

MELISSA S. WONG, MD, MSHS

CURRICULUM VITAE

(4/152026)

PROFESSIONAL CONTACT INFORMATION

Business Address: Cedars-Sinai Health Sciences University
Department of Obstetrics and Gynecology
8700 Beverly Boulevard, Suite 280W
Los Angeles, CA 90048

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EDUCATION:

8/1999 – 8/2001 **The University of Texas at Austin**
Austin, TX
Bachelor of Arts (transferred)

8/2001 – 6/2003 **Columbia University**
New York, NY
Bachelor of Arts, Classics (Latin and Ancient Greek)
Cum laude

8/2004 – 5/2008 **The University of Texas Southwestern Medical Center**
Dallas, TX
Doctor of Medicine (M.D.)

7/2008 – 5/2012 **The University of Chicago Medical Center**
Chicago, IL
Residency, Obstetrics and Gynecology
Chief Resident, 2011-2012

9/2013 – 5/2014 **Cedars-Sinai Medical Staff Leadership Development Program**
Los Angeles, CA

9/2013 – 10/2015 **UCLA Medical Education Fellowship**
Los Angeles, CA

1/2015 – 2/2016 **APGO Academic Scholars and Leaders Program**
Los Angeles, CA

- 1/2015 – 5/2019 **Cedars-Sinai Medical Center**
Los Angeles, CA
Masters in Health Systems Science (M.S.D.S.)
*Thesis: Using Artificial Intelligence and Machine Learning to Develop
Real-Time Labor Predictions*
- 8/2016 – 7/2019 **Cedars-Sinai Medical Center**
Los Angeles, CA
Fellowship, Maternal-Fetal Medicine
- 7/2023 - 6/2025 **UCLA CTSI K Scholars Society**
UCLA David Geffen School of Medicine
- 9/2025 - 6/2026 **Optimizing Advancement of Wise Leaders (OaWL)**
Cedars-Sinai Health Sciences University

LICENSURE:

- 2012 – California - A121495

BOARD CERTIFICATION:

- 2016 – American Board of Obstetrics and Gynecology
Obstetrics and Gynecology
- 2022 – American Board of Obstetrics and Gynecology
Maternal-Fetal Medicine
- 2026 – American Board of Preventive Medicine
Clinical Informatics

PROFESSIONAL EXPERIENCE:

Present Position:

- 2019 – **Staff Physician I, Maternal-Fetal Medicine**
Department of Obstetrics and Gynecology
Cedars-Sinai Medical Center
- 2019 - **Physician Leader, Enterprise Information Services**
Cedars-Sinai Medical Center
- 7/2021- **Assistant Professor, Clinical Scholar Track**
Department of Obstetrics and Gynecology
Cedars-Sinai Medical Center
- 7/2022- **EIS Physician Leader, Enterprise Information**
Huntington Hospital

8/2022 - **Staff Scientist**
The National Institutes of Health (NIH)
Office of Research on Women's Health (ORWH)
Clinical Research Section

2024 – **Director, Informatics and Artificial Intelligence Strategies**
Assistant Professor, Division of Maternal-Fetal Medicine
Department of Obstetrics and Gynecology

Previous Position:

2011 – 2012 **Chief Resident**
University of Chicago Medical Center
Chicago, IL

2012 – 2016 **Generalist, Obstetrics and Gynecology**
Cedars-Sinai Medical Group
Los Angeles, CA

2012 – 2016 **Assistant Clinical Professor**
David Geffen School of Medicine, UCLA

2013 – 2016 **Associate Residency Program Director**
Cedars-Sinai Medical Center
Los Angeles, CA

PROFESSIONAL ACTIVITIES:

Committee Services:

CSMC:

2014 – 2016 Co-Chair, Medical Staff Leadership Development
2014 – 2016 MD/RN Collaborative Committee
2016 – 2017 Education Innovation Council
2017 – CS-Link (Epic) Inpatient User Group
2018 – CLEAR (Epic) Outpatient User Group
2019 – CS-Link (Epic) Video Visits Advisory Group
2020 – Health Information / Utilization Management Committee
2020 – 2023 Simulation Center Education Committee
2020 – Cedars-Sinai Accelerator Selection Committee
2021 – 2022 Medical Staff Leadership Development Planning Committee
2024 – Artificial Intelligence Physician Advisory Council
2024 – Artificial Intelligence Program Review Committee

Department of Obstetrics and Gynecology:

2014 – 2016 Clinical Competency Committee for Residency Program
2014 – 2016 Program Evaluation Committee for Residency Program
2014 – 2017 Obstetrics and Gynecology Peer Review Committee
2019 – Maternal-Fetal Medicine Clinical Competency Committee
2019 – Maternal-Fetal Medicine Program Review Committee
2022 – OBGYN Residency Program Clinical Competency Committee
2023 OBGYN Cedars Annual Film Festival Participant

