiology

## **CERTIFICATIONS AND LICENSES**

- 2013 – current*      **Board Certified Geriatric Pharmacist (BCGP)**  
Commission for Certification in Geriatric Pharmacy
- 2011 – 2015*      **Registered Pharmacist License Number S018729**  
Arizona Board of Pharmacy  
Inactive, in good standing
- 2010 - current*      **Board Certified Pharmacotherapy Specialist (BCPS)**  
Board of Pharmacy Specialties
- 2009 - current*      **Registered Pharmacist License Number 62896**  
California Board of Pharmacy
- 2009 - current*      **Advanced Cardiovascular Life Support (ACLS)  
Provider**  
American Heart Association

## **GRANTS**

- 2017      Awarded \$2269 from Chapman University for Evaluation of Online Learning and Patient Simulation of Medical Emergencies on Interprofessional Collaboration of Pharmacy and Physician Assistant Studies. Principal Investigators: Laura Tsu and Kimberly Won
- 2017      Awarded \$765 from Chapman University for Impact of Pharmacist Follow-up Phone calls in Cardiology Patients Recently Discharged from the Hospital. Principal Investigators: Laura Tsu and Laressa Bethishou.
- 2014      Awarded \$10,000 from Midwestern University College of Pharmacy – Glendale for Pharmacist Impact on Medication Adherence in Transition of Care Geriatric Cardiology Population. Principal Investigator: Laura Tsu. Co-Investigator: Nicole Murdock
- 2014      Awarded \$10,000 from Midwestern University College of Pharmacy – Glendale for Pharmacy-Led Multidisciplinary Team versus Pharmacist Only Smoking Cessation Intervention in a Homeless Population: Principal investigators: Laura Tsu and Kelsey Buckley. Co-investigators: Rebekah McKinley and Nicole Kitts

## **PUBLICATIONS**

### Peer reviewed manuscripts

1. Lewis J, Gregorian T, Huntsberry AM, **Tsu LV\***. A Review of Clinical Guidelines and Pharmacotherapeutic Management of Hypertension in Older Adults. *Sr Care Pharm.* 2019;34(2):86-98.
2. **Tsu LV\***, Buckley K, Early N, Jackoski R. Evaluation of multidisciplinary and pharmacy-only student-run clinics on student's perceptions of interprofessional roles. *Curr Pharm Teach Learn.* 2018;10(6):785-94
3. Bethishou L, Gregorian T, Won K, Lopez K, **Tsu LV\***. Management of venous thromboembolism in the elderly: A review of the non-vitamin K oral anticoagulants. *Consult Pharm.* 2018;33(5):248-61.
4. **Tsu LV\***, Berry AJ, Krunic N, Penny S, Le S. A Clinical Review of Surgical vs Transcatheter Aortic Valve Replacement in Geriatric Patients. *Consult Pharm.* 2017;32(4):202-214
5. Buckley K, **Tsu LV\***, La Spisa S, Giang K, Bills A, Early N, Jackowski R. A health sciences student-run smoking cessation clinic experience within a homeless population. *J Am Pharm Assoc.* 2017;57:109-115
6. **Tsu LV\***, Buckley K, Nguyen S, Kohn J. Evaluating the impact of pharmacist health education on the perceptions of the pharmacist's role among women living in a homeless shelter. *Pharm Pract.* 2015;13:649.
7. **Tsu LV\***, Berry A, Wald E, Ehrlich C. Modified HAS-BLED Score and Risk of Major Bleeding in Patients Receiving Dabigatran and Rivaroxaban: A Retrospective, Case-Control Study. *Consult Pharm.* 2015;30:395-402.
8. Dager WE, **Tsu LV**, Pon TK. Considerations for Systemic Anticoagulation in ESRD. *Semin Dial.* 2015;28:354-62
9. Carroll KA, Early NK, **Tsu LV\***. Managing acute coronary syndromes in the elderly. *Consult Pharm.* 2015;30:265-82.
10. Ehrlich C, **Tsu LV\***. Updates in antiarrhythmic therapy for atrial fibrillation in geriatric patients. *Consult Pharm.* 2015;30:82-91.
11. **Tsu LV\***, Lee S. Use of Ranolazine in the Prevention and Treatment of Postoperative Atrial Fibrillation in Patients Undergoing Cardiac Surgery. *Ann Pharmacother.* 2014;48:633-7

