

CURRICULUM VITAE

Karen J. MacKinnon RPh

**Director, Assistant Professor
Department of School of Pharmacy Administration
Division of Administration**

OFFICE ADDRESS:

Health Research Center
8701 Watertown Plank Rd
Milwaukee, WI 53226

EDUCATION:

09/1985 - 12/1989 B.S., Pharmacy, University of Wisconsin, Madison

POSTGRADUATE TRAINING AND FELLOWSHIP APPOINTMENTS:

01/1990 - 07/1990 Pharmacy Intern, Meriter Hospital, Madison, Wisconsin, 202 S. Park St.
1995 Primary Compounding, Professional Compounding Center of America, Houston, Texas
1999 Aseptic Training, Professional Compounding Center of America, Houston, Texas
2001 CLIA Waived Testing and Microscopic Procedures, Cross Country Seminars, Inc., Phoenix Arizona
2009 - Present BLS Certification
2010 - Present PSW Immunization Certification, Wisconsin
08/19/2015 - Present Community Pharmacy-Based Point-of-Care Testing Certificate Program, NACDS
08/19/2015 - Present Train the Trainer Community Pharmacy-Based Point-of-Care Testing Certificate Program, NACDS
2017 APhA Leadership 360
12/16/2019 - Present Naloxone administration, PSW
04/2021 - Present Pharmacy-Based Immunization Delivery Certification, American Pharmacist Association
04/05/2022 - 04/06/2022 Mental Health Train the Trainer, Pharmacy Society of Wisconsin

FACULTY APPOINTMENTS:

1992 - 1993 Adjunct Instructor of Pharmaceutical Sciences, St. Louis College of Pharmacy, 4588 Parkview Pl, St. Louis, MO 63110
1993 - 1998 Assistant Professor of Pharmacy Practice, Midwestern University, Midwestern University College of Pharmacy - Downers Grove, IL, 555 31st St., Downers Grove, IL 60515
1998 - 2004 Assistant Professor of Pharmaceutical Sciences, Midwestern University College of Pharmacy - Glendale, AZ, 19555 N 59th Ave, Glendale, AZ 85308
2015 - Present Assistant Professor, Medical College of Wisconsin School of Pharmacy, 8701 Watertown Plank Road, Milwaukee, WI 53226

ADMINISTRATIVE APPOINTMENTS:

1998 - 2004 Director of Professional Laboratories, Midwestern University, 19555 N 59th Ave, Glendale, AZ 85308
2010 - 2015 Assistant to Campus Provost for Pharmacy Programs, Roosevelt University, 1400 N Roosevelt Blvd., Schaumburg, IL 60173
2015 - 2018 Director of Experiential Education and Outreach, Medical College of Wisconsin, 8701 Watertown Plank Road, Milwaukee, WI 53226
2018 - Present Director of Outreach, Medical College of Wisconsin, 8701 Watertown Plank Road, Milwaukee, WI 53226
12/2020 - 04/2021 MCW COVID Vaccination Clinic - Clinic Supervision and orientation, Medical College of Wisconsin, 8701 Watertown Plank RD, Milwaukee, WI 53226

EDUCATIONAL ADMINISTRATIVE APPOINTMENTS:

1990 Clinical Pharmacy, Community Relief, Belleville, IL 62212
1991 - 1993 Pharmacy Preceptor, St. Joseph's Hospital, 1515 Troxier Ave, Highland, IL 62249
1991 - 1993 Pharmacy Preceptor, St. Louis University Hospital, 3660 Vista Ave, St. Louis, MO 63110
1991 - 1993 Clinical Pharmacist, St. Joseph's Hospital, 1515 Troxier Ave, Highland, IL 62249
1991 - 1993 Clinical Pharmacist, St. Louis University Hospital, 3660 Vista Ave, St. Louis, MO 63110
2004 - 2009 2012-2015 Clinical Pharmacist, Pharmacy Station, 300 S Pine St, Burlington, WI 53105
2009 - 2012 Clinical Pharmacist, Aurora Healthcare Pharmacy, Paddock Lake, WI 53168

SPECIALTY BOARDS AND CERTIFICATION:

<u>Certificates</u>	<u>Issued By</u>	<u>Issue Date</u>	<u>Expiration</u>
NPI 1265031876		10/20/2020	None

<u>Licensure</u>	<u>Number</u>	<u>Issue Date</u>	<u>Expiration</u>
Illinois	051037964	08/29/1990	03/31/2026
Missouri	043060	03/22/1991	10/31/2024
Arizona	S013013	09/02/2001	10/31/2025
Wisconsin	1430740	11/26/2004	05/31/2026

AWARDS AND HONORS:

2001 Faculty Excellence in Pharmacy, Arizona Pharmacy Association, Rho Chi Society
2003 - 2004 Board of Directors Certificate of Appreciation, Arizona Pharmacy Association
06/11/2021 2021 President's Community Engagement Award, Medical College of Wisconsin

MEMBERSHIPS IN HONORARY AND PROFESSIONAL SOCIETIES:

1987 - Present Phi Delta Chi Professional Pharmacy Fraternity
1993 - Present American Association of Colleges of Pharmacy
1993 - Present American Society of Health-Systems Pharmacists
1993 - 2004 Professional Compounding Centers of America
1999 - 2004 Arizona Pharmacy Association (Foundation Board and Editorial Board)
2009 - Present Pharmacy Society of Wisconsin
2015 - Present American Pharmacist Association
2017 - Present Pharmacy Society of Wisconsin (Advocacy Council Member)
2017 - Present National Association of Boards of Pharmacy, Multistate Pharmacy Jurisprudence Examination (Wisconsin Item Reviewer)
2018 - Present American Pharmacist Association (Wisconsin Delegate)

EDITORSHIPS/EDITORIAL BOARDS/JOURNAL REVIEWS:

Editorial Board
1999 - 2004 Arizona Pharmacy Association, Editorial Board
Journal Review
2002 Sterile Product Preparation, A Multimedia Learning Tool, American Society of Health-Systems Pharmacists

LOCAL/REGIONAL APPOINTED LEADERSHIP AND COMMITTEE POSITIONS:

01/01/2019 - 06/30/2022 Member, Expanding Immunization Access in Wisconsin Project Steering, Pharmacy Society of Wisconsin
03/01/2019 - 12/31/2030 Member, Student Pharmacist Advisory Committee, Pharmacy Society of Wisconsin

NATIONAL ELECTED/APPOINTED LEADERSHIP AND COMMITTEE POSITIONS:

07/01/2021 - Present Influenza 360 Vaccine Study Leadership Section
01/01/2022 - Present Director, Vaccination Advancement 360, Rapid Alliance

RESEARCH GRANTS/AWARDS/CONTRACTS/PROJECTS:

Active**Peer Review**

Title: Promoting Wisconsin Influenza Vaccine
Equity Through Pharmacy Engagement
Source: Wisconsin Pharmacy Foundation
Role: Co-Investigator
PI: Rebecca Bernstein
Dates: 07/01/2022 - 12/31/2023
Direct Funds: \$200,000

Non-Peer Review

Title: Expanding Immunization Access in
Wisconsin
Source: Advancing a Healthier Wisconsin
Role: Investigator
Dates: 01/01/2018 - 07/01/2020
Direct Funds: \$489,121 (total for all years)

Prior**Peer Review**

Title: Innovative Pharmacy Practice Initiatives
Source: McKesson HBOC Foundation
Role: Investigator
Dates: 2001 - 2002
Direct Funds: \$10,000

INVITED LECTURES/WORKSHOPS/PRESENTATIONS:**Local**

K.J. MacKinnon, Desai, A, Usayapant, Calculations Board Review, Midwestern University College of Pharmacy - Downers Grove, Illinois, 1996

K.J. MacKinnon, MCW School of Pharmacy Interprofessional Education Program Overview, AHEC, Madison, WI, 11/2016

K.J. MacKinnon, MCW School of Pharmacy Interprofessional Education Program Overview, Pharmacy Society of Wisconsin Educational Conference, Madison, WI, 04/2017

Sue Korek, K MacKinnon, Rodney Ramos, Using Simulaiton to Promote Collaboration Between Pharmacy and Medical Interpreter Students, Pharmacy Society of Wisconsin Annual Meeting, La Cross, WI, 09/2017

