

# Abdulwhab (Abe) Shremo Msdi, Pharm D.

🏠 4349 Martin Luther King Blvd.

Houston, TX 77204-5039

☎ 832-842-8322

✉ ashremom@central.uh.edu

## EDUCATION AND POST-GRADUATE TRAINING

---

<b>Infectious Disease Fellowship</b> Loma Linda University, Loma Linda, California Program Director: Karen Tan, Pharm D., BCIDP	2022 – 2024
<b>PGY-1 Pharmacy Residency</b> Orlando Regional Medical Center, Orlando Health – Orlando, Florida Program Director: Brandon Hobbs, Pharm D., BCPS	2021 – 2022
<b>Doctor of Pharmacy</b> Palm Beach Atlantic University – Lloyd L. Gregory School of Pharmacy West Palm Beach, Florida	2017 – 2021
<b>Bachelor of Pharmaceutical Science</b> University of Kalamoon Damascus, Syria	2006 – 2012

## PROFESSIONAL EXPERIENCES

---

<b>Research Assistant Professor – Clinical Translational Research</b> University of Houston, Department of Pharmacy Practice and Translation Research	2024- current
<b>Pharmacy Teaching Assistant</b> Palm Beach Atlantic University, Lloyd L. Gregory School of Pharmacy – West Palm Beach, Florida Supervisor: Dana Strachan, Pharm D., Associate Dean of Academics	2018 – 2021
<b>Medical Science Liaison (MSL)</b> Gulf Care Establishment – Ophthalmic Products – Riyadh, Saudi Arabia (KSA)	2013 – 2014
<b>Medical Device Product Specialist</b> Scope Medical for Surgical Equipment/Supplies – Cairo, Egypt	2012 – 2013

## INFECTIOUS DISEASES PHARMACY FELLOWSHIP ROTATIONS

---

Antimicrobial Stewardship/Research Loma Linda Medical Center Preceptor: Anna Zhou, Pharm D., BCIDP	Nov 2023 – Present
Infectious Diseases Immunocompromised Adult Consult Loma Linda Medical Center Preceptor: Karen Tan, Pharm D., BCIDP	Sep 2023 – Nov 2023
Longitudinal Research Loma Linda Medical Center Preceptors: Karen Tan, Pharm D., BCIDP; Jacinda Abdul-Mutakabbir PharmD, MPH, AAHIVP	Aug 2023 – Sep 2023
Infectious Diseases General Adult Consult Loma Linda Medical Center Preceptor: Karen Tan, Pharm D., BCIDP	Jul 2023 – Aug 2023
Longitudinal Research Loma Linda Medical Center Preceptors: Karen Tan, Pharm D., BCIDP; Jacinda Abdul-Mutakabbir PharmD, MPH, AAHIVP	Jun 2023 – Jul 2023
Infectious Diseases Immunocompromised Adult Consult Loma Linda Medical Center Preceptor: Karen Tan, Pharm D., BCIDP	May 2023 – Jun 2023
Infectious Diseases Pediatrics Consult Loma Linda Medical Center Children's Hospital Preceptor: Noreen Tompkins, Pharm D., BCPS, APh	Mar 2023 – Apr 2023
Infectious Diseases General Adult Consult Loma Linda Medical Center – East Campus Preceptor: Karen Tan, Pharm D., BCIDP	Feb 2023 – Mar 2023
Longitudinal Research Loma Linda Medical Center Preceptor: Karen Tan, Pharm D., BCIDP	Dec 2022 – Jan 2023
Infectious Diseases General Adult Consult Loma Linda Medical Center Preceptor: Karen Tan, Pharm D., BCIDP	Sep 2022 – Nov 2022
Antimicrobial Stewardship Loma Linda Medical Center Preceptor: Anna Zhou, Pharm D., BCIDP	Jul 2022 – Aug 2022