Other Committee Services:**National**

2016 – 2019	Association of Professors of Gynecology and Obstetrics Technology Committee
2017 – 2019	Society for Maternal-Fetal Medicine (SMFM) & American Institute of Ultrasound in Medicine Fellows Ultrasound Curriculum Committee
2018 –	American Journal of Obstetrics and Gynecology Social Media Committee
2019 – 2022	SMFM Clinical Informatics Committee Clinical Content Subcommittee
2020	ACOG Collective Action Addressing Racism Inclusive Excellence Subcommittee, SMFM Representative
2020 – 2022	Womxns Health Collaborative Executive Committee
2020 – 2022	SMFM Clinical Informatics Committee Data and Analytics Subcommittee Chair: 2022
2021 – 2024	SMFM Diversity and Inclusion Committee
2022 –	NHLBI ENRICH Steering Committee
2023 –	NHLBI IMPROVE-CIP Technical Advisor
2024 –	SMFM Clinical Informatics Committee Vice Chair

Regional/Local

2015 – 2019	ACOG District IX Committee on Health Care for Underserved Women
2018 – 2019	ACOG District IX Communications and Technology Committee
2015 – 2020	March of Dimes Regional Conference Planning Committee

Professional Associations/Society Memberships:

2004 – 2008	Texas Medical Association/American Medical Association
2008 –	American College of Obstetricians and Gynecologists (ACOG)
2009 –	Gold Humanism Foundation
2010 –	Alpha Omega Alpha
2012 –	Association of Professors of Gynecology and Obstetrics
2014 – 2016	Society for Academic Specialists in General Obstetrics and Gynecology
2016 –	Society for Maternal-Fetal Medicine

Editorial Services:**Peer Reviewer**

2016 –	American Journal of Obstetrics and Gynecology
2018 –	Birth
2019 –	Annals of Internal Medicine

Editorial Advisory Board

2023 –	Editorial Advisory Board of JMXR
2024 –	Editorial Board of Nature Partner Journals (npj) Health Systems

Deputy Editor

2025 –

American Journal of Obstetrics and Gynecology, Maternal-Fetal
Medicine

HONORS AND SPECIAL AWARDS:

- 2009, 2010, 2012 **Arnold P. Gold Humanism and Excellence in Teaching Award**
The University of Chicago Medical Center
- 2009, 2010, 2011 **Council on Resident Education in Obstetrics and Gynecology
(CREOG) High Score**
Award received three times, The University of Chicago Medical Center
- 2009, 2010, 2011, 2012 **OB/GYN Departmental Resident Teaching Award**
Award received four times. The University of Chicago Medical Center
- 2010 **Alpha Omega Alpha**
Three residents chosen for induction by 4th year AOA members
- 2011 **Hilger Perry Jenkins Award**
One resident chosen for induction by 4th year medical students
- 2014 **3 South Obstetrician of the Year Award**
Cedars-Sinai Medical Center
- 2015 **2nd Place, Oral Presentation**
Saad C, Kim DS, Solnik MJ, Metcalfe-Smith R, **Wong M.** Laparoscopic
Vascular Injury Simulation for Gynecology Residents. CREOG and
APGO Annual Meeting
- 2015 **3rd Place, Oral Presentation**
Wong, M, Harwood B. Electronic Point of Care Evaluations Result in
Improvement in Nursing Evaluation of Residents. CREOG and APGO
Annual Meeting
- 2016 **2nd Place, Oral Presentation**
Wong, M. A Perceptual Adaptive Learning Module Results in Improved
Fetal Heart Rate Categorization. CREOG and APGO Annual Meeting
- 2019 **1st Place, Poster Presentation**
Wield A, **Wong MS,** Rimel BJ. Use of a Perceptual Adaptive Learning
Module (PALM) to enhance colposcopy education: optimizing training
methods to prepare OBGYN residents for entry into clinical practice.
Cedars-Sinai GME Patient Safety/Quality Improvement Day
- 2019 **1st Place, Resident Research Presentation**
Wield A, **Wong MS,** Rimel BJ. Use of a Perceptual Adaptive Learning
Module (PALM) to enhance colposcopy education: optimizing training

methods to prepare OBGYN residents for entry into clinical practice.
Cedars-Sinai OB/GYN Resident Research Day

- 2019 **Cedars-Sinai Obstetrics and Gynecology Graduating Teaching Fellow Award**
One fellow chosen among subspecialties by OB/GYN residents for excellence in resident teaching
- 2019 **William N. P. Herbert Association of Professors of Gynecology (APGO) and Obstetrics Promising Educator Award**
One award recipient chosen by APGO selection committee nationwide who is identified as having potential as a future leader in women's health care education
- 2020 **Society for Maternal-Fetal Medicine Oral Plenary Award**
"Virtual Reality Reduces Pain in Laboring Women: A Randomized Controlled Trial"
- 2021 **Society for Maternal-Fetal Medicine Oral Concurrent Award**
"EHR phenotyping by Natural Language Processing improves detection of patients at risk for preeclampsia"
- 2014, 2021, 2025 **Association of Professors of Gynecology and Obstetrics (APGO) Excellence in Teaching Award**
- 2013, 2014, 2022 **Cedars-Sinai Golden Apple Faculty Teaching Award**
Awarded by the residents of the OB/GYN Department
- 2023 **2023 NIH Director's Award**
Department of Health and Human Services
National Institutes of Health, Bethesda Maryland
- 2025 **Society for Maternal-Fetal Medicine Oral Concurrent Award**
"Elimination of a threefold racial disparity in aspirin recommendation using integrated clinical decision support"