12. Kitts NK, Reeve AR, **Tsu L\***. Care Transitions in Elderly Heart Failure Patients: Current Practices and the Pharmacist's Role. *Consult Pharm*. 2014;29:179-90
13. **Tsu LV\***, Dager WE. Safety of New Oral Anticoagulants with Dual Antiplatelet Therapy in Patients with Acute Coronary Syndromes. *Ann Pharmacother*. 2013; 47: 573-7
14. **Tsu LV**, Dienes JE, Dager WE. Vitamin K dosing to reverse warfarin based on INR, route of administration, and home warfarin dose in the acute/critical care setting. *Ann Pharmacother*. 2012;46:1617-26.
15. **Tsu LV**, Dager WE. Comparison of bivalirudin dosing strategies using total, adjusted, and ideal body weights in obese patients with heparin-induced thrombocytopenia. *Pharmacotherapy* 2012;32:20-6
16. **Tsu LV**, Dager WE. Bivalirudin dosing adjustments for reduced renal function with or without hemodialysis in the management of heparin-induced thrombocytopenia. *Ann Pharmacother*. 2011;45:1185-92.
17. Nagle EL, **Tsu LV**, Dager WE. Bivalirudin for anticoagulation during hypothermic cardiopulmonary bypass and recombinant factor VIIa for iatrogenic coagulopathy. *Ann Pharmacother* 2011;45:e47
18. Schleuter M, James C, Dominguez A, **Tsu L**, and G Seymann. Practice Patterns for Antibiotic de-escalation in Culture-Negative Healthcare-Associated Pneumonia. *Infection* 2010;38:357-362
19. Choi B, **Tsu L**, Chen E, Ishak TS, Iskandar SM, Chess S, Nelson JS. Determination of chemical agent optical clearing potential using in vitro human skin. *Lasers Surg Med* 2005;36:72-5

\* Indicates corresponding author

### Book Chapters

1. Tsu LV (2015). Cardiovascular conditions. In *Pharmacology for Women's Health* (pp. 379 – 454). Burlington, MA: Jones and Bartlett.

### Other publications

1. Gregorian T, Lewis J, Tsu LV. Opioid-induced constipation: clinical guidance and approved therapies. *US Pharmacist*. 2017; 42(12): 15-19
2. Dea L, Tran J, Tsu LV, Gutierrez M. Management of bipolar disorder. *US Pharmacist*. 2016;41(11):34-37.

3. Leong SY, Afolabi TM, Tsu LV. The management of antenatal hydronephrosis. *US Pharmacist* 2016; 41: HS2-6.
4. Tsu LV, Liu K. Managing Hyperlipidemia in Adults with Chronic Kidney Disease. *US Pharmacist*, 2015.
5. Jen C, Saadeh D, LaSpisa S, Nguyen T, Tsu LV. Prevention and Treatment of Pertussis in Adults. *US Pharmacist*. 2015;40:50-53
6. Harmon A, Smith B, Tsu LV. A Pharmacist's Role in the Prevention and Management of Perioperative Atrial Fibrillation and Flutter. *Arizona Journal of Pharmacy* 2015; 32-39
7. Forbes A, Grimes K, York J, Tsu LV. Comparing the 2013 ACC/AHA & 2014 NLA Dyslipidemia Guidelines and their Impact on Clinical Decision Making. *Arizona Journal of Pharmacy* 2015; 24-30
8. Nguyen S, Nguyen M, Tsu LV. Drug-induced Cardiotoxicity of Oncological Agents: Monitoring Parameters, Prevention, and Future Chemotherapy. *Arizona Journal of Pharmacy* 2015; 30-34
9. Kho R, Kim S, Lee S, Tsu LV. A Review of Common Drug-drug and Food-drug Interactions Associated with Cardiovascular Medications. *Arizona Journal of Pharmacy* 2014; 36-43
10. Stratton S, Yam L, Gohil K, Remigio A, Tsu L. Acute Management of Patients with Chronic Kidney Disease. *US Pharmacist* 2014; 39:56-60
11. Kucera A, Smith B, Tsu LV. Anemia and the Role of the Pharmacist. *Arizona Journal of Pharmacy* 2014; 31-35
12. Le H, Nguyen N, Pham T, Tsu LV. Bipolar disorder: A Pharmacotherapy Management Overview. *Arizona Journal of Pharmacy* 2014; 36-41
13. Loo V, Tsu LV. What evidence is available on aldosterone antagonists for use in heart failure with preserved ejection fraction? *Arizona Journal of Pharmacy* 2013; 28-30
14. Tsu LV. Antiarrhythmic Therapy for Atrial Fibrillation. *US Pharmacist* 2013;38:20-23.
15. Aphaisuwan H, Lala I, Tsu LV. Variceal bleeding from cirrhosis: a clinical review of causes and pharmacotherapy options. *Arizona Journal of Pharmacy* 2013; 38-42
16. Lau B, Lee M, Tran T, Tsu LV. Acute coronary syndromes: current treatment guidelines and updates. *Arizona Journal of Pharmacy* 2013; 40-49

