

**SHERI M. TOKUMARU, PHARM.D., BCCCP**

Current Address and Phone Number:

Department of Pharmacy Practice  
The Daniel K. Inouye College of Pharmacy  
University of Hawaii at Hilo

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**BOARD CERTIFICATION**

Board Certified Critical Care Specialist 2018-present

**EDUCATION AND TRAINING**

Critical Care Specialty Residency  
University of Kentucky Chandler Medical Center  
Lexington, Kentucky

Pharmacy Practice Residency  
University of California, San Francisco  
San Francisco, California

Doctor of Pharmacy  
University of Michigan, College of Pharmacy  
Ann Arbor, Michigan

Pre-Pharmacy  
University of Michigan, Literature, Science, and Arts  
Ann Arbor, Michigan

**PHARMACY WORK EXPERIENCE**

Director of Interprofessional Education and Development February 2018-present  
Daniel K. Inouye College of Pharmacy  
Honolulu, Hawaii

- Develop quality interprofessional education (IPE) with appropriate pharmacy roles
- Responsible for implementation of quality IPE across the pharmacy curriculum

Residency Program Director – PGY2 Critical Care June 2012-Present  
The Queen’s Medical Center/University of Hawaii at Hilo The Daniel K. Inouye College of Pharmacy  
Honolulu, Hawaii

- Program director for the post-graduate year two critical care pharmacy residency
- Develop program with first resident starting in October 2012, program is currently candidate status

Associate Professor/Clinical Pharmacist June 2015-present  
Assistant Professor/Clinical Pharmacist March 2010-June 2015  
Neurosciences Intensive Care Unit  
The Queen’s Medical Center/University of Hawaii at Hilo The Daniel K. Inouye College of Pharmacy  
Honolulu, Hawaii

- Clinical pharmacist in the neurosciences intensive care unit ensuring appropriate pharmacotherapy to this specific patient population.
- University faculty member at the Queen's Medical Center providing support and mentorship to the preceptors.
- Teach and supervise post-second year pharmacy students (PHPP 505) and fourth year pharmacy students (PHPP 542/544/545) in the neurosciences intensive care unit at the Queen's Medical Center as well as students on Oahu on acute care medicine and elective rotations.

Clinical Assistant Professor/Clinical Pharmacist August 2005-December 2009  
Medical Intensive Care Unit  
University of Illinois at Chicago  
Chicago, Illinois

- Essential part of the medical intensive care unit team ensuring appropriate pharmacotherapy to critically ill patients.
- Lead medication therapy related topic discussions with the health care team as well as provided drug information.
- Taught and supervised pharmacy residents and fourth year pharmacy students in the medical intensive care unit.
- Code team responsibilities.

Clinical Assistant Professor/Clinical Pharmacist August 2004-July 2005  
University of Illinois at Chicago  
Chicago, Illinois

- Clinical pharmacist primarily in the neurosurgery intensive care and step down unit with dedicated months practicing in the coronary intensive care and step down unit and in the medicine intensive care unit.
- Integral part of medical care team recommending and ordering medication therapy and providing drug information to the health care team.
- Taught and supervised fourth year pharmacy students and pharmacy residents on clinical rotations.
- Provided discharge counseling and medication education to patients leaving the hospital.
- Code team responsibilities.

Critical Care Clinical Pharmacist May 2003-May 2004  
University of California San Diego  
San Diego, California

- Clinical pharmacist in adult patient care areas including the surgical, medical, burn and cardiac intensive care units ensuring appropriate medication therapy.
- Provided drug information to health care professionals and pharmacokinetic dosing services for drugs monitored by serum levels.
- Medication order entry and code blue responsibilities.

Critical Care Clinical Pharmacist August 2001-March 2003  
Cedars-Sinai Medical Center  
Los Angeles, California

- Clinical pharmacist in medical, respiratory, cardiac, cardiothoracic, and surgical intensive care unit ensuring appropriate medication therapy and use.
- Performed clinical functions including provision of drug information to health care professionals and patients, aminoglycoside and vancomycin dosing and monitoring, heparin and warfarin dosing and monitoring, participation in daily rounds and code blue team.
- Coordinated critical care learning group, consisting of all critical care pharmacists and clinical coordinator to discuss new or existing issues in critical care therapy.
- Medication order entry in Hartmeds computer system with experience with Cedars-Sinai Medical Center physician order entry system.

Critical Care Resident/Clinical Staff Pharmacist      July 2000-June 2001  
University of Kentucky Chandler Medical Center  
Lexington, Kentucky

- Medication order entry on Pharmakon computer system for oral and parenteral dosage forms in central inpatient pharmacy and critical care zone.
- Pharmacist in intravenous admixture area verifying all routine and STAT intravenous dosage forms.
- Provided drug information to physicians, nurses and patients.

24 Hour On-Call and Code 500 Program      August 2000-June 2001  
University of Kentucky Chandler Medical Center  
Lexington, Kentucky

- 24 hour in-house on-call pharmacy program to provide drug information to physicians and nurses.
- Responded to toxic drug levels in medical center after 5 pm and on weekends.
- Pharmacy member of code 500 team that provided medication recommendations and dispensed medications from code cart.

Pharmacy Practice Resident/Clinical Staff Pharmacist      July 1999-June 2000  
University of California San Francisco Medical Center  
San Francisco, California

- Medication order entry on DigiMedics and DigiWorx computer system in inpatient central unit dose area pharmacy.
- Checked medications and cart-fills to be delivered to the floor.
- Provided drug information to physicians, nurses and patients.