**PGY-1 PHARMACY RESIDENCY ROTATIONS**

Emergency Medicine, Adult Orlando Regional Medical Center Preceptor: Deba Rihani, Pharm D., BCPS, BCCCP	May 2022 – Jun 2022
Internal Medicine II, Adult Orlando Regional Medical Center Preceptor: Kris Smith, Pharm D.	Apr 2022 – May 2022
Infectious Diseases Consult Orlando Regional Medical Center Preceptor: Cara Nys, Pharm D.	Mar 2022 – Apr 2022
Medical Critical Care (Multi-System ICU) Orlando Regional Medical Center Preceptor: Marlena Fox, Pharm D., BCPS, BCCCP	Feb 2022 – Mar 2022
Pediatric Cardiac Critical Care Orlando Health Arnold Palmer Hospital for Children Preceptor: Robyn Keen, Pharm D., BCPS, BCPPS	Jan 2022 – Feb 2022
Project Development Orlando Regional Medical Center Preceptor: Deba Rihani, Pharm D., BCPS, BCCCP	Dec 2021 – Jan 2022
Trauma/General Surgery Orlando Regional Medical Center Preceptor: Xi Liu DeRyke, Pharm D., FCCM	Nov 2021 – Dec 2021
Oncology/Hematology, Adults Orlando Regional Medical Center, Cancer Institute Preceptor: Courtney Black, Pharm D., BCOP	Oct 2021 – Nov 2021
Medical Critical Care Orlando Regional Medical Center Preceptor: William Carothers, Pharm D., BCCCP	Sep 2021 – Oct 2021
Internal Medicine Orlando Regional Medical Center Preceptor: Kris Smith, Pharm D.	Aug 2021 – Sep 2021

**LONGITUDINAL EXPERIENCES**

Verigene Blood Culture Pager Coverage Location: Loma Linda Univeristy Medical Center Responsibilites: Respond to blood culture activations, communicate results and recommendations to primary team, and document as progress note	Mar 2023 – Present
Inpatient Staff Pharmacist Location: Loma Linda University Medical Center Responsibilities: central order verification, medication question triage, and pharmacokinetic consults	Jul 2022 – Present
Weekend Clinical Pharmacokinetics Location: Orlando Regional Medical Center Responsibilites: Vancomycin and aminoglycoside pharmacokinetic consults	Aug 2021 – Jun 2022
Code Blue 90 Coverage Location: Orlando Regional Medical Center Responsibilites: Responding code blue, code rapid response, code stroke	Aug 2021 – Jun 2022

**RESEARCH EXPERIENCES**

<b>Comparison of Non-trapezoidal and Trapezoidal Pharmacokinetic Equations to Calculate Vancomycin Area Under the Curve within 24 Hours of Therapy in Patients with Persistent Methicillin-Resistant Staphylococcus aureus Bacteremia</b> Research Advisors: Karen Tan, PharmD, BCIDP; Jacinda Abdul-Mutakabbir PharmD, MPH, AAHIVP <ul style="list-style-type: none"> <li>Compare the calculated VAN AUC<sub>0-24</sub> using the two PK equations in patients with persistent MRSA bacteremia</li> <li>Assess impact of achieving AUC<sub>0-24</sub> target on bacteremia clearance and 30-day mortality</li> </ul>	2023-Present
<b>Characterizing Day One Area Under the Curve Following Vancomycin Loading Dose Administration in Adult Hospitalized Patients Using Non-Trapezoidal Linear Pharmacokinetic Equations: A Retrospective Observational Study Center. Results presented at ACCP 2023 annual meeting in Dallas, TX.</b> Research Advisors: Karen Tan, PharmD, BCIDP; Jacinda Abdul-Mutakabbir PharmD, MPH, AAHIVP <ul style="list-style-type: none"> <li>Characterize VAN AUC<sub>0-24</sub> following the administration of 20 mg/kg LD</li> <li>Explore the characteristics of patients who failed to achieve exposure target</li> </ul>	2022-2023
<b>Oral versus intravenous antibiotic therapy for the management of bacteremia in pregnant and breastfeeding women. Results Presented at Florida Residency Conference. 2022</b> Research Advisors: Mallory Cowart, Pharm D., MBA, BCPPS; Amanda Reidler, Pharm D., BCPS; Susan Norman, Pharm D., BCPPS, BCPS <ul style="list-style-type: none"> <li>Primary Goal: Describe the characteristics pregnant and breastfeeding patients with bacteremia who received definitive intravenous antibiotic therapy only versus oral stepdown therapy (OST)</li> </ul>	2021 – 2022

- Secondary Goal: Identify side effects, outcomes, and barriers associated with using IV only versus IV/PO step down therapy

### **The discovery of selective inhibitor of adenylyl cyclase 7 enzyme (AC7)**

Research Advisor: Tarsis Brust, Ph.D.