17. Tsu LV. Depression in Cardiac Patients: Underrecognized and Undertreated. US Pharmacist 2012;11:20-2.
18. McKenzie R, Park A, Tsu LV. Anti-platelet therapy in acute coronary syndromes: Updates in therapy after stent implantation. Arizona Journal of Pharmacy 2012;33-40
19. Dang J, Tsu LV. What evidence is available on apixaban for the primary prevention of stroke in patients with atrial fibrillation? Arizona Journal of Pharmacy 2012; 4:30-1

### **HONORS AND AWARDS**

- |             |  |
|-------------|--|
| <i>2014</i> | <b>Excellence in Innovation Award</b><br>Arizona Pharmacy Association                        |
| <i>2014</i> | <b>Faculty Preceptor of the Year</b><br>Midwestern University College of Pharmacy – Glendale |

### **TEACHING EXPERIENCE**

#### **Chapman University**

- |                       |   |
|-----------------------|---|
| <i>2017 – current</i> | <b>PHRM 764 – Medical Emergencies Elective</b><br>1.0 unit course<br>Role: Course Coordinator, Instructor<br>Chapman University School of Pharmacy          |
| <i>2016 – current</i> | <b>PHRM 537 – Cardiology</b><br>5.0 unit course<br>Role: Course Coordinator, Instructor<br>Chapman University School of Pharmacy                            |
| <i>2017</i>           | <b>PHRM 549 – Pulmonology</b><br>2.0 unit course<br>Role: Course Coordinator, Instructor<br>Chapman University School of Pharmacy                           |
| <i>2016</i>           | <b>PHRM 540 – Renal, Fluid, Electrolytes, Nutrition</b><br>3.0 unit course<br>Role: Course Coordinator, Instructor<br>Chapman University School of Pharmacy |

**Midwestern University**

- 2012 - 2015                    **PPRA 1428 – Acute Care Cardiology Elective**  
Role: Course Coordinator, Instructor  
Midwestern College of Pharmacy - Glendale
- 2012 - 2015                    **PHID 1604 & 1605 – Integrated Sequence 4 & 5**  
Role: Course Coordinator, Instructor  
Midwestern College of Pharmacy - Glendale
- 2012 - 2015                    **PPRA 1701 – Acute Care Management**  
Role: Instructor  
Midwestern College of Pharmacy - Glendale
- 2012 - 2015                    **PHID 1501 – Integrated Sequence 1**  
Role: Instructor  
Midwestern College of Pharmacy - Glendale

**Experiential Teaching**

Pharmacy Students

- 2017 – current                **Preceptor – Acute Care Internal Medicine**  
Chapman University School of Pharmacy  
12 Advanced Pharmacy Practice Experience students/year  
6-week required rotation
- 2012 – 2015                    **Preceptor – Acute Care Cardiology**  
Midwestern University College of Pharmacy - Glendale  
12 Advanced Pharmacy Practice Experience students/year  
6-week required rotation

Pharmacy Residents

- 2013 – 2015                    **Preceptor – Acute Care Cardiology**  
2 PGY1 residents/year  
6-week elective rotation
- 2013 – 2015                    **Preceptor – Academia**  
2 PGY1 residents/year  
4-week elective rotation
- 2012 – 2015                    **Preceptor – PGY2 Geriatric Cardiology**  
2 PGY2 geriatric residents/year  
6-week elective rotation