Code Blue Team      August 1999-June 2000  
University of California San Francisco Medical Center  
San Francisco, California

- Pharmacy member of code blue team covering the University of California San Francisco campus including clinics for one week intervals.
- Provided drug information while dispensing medications from the code pack or crash cart.
- Recorded sequence of events during code.

Pharmacy Intern  
McAuley Pharmacy  
Plymouth, Michigan

- Used computer system to profile patient prescriptions and bill insurance companies.
- Counseled patients on prescription and OTC medications.
- Received physician and nurse phone calls regarding drug information and phone-in prescriptions. Also involved in pharmacy prescription transfers.

Pharmacy Intern  
Queen's Medical Center  
Honolulu, Hawaii

- Worked independently in various areas of hospital pharmacy including inpatient dispensing, unit dosage re-packaging, floor stock, and bin delivery.
- Used numerous hospital computer programs to review dispensing histories and patient profiles, run fill lists, and charge and credit patient accounts.
- Interacted with physicians and nurses regarding drug information and medication requests.

## **APPOINTMENTS**

- Executive Committee February 2019 - Present  
Daniel K. Inouye College of Pharmacy  
Hilo, Hawaii
- Hawaii Pharmacists Association Board of Directors April 2016-March 2018  
Director - Alternate Health Systems April 2014-March 2016  
Honolulu, Hawaii September 2013-March 2014
- Hawaii Inter-Professional Education Workgroup (HIPE) May 2019 – Present
- Inter-professional workgroup consisting of Daniel K. Inouye College of Pharmacy, John A. Burns School of Medicine, University of Hawaii at Manoa School of Nursing and Dental Hygiene, University of Hawaii Myron B. Thompson School of Social Work
  - Develop curriculum across all HIPE disciplines with faculty from all HIPE programs

## **TEACHING EXPERIENCE**

- Integrated Therapeutics II (PHPP 516) Spring 2016, 2017, 2018, 2019  
University of Hawaii at Hilo The Daniel K. Inouye College of Pharmacy
- Didactic lectures with assessment on central nervous system infections and sepsis for second year pharmacy student's integrated therapeutics course (7 hours).
- Pharmacokinetics (PHPS 511) Fall 2015, 2016, 2017, 2018  
University of Hawaii at Hilo The Daniel K. Inouye College of Pharmacy
- Co-course coordinator
- Integrated Therapeutics IV (PHPP 518) Spring 2014  
University of Hawaii at Hilo The Daniel K. Inouye College of Pharmacy
- Co-course coordinator
- Integrated Therapeutics IV (PHPP 518) Spring 2014, 2015, 2016, 2017, 2018  
University of Hawaii at Hilo The Daniel K. Inouye College of Pharmacy
- Didactic lectures with assessment on seizures and critical care for third year pharmacy student's integrated therapeutics course (4.5 hours).
  - Workshop on seizures (3 hours)
- Integrated Therapeutics II (PHPP 516) Spring 2014, 2015  
University of Hawaii at Hilo The Daniel K. Inouye College of Pharmacy
- Didactic lectures with assessment on pneumonia, central nervous system infections and sepsis for second year pharmacy student's integrated therapeutics course (7 hours).
  - Workshop on pneumonia (3 hours)
- NAPLEX Review Spring 2013, 2014, 2015  
University of Hawaii at Hilo The Daniel K. Inouye College of Pharmacy
- Developed and delivered 1.5 hours of North American Pharmacist Licensure Examination (NAPLEX) review material covering acute coronary syndrome, angina, stroke.
- Integrated Pharmacotherapy I (PHPS 601) Spring 2013  
University of Hawaii at Hilo The Daniel K. Inouye College of Pharmacy  
Masters.in Clinical Psychopharmacology Program
- Didactic lectures on ischemic heart disease and angina pectoris
- Integrated Therapeutics IV (PHPP 518) Spring 2012, 2013, 2014  
University of Hawaii at Hilo The Daniel K. Inouye College of Pharmacy
- Didactic lectures with assessment on critical care (2 hours)

