

Sarah Mathre, PharmD, RPh, BCPS

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PROFESSIONAL SUMMARY

Board-certified pharmacotherapy specialist with four years of inpatient practice across obstetrics, cardiovascular, emergency medicine, oncology, critical care, and solid organ transplant. Contributes to institutional medication safety through the P&T Medication Safety Subcommittee, including safety event review and root cause analysis. Active clinical researcher with peer-reviewed publications and national poster presentations, and an experienced preceptor holding Mayo Clinic Instructor of Pharmacy rank. ACLS certified with expertise in sterile IV, chemotherapy, and TPN compounding.

EDUCATION

University of Minnesota College of Pharmacy

Doctor of Pharmacy, Research Emphasis in Medicinal Chemistry | Minneapolis, Minnesota | May 2022

University of Minnesota College of Biological Sciences

Bachelor of Science, Biochemistry | Minneapolis, Minnesota | May 2016

LICENSURE AND CERTIFICATION

- Board Certified Pharmacotherapy Specialist, Board of Pharmacy Specialties | November 2025 – Present
- Instructor of Pharmacy, Mayo Clinic College of Medicine and Science | June 2025 – Present
- Advanced Cardiac Life Support (ACLS), American Heart Association | October 2024 – Present
- Minnesota Pharmacist License and Preceptor License, Minnesota Board of Pharmacy | July 2022 – Present

PROFESSIONAL EXPERIENCE

Mayo Clinic

Clinical Pharmacist

Rochester, Minnesota January 2025 - Present

- Provide comprehensive pharmaceutical care to hospitalized patients, with a focus on central pharmacy operations and obstetric populations, including antepartum, intrapartum, and postpartum medication management in collaboration with the OB care team
- Respond to adult and neonatal code situations, delivering timely and accurate medication support during emergencies
- Compound and verify sterile IV products, TPNs, and chemotherapy in accordance with USP <797>/<800> and institutional safety standards
- Participate in the P&T Safety Subcommittee, reviewing medication-related safety events and performing root cause analyses to improve system safety and prevent future errors
- Collaborate with nurses, physicians, and interdisciplinary teams to ensure accurate order entry, formulary alignment, and safe drug administration

M Health Fairview

Clinical Pharmacist

Minneapolis, Minnesota November 2022 - March 2025

- Delivered comprehensive pharmaceutical care to high-acuity patient populations, including cardiovascular, oncology, critical care, neuro, emergency, surgical, and transplant patients. Collaborated with interdisciplinary teams to develop individualized medication plans, monitor therapy, and manage complex clinical situations to optimize patient outcomes.

- Performed admission and discharge medication reconciliations and participated in transition-of-care planning to ensure safe and continuous care, particularly for complex transplant cases.
- Prepared and verified IV and chemotherapy medications with strict adherence to safety protocols, working across both centralized and decentralized pharmacy settings.
- Served as Safety Captain, conducting audits of safety recall training, leading patient safety initiatives, and developing educational materials to enhance staff adherence to protocols and reinforce a culture of safety during Daily Engagement Sessions (DES).

Walgreens Pharmacy

Pharmacy Manager July 2022 - May 2023

Excelsior, Minnesota

- Held this position concurrently with a casual clinical pharmacist role at M Health Fairview.
- Led the district in patient care portal calls for Medication Therapy Management (MTM), setting a high standard for patient engagement and comprehensive care.
- Directed and mentored pharmacy staff, including pharmacists and the pharmacy operations manager, promoting team engagement and fostering professional development.
- Managed all aspects of pharmacy operations, including prescription verification, patient counseling, medication dispensing, immunizations, and drug regimen reviews to uphold best practices.

ADDITIONAL WORK EXPERIENCES

Walgreens Pharmacy

Pharmacy Intern

Edina, Minnesota September 2018 – July 2022

- Worked up to 60 hours/week in the busiest 24-hour Walgreens pharmacy in the Southern metropolitan area
- Provided 10-20 immunizations per shift, including COVID-19 vaccinations

United Community Pharmacy

Long Term Care Pharmacy Intern

St. Anthony, Minnesota; November 2019 – July 2022

- Conducted over 500 medication therapy management reviews
- Performed medication reconciliations on over 100 new patients
- Improved drug fill accuracy by 20% by initiating weekly team huddles and team email reminders