RESEARCH GRANTS AND FELLOWSHIPS RECEIVED:

Active

The Foundation for SMFM and American Association of Obstetricians and Gynecologists Foundation
Using Artificial Intelligence (Machine Learning) to Build an Integrated Real-Time Delivery Predictor
\$360,000 7/1/2023 – 6/30/2026 Wong (PI), Bui (Primary Mentor)

Inactive/Completed:

APGO Medical Education Endowment Fund

Innovations in Health Systems Science

The overall goal of our curriculum is to educate our learners in the theories of health systems science as well as providing them with several practical tools for applying these principles to their own patients, hospitals, and communities.

\$15,000 8/1/2018 – 8/1/2019 Wong (PI)

Cedars-Sinai Center for Research in Women's Health and Sex Differences (CREWHS)

MAGNOLIA: Maternal GeNetics and serOLogy as predictors of IBD Activity during pregnancy

The goal of this study is to determine if there are genetic, serologic or clinical characteristics that differ in IBD patients with a history of pregnancy that develop adverse disease or pregnancy outcomes compared to IBD patients with a history of pregnancy who do not develop adverse disease or pregnancy outcomes.

\$30,000 5/1/2019 – 5/1/2020 Bonthala (PI), Wong (Co-Investigator)

The Foundation for SMFM Garite Mini-Sabbatical Grants Committee

Using tocometry data to predict spontaneous preterm birth

Advancing equitable and optimal pregnancy care through research and education.

\$3,600 6/1/2023 – 6/30/2023 Mo (awardee), Wong (Mentor)

SUBMITTED GRANTS

National Institutes of Health

RSV Vaccination Uptake and Safety Among Pregnant and Postpartum Populations

Submitted 3/2024 Gonzalez-Hernandez (MPI), Wong (MPI)

National Institutes of Health

DREAM Grant: Improve the accuracy of Preterm Birth predictions and reduce disparities across racial and ethnic groups by integrating AutoML with bias mitigation techniques.

\$4,052,551.00 Submitted 3/2025 Bright (PI), Wong (Co-I)

Gates Foundation

GAIA: Generative Artificial Intelligence for Individualized Antepartum Assessment

\$150,000 Submitted 4/2025 Wong (PI), Gonzalez-Hernandez (Co-I)

CREWHS Foundation

RSV Vaccination Uptake and Safety Among Pregnant and Postpartum Populations

\$65,000 Submitted 5/2025 Wong (PI), Gonzalez-Hernandez (Co-I)

INVITED LECTURES AND PRESENTATIONS:

1. Operative Vaginal Delivery: Quo Vadis? 70th Ob/Gyn Assembly of Southern California. May 09, 2015.
2. Operative Vaginal Delivery: Quo Vadis? Olive View - UCLA Medical Center. December 11, 2015.
3. Implementation of Electronic Point of Care Evaluations for Milestones Assessment - A Year in Review. Roundtable Session, CREOG and APGO Annual Meeting, New Orleans, 2016.

4. Operative Vaginal Delivery: Quo Vadis? Roundtable, American College of Obstetricians and Gynecologists. May 15, 2016.
5. Do You Believe in Magic? Using Technology to Enhance Learning. Breakout Session, CREOG and APGO Annual Meeting, Orlando, 2017.
6. Fetal Heart Tracing Review. Symposia Medicus, Big Island, 2017.
7. Updates in Cervical Cancer Screening and Management. Symposia Medicus, Big Island, 2017.
8. Trauma in Pregnancy. Symposia Medicus, Big Island, 2017.
9. Fetal Heart Tracing Review. Symposia Medicus, Big Island, 2017.
10. Teaching Millennials: Using Technology to Enhance Learning. University of Washington Grand Rounds, Seattle, 2018.
11. Tranexamic Acid, Tamponade, and Thromboprophylaxis: New Considerations for Postpartum Hemorrhage in 2018. Olive View - UCLA Medical Center, 2018.
12. Updates in Cervical Cancer Screening and Management. Symposia Medicus, San Francisco, September 20, 2018.
13. Trauma in Pregnancy. Symposia Medicus, San Francisco, September 20, 2018.
14. Tranexamic Acid, Tamponade, and Thromboprophylaxis New Considerations for Postpartum Hemorrhage in 2018. Symposia Medicus, San Francisco, September 20, 2018.
15. Reflecting on Wipeouts: A M&M Healthcare Matrix to Teach Health Systems Thinking. Association of Professors of Gynecology and Obstetrics Faculty Development Seminar. January 7, 2019.
16. Virtuo-Birthing: Experiences Using Virtual Reality for Pregnant Women. Virtual Medicine Conference, Cedars-Sinai Medical Center. Los Angeles, March 28, 2019.
17. Act FAST: An Evidence-Based Approach to Trauma in Pregnancy. Symposia Medicus, Maui, HI, March 11, 2020.
18. Operative Vaginal Delivery: Quo Vadis? Symposia Medicus, Maui, HI, March 11, 2020.
19. Tranexamic Acid, Tamponade, and Thromboprophylaxis: New Considerations for Postpartum Hemorrhage in 2020. Symposia Medicus, Maui, HI, March 11, 2020.
20. Fetal Heart Rate Tracing Review. Symposia Medicus, Maui, HI, March 11, 2020.
21. Is Medical VR Ready for Prime Time? Virtual Medicine Conference, March 25, 2020. Canceled for COVID-19 pandemic.
22. The Obstetrics Innovation Network: Artificial Intelligence in Obstetrics. Scientific Forum, Society for Maternal-Fetal Medicine Annual Meeting (virtual). January 2021.