- Pharmacokinetics (PHPS 511) Fall 2012 - present  
University of Hawaii at Hilo College of Pharmacy
- Didactic lectures, workshops, homework sets and assessment for phenytoin (3 hours)
  - Didactic lectures, workshops, homework sets and assessment for high-dose extended interval aminoglycosides (3 hours)
  - Review session (3 hours)
- Simulation Workshop Spring 2012  
University of Hawaii at Hilo College of Pharmacy
- Designed and ran our first simulation workshop on ischemic heart disease
  - Students made patient assessments on the patient simulator, designed patient care plans and determined how to monitor the patient for the medication intervention. The students then returned to the patient simulator to reassess the patient after the intervention was made.
- Integrated Therapeutics I (PHPP 515) Fall 2010 – present  
University of Hawaii at Hilo College of Pharmacy
- Didactic lectures with assessment on stroke, ischemic heart disease and angina pectoris for second year pharmacy student's integrated therapeutics course.
  - Workshop on ischemic heart disease
- Integrated Therapeutics I (PHPP 515) Fall 2011  
University of Hawaii at Hilo College of Pharmacy
- Co-course coordinator
- Integrated Therapeutics II (PHPP 516) Spring 2011, 2012, 2013  
University of Hawaii at Hilo College of Pharmacy
- Didactic lectures with assessment on drug induced pulmonary diseases, pulmonary hypertension, pneumonia, central nervous system infections, sepsis and upper respiratory tract infections for second year pharmacy student's integrated therapeutics course.
  - Workshop on pneumonia
- Integrated Therapeutics III (PHPP 517) Fall 2010  
University of Hawaii at Hilo College of Pharmacy
- Didactic lectures with assessment on pneumonia and central nervous system infections for third year pharmacy student's integrated therapeutics course.
- Integrated Therapeutics IV (PHPP 518) Spring 2010, 2011  
University of Hawaii at Hilo College of Pharmacy
- Didactic lectures with assessment on upper respiratory tract infections, sepsis and critical care for third year pharmacy student's integrated therapeutics course.
- Assessment of the Critically Ill Patient (PHAR 354) February 2009, March 2008  
University of Illinois at Chicago College of Pharmacy
- Annual didactic lecture with recitation and case for third year pharmacy student's experiential course.
- Vancomycin and Extended Interval Aminoglycoside Dosing (PMPR 440) January 2009, February 2008  
University of Illinois at Chicago College of Pharmacy
- Annual didactic lecture and recitation for pharmacokinetic elective for third year pharmacy students with responsibilities of exam writing and evaluation.
- Continuous Renal Replacement Therapy: Pharmacists' Prospective (PMPR 430) January 2009, February 2008  
University of Illinois at Chicago College of Pharmacy
- Annual didactic lecture for critical care elective for third year pharmacy students with responsibilities of exam writing and evaluation.
- Coordinator Applied Pharmacokinetic Elective for Third Year Pharmacy Students (PMPR 440) December 2007-December 2009  
University of Illinois at Chicago College of Pharmacy
- Coordinate pharmacokinetic elective for third year pharmacy students.

- Management of Severe Sepsis and Septic Shock (PHAR 403, PHAR 406)  
University of Illinois at Chicago College of Pharmacy October 2007-present
- Annual didactic lecture with recitation and case for therapeutics for third year pharmacy students with responsibilities of exam writing and evaluation.
- Recitation Leader Neurology PDAT (PHAR 405) 2005, 2006, 2008  
University of Illinois at Chicago College of Pharmacy
- Weekly recitation leader evaluating students and leading discussions for the neurology PDAT section.
- Status Epilepticus April 25, 2005, September 15, 2004  
University of Illinois at Chicago College of Nursing
- Presentation on the treatment and management of patients in status epilepticus to nurses in critical care course.
- Acute Gastrointestinal Bleed February 2005-present  
University of Illinois at Chicago College of Pharmacy
- Annual didactic lecture for critical care elective for third year pharmacy students with responsibilities of exam writing and evaluation.
- Pulmonary Hypertension February 2005-2007  
University of Illinois at Chicago College of Pharmacy
- Annual didactic lecture for critical care elective for third year pharmacy students with responsibilities of exam writing and evaluation.
- Critical Care: Hemodynamics and Related Medications November 4, 2003  
University of California, San Diego Resident Conference Series
- Critical care hemodynamic principles for pharmacy practice residents prior to critical care rotations.
- Contemporary Aspects of Pharmacy Practice II (PHR-929) February-May 2001  
University of Kentucky College of Pharmacy
- Small group facilitator for patient case based discussion for first year pharmacy students.
- Advanced Clinical Pharmacology and Anesthesiology (MD-842) February 2001  
University of Kentucky College of Medicine
- Critical care clinical pharmacology discussion leader for ICU patient presentations by fourth year medical students.
- Critical Care and ACLS Lecture (PHR-959) November 27, 2000  
University of Kentucky College of Pharmacy
- Critical care medicine lecture based on ACLS guidelines with mock code for third year pharmacy students.
- Critical Care and ACLS Laboratory (PHR-959) November 28-29, 2000  
University of Kentucky College of Pharmacy
- Contemporary Aspects of Pharmacy Practice critical care laboratory with stations addressing different areas of ACLS guidelines and critical care situations.
- Clerkship Preceptor July 2000-February 2001  
University of Kentucky Chandler Medical Center
- Precepted, evaluated and designed student-specific rotation objectives for fourth year pharmacy students on cardiology, trauma/general surgery, neurosurgery and infectious diseases rotations.
- Clerkship Preceptor July 1999-June 2000  
University of California San Francisco Medical Center
- Precepted and evaluated fourth year pharmacy students on all clinical rotations.

- Rheumatoid Arthritis Therapeutics Lecture (CP-132) April 5, 2000  
University of California San Francisco
- Case based lecture on rheumatoid arthritis and therapy to third year pharmacy students.
  - Participated in exam writing.

- Clinical Pharmacy Therapeutics Course (CP-130) September 1999-December 1999  
University of California San Francisco  
Conference Leader
- Facilitated weekly conference sessions for third year pharmacy students.
  - Wrote and prepared patient cases for conference discussion
  - Wrote, graded and administered written and oral exams.

## **PROJECTS**

Piperacillin/tazobactam extended infusion in adults. University of Illinois at Chicago Medical Center. June 2008-February 2009.

Sepsis Guidelines. University of Illinois at Chicago Medical Center. October 2007-November 2008.

Empiric antimicrobial selection in adult patients. University of Illinois at Chicago Medical Center. April 2006-August 2007.

Care of inpatients with continuous subcutaneous insulin infusion pumps. University of Illinois at Chicago Medical Center. June 2005-December 2007.