Korek S, MacKinnon K, Ramos R., Increasing Pharmacy Students' Knowledge of Medical Interpretation: Early Collaboration with Medical Interpreter Students, Pharmacy Society of Wisconsin Annual Meeting, Wisconsin Dells, WI, 08/2018

Sorum S, Martin E, Hayney M, Lewinston S, Pabian I, MacKinnon K, Financial Barriers for Pharmacy-Based Immunization Services, Pharmacy Society of Wisconsin Annual Meeting, Wisconsin Dells, WI, 08/2018

K MacKinnon, S Sorum, E Martin, M Hayney, S Lewiston, I Pabian, Barriers for Pharmacy-based Immunization Services, Medical College of Wisconsin, Milwaukee, WI, 09/2018

National

Sue Korek, Karen MacKinnon, Rachel Kavanaugh, etc, Strategically Integrating the Biopharmaceutical and Clinical Sciences in the IPE3 Program at a New School of Pharmacy, AACP Poster Presentation, Boston, MA, 07/2018

Karen MacKinnon, George MacKinnon, Primary care pharmacist providers (PCPPs): preparing pharmacists to meet this opportunity, APhA Annual Meeting, Poster presentation, Seattle, WA, 03/23/2019 - 03/24/2019

Abir El-Alfy, Erin Walcheske, Joel Spiess, Karen MacKinnon, etc, Unlocking the Power of Reflections to

Implement a Longitudinal Co-curriculum in an Accelerated Pharmacy Program, AACP Annual Meeting Poster Presentation, Chicago, IL, 07/2019
Karen MacKinnon, BPharm, Preparing pharmacists to provide primary care pharmacy services: through a physical assessment training program, APhA Annual Meeting**, Washington DC, 03/20/2020 - 03/22/2020
George E. MacKinnon III, PhD, MS, RPh, Karen MacKinnon, BPharm, Comparison of Wisconsin Healthcare Providers and Pharmacists Attitudes Towards Vaccine Administration and Perceived Barriers, APhA Annual Meeting ** Poster presentation, Washington DC, 03/20/2020 - 03/22/2020
George E. MacKinnon III, PhD, MS, RPh, Karen MacKinnon, BPharm, RPh, Sarah Sorum, PharmD, Inez Pabian, PharmD Candidate, Erica Martin, Rebecca Bernstein, MD, MS, Comparison of Wisconsin Healthcare Providers and Pharmacists Attitudes Towards Vaccine Administration and Perceived Barriers, APhA Annual Meeting, Poster presentation, Washington D.C., 03/20/2020 - 03/23/2020

International

K.J. MacKinnon., Enhancing Individual Care through Pharmaceutical Delivery Systems, University at Sea, Multiple, 2002 - 2003
K.J. MacKinnon, Contemporary Topics in Pharmacy, University at Sea, Multiple, 2004 - 2005
K.J. MacKinnon, Topics in Pharmacy Practice for Primary Care Physicians, University at Sea, Multiple, 2006 - 2007
K.J. MacKinnon, Update on the Use of Pharmaceuticals for Health Care Providers, University at Sea, Multiple, 2008 - Present

COMMITTEE SERVICE:

Medical College of Wisconsin

2015 - 2017 Committee Member, Curriculum Committee
2015 - 2017 Committee Member, Executive Council
2015 - Present MCW School of Pharmacy Flu Champion
2016 - 2017 Search Committee Member, Coordinator of Scholarly Pathways
2016 - 2017 Search Committee Chair, Program Manager for Interprofessional Education
2016 Search Committee Member, Co-Director of Professional Labs
2016 - 2018 Committee Member, Interprofessional Education Steering Committee
2016 - 2017 Search Committee Chair, Assistant Director of Experiential Education
2016 - Present WI Pharmacy Examining Board delegate
2017 - Present member, PSW Advocacy Council
2017 - Present APhA WI delegate
2017 Search Committee Member, Laboratory Technician
2018 - Present Committee Member, Assessment Committee
2018 - Present Faculty Representative, PSW Liason
2018 Testimony for Expansion of Pharmacist Immunization Authority to Assembly Committee on Health, Pharmacy Advocacy
2018 - Present member, MCW CE Committee
2018 - Present member, Co-Curricular
03/03/2020 Testimony for Updating School Age Immunization Recommendations to Committee on Constitution and Ethics, Pharmacy Advocacy
09/01/2020 - Present Co-Chair, MCW IPE Steering committee, MCW