**PROFESSIONAL AND CLINICAL PRESENTATIONS**

National

- May 2018*                    **Finding the Gray in the New Hypertension Guidelines**  
Laura Tsu, Karen McConnell, Shannon Finks  
American College of Clinical Pharmacy  
Collaborative Webinar from Cardiology and Geriatric Practice  
and Research Networks
- Oct 2015*                    **Post-op Medication Management for Cardiovascular  
Procedures in High-Risk Geriatric Patients**  
Laura Tsu, Andrew Berry  
American Society of Consultant Pharmacists Annual Meeting  
Las Vegas, NV
- Nov 2014*                    **Direct-Acting Oral Anticoagulants and Guideline  
Updates in Older Adults with Atrial Fibrillation**  
Laura Tsu, Joel Marrs  
American Society of Consultant Pharmacists Annual Meeting  
Orlando, FL
- Nov 2014*                    **Outpatient Treatment of Geriatric Post-Acute  
Coronary Syndrome Patients**  
Laura Tsu, Nicole Kitts, Kacey Carroll  
American Society of Consultant Pharmacists Annual Meeting  
Orlando, FL
- Regional
- Oct 2018*                    **Fixing a Broken Heart: Preserved Ejection Fraction  
and Acute Heart Failure**  
Laura Tsu, Laressa Bethishou  
California Society of Health-Systems Pharmacists Meeting  
San Diego, CA
- Oct 2017*                    **Follow the Clot: A Case-Based Review of Inpatient and  
Outpatient Venous Thromboembolism**  
California Society of Health-Systems Pharmacists Meeting  
Las Vegas, NV
- June 2015*                    **Pharmacist's Management of Anticoagulation – A Case-  
Based Review**  
Laura Tsu, Christi Jen  
Arizona Pharmacist Association Annual Meeting  
Tucson, AZ



Laura V Tsu  
Curriculum vitae  
Mar 2014

**Transition of Care Research Collaborations**

Laura Tsu, Nicole Murdock  
Dean's Advisory Council  
Glendale, AZ

June 2013

**Journal Club – FREEDOM trial**

Arizona Pharmacist Association Annual Meeting  
Tucson, AZ

Apr 2012

**Tick Tock, Rhythm and Clots: Updates in Anticoagulation for Atrial Fibrillation**

Laura Tsu, Lindsay Davis  
Arizona Pharmacist Association Health-Systems Academy  
Spring Conference  
Phoenix, AZ

**NATIONAL POSTER PRESENTATIONS**

Oct 2017

**Tsu L**, Murdock N. Implementation of a cardiovascular transition of care clinic.  
American College of Clinical Pharmacy Annual Meeting  
Phoenix, AZ

May 2015

Bills A, Giang K, La Spisa S, Buckley K, **Tsu L**, Early N, McKinley R. Impact of a pharmacist-only clinic versus a pharmacist-led multidisciplinary clinic on tobacco cessation rates in a homeless population.  
American College of Clinical Pharmacy Annual Meeting  
San Francisco, CA

Oct 2014

**Tsu L**, Buckley K, Nguyen S, Kohn J. Implementation and evaluation of the pharmacist's role in providing women's health education to the underserved community.  
American College of Clinical Pharmacy Annual Meeting  
Austin, TX

May 2014 & Dec 2014

**Tsu L**, Remigio A, Gohil K, Murdock N, Gurney M. Evaluation of a motivational interviewing series on student's confidence level during experiential rotations.  
American College of Clinical Pharmacy Virtual Symposium and Annual Meeting  
Austin, TX

Dec 2013 & Dec 2014

Ehrlich C, **Tsu L**, Berry A, Wald E. Determination of risk factors for hospitalization for major bleeding in patients taking new oral anticoagulants.

- American Society of Health-Systems Pharmacists Midyear Meeting  
Orlando, FL
- Oct 2013      Smith A, Benavides S, **Tsu L**, Yunker N. American College of Clinical Pharmacy Student Chapters Survey 2013 Update. *ACCP Annual Meeting, Albuquerque, NM*
- Oct 2011      **Tsu L**, Dager W. Optimizing the Route and Dosage of Vitamin K (Phytonadione) for Reversal of Warfarin. American College of Clinical Pharmacy Annual Meeting Pittsburgh, PA
- May 2011      **Tsu L**, Dager W. Dosing Requirements of Bivalirudin in Renal Dysfunction. Anticoagulation Forum Boston, MA
- May 2011      **Tsu L**, Dager W. Dosing Requirements of Bivalirudin in Obesity. Anticoagulation Forum Boston, MA
- Dec 2009      **Tsu L**, Dager W. Evaluation of Heparin-Induced Thrombocytopenia Management in Patients Receiving Direct Thrombin Inhibitors. University Healthsystem Consortium meeting Las Vegas, NV

## **COMMITTEE SERVICE**

### **National**

- 2014 – 2016      **Secretary/Treasurer**  
American College of Clinical Pharmacy Education and Training Practice and Research Network
- 2013 – 2014      **Student Support Committee Chair**  
Chair (2013 – 2014)  
American College of Clinical Pharmacy Education and Training Practice and Research Network
- 2012 – 2013      **Student Support Committee Vice-Chair**  
American College of Clinical Pharmacy Education and Training Practice and Research Network

*Laura V Tsu*  
*Curriculum vitae*  
*2011 - 2012*

**Student Support Committee Member**  
**Programming Committee Member**  
American College of Clinical Pharmacy Education and Training  
Practice and Research Network