23. Building a Better Bishop: Using AI / Machine Learning to Predict Cesarean Delivery. AIMed: Surgery, ICU, and Neurosciences (virtual) Conference. March 31, 2021.
24. Virtuo-Birthing: Experiences Using Virtual Reality for Pregnant Women. Meet the Experts Series. ACOG Annual Meeting (virtual). April 2021.
25. Operative Vaginal Delivery: Quo Vadis? Clinical Seminar. ACOG Annual Meeting (virtual). April 2021.
26. Virtuo-Birthing: Experiences Using Virtual Reality for Pregnant Women. Interface Health Women's Summit (virtual). May 20, 2021.
27. Antepartum Fetal Surveillance. Virtual FOGSI (Federation of OBGYN Society of India)/ACOG California District IX Postgraduate Academic Exchange Program. (virtual) October 5, 2021.
28. Data Bias, Disparities, and the Machine: A Birth Story. PH Health Good Samaritan Hospital Grand Rounds, October 6, 2021. (virtual)
29. Virtuo Birthing: Its Role. Mexican Federation of Colleagues in Obstetrics and Gynecology (FEMECOG) Virtual Congress. October 18, 2021.
30. Virtuo-birthing: Experiences Using VR in Pregnancy. Hospital of the University of Pennsylvania, Department of Obstetrics and Gynecology Grand Rounds. November 4, 2021. (virtual)
31. Data Bias, Disparities, and the Machine: A Birth Story. Humboldt-Del Norte Consortium for CME. November 4, 2021. (virtual)
32. Data Bias, Disparities, and the Machine: A Birth Story. South Coast Global Medical Center, November 9, 2021. (virtual)
33. March of Dimes, Prematurity Awareness Month Webinar, It Takes a Village; Supporting Families Impacted by Preterm Birth: Panelist. November 19, 2021. (virtual)
34. Data Bias, Disparities, and the Machine: A Birth Story. Sharp Healthcare CME Department Grand Rounds. April 14, 2022. (virtual)
35. Data Bias, Disparities, and the Machine: A Birth Story. Providence Little Company of Mary Hospital Torrance. May 5, 2022.
36. Technology and Obstetrics: How New Interventions Can Improve Perinatal Outcomes. EdTalk Invited Speaker, ACOG Annual Clinical Meeting. May 6, 2022.
37. Act FAST: An Evidence-Based Approach to Trauma in Pregnancy. Invited Faculty, 27th Annual Conference on High Risk & Critical Care Obstetrics, San Francisco, CA, May 19, 2022.
38. Tranexamic Acid, Tamponade, and Thromboprophylaxis: New Considerations for Postpartum Hemorrhage. Invited Faculty, 27th Annual Conference on High Risk & Critical Care Obstetrics, San Francisco, CA, May 20, 2022.