MEDICAL COLLEGE TEACHING ACTIVITIES:

Pharmacy Student Education

2017 Introduction to Pharmacy Practice, Course Director
2017 Introductory of Pharmacy Practice I, Course Director
01/2018 - 04/2018 Career Pathways Program lead
01/2018 - 04/2018 Introductory of Pharmacy Practice II, Course Director
09/01/2018 - Present Patient Care Lab Facilitator - Year #1
2018 - Present Pharmaceutics II Instructor
2018 - Present Pharmaceutics I Instructor

EXTRAMURAL TEACHING:**Pharmacy Student Education**

1991 - 1993 St. Joseph's Hospital, Highland, IL, Pharmacy Preceptor
1991 - 1993 St. Louis University Hospital, St. Louis, MO, Pharmacy Preceptor
1992 - 1993 Saint Louis College of Pharmacy, St. Louis, MO 63110, Instructor of Pharmaceutical Sciences
1993 - 1998 Midwestern University School of Pharmacy - Downers Grove, IL, Assistant Professor of Pharmacy Practice
1993 - 1998 Midwestern University School of Pharmacy - Downers Grove, IL, Applied Pharmaceutical Care II and III, Course Coordinator
1993 - 1998 Midwestern University School of Pharmacy - Downers Grove, IL, Pharmaceutics II, Instructor
1993 - 1998 Midwestern University School of Pharmacy - Downers Grove, IL, Applied Pharmaceutical Care I, Instructor
1993 - 1998 Midwestern University School of Pharmacy - Downers Grove, IL, Contemporary Compounding, Instructor
1995 - 1998 Midwestern University School of Pharmacy - Downers Grove, IL, Introduction to Teaching, Course Coordinator
1995 - 1998 Midwestern University College of Pharmacy- Downers Grove, IL, Pharmacy Preceptor
1998 - 2004 Medical College of WisconsinMidwestern University School of Pharmacy - Glendale, AZ, Pharmaceutics I Instructor
1998 - 2004 Midwestern University School of Pharmacy - Glendale, AZ, Applied Pharmaceutical Care, Course Coordinator
1999 - 2004 Midwestern University School of Pharmacy - Glendale, AZ, Contemporary Compounding, Course Coordinator
2000 Midwestern University School of Pharmacy - Glendale, AZ, Wellness, Prevention, and Disease Management, Course Coordinator
2001 - 2002 Midwestern University School of Pharmacy - Glendale, AZ, Pharmaceutics II, Course Coordinator
2002 - 2004 Midwestern University School of Pharmacy - Glendale, AZ, Pharmaceutics I and II, Instructor
2002 - 2004 Midwestern University School of Pharmacy - Glendale, AZ, Applied Pharmaceutical Care II, Instructor

PROGRAMMATIC DEVELOPMENTS:**Community Programs**

2016 - 2017 Pharmacy as a Career, High School Educational Program

COMMUNITY SERVICE ACTIVITIES:

02/2017 Opioid Abuse, Radio Interview
03/2017 Forged Prescription Video
04/01/2019 - Present Member, Southern Wisconsin Immunization Consortium Wisconsin Immunization Neighborhood, Rural Wisconsin Healthy Cooperative programs
04/01/2019 - Present Member, MKE Flu Vaccinator Support Network
04/11/2019 Immunization advocacy, Steve Scaffidi radio show
06/01/2020 - Present MKE COVID Vaccinator Support Network Member
01/07/2021 Interview with Wisconsin Public Radio on COVID vaccinations in the rural communities.
02/01/2021 Drug Topics interviewer Focused on student-administered COVID-19 vaccines and training at MCW
02/10/2021 Provided consult to AMI Director Dean Coppola on implementation of COVID vaccination clinics in Wisconsin
12/02/2022 Vaccinatinos News Conference WUWM/WTMJ-4/WISN-12
12/28/2022 WISN - 12 Focus on limited OTC medications with children and alternative medicines especially

during the RSV, Flu, and COVID recent outbreaks
 12/28/2022 WTMJ-4 Focus on limited OTC medications with children and alternative medicines especially during the RSV, Flu, and COVID recent outbreaks
 12/28/2022 WUWM Focus on limited OTC medications with children and alternative medicines especially during the RSV, Flu, and COVID recent outbreaks