- Primary Goal: Evaluate ST034307 efficacy for relieving visceral and inflammatory pain as compared to morphine in mice
- Secondary Goal: Develop a cell model using CASPER-GAS9 to measure AC7 activity, and identify potential compounds to inhibit AC7 activity, potently, and selectively.

2019 – 2020

### **HPLC Analysis of Omeprazole and Hydroxyomeprazole in Saliva: A pilot study**

Research Advisor: Jim Mitroka, Ph.D.

- Primary Goal: Experimentally Determine the omeprazole hydroxylation index (OHI), in student volunteers, and compare the result with the student's CYP2C19 activity predicted from genetic test results.
- Secondary Goal: Develop an analytical HPLC/UV assay to detect Opz/HOPZ in saliva

2018 – 2019

## **PUBLICATIONS**

1. Giacoletti G, Price T, Hoelz LVB, Shremo Msdi A, Cossin S, Vazquez-Falto K, Amorim Fernandes TV, Santos de Pontes V, Wang H, Boechat N, Nornoo A, Brust TF. A Selective Adenylyl Cyclase 1 Inhibitor Relieves Pain Without Causing Tolerance. *Front Pharmacol.* 2022 Jul 11; 13:935588. doi: 10.3389/fphar.2022.935588. PMID: 35899113
2. Shremo Msdi A, Abdul-Mutakabbir JC, Tan KK. Characterizing Day 1 Area Under the Curve Following Vancomycin Loading Dose Administration in Adult Hospitalized Patients Using Non-Trapezoidal Linear Pharmacokinetic Equations: A Retrospective Observational Study. *Infect Dis Ther.* 2024 Jun 26. doi: 10.1007/s40121-024-01004-2. PMID: 38922527.

## **POSTERS AND ABSTRACTS**

- Comparison of Non-trapezoidal and Trapezoidal Pharmacokinetic Equations to Calculate Vancomycin Area Under the Curve within 24 Hours of Therapy in Patients with Persistent Methicillin-Resistant Staphylococcus aureus Bacteremia.* Abdulwhab Shremo Msdi, Pharm D., Jacinda C Abdul-Mutakabbir, Pharm D., MPH, AAHIVP, Karen Tan, Pharm D., BCIDP. ID Week 2024, Los Angeles, Ca. **Abstract ID 1822621** 2024
- Outcomes of a Novel Antimicrobial Handshake Stewardship Service in the Immunocompromised Population at an Academic Medical Center.* Keven Gomez, Pharm D., Richelle Guerrero-Wooley, MD, Caleb McLeod, Pharm D., Abdulwhab Shremo-Msdi, Pharm D., Sandy Chang, MD, Jonathan Arcobello, MD, Anna Zhou, Pharm D., BCIDP. ID Week 2023, Boston, Massachusetts. **[poster 1241]** 2023
- Characterizing Day 1 Area Under the Curve Following Vancomycin Loading Dose Administration in Adult Hospitalized Patients Using Non-Trapezoidal Linear Pharmacokinetic Equations: A Retrospective Observational Study.* Abdulwhab Shremo Msdi, Jacinda C Abdul-Mutakabbir, Karen Tan. BCIDP. ACCP Annual Meeting 2023. Dallas, Texas. **[poster M-89]** 2023
- Giacoletti, G., Abdulwhab Shremo Msdi, Brust, T. A selective AC1 inhibitor as non-GPCR-or ion channel-dependent approach for the treatment of pain **[abstract]**. In: proceeding of Federation of American Society for Experimental Biology Journal 2020 – American Society of Pharmacology and Experimental Therapeutics; San Diego, California: *FASEB*; April 2020. Abstract nr 34. <https://doi.org/10.1096/fasebj.2020.34.s1.00596>. 2020
- Brust. T.F., Abdulwhab Shremo Msdi., A., Cross, R., Giacoletti, G. Molecular features of adenylyl cyclase isoforms and cAMP signaling: a link between AC7 and depression. In Martin, C., Hunter, L.A., Preedy, V.R., Patel, V., Rajendram, R. (Eds.) *The Neuroscience of Depression: Mechanisms and Treatments*. Vol 2 Elsevier **[book chapter]** 2020
- Evaluating Direct Oral Anticoagulant Utilization in a Community Hospital.* Abdulwhab Shremo Msdi, Divya Desai, John A. Dougherty, MBA, Pharm D., BCPS. *ASHP Midyear Clinical Meeting*. **[virtual poster]** 2020
- A selective AC1 inhibitor as a non-opioid approach for the treatment of pain.* Abdulwhab Shremo Msdi, Brust, T. *Annual Interdisciplinary Research Conference, West Palm Beach, Florida*. **[poster]** 2020
- HPLC Analysis of Omeprazole and Hydroxyomeprazole in Saliva: A pilot study.* Abdulwhab Shremo Msdi, James Mitroka Ph.D. *Annual Interdisciplinary Research Conference, West Palm Beach, Florida*. **[poster 7-12]** 2018