Management of hyperglycemia in the hospital setting: Insulin infusion in the operating room. University of Illinois at Chicago Medical Center. June 2005-July 2007.

Management of hyperglycemia in the hospital setting: Guideline for intravenous insulin infusion in adult acutely ill patients. University of Illinois at Chicago Medical Center. June 2005-October 2009.

Screening and vaccination guidelines for in-patient pharmacist vaccination program. University of Illinois at Chicago Medical Center. January 2006-September 2006.

Prevention of contrast induced nephropathy clinical care guideline. University of Illinois at Chicago Medical Center. February 2005-June 2006.

Preceptor for medication use evaluation for recombinant factor VIIa use. University of Illinois at Chicago Medical Center. January 2005-January 2006.

## **RESEARCH**

Antiplatelet Therapy and Platelet Transfusions in Traumatic Intracranial Hemorrhage. The Queen's Medical Center/University of Hawaii at Hilo The Daniel K. Inouye College of Pharmacy, Honolulu, HI. 2018-present. Co-precepted Gay Ann Subia, Pharm.D.

Early Venous Thromboembolism Prophylaxis in Traumatic Brain Injury Patients. The Queen's Medical Center/University of Hawaii at Hilo The Daniel K. Inouye College of Pharmacy, Honolulu, HI. 2017-2018. Co-precepted Kristine Luong, Pharm.D.

Cost-effectiveness of Phenytoin and Levetiracetam for Seizure Prophylaxis in Traumatic Brain Injury. The Queen's Medical Center/University of Hawaii at Hilo The Daniel K. Inouye College of Pharmacy, Honolulu, HI. 2016-2018. Co-precepted Nicole Young, Pharm.D.

Comparison of the Efficacy of 4-Factor and 3-Factor Prothrombin Complex Concentrate for Reversing Warfarin in Patients with Intracranial Hemorrhage. The Queen's Medical Center/University of Hawaii at Hilo The Daniel K. Inouye College of Pharmacy, Honolulu, HI. 2015-2016. Co-precepted Lauren Peck, Pharm.D.

Pharmacist Impact of tPA Administration Time in Acute Ischemic Stroke. The Queen's Medical Center/University of Hawaii at Hilo The Daniel K. Inouye College of Pharmacy, Honolulu, HI. 2014-2015. Co-precepted Barry Nakaoka, Pharm.D.

Prevalence of Pentobarbital Associated Hypoxia in the Neuroscience Intensive Care Unit. The Queen's Medical Center/University of Hawaii at Hilo The Daniel K. Inouye College of Pharmacy, Honolulu, HI. 2013-2014. Co-precepted Michelle Zacchetti, Pharm.D.

Analysis of Warfarin Reversal in Patients with Intracranial Hemorrhage Using an Institutional Prothrombin Complex Concentrate Protocol. The Queen's Medical Center/University of Hawaii at Hilo The Daniel K. Inouye College of Pharmacy, Honolulu, HI. 2012-2014. Co-precepted Cherie Chu, Pharm.D.

Implementation and Evaluation of Extended Infusion Piperacillin-Tazobactam Guideline. University of Illinois at Chicago Medical Center, Chicago, IL. 2008-2011. Co-precepted Lynley Heinrich, Pharm.D.

Examination of the Incidence of Adrenal Insufficiency in Septic Patients after the Administration of Etomidate in an Academic Medical Center. University of Illinois at Chicago Medical Center, Chicago, IL. 2008-2009. Co-precepted Krysta Zack, Pharm.D.

Insulin Infusion in the Operating Room. University of Illinois at Chicago Medical Center, Chicago, IL. 2007-2008. Co-precepted Jerusha Taylor, Pharm.D.

Insulin Infusion in the Neuroscience Intensive Care Unit. University of Illinois at Chicago Medical Center, Chicago, IL. 2007-2008. Co-precepted Leah Bentley, Pharm.D.

Clinical Use of the MDRD Equation in Dosing of Antibiotics. University of Illinois at Chicago Medical Center, Chicago, IL. 2006-2009. Co-precepted Paul Setlak, Pharm.D.

Clinical Outcomes of Patients on Clopidogrel with a Hemorrhagic Episode. University of Illinois at Chicago Medical Center, Chicago, IL. 2005-2007. Precepted Jaclyn Sauve, Pharm.D.

Recent antibiotic use associated with *Clostridium difficile* colitis. University of Kentucky Chandler Medical Center, Lexington, KY. 2000-2001. Preceptor: Robert Rapp, Pharm.D.

Inappropriate sampling of blood cultures positive for *Staphylococcus epidermidis* treated with vancomycin. University of California San Francisco Medical Center and School of Pharmacy, San Francisco, CA. 1999-2000. Preceptors: B. Joseph Guglielmo, Pharm.D., Vicky Dudas, Pharm.D.

Epoetin and iron dextran dosing program in outpatient hemodialysis. University of Michigan College of Pharmacy, Ann Arbor, MI. 1997-1999. Preceptor: Nancy A. Mason, Pharm.D.

## **POSTERS PRESENTED AT PROFESSIONAL MEETINGS**

Young N, Tokumaru S, Taira D, Izumi K, Stern T, Dittrich D, Asai S, Nakagawa N. "Cost-effectiveness of phenytoin and levetiracetam for seizure prophylaxis in traumatic brain injury." Poster presentation at the 15<sup>th</sup> Annual Neurocritical Care Society Meeting. Waikoloa, Hawaii. October 10-13, 2017.