*2011 – 2013*

**Hospitality Committee Member**  
American College of Clinical Pharmacy Cardiology Practice and  
Research Network

Regional

*2012 – 2015*

**Continuing Education Committee Member**  
Arizona Pharmacy Association

University

*2017 – 2018*

**Faculty Search Committee Chair**  
Acute and Ambulatory Care (2 positions)  
Chapman University School of Pharmacy

*2017 – 2018*

**Accreditation Council for Pharmacy Education  
Steering Committee Co-chair**  
Chapman University School of Pharmacy

*2016 – 2018*

**Experiential Education Oversight Committee**  
Chair (2017 – current)  
Member (2016 – 2017)  
Chapman University School of Pharmacy

*2016 – current*

**Chapman Teaching and Learning Task Force Member**  
Chapman University School of Pharmacy

*2015 – 2016*

**Assessment Committee Member**  
Chapman University School of Pharmacy

*2015 – 2016*

**Exam Review Committee Chair**  
Chapman University School of Pharmacy

*2015 – 2017*

**Faculty Search Committee**  
Member (2016 – 2017)  
Acute care lead (2015 – 2016)  
Chapman University School of Pharmacy

*Laura V Tsu*  
*Curriculum vitae*  
*2015 – 2016*

**Objective Structured Clinical Examination Committee Member**

Chapman University School of Pharmacy

*2012 – 2015*

**Resident Advisory Committee Member**

PGY2 Geriatrics and Academia program  
Midwestern University and Banner Boswell Medical Center

*2012 – 2015*

**Resident Advisory Committee**

Banner Boswell Medical Center PGY1 program

*2011 – 2015*

**Post-Graduate Education Committee**

Chair (2013 – 2014)  
Member (2011 – current)  
Midwestern College of Pharmacy Glendale

*2010 – 2011*

**Thrombosis Subcommittee**

UC Davis Medical Center

**PROFESSIONAL AND COMMUNITY SERVICE**

*2015 – current*

**Faculty Advisor**

8 pharmacy students/year  
Chapman University School of Pharmacy

*2016 – current*

**California Society of Health-System Pharmacists /  
American Society of Health-System Pharmacists  
Student Chapter Co-Advisor**

Chapman University School of Pharmacy

*2013 – 2014*

**Clinician Educator's Program**

Mentor resident – quarterly meetings  
Midwestern University College of Pharmacy - Glendale

*2012 – 2015*

**Mentor Connection Program**

Mentor 2 pharmacy students – monthly meetings  
Arizona Pharmacy Association

*2012 - 2013*

**Stroke Check**

Banner Boswell Medical Center  
Yearly screening for geriatric community patients

*2011 – 2015*

**Faculty Advisor**

20 – 24 pharmacy students/year  
Midwestern University College of Pharmacy - Glendale

*Laura V Tsu*  
*Curriculum vitae*  
*2011 – current*

**Manuscript Reviewer**

Pharmacotherapy  
Annals of Pharmacotherapy  
American Journal of Health-Systems Pharmacy (AJHP)  
American Journal of Pharmaceutical Education (AJPE)  
US Pharmacist

*2011 – 2015*

**Resident/Fellow Travel Award Reviewer**

American College of Clinical Pharmacy

*2011 – 2015*

**Health Outreach through Medical Education  
(H.O.M.E.)**

Faculty advisor (2013 – 2015)  
Preceptor (2011 – 2015)  
Midwestern College of Pharmacy – Glendale  
Interdisciplinary monthly sessions at homeless clinic

*2011 – 2013*

**Taking Care of Your Heart**

Banner Boswell Medical Center  
Interdisciplinary monthly heart failure support group

*2011 – 2013*

**Diabetes Expo**

Midwestern College of Pharmacy – Glendale  
Quarterly community service educational event

**PROFESSIONAL DEVELOPMENT**

*Oct 2011 – Oct 2013*

**Teaching and Learning Academy**

American College of Clinical Pharmacy Academy

*Aug 2011 – Mar 2012*

**Teaching and Learning Seminar Series**

Midwestern University

**PROFESSIONAL MEMBERSHIP**

*2016 – current*

**California Society of Health-System Pharmacists  
(CSHP)**

*2012 – current*

**American Society of Consultant Pharmacists (ASCP)**

*2011 – current*

**American Association Colleges of Pharmacy (AACP)**

*2007 – current*

**American College of Clinical Pharmacy (ACCP)**

*2005 – current*

**American Society of Health-System Pharmacists  
(ASHP)**