## **PRESENTATIONS AND JOURNAL CLUBS**

- Impact Of Hypoalbuminemia On Ceftriaxone Treatment Outcome.* 2023  
**Abdulwhab Shremo Msdi, PharmD.**, Karen Tan, Pharm D., BCIDP, Anna Zhou, Pharm D., BCIDP 1-Hour Presentation. Presented to Loma Linda Medical Center Infectious Disease Consult Service.
- Non-Penicillin Alternatives for Treatment of Syphilis.* 2023  
**Abdulwhab Shremo Msdi, PharmD.**, Karen Tan, Pharm D., BCIDP, Anna Zhou, Pharm D., BCIDP 1-Hour Presentation. Presented to Loma Linda Medical Center Infectious Disease Consult Service.
- Where Do We Go From Here? Vancomycin Trough Versus AUC/MIC- based Monitoring.* 2023  
**Abdulwhab Shremo Msdi, PharmD.**, Karen Tan, Pharm D., BCIDP. 1-Hour ACPE Accredited Patient Case-Based CE Presentation. Presented at Pharmacy Grand Rounds. Loma Linda Medical Center, Loma Linda, California.
- Oral versus intravenous antibiotic therapy for the management of bacteremia in pregnant and breastfeeding women.* 2022  
**Abdulwhab Shremo Msdi, Pharm.D.**, Mallory Cowart, Pharm D., MBA, BCPPS; Amanda Reidler, Pharm