39. Operative Vaginal Delivery: Quo Vadis . Invited Faculty, 27th Annual Conference on High Risk & Critical Care Obstetrics, San Francisco, CA, May 21, 2022.
40. Data Bias, Disparities, and the Machine: A Birth Story. SMFM MFM Fellow Lecture Series, August 17, 2022. (virtual)
41. Data Bias, Disparities, and the Machine: A Birth Story. University of Chicago Obstetrics and Gynecology Grand Rounds, October 7, 2022. (virtual)
42. Data Bias, Disparities, and the Machine: A Birth Story. Oroville Hospital. October 12, 2022. (virtual)
43. Health Disparities. BronxCare Health System, November 4, 2022. (virtual)
44. Data Bias, Disparities, and the Machine: A Birth Story. Providence Little Company of Mary Hospital Torrance. November 3, 2022. (virtual)
45. Virtuo-Birthing: Experiences Using VR in Labor. Indiana University School of Medicine OBGYN Grand Rounds, November 30, 2022.
46. Data and Analytics: Putting Better Data in to Get Better Data Out. 43rd Annual Pregnancy Meeting, Society for Maternal-Fetal Medicine, San Francisco, CA. February 8, 2023.
47. Machine Learning and AI. 43rd Annual Pregnancy Meeting, Society for Maternal-Fetal Medicine, San Francisco, CA. February 8, 2023.
48. Technology Interventions in Obstetrics: From Development to Implementation, Roundtable Leader. 43rd Annual Pregnancy Meeting, Society for Maternal-Fetal Medicine, San Francisco, CA. February 10, 2023.
49. Invited Panelist - Integrating MedTech into Healthcare: Perspectives from Clinicians. The ABCs of MedTech Design and Commercialization. BioscienceLA #LAMedTechWeek. Culver City, CA and virtual. February 27, 2023.
50. Updates in FHR for 2023. 30th Annual Spring Conference on High Risk Obstetrics, Oahu, Hawaii. March 8, 2023.
51. New Considerations for Postpartum Hemorrhage. 30th Annual Spring Conference on High Risk Obstetrics, Oahu, Hawaii. March 10, 2023.
52. Trauma In Pregnancy: An Evidence-Based Approach. 30th Annual Spring Conference on High Risk Obstetrics, Oahu, Hawaii. March 11, 2023.
53. Operative Vaginal Delivery: Quo Vadis. 30th Annual Spring Conference on High Risk Obstetrics, Oahu, Hawaii. March 11, 2023.
54. Data bias, disparities, and the Machine: A Birth Story. Grand Rounds. Richmond University Medical Center (Staten Island, NY). April 6, 2023.

55. Dr. Ken Noller Endowed Lecturer, Society of Academic Specialists in General Obstetrics and Gynecology (SASGOG) 2023 Annual Meeting. The Future of the Academic Specialist. Baltimore, Maryland, May 17, 2023.
56. Genetics/AI/Big Data: Impact on Maternal and Child Health. National Academy of Medicine. October 8, 2023.
57. Artificial Intelligence in Obstetrics and Gynecology. Endowed lecture. 48th Annual Washington University Obstetrics and Gynecology Symposium. October 19, 2023.
58. Artificial Intelligence in Obstetrics: A Birth Story. Google Research Women. Jan 24, 2024.
59. SMFM 2024: Clinical Informatics and Emerging Technology with Impact on MFM Care. February 12-14, 2024. Course Co-Director.
60. Application of Machine learning, AI and Chatbot in Obstetrics. Society for Maternal Fetal Medicine Pregnancy Meeting in National Harbor. February 12, 2024.
61. Artificial Intelligence and OB. Grand Rounds Presentation. Rutgers Robert Wood Johnson Department of Obstetrics and Gynecology. March 29, 2024. (virtual)
62. Artificial Intelligence in Obstetrics: A Birth Story. Grand Rounds Presentation. Weill Cornell Medicine. April 1, 2024.
63. Artificial Intelligence in Obstetrics: A Birth Story. Grand Rounds Presentation. University of Buffalo. September 25, 2024.
64. New Considerations for Postpartum Hemorrhage. 42nd Annual Conference on Obstetrics. Grand Cayman, Cayman Islands. October 16, 2024.
65. Trauma In Pregnancy: An Evidence-Based Approach. 42nd Annual Conference on Obstetrics. Grand Cayman, Cayman Islands. October 16, 2024.
66. Operative Vaginal Delivery: Quo Vadis. 42nd Annual Conference on Obstetrics. Grand Cayman, Cayman Islands. October 16, 2024.
67. Mitigating Bias in AI Systems. CTSI Symposium, University of California Los Angeles. December 4, 2024.
68. Developing the Partometer (Real-Time Predictions of Mode of Delivery). AI in Medicine Symposium, Cedars-Sinai Medical Center. Los Angeles, CA. December 12, 2024.
69. New Considerations for Postpartum Hemorrhage. 29th Annual Winter Conference on Clinical Issues In OB/GYN. St. Maarten, Dutch Caribbean. February 5-8, 2025
70. Trauma In Pregnancy: An Evidence-Based Approach. 29th Annual Winter Conference on Clinical Issues In OB/GYN. St. Maarten, Dutch Caribbean. February 5-8, 2025
71. Operative Vaginal Delivery: Quo Vadis. 29th Annual Winter Conference on Clinical Issues In OB/GYN. St. Maarten, Dutch Caribbean. February 5-8, 2025