Peck L, Tokumaru S, Chu C, Izumi K, Nakagawa K. "Comparison of the efficacy of 4-factor and 3-factor prothrombin complex concentrate for reversing warfarin in patients with intracranial hemorrhage." Poster presentation at the 14<sup>th</sup> Annual Neurocritical Care Society Meeting. National Harbor, Maryland. September 16-18, 2016.



Ito S, Wen A, Uechi M, Wong L, Ma C, Kaopua L, Masaki K. "Interprofessional Education Using Teamwork Simulation at the University of Hawaii." Abstract presented at the American College of Physicians Hawaii Chapter Meeting, Honolulu, Hawaii, February 2016.

Wen A, Ito S, Wong L, Ma C, Kaopua L, Tokumaru S, Deutch M, Ing D, Juszczak P, Masaki K. "Interprofessional Education Using Teamwork Simulation at the University of Hawaii." Abstract presented at the Health Professions Education Conference at the University of Hawaii, Honolulu, Hawaii, February 2016.

Osugi A, Ishizuka K, Young N, Chu C, Tokumaru S. "Assessing treatment options for promoting cognitive and functional recovery in traumatic brain injury." Poster presentation at presented at American Society of Health-System Pharmacist (ASHP) 49th Annual Midyear Clinical Meeting." Anaheim, California. December 7-11, 2014.

Zacchetti M, Tokumaru S, Izumi K, Nakagawa K. "Prevalence of Pentobarbital Associated Hypoxia in the Neuroscience Intensive Care Unit." Poster presentation at the 12<sup>th</sup> Annual Neurocritical Care Society Meeting. Seattle, Washington. September 2014.

Ting K, Lum S, Tsue C, Tokumaru S, Kishimoto E. "Impact of student pharmacists on vancomycin dosing and compliance to national guidelines for vancomycin therapeutic monitoring in a community hospital." American Society of Health-System Pharmacist (ASHP) 48th Annual Midyear Clinical Meeting." Orlando, Florida. December 9, 2013.

Ota J, Kishimoto, E, Tokumaru S, Sakauye S. Evaluation of controversial interactions with warfarin encountered in a pharmacist-driven anticoagulation clinic in Hawaii. American Society of Health-System Pharmacist (ASHP) 48th Annual Midyear Clinical Meeting. Orlando, Florida. December 9, 2013.

Oyadomari K, Kobashikawa D, Tokumaru S, Kishimoto E, Zacchetti ML. "Assessing treatment options and cost effective strategies for acute migraine headaches." Poster Presentation at the American Society of Health-System Pharmacist (ASHP) 48th Annual Midyear Clinical Meeting. Orlando, Florida. December 9, 2013.

Chu C, Tokumaru S, Izumi K, Nakagawa K. "Predictors of Anticoagulation Reversal Failure with Prothrombin Complex Concentrate in Patients with Acute Intracranial Hemorrhage." Poster presentation at the 11<sup>th</sup> Annual Neurocritical Care Society Meeting. Philadelphia, Pennsylvania. October 3, 2013.

Goldsberry J, Stevens J, Tokumaru S, Goo R. "Appropriate Use of Epoetin Alfa (Procrit®) for Patients with Chronic Renal Insufficiency in Kauai, HI." Poster presentation at the ASHP Midyear Clinical Meeting. Las Vegas, Nevada. December 4, 2012.

Peric K, Yoneda M, Goo R, Tokumaru S. "Pharmacy Students Role in an Antimicrobial Stewardship Program." Poster presentation at the ASHP Midyear Clinical Meeting. Las Vegas, Nevada. December 4, 2012.

Yoneda M, Peric K, Goo R, Tokumaru S. "Pharmacy Students Impact on a Rural Community Hospital." Poster presentation at the ASHP Midyear Clinical Meeting. Las Vegas, Nevada. December 4, 2012.

Taira Juarez D, Sentell T, Tokumaru S, Goo R, Davis J, Mau M. "Factors Associated with Three Years of Poor or Highly Variable Glycemic Control Among Diabetic Patients in Hawai'i." International Society for Pharmacoeconomics and Outcomes Research Annual Conference. Washington D.C. June 5, 2012.

Taira Juarez D, Goo R, Tokumaru S, Sentell T, Davis J, Mau M. "Impact of Sustained Hemoglobin A1c Control on Health Care Costs. International Society for Pharmacoeconomics and Outcomes Research Annual Conference." Washington D.C. June 5, 2012.

Yamashiro A, Yeh M, Tokumaru S, Goo R. "Transient Elevations in Partial Thromboplastin Time Due to Telavancin: Case Study" Poster presentation at the ASHP Midyear Clinical Meeting. New Orleans, Louisiana. December 2011.

Goo R, Fukuhara C, Vue C, Yamashiro A, Yeh M, Tokumaru S. "Assessing Clinical Efficacy and Cost-Savings of Piperacillin/Tazobactam Continuous Infusion Versus Prolonged Infusion." Poster presentation at the ASHP Midyear Clinical Meeting. Anaheim, California. December 6, 2010.

Heinrich L, Tokumaru S, Grim S, Garofalo J, Paek J, Clark N. "Implementation and Evaluation of Piperacillin-Tazobactam Extended Infusion Protocol." Poster presentation at the ASHP Midyear Clinical Meeting. Orlando, Florida. December 10, 2008.