D., BCPS; Susan Norman, Pharm D., BCPPS, BCPS. Results Presented at Florida Residency Conference.	
<i>Hypertriglyceridemia-Induced Acute Pancreatitis.</i>	2021
<b>Abdulwhab Shremo Msdi, Pharm D.</b> , Marlena Fox, Pharm.D., BCPS, BCCCP., Melanie Perry, Pharm.D., BCCCP, CNSC. 1-Hour ACPE Accredited Patient Case-Based CE Presentation. Presented at Pharmacy Grand Rounds. Orlando Regional Medical Center, Orlando, Florida.	
<i>Idiopathic Thrombocytopenic Purpura (ITP): Update on Management.</i>	2021
<b>Abdulwhab Shremo Msdi, Pharm D.</b> , Thuy Nguyen, Pharm D., BCOP. 1-Hour ACPE Accredited CE Presentation. Presented at Pharmacy Grand Rounds. Orlando Regional Medical Center, Orlando, Florida.	
<i>Acute Myocardial Syndrome: Non-ST Elevation Myocardial infarction (NSTEMI).</i>	2020
<b>Abdulwhab Shremo Msdi</b> , Abdelkader Abdelkader. Presented to medical team at Wellington Regional Medical Center, Wellington, Florida.	
<i>COVID-19 Complicated Pneumonia: Clinical Case Presentation.</i>	2020
<b>Abdulwhab Shremo Msdi</b> , Abdelkader Abdelkader. Presented to Medical team at Wellington Regional Medical Center, Wellington, Florida.	
<i>Emergence and Targeting of Acquired and Hereditary Resistance to Multikinase RET Inhibition in Patients with RET-Altered Cancer.</i>	2020
<b>Abdulwhab Shremo Msdi</b> . Presented to Medical Affairs Oncology Team at Eli Lilly & Company, Indianapolis, Indiana.	
<i>Reyvow (Lasmiditan) for the use in the Treatment of Migraine Headache: Evaluation of Clinical Trials.</i>	2020
<b>Abdulwhab Shremo Msdi</b> . Presented to pharmacy staff at Atlantis Pharmacy, Atlantis, Florida.	
<i>Erenumab (Aimovig) for the Prevention of Migraine Headache: Evaluation of Clinical Trial.</i>	2019
<b>Abdulwhab Shremo Msdi</b> , Andrew Ashraf Wahba, Jean Carlo Sarmiento. Presented at Palm Beach Atlantic University, West Palm Beach, Florida.	
<i>Adenylyl cyclase 1 &amp; 8 Role in Memory Modulation and Neuronal Plasticity in Mice: Journal Club.</i>	2019
<b>Abdulwhab Shremo Msdi</b> . Presented to the Summer Research and Scientific Committee, Gregory School of Pharmacy, West Palm Beach, Florida.	

## CLINICAL PROJECTS

Adult Pneumococcal Immunization – Nursing Driven Protocol	2023
<b>Abdulwhab Shremo Msdi</b> , Karen Tan, Pharm D., BCIDP, Anna Zhou, Pharm D., BCIDP Loma Linda Medical Center, Loma Linda, California.	
<i>Pharmacy Newsletter - Rezafungin (REZZAYO™): New Long Acting Echinocandin</i>	2023
<b>Abdulwhab Shremo Msdi</b> , Karen Tan, Pharm D., BCIDP, Anna Zhou, Pharm D., BCIDP Loma Linda Medical Center, Loma Linda, California.	
<i>Clinical Pathway: Focal Pneumonia in Immunocompromised Patients – Hospital Guideline Development.</i>	2022
<b>Abdulwhab Shremo Msdi</b> . Anna Zhou, Pharm D., BCIDP. Sandy Chang, MD, Jonathan Arcobello, MD. Loma Linda Medical Center, Loma Linda, California.	
<i>Clinical Pathway: Cellulitis – Hospital Guideline Development</i>	2022
<b>Abdulwhab Shremo Msdi</b> . Anna Zhou, Pharm D., BCIDP. Richelle Guerrero-Wooley, MD. Loma Linda Medical Center, Loma Linda, California.	
<i>Clinical Pathway: Probiotics – Hospital Guideline Development</i>	2022
<b>Abdulwhab Shremo Msdi</b> . Anna Zhou, Pharm D., BCIDP. Richelle Guerrero-Wooley, MD. Loma Linda Medical Center, Loma Linda, California.	
<i>Medication Use Evaluation – Assessing administration, safety, and efficacy of Vancomycin Continuous Infusion in Critically Ill Patients</i>	2021
<b>Abdulwhab Shremo Msdi</b> , Chancey Carothers, Pharm D., BCCCP, Kara Birrer, Pharm D., BCPS Orlando Regional Medical Center, Orlando, Florida.	
<i>Phenytoin new dose calculation &amp; adjustment in patient with severe phenytoin toxicity</i>	2020
<b>Abdulwhab Shremo Msdi</b> , Abdelkader Abdelkader, Erenie Guirguis, Pharm D., BCPS Wellington Regional Medical Center, Wellington, Florida.	
<i>Selpercatinib (LOXO-292) Executive Medical Summary Edit and Data Update</i>	2020
<b>Abdulwhab Shremo Msdi</b> , Pearl French RPh., MPA Eli Lilly and Company, Indianapolis, Indiana.	
<i>Retevmo (selpercatinib) Adverse Event Monitoring and Management Initiation Sheet</i>	2020
<b>Abdulwhab Shremo Msdi</b> , Pearl French RPh., MPA Eli Lilly and Company, Indianapolis, Indiana.	
<i>Percent Calculation of Patients with Differentiated Metastatic Thyroid Cancer Who Are Eligible for Multikinase Inhibitors Per Year – Market Forecast Team</i>	2020
<b>Abdulwhab Shremo Msdi</b> , Pearl French Eli Lilly and Company, Indianapolis, Indiana.	
<i>Prognostic Implication of Having an M918T Mutation in Medullary Thyroid Cancer – Literature Search</i>	2020
<b>Abdulwhab Shremo Msdi</b> , Pearl French Eli Lilly and Company, Indianapolis, Indiana.	
<i>Pan Tumor Disclosure Assessment Evaluating the Efficacy and Outcomes of Treatment Based on Biomarkers – Literature Search</i>	2020
<b>Abdulwhab Shremo Msdi</b> , Pearl French	