72. Artificial Intelligence in Obstetrics and Gynecology: A Birth Story. Grand Rounds Presentation. BronxCare Health System. February 21, 2025.
73. Artificial Intelligence in Obstetrics and Gynecology: A Birth Story. Grand Rounds Presentation. University of Alabama Department of Obstetrics and Gynecology. February 26, 2025.
74. Artificial Intelligence in Obstetrics and Gynecology: A Birth Story. Grand Rounds Presentation. University of Texas Dell Medical School / Ascension. April 3, 2025.
75. Society for Maternal-Fetal Medicine Lecture / Society of Obstetric Anesthesia and Perinatology (SOAP) Annual Meeting. AI in Obstetric Care. May 1, 2025.
76. Mitigating Bias in AI Systems. Coalition for Compassionate Care California. AI Virtual MiniConference. May 2, 2025.
77. Artificial Intelligence in Obstetrics and Gynecology: A Birth Story. Grand Rounds Presentation. Mayo Clinic's Women's Health Grand Rounds. September 11, 2025.
78. Artificial Intelligence in Obstetrics and Gynecology: Our Brave New World. ACOG District I and XI Annual District Meeting. October 4, 2025.
79. Implementing Informatics Solutions: How to Switch. Keynote. Annual MetroHealth Perinatal Conference. October 8, 2025.
80. Walk Before We Run: Grounding Innovation in Evidence for Menopause Care. Pathways 2 Prevention Workshop on Advancing Research to Improve Health During the Menopausal Transition. National Institutes for Health. Virtual Meeting. April 15-17, 2026.
81. Fireside Chat – AI Models for Maternal Health. National Consortium of Telehealth Resource Centers (NCTRC) Spring 2026 Meeting. April 20, 2026.
82. Time Well Spent: Leveraging AI to Better Care for Patients and Health Care Professionals. Endowed Well-Being Session. ACOG Annual Clinical and Scientific Meeting. May 2, 2026.

TEACHING ACTIVITIES:

Non-Clinical Teaching:

Continuing Medical Education / Local Invited Lectures and Grand Rounds/ Media

- | | |
|-------------------|--|
| April 9, 2010 | Trauma in Pregnancy
University of Chicago Evidence Based Medicine Research Day |
| November 19, 2010 | Dermatoses of Pregnancy
NorthShore University Health Systems Obstetrics and Gynecology
Grand Rounds |
| August 24, 2011 | Peripheral Nerve Injury in Gynecologic Surgery
NorthShore University Health Systems Obstetrics and Gynecology
Grand Rounds |
| March 9, 2012 | Ab Ovo: A Tour of Ancient Greek and Roman Obstetrics and Gynecology |

University of Chicago Obstetrics and Gynecology Grand Rounds

February 27, 2015 Novo Sub Sole: Updates in Cervical Cancer Screening and Management
Cedars-Sinai Medical Center Obstetrics and Gynecology Continuing Medical Education Event

February 27, 2015 Whither the Pelvic Exam: A Debate
Cedars-Sinai Medical Center Obstetrics and Gynecology Continuing Medical Education Event

March 18, 2016 There's an App for That: Using Technology to Enhance Learning
Faculty Development Series, Cedars-Sinai Medical Center, Los Angeles, CA

2017 Teaching Millennials: Using Technology to Support Learning. Association of Professors of Gynecology and Obstetrics. Orlando, FL.

2018 Tranexamic Acid, Tamponade, and Thromboprophylaxis: New Considerations for Postpartum Hemorrhage in 2018.
Cedars-Sinai Medical Center CME Day

October 16, 2019 Building a Better Bishop: Using AI / Machine Learning to Predict Cesarean Delivery
Cedars-Sinai Medical Center Obstetrics and Gynecology Grand Rounds

March 6, 2020 Virtuo-Birthing: Experiences Using Virtual Reality for Pregnant Women
Cedars-Sinai Medical Center CME Day

August 2020 Data Bias, Disparities and the Machine: A Birth Story
University of California Los Angeles Medical Imaging Informatics Equity Series

October 6, 2020 Virtuo-Birthing: Experiences Using Virtual Reality for Pregnant Women
Center for Research on Women's Health and Sex Differences Symposium.
Cedars-Sinai Medical Center.

December 2, 2020 Data Bias, Disparities and the Machine: A Birth Story
Cedars-Sinai Medical Center, Obstetrics and Gynecology Grand Rounds

May 20, 2021 Data Bias, Disparities and the Machine: A Birth Story
Cedars-Sinai Medical Center, Discovery Lecture Series

September 29, 2021 Data Bias, Disparities and the Machine: A Birth Story
Cedars-Sinai Medical Center, EIS Division of Informatics Grand Rounds

May 19, 2022 Surgery on the Pregnant Patient
General Surgery Conference, Cedars-Sinai Medical Center

June 3, 2022 Big Data: How to Capture Sex and Gender Data Within the Medical Record and What Happens When you do. Invited Faculty, LGBTQ+ Cancer Symposium.
Cedars Sinai, Los Angeles, CA.