Zack KA, Schumann H, Tokumaru S. "Examination of the incidence of adrenal insufficiency in septic patients after the administration of etomidate in an academic medical center." Poster presentation at the ASHP Midyear Clinical Meeting. Orlando, Florida. December 10, 2008.

Tokumaru S, Garofalo J, Zadorskaya D, Setlak P, Galanter W, Fischer MJ. "Clinical Use of the Modification of Diet in Renal Disease (MDRD) Equation in Dosing of Antimicrobials." Poster presentation at the Society of Critical Care Medicine Annual Congress. Honolulu, Hawaii. February 5, 2008.

Bentley L, Tokumaru S, Berendt R, Kim K, Mucksavage J, Tesoro E. "Intensive Insulin Therapy in the Neuroscience Intensive Care Unit." Poster presentation at the ASHP Midyear Clinical Meeting. Las Vegas, Nevada. December 5, 2007.

Sauve J, Tokumaru S, DiDomenico R, Kao J. "Clinical Outcomes of Patients on Clopidogrel with a Hemorrhagic Episode." Poster presentation at the Society of Critical Care Medicine Annual Congress. New Orleans, Louisiana. February 18, 2007.

Setlak P, Tokumaru S, Garofalo J, Galanter W. "Clinical Use of the Modification of Diet in Renal Disease (MDRD) Equation in Dosing of Antimicrobials." Poster Presentation at the ASHP Midyear Clinical Meeting. Anaheim, California. December 7, 2006.

Sauve J, Tokumaru SM, DiDomenico R, Kao J. "Clinical Outcomes of Patients on Clopidogrel with a Hemorrhagic Episode." Poster presentation at the ASHP Midyear Clinical Meeting. Las Vegas, Nevada. December 4, 2005.

Tokumaru SM, Rapp R, Evans M. "Recent Antibiotic Use Associated with *Clostridium difficile* Colitis." Poster presentation at The American College of Clinical Pharmacy Annual Meeting. Tampa, Florida. October 24, 2001.

Dudas V, Tokumaru S, Jacobs R, Guglielmo BJ. "A Blood Culture Sampling Protocol Does Not Reduce the Incidence of Inappropriately Drawn Blood Cultures and Subsequent Vancomycin Use." Poster presentation at the Meeting of the Infectious Diseases Society of America. New Orleans, Louisiana. September 8-9, 2000.

Tokumaru SM, Chan J, Mason NA. "Epoetin and Iron Dextran Dosing Program in Outpatient Hemodialysis." Poster presentation at the ASHP Midyear Clinical Meeting. Las Vegas, Nevada. December 9, 1998.

## **PRESENTATIONS**

"New and Exciting Updates to Interprofessional education at the University of Hawaii" Health Professions Education Conference 2019 at John A. Burns School of Medicine. February 16, 2019.

"IPE Co-Facilitation and Co-Debriefing" University of Manoa. Regional Simulation User Network Conference. University of Hawaii at Manoa. June 1, 2018

"Precepting Students with Different Learning Styles" Preceptor Training for Hilo Preceptors in Classroom LPLH2 University of Hawaii at Hilo The Daniel K. Inouye College of Pharmacy. May 15, 2014.

"Precepting Students with Different Learning Styles" Preceptor Training for Oahu Preceptors at Ala Moana Hotel. University of Hawaii at Hilo The Daniel K. Inouye College of Pharmacy. May 6, 2014.

"Stroke Patient Care Education – Anticoagulant Medication Overview of Newer Anticoagulant Medications" The Queen's Medical Center QET 4D NSICU FY 2014 Competency/Education Fair. The Queen's Medical Center. March 13, 2014.

"Stroke Patient Care Education – Anticoagulant Medication Overview of Newer Anticoagulant Medications" The Queen's Medical Center QET 4D NSICU FY 2014 Competency/Education Fair. The Queen's Medical Center. March 6, 2014.

"The Invaluable Pharmacy Student" Preceptor Training at Ala Moana Hotel. University of Hawaii at Hilo The Daniel K. Inouye College of Pharmacy. May 29, 2013.

"A Tour of the Unknown: Antimicrobial Stewardship and You" ACPE Accredited Presentation at the Hawaii Pharmacists Association Annual Meeting 2013 at Honolulu Country Club (Salt Lake). April 14, 2013.

"Tips for Precepting Students in the Inpatient (or Hospital) Setting" Preceptor Training at Kaiser Moanalua Hospital. University of Hawaii at Hilo College of Pharmacy. November 27, 2012.

"The Role of Dabigatran and Rivaroxaban in Stroke Prevention" CME, CE nurses, ACPE Accredited Get with the Guidelines Cardiac and Stroke Workshop, American Heart Association/American Stroke Association at the Outrigger Reef Hotel. January 25, 2012.

"Experiential Preceptor Training 2010 The Final Year – APPE Rotations" ACPE Accredited Preceptor Training at The Queen's Medical Center. University of Hawaii at Hilo College of Pharmacy. May 5, 2010.

"Experiential Preceptor Training 2010 The Final Year – APPE Rotations" ACPE Accredited Preceptor Training at Tripler Army Medical Center. University of Hawaii at Hilo College of Pharmacy. April 30, 2010.

"Experiential Preceptor Training 2010 The Final Year – APPE Rotations" ACPE Accredited Preceptor Training at Kaiser Permanente - Mapunapuna Clinic. University of Hawaii at Hilo College of Pharmacy. April 14, 2010.