Eli Lilly and Company, Indianapolis, Indiana.

*Insulin Dosing Brand – Generic Switching Chart*

2019

**Abdulwhab Shremo Msdi**, Anthony Bolson, Abdelkader Abdelkader, Day Scott  
Kindred Hospital the Palm Beaches, West Palm Beach, Florida.

## LEADERSHIP

---

<b>Resident / Fellow Leader</b> Rho Chi Honor Society – Gamma Rho Chapter	2021 – Present
<b>Education Coordinator</b> Orlando Regional Medical Center	2020 – 2021
<b>Director, Professional Programming</b> Industry Pharmacist Organization (IPHO)	2020 – 2021
<b>Member</b> Rho Chi Honor Society, Gamma Chi Chapter	2019 – 2021
<b>Chief Communication Officer</b> American College of Clinical Pharmacy, Palm Beach Atlantic University Chapter	2019 – 2021

## HONORS AND AWARD

---

<b>Recipient of ACCP Annual Meeting Resident/Fellow Travel Award</b> American College of Clinical Pharmacy	2023
<b>Recipient of Gregory School of Pharmacy Outstanding Graduate Award – Class of 2021</b> Lloyd L. Gregory School of Pharmacy	2021
<b>Recipient of PCOA Outstanding Performance Award with Distinction for Scoring in the Top 95<sup>th</sup> and Higher Percentile</b> National Association of Boards of Pharmacy	2018 – 2020
<b>High Honor Gregory School of Pharmacy Scholarship Awardee</b> Palm Beach Atlantic University	2018 – 2020
<b>Summer Research Program Fellowship</b> Lloyd L. Gregory School of Pharmacy	2018 – 2020
<b>Dean’s List Awardee</b> Palm Beach Atlantic University	2018 – 2020
<b>Rho Chi Honor Society Inductee</b> Rho Chi Honor Society	2019
<b>Connect Integra Research Grant</b> Lloyd L. Gregory School of Pharmacy	2019
<b>Recipient of the Atlantis Pharmacy Scholarship</b> Atlantis Pharmacy	2018
<b>American College of Clinical Pharmacy – Clinical Competition (2<sup>nd</sup> place)</b> American College of Clinical Pharmacy	2018

## LICENSURES/CERTIFICATIONS

---

<b>Pharmacist License (RPH87299)</b> California State Board of Pharmacy	2022
<b>Pharmacist License (PS62737)</b> Florida State Board of Pharmacy	2021
<b>Advanced Cardiovascular Life Support (ACLS) Certification</b> American Heart Association (AHA)	2021
<b>Collaborative Institutional Training Initiative (CITI) Certification</b> The Collaborative Institutional Training Initiative Program	2021
<b>APhA Immunization Certificate</b> American Pharmacists Association (APhA)	2018