BIBLIOGRAPHY

Refereed Journal Publications/Original Papers

1. Singla DL, MacKinnon GE, MacKinnon KJ, Younis WS, Field B. An interdisciplinary approach to teaching medication adherence to pharmacy and medical students. *Journal of the American Osteopathic Association* 2004;104:127-132.
2. Collective Action: The Medical College of Wisconsin COVID-19 Vaccination Program Ashleigh M. Sanchez, MA; Kristin Busse, PharmD; Karen MacKinnon, BPharm; Lisa Henk, MS; George E. MacKinnon, PhD; Jennifer Brown, BS; Susan Mauermann, RN; Teresa Dobrowski; Jayne Jungmann; Jennifer Bultman, BS, PMP; Siddhartha Singh, MD; Ann B. Nattinger, MD, MPH WMJ. 2021;120(4):305-308.
3. Desai A, Usayapant, MacKinnon KJ. Integration of Pharmaceuticals and Pharmacy Practice in Teaching an Elective Course in Contemporary Compounding 1998 *Journal of Pharmacy Teaching*, Vol. 6, No. 4.
4. Lewiston, Martin, Bertein, Schellhas, MacKinnon KJ, MacKinnon GE, and Sorum. Expanding Immunization Access in Wisconsin Community Pharmacies. *J Pharm Soc Wis.* 2018;21(5): 8-11.
5. Singla DL, MacKinnon GE 3rd, MacKinnon KJ, Younis W, Field B. Interdisciplinary approach to teaching medication adherence to pharmacy and osteopathic medical students. *J Am Osteopath Assoc.* 2004 Mar;104(3):127-32.
6. Berce PC, Bernstein RS, MacKinnon GE, Sorum S, Martin E, MacKinnon KJ, Rein LE, Schellhase KG. Immunizations at Wisconsin Pharmacies: Results of a statewide vaccine registry analysis and pharmacist survey. *Vaccine.* 2020 Jun 09;38(28):4448-4456.
7. George E. MacKinnon III, PhD, MS, RPh; Inez Pabian, PharmD; Karen J. MacKinnon, BPharm, RPh; Sarah E. Sorum, PharmD; Erica Martin, BS; Rebecca S. Bernstein, MD, MS; Lisa E. Rein, ScM; Kenneth Schellhase, MD, MPH Comparison of Attitudes of Wisconsin Health Care Providers and Pharmacists Toward Vaccine Administration and Perceived Barriers
8. MacKinnon GE 3rd, Pabian I, MacKinnon KJ, Sorum SE, Martin E, Bernstein RS, Rein LE, Schellhase K. Comparison of Attitudes of Wisconsin Health Care Providers and Pharmacists Toward Vaccine Administration and Perceived Barriers. *WMJ.* 2020 Sep;119(3):151-157.
9. MacKinnon GE 3rd, Theobald J, Seckel E, MacKinnon KJ, Lamberton N, Velazquez DV. Implementation and evaluation of an interprofessional physical assessment skills workshop for Wisconsin pharmacists. *J Am Pharm Assoc* (2003). 2021;61(4):e249-e254.
10. Spiess JP, Walcheske E, MacKinnon GE, MacKinnon KJ. Survey of Pass/Fail Grading Systems in US Doctor of Pharmacy Degree Programs. *Am J Pharm Educ.* 2022 Jan;86(1):8520. PMID: PMC8787175
11. Comparison of EMERPHED[®] (Ephedrine Sulfate) Injection with Current Concentrated Ephedrine Products in Simulated Clinical Settings
12. Sanchez AM, Busse K, MacKinnon K, Henk L, MacKinnon GE, Brown J, Mauermann S, Dobrowski T, Jungmann J, Bultman J, Singh S, Nattinger AB. Collective Action: The Medical College of Wisconsin COVID-19 Vaccination Program. *WMJ.* 2021 Dec;120(4):305-308.