"Pharmacokinetic Considerations and Drug Interactions in Critically Ill Patients." Grand Rounds for the Department of Pulmonary and Critical Care Medicine. University of Illinois at Chicago. April 7, 2008.

"Continuous Renal Replacement Therapy: Pharmacists' Prospective." ACPE accredited seminar for the Department of Pharmacy. University of Illinois at Chicago. June 21, 2006.

"Treatment Options to Achieve Hemostasis in the ICU." ACPE accredited presentation to health care professionals in the Chicago area. Industry sponsored. October 27, 2005.

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"Recombinant Factor VIIa Preliminary Medication Use Evaluation." University of Illinois at Chicago Pharmacy and Therapeutics Committee. Chicago, Illinois. January 23, 2006.

"Recombinant Factor VIIa Medication Use Evaluation." ACPE accredited seminar for the Department of Pharmacy. University of Illinois at Chicago. August 17, 2005.

"Bivalirudin." University of California, San Diego Pharmacy and Therapeutics Committee. San Diego, California. July 16, 2003.

"Recent antibiotic use associated with *Clostridium difficile* colitis." Southeastern Residency Conference. Athens, Georgia. April 27, 2001.

"Recent antibiotic use associated with *Clostridium difficile* colitis." Research Seminar Series. University of Kentucky Chandler Medical Center. Lexington, Kentucky. February 20, 2001.

"Inappropriately drawn blood cultures and associated vancomycin prescribing." Western States Residency Conference. Pacific Grove, California. May 20, 2000.

"Inappropriately drawn blood cultures and associated vancomycin prescribing." Third Annual Faculty Research Seminar. University of California San Francisco School of Pharmacy. San Francisco, California. April 26, 2000.

## **PUBLICATIONS**

Chu C, Tokumaru S, Izumi K, Nakagawa K. Obesity increases risk of anticoagulation reversal failure with prothrombin complex concentrate in those with intracranial hemorrhage. *Int J Neurosci*. 2016;126(1):62-6.

Ma C, Tokumaru S, Goo R, Ciarleglio A. The Daniel K. Inouye College of Pharmacy Scripts: pharmacy school graduates continue training in postgraduate residency programs. *Hawaii J Med Public Health*. 2015 May;74(5):185-90.

Ma C, Tokumaru S, Goo R. Curious About Pharmacy, In: Pharmacy for the Curious: Why Study Pharmacy? Curious Academic Publishing; First edition, 2015.

Juarez DT, Goo R, Tokumaru S, Sentell T, Davis JW and Mau MM. Association between sustained hemoglobin A1c control and health care costs. *Am J Pharm Benefits*. 2013 Mar;5(2):59-64.

Juarez DT, Sentell T, Tokumaru S, Goo R, Davis JW, Mau MM. Factors associated with poor glycemic control or wide glycemic variability among diabetes patients in Hawaii, 2006-2009. *Prev Chronic Dis*. 2012;9:120065.

Nakagawa K, Chang CW, Koenig MA, Yu M, Tokumaru S. Treatment of refractory intracranial hypertension with 23.4% saline in children with severe traumatic brain injury. *J Clin Anesth*. 2012 Jun;24(4):318-23.

Heinrich LS, Tokumaru S, Clark NM, Garofalo J, Paek JL, Grim SA. Development and Implementation of a Piperacillin-Tazobactam Extended Infusion Guideline. *J Pharm Pract*. 2011 Dec;24(6):571-6.

Golembiewski J, Tokumaru S. Pharmacological prophylaxis and management of adult postoperative/postdischarge nausea and vomiting. *J Perianesth Nurs*. 2006 Dec;21(6):385-97.

Tokumaru SM. Bivalirudin. *UCSD Medical Center Discourse*. 2003; 24(4):15.

Tokumaru SM. Erythropoietin and the role of iron. *Prescription*. 2002;19:2-4.

Tokumaru SM. Burn care health information archive. Longs Drug Store consumer website.

## **GRANTS, AWARDS AND FUNDING**

Title: Secondary Stroke Prevention Among Filipinos Compared with Other Racial Groups in Hawaii  
Source: Federal; Mountain West Clinical Translational Research-Infrastructure Network (MW CTR-IN) Grant (U54GM104944)

Authors: Young N., Tokumaru, S., Taira D., Nakagawa K.

Role: Co-Investigator, Duration of Grant: 10/2018 – 6/2019

Total direct costs: **\$60,000 – awarded August 2018**

Title: Disparities in Stroke Prevalence in Filipinos Compared with Other Ethnicities  
Source: Internal; University of Hawaii at Hilo, "INBRE RTRF Seed Grant"  
Authors: Young N., Tokumaru S., Taira D., Nakagawa, K.  
Role: Co-Investigator, Duration of Grant: 3/1/2018 – 6/30/2018  
Total direct costs: **\$6000 –awarded March 2018**

Title: Impact of 3D Human Visualization Technology in Pre-Course Material for Interprofessional Simulations  
Source: Scholarship of Teaching and Learning Grant, American Association of Colleges of Pharmacy (  
Authors: You A., Young N., Kim M., Wong L.  
Role: Co-Investigator  
Amount: \$4,000 (not awarded)

Tokumaru S. 2014 Neurocritical Care Society Meeting Travel Grant Award, supported by The Integra Foundation Travel Grant (\$1000-funds awarded for travel to the 2014 NCS Meeting), September 2014.