Phillips Neighborhood Clinic

Medication Refill Clinician Volunteer

Minneapolis, Minnesota May 2020 – May 2021

- Identified and resolved medication therapy problems

Methodist Hospital

Inpatient Pharmacy Intern

St. Louis Park, Minnesota May 2019 – November 2019

- Checked IV bag mixtures, unit dose fills, and patient's own home medications to improve patient safety

RESEARCH EXPERIENCE

University of Minnesota College of Pharmacy

Dr. Carrie Haskell-Luevano Lab

Minneapolis, Minnesota January 2021 – July 2021

- Synthesized and purified numerous melanocortin-4 receptor analog tetrapeptides that play important roles in obesity and appetite control; work contributed to the J Med Chem publication listed below

Dr. William Elmquist Lab

Minneapolis, Minnesota January 2020 – May 2020

- Created a pharmacokinetic model using the STELLA 9.0 program to explore the parameters that make a drug susceptible to redistribution, including the effects of dialysis and drug redistribution following a hemodialysis session

Dr. Rhonda Farah Lab

Minneapolis, Minnesota September 2018 – May 2019

- Drafted the pharmacokinetic study design for laser-assisted drug delivery of minoxidil and directed the pharmacokinetics portion of the resulting paper

SERVICE AND LEADERSHIP

- P&T Medication Safety Subcommittee, Mayo Clinic | 2025 – Present
- Safety Captain, M Health Fairview | 2022 – 2025

Phillips Neighborhood Clinic (PNC)

Clinic Co-Chair

Minneapolis, Minnesota May 2020 – May 2021

- Facilitated biweekly administrative board meetings with interprofessional team leaders
- Developed a plan to reopen clinic in phases after COVID-19 restrictions
- Managed over 450 clinic volunteers and oversaw training of the clinic leaders

University of Minnesota College of Pharmacy

Education and Policy Committee Representative

Minneapolis, Minnesota September 2018 – May 2022

- Recommended college curriculum changes by being responsible for continuous course review process, policy change regarding curriculum and approvals for new courses

Industry Pharmacists Organization (IPhO)

Regional Officer

Virtual May 2021 – May 2022

- Led onboarding for new chapters across seven states, expanding regional representation.
- Precepted two interns during each of the three yearly eight-week internship cycles, providing mentorship and professional development support.

Clinician Administrator Relationship Improvement Organization (CLARION)

2021 CLARION Operations Co-Chair

Minneapolis, Minnesota May 2020 - May 2021

- Coordinated 2021 CLARION Local Case Competition and 2021 CLARION National Case Competition

TEACHING AND PRECEPTING

Mayo Clinic

Preceptor and Research Mentor

Rochester, Minnesota 2025 – Present

- Precept pharmacy students, providing mentorship, guidance, and education in both clinical and operational settings (average of 2 students per year).
- Mentored a trainee-led multicenter study on isotuximab premedication de-escalation and infusion-related reactions across Mayo Clinic sites, supporting study design, chart review, and abstract, poster, and manuscript preparation. Results were presented at the HOPA Annual Conference (2026) and accepted for the International Myeloma Society Annual Meeting (2026).

M Health Fairview

Preceptor and Research Preceptor

Minneapolis, Minnesota 2022 – 2025

- Served as research preceptor for a residency project on extended-infusion beta-lactam therapy (piperacillin-tazobactam) that contributed to broader discussions on optimizing dosing practices across the system.
- Mentored pharmacy students and residents as a preceptor, fostering clinical skill development and professional growth through practical training and support.
- Coordinated student shadowing experiences as East Bank Shadow Coordinator and served as primary preceptor for shadowing students.

University of Minnesota College of Pharmacy

Pharmacokinetics Teaching Assistant – Course Director: William Elmquist, PhD

Minneapolis, Minnesota August 2020 – December 2020

- Provided office hours and helped students with homework and questions from class; led additional quiz and exam review sessions

Applied Cultural Competence in Patient Care and Pharmacy Practice Teaching Assistant – Course Director: Olihe Okoro, PhD