November 10, 2022	Ab Ovo: A Tour of Ancient Greek and Roman Obstetrics and Gynecology. History of Medicine Roundtable Series, Cedars-Sinai Medical Center (virtual)
July 21, 2023	The role of the five senses in medicine during the 20th and 21st centuries. History of Medicine seminar. Cedars Sinai Medical Center.
February 21, 2023	AI Case Study: Building a Better Bishop: Using Artificial Intelligence/Machine Learning to Predict Likelihood of Cesarean Delivery MHDS Digital Health Course, Cedars-Sinai Medical Center (virtual)
April 5, 2023	VR: Funding and Access Medicine and the Five Senses course, 20 th Century Technology and Telehealth Cedars-Sinai Program in the History of Medicine
June 12, 2024	Perioperative Considerations for the Pregnant (and Lactating) Patient Undergoing Non-Obstetric Surgery CORE Grand Rounds: Department of Anesthesiology
February 26, 2025	Artificial Intelligence in Obstetrics and Gynecology: A Birth Story. Annual Continuing Medical Education Day. Cedars-Sinai Medical Center.
December 13, 2025	2 nd Annual AI in Medicine Symposium Speaker – AI-Powered Precision Obstetrics Co-Moderator – Deployment of AI Algorithms for Clinical Care: Use Cases Session
March 4, 2026	Umbilical Cord Blood Gas Analysis Annual Continuing Medical Education Day. Cedars-Sinai Medical Center

Recurring Didactic Lectures:

2013-2014	Instructor, University of California Los Angeles Pelvic and Breast Exams
2013-2016	Problem-Based Learning/UCLA Medical Student lectures: Preterm Labor and PPRM, Multifetal Gestation Abdominal Pain in Pregnancy, HIV in Pregnancy Ectopic Pregnancy, Spontaneous Abortion, and Hypertensive Disorders of Pregnancy
2013-2016	Resident Lectures: Normal Labor and Delivery
July-October 2020	Interdisciplinary COVID-19 Simulations
2014 -	Postpartum Hemorrhage Simulation
2016 -	Interactive lecture: Office-based Gynecology Jeopardy and CREOG Review
2016 -	Interactive lecture and simulation: Forceps-Assisted Vaginal Delivery
2014 -	Nursing Lecture: Operative Vaginal Delivery
2019 -	Instructor, Masters of Health Delivery Sciences Digital Health Course AI applications in Medicine and Obstetrics Cedars-Sinai Medical Center
2020 -	Interactive lecture and simulation: Obstetric laceration repair

2020 -	Interactive Lecture and Simulation for local high school students: Cedars-Sinai Healthcare Immersion Program
Jan 18, 2023	Resident didactics – CREOG Review
Didactic Lectures:	
2013	Resident Landmark Article Review: National Abortion Federation Early Medical Abortion
2013	Resident Lectures: Peripheral Nerve Injury in Gynecologic Surgery Early Pregnancy, Miscarriage, and Evacuation of the First-Trimester Uterus
March 27, 2013	Grand Rounds: Ab Ovo: A Tour of Ancient Greek and Roman Obstetrics and Gynecology. Cedars-Sinai Medical Center Obstetrics and Gynecology
October 22, 2014	Grand Rounds: Operative Vaginal Delivery: Quo Vadis? Cedars-Sinai Medical Center Obstetrics and Gynecology
2014	Resident Lectures: 2013 ASCCP Updated Abnormal Cytology Guidelines Jeopardy The New 2013 ASCCP Updated Abnormal Cytology Guidelines
2014	Resident Landmark Article Review: Antenatal Corticosteroids (Liggins and Howie 1972).
2015	Resident Landmark Article Reviews: The CREST sterilization study Evidence-Based Cesarean Delivery Jeopardy Endometrial Hyperplasia Family-Feud
2015	Resident Lectures: Medical Education Theory: A Primer for Residents Hepatitis in Pregnancy
2015	Interactive Lecture: Conflict in Healthcare Teams
2016	Interactive Lecture and Lab: Effective PowerPoint Presentations
2016	Maternal-Fetal Medicine (MFM) Journal Club: LEEP and Preterm Birth Risk
2017	MFM Journal Club: Azithromycin for Cesarean Delivery Closed-loop Insulin for T1DM in Pregnancy CRASH-2 Trial Results
2017	MFM M&M: Pallister-Killian Syndrome and PPROM After Amnioreduction.

2017	Resident Landmark Article Reviews: Adjunctive Azithromycin for C/S Family-Feud ASPRE Preeclampsia Trial Delayed Pushing JAMA Trial
2017	Interactive Case Discussion and Lecture/Resident Didactics: Trauma in Pregnancy
2017	Surgical ICU Journal Club: CRASH-2 Trial Results.
2017	MFM Didactics: Ultrasound Jeopardy: Trisomy 18 and Extremities Ultrasound Ultrasound Jeopardy: Holoprosencephaly
2018	MFM Didactics: First Trimester Ultrasound Ultrasound Jeopardy: First Trimester Ultrasound Ultrasound Jeopardy: Anencephaly and Neuro Ultrasound Ultrasound Jeopardy: Fetal Abdomen Mitral Stenosis in Pregnancy
2018	MFM M&M: Lymphoma in Pregnancy
2018	Perinatal Didactics: Fetal Lung Lesions Pregnancy after Cardiac Transplant Unilateral Ventriculomegaly Lotus Birth Fetal Neck Masses
2018	Surgery Resident Didactics: Surgical Emergencies in Pregnancy
December 10, 2018	History of Medicine Roundtable Series, Cedars-Sinai Medical Center Ab Ovo: A Tour of Ancient Greek and Roman Obstetrics and Gynecology
2019	Perinatal Didactics: Soft Markers of Aneuploidy Cleft and Fetal Abdominal Cyst Neonatal Abstinence Syndrome Jejunal Atresia.
2019	MFM Didactics: Pandemic Influenza: A Historical Perspective MFM Fellows Lecture: Updates in Postpartum Hemorrhage in 2019
February 3, 2020	Informatics Journal Club:

Bias in Artificial Intelligence and Algorithms

April 22, 2020	Resident Lecture: Healthcare Economics and Cost-Effectiveness Analysis
2020	MFM Didactics: Healthcare Economics and Cost-Effectiveness Analysis Data Bias, Disparities and the Machine: A Birth Story
June 18, 2020	Intern Boot Camp: The Ultrasound Machine
July 28, 2020	Health Services Research Seminar: Building a Better Bishop: Using AI/Machine Learning to Predict Cesarean Delivery
October 6, 2020	2nd Annual Center for Research in Women's Health and Sex Differences (CREWHS) Symposium, Cedars-Sinai Medical Center Virtual Reality in Labor
2021	MFM Didactics: Teaching Millennials: Using Technology to Enhance Learning
September 16, 2021	CREWHS Monthly Scientists Meeting, Cedars-Sinai Medical Center Data Bias, Disparities, and the Machine: A Birth Story
September 22, 2021	Health Informatics Grand Rounds: Data Bias, Disparities, and the Machine: A Birth Story
January 24, 2022	Cedars-Sinai Faculty Retreat, Anaheim, CA Becoming a Better Educator: Panelist – Postponed
May 1 & 2, 2022	Cedars-Sinai Faculty Retreat, Anaheim, CA Becoming a Better Educator: Panelist
June 2, 2022	LGBTQ+ Symposium, Cedars-Sinai Cancer Big Data: How to Capture Sex and Gender Data Within the Medical Record and What Happens When You Do
September 7, 2022	Grand Rounds: Operative Vaginal Delivery: Quo Vadis? Cedars-Sinai Medical Center Obstetrics and Gynecology
November 10, 2022	History of Medicine Roundtable Series, Cedars-Sinai Medical Center Ab Ovo: A Tour of Ancient Greek and Roman Obstetrics and Gynecology
June 19, 2024	Operative Delivery

MEDIA COVERAGE

January 30, 2020	Virtual reality reduces pain during labor Medscape Interview
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February 6, 2019 Wong,MS. Virtual Reality May Reduce the Pain of Childbirth
WSJ article
<https://www.wsj.com/articles/virtual-reality-may-reduce-the-pain-of-childbirth-11549508580>

March 10, 2020 Virtual Reality Can Help Women Get Through Childbirth With Less Pain
Medicalfuturist.com

March 19, 2021 Covid Success Story of Pregnant Mom
Cedars Sinai Medical Center – Newsroom

April 14, 2021 HealthDay Interview: Yvette Camacho
Cedars Sinai Medical Center – Broadcast News

September 7, 2021 VR and childbirth pain management
Dot.LA

July 14, 2022 Story on moving American Board of OB/GYNs out of TX
Bloomberg

November 12, 2022 Backtable OB/Gyn Podcast

March 17, 2023 Media Coverage: Stat News - Gregory & Wong on AI and C-section research
STAT +

April 15, 2023 How Accurate is the baby’s due date?
More or Less: BBC Podcast

April 25, 2023 AI in Medicine: Countering Bias
Cedars Sinai Medical Center - Peer podcast

September 11, 2023 Artificial Intelligence in Obstetrics
Author of Hard Pushed UK NHS midwife Leah Hazard

March 2024 Medscape coverage on SMFM 2024 Pregnancy Meeting

March 5, 2024 New Tool Helps Doctors Reduce Patients’ Preeclampsia Risk

February 18, 2026 California Surgeon General Podcast: Office Hours. AI in Maternal Health with
Dr. Melissa Wong

MENTORING AND SUPERVISORY EXPERIENCE:

Mentorship:

UCLA Medical Students

2014	Amy L. Wang
2014	Pooja Upadhaya
2015	Ashley Roldan
2015	John Thompson
2015	Kelsey Pomykala
2015	Delila Pouldar

2015 Virginia Lieu
2015 Stephanie Han
2015 Diem Nguyen

Obstetrics and Gynecology Residents

2013 – 2016 Jeanine Staples
2014 – 2016 Nadia El-Fakih
2019 – 2024 Kyleigh Strickland
2020 – 2024 Christopher Mayer
2022 – Katherine Moran, MD, MBA
“Perceptions of Virtual Reality During Pelvic Exams”
2023 – Grace Pipes
2024 – Katrina Furman

Maternal-Fetal Medicine Fellows

2019-2022 Gabriela Dellapiana

Master of Health Delivery Science Program Students

2021-2023 Joshua Hakimian

Research and Quality improvement Project Supervision:

2014 Christina Saad
2016 Jeanine Staples
2016 Stephanie Kong
2016 Carla Spades