Tokumaru S. Importance of Continuity of Practice Sites on Pharmacy Student Performance. Research Relations Grant (\$4900-funded), June 2014-June 2015.

Title: Potential Cost Savings of Delaying Alzheimer's Disease through Increased Physical Activity  
PI: Deborah Taira Juarez, ScD; Daniel K. Inouye College of Pharmacy  
Agency: NIH National Institute on Aging.  
Total direct costs: \$100,000 (Not Funded, July 2014)  
Dates: 7/1/14 - 6/30/16  
Role: Collaborator (5% time)  
Goal: To advance our understanding of the potential cost savings from introducing appropriate interventions to increase physical activity in midlife and delay the onset of Alzheimer's Disease.

Tokumaru S. Award for hands-on training supplies in Integrated Therapeutics workshops and in Advanced Pharmaceutical Care. McKesson Corporation (\$2500-donation awarded) February 2014.

"A Tour of the Unknown: Antimicrobial Stewardship and You" ACPE Accredited Presentation at the Hawaii Pharmacists Association Annual Meeting 2013 (invited presentation) at Honolulu Country Club (\$1000 - honorarium waived). April 14, 2013.

"The Role of Dabigatran and Rivaroxaban in Stroke Prevention" CME, CE nurses, ACPE Accredited Get with the Guidelines Cardiac and Stroke Workshop (invited presentation), American Heart Association/American Stroke Association at the Outrigger Reef Hotel (\$1000 - honorarium waived). January 25, 2012.

### **NATIONAL SERVICE**

PONS Committee February 2019-present  
Pharmacotherapy of Neurocritical Care Series  
Neurocritical Care Society

Intracranial Hypertension International Guideline January 2018-present  
Guideline Writing Committee  
Neurocritical Care Society

### **UNIVERSITY, PROFESSIONAL AND HOSPITAL ACTIVITIES**

Health Professions Education Conference 2019 2018-2019  
HPEC Planning Committee

American Heart Association Planning Committee 2018-2019  
2019 Hawaii Get with the Guidelines Cardiovascular and Stroke Workshop

Regional Simulation User Network Planning Committee 2018  
2018 SUN Conference Planning Committee

Residency Workshop October 27, 2013  
University of Hawaii at Hilo The Daniel K. Inouye College of Pharmacy  
Invited speaker and mock interviewer (2 sessions)

Postgraduate Pharmacy Practice Education Committee August 2013-Present  
University of Hawaii at Hilo The Daniel K. Inouye College of Pharmacy

Library and Educational Resources Committee August 2013-Present  
University of Hawaii at Hilo The Daniel K. Inouye College of Pharmacy

Faculty Development August 2012-July 2013  
University of Hawaii at Hilo The Daniel K. Inouye College of Pharmacy

Board of Directors (Founding Member) April 2011-March 2012  
University of Hawaii at Hilo College of Pharmacy Alumni Chapter

Residency Workshop November 5, 2011  
University of Hawaii at Hilo The Daniel K. Inouye College of Pharmacy  
Reviewed cover letters, curriculum vitae and did mock interviews (2 sessions)

Special Care Committee June 2010-present  
The Queen's Medical Center

Assessment Committee August 2010-2011  
University of Hawaii at Hilo College of Pharmacy

Search Committee December 2010- October 2011  
Assistant Clinical Coordinator and Clinical Coordinator  
University of Hawaii at Hilo College of Pharmacy

UIMCC Glycemic Control Committee June 2005-December 2009  
University of Illinois at Chicago

Moderate Sedation Committee May 2007-June 2008  
University of Illinois at Chicago

Critical Care Group August 2004-December 2009  
University of Illinois at Chicago

Critical Care Learning Group January 2002-March 2003  
Cedars-Sinai Medical Center

**L I C E N S U R E**

|                       |                         |
|-----------------------|-------------------------|
| Illinois Pharmacist   | # 051-290162 (Inactive) |
| California Pharmacist | # 51554                 |
| Kentucky Pharmacist   | # 012024 (Inactive)     |
| Hawaii Pharmacist     | # 2120                  |

**AWARDS AND HONORS**

|   |            |
|---|------------|
| Nominated for Excellence in Teaching Award<br>University of Hawaii at Hilo                  | April 2013 |
| Faculty Preceptor of the Year 2012  | May 2012   |
| 2006 Mary Hanna Memorial Journalism Award<br>American Society of PeriAnesthesia Nursing     | April 2007 |
| Pharm.D. of the Year awarded by Medical Housestaff<br>University of Illinois Medical Center | 2005-2006  |
| The Extra Mile Award<br>University of Kentucky Residency Award                              | 2001       |
| Plough Pharmacy Academic Scholarship  | 1997-1999  |
| Class Honors<br>University of Michigan  | 1995       |

**PROFESSIONAL MEMBERSHIPS**

|   |                         |
|---|-------------------------|
| Neurocritical Care Society                    | 2014-present            |
| Hawaii Pharmacist Association                 | 2013-Present            |
| The American College of Clinical Pharmacy     | 2001-2003               |
| Society of Critical Care Medicine             | 2000-Present            |
| Phi Delta Chi Alumni Chapter                  | 1999-Present            |
| American Society of Health-System Pharmacists | 1998-2001, 2012-present |
| Asian American Pharmacy Students Association  | 1998-1999               |
| Academy of Students of Pharmacy               | 1995-1999               |
| Phi Delta Chi Pharmacy Fraternity             | 1995-1999               |

February 2019