Minneapolis, Minnesota September 2019 – May 2020

- Helped students learn about cultural competency in healthcare

RESEARCH AND SCHOLARSHIP

Peer-Reviewed Publications

Ericson MD, Tran LT, Mathre SS, Freeman KT, Holdaway K, John K, Lunzer MM, Bouchard JL, Haskell-Luevano C. Discovery of a pan-melanocortin receptor antagonist [Ac-DPhe(pl)-Arg-Nal(2')-Orn-NH₂] at the MC1R, MC3R, MC4R, and MC5R that mediates an increased feeding response in mice and a 40-fold selective MC1R antagonist [Ac-DPhe(pl)-DArg-Nal(2')-Arg-NH₂]. *J Med Chem.* 2023;66(12):8103-8117. doi:10.1021/acs.jmedchem.3c00432

Other Publications (non-peer-reviewed)

James G. Alexander, PharmD, Sarah Mathre, PharmDc, Gwang-Wen J. Hu, PharmDc. Analysis of PharmD Class of 2020 Direct to Industry Jobs; 2020-2021. Industry Pharmacists Organization. Published March 23, 2021. www.industrypharmacists.org/publications.php

James G. Alexander, PharmD, Gwang-Wen J. Hu, PharmDc, Sarah Mathre, PharmDc. Analysis of Direct-To-Industry Jobs Among 2020 PharmD Graduates; 2021. Industry Pharmacists Organization. Published March 31, 2021. www.industrypharmacists.org/publications.php

MANUSCRIPTS IN PREPARATION

Steinke KA, Patel SP, **Mathre SS**, Sanders KA, Soefje SA, Cole KC, Sandahl TB. Impact of premedication de-escalation on the incidence of infusion-related reactions with isatuximab. Manuscript in preparation; target journal: JCO Oncology Practice.

Mathre SS, Siegel LR, Larsen BE, Wood C, Tetlie AE, Wiste RM, Tinder A, Mackey RM. The Impact of Music Therapy on High-Risk Medication Use in an Inpatient Palliative Care Setting. Manuscript in preparation; target journal: Journal of Pain and Symptom Management.

POSTER PRESENTATIONS

Sandahl T, Steinke K, **Mathre S**, Sanders K, Soefje S, Cole K, Patel S. Impact of premedication de-escalation on the incidence of infusion-related reactions with isatuximab. Accepted for poster presentation at: 23rd Annual International Myeloma Society Meeting & Exposition; September 23-26, 2026; Glasgow, Scotland.

Steinke KA, Patel SP, **Mathre SS**, Sanders KA, Soefje SA, Cole KC, Sandahl TB. Impact of premedication de-escalation on the incidence of infusion-related reactions with isatuximab. Poster presented at: 22nd Annual Conference of the Hematology/Oncology Pharmacy Association; March 25-27, 2026; New Orleans, LA.

PRESENTATIONS

Acute Coronary Syndrome

Minneapolis, Minnesota October 7, 2024

- Presented an in-depth review on Acute Coronary Syndrome (ACS), highlighting diagnostic differentiation, pharmacologic management, and reperfusion strategies in STEMI and NSTEMI cases.
- Educated pharmacy team on secondary prevention and patient care post-ACS, emphasizing guideline-directed therapies and lifestyle modifications to improve patient outcomes.

APPE rotation topic discussions and journal clubs

Alomere Hospital, Alexandria, Minnesota 2021

- Presented to pharmacists, technicians, nurses, and medical residents on acute coronary syndrome, acute toxic-metabolic encephalopathy, myositis, myasthenia gravis, dalbavancin, a medication use evaluation of heparin IV dosing, and DOAC use in morbidly obese patients.

Analysis of Direct-To-Industry Jobs Among 2020 PharmD Graduates

Virtual April 3, 2021

- Presented on the publication on "Analysis of Direct-To-Industry Jobs Among 2020 PharmD Graduates" to key opinion leaders in the pharmaceutical industry, including national Industry Pharmacists Organization leadership members

HONORS AND AWARDS

Award of Excellence in Experiential Education - Ambulatory Care

Minneapolis, Minnesota May 2022

- Recognition for performing at a high level in the ambulatory care APPE rotation. Received a pass with high distinction designation.

National Community Oncology Dispensing Association, Inc. Scholarship

Detroit, Michigan August 2021

- Scholarship for all expenses related to attending the 1st Annual NCODA Professional Student Organization Oncology Conference

PROFESSIONAL MEMBERSHIPS

American Pharmacists Association September 2018 – Present

Minnesota Pharmacists Association September 2018 – Present

University of Minnesota Medical Reserve Corps March 2020 – Present

National Community Oncology Dispensing Association, Inc. August 2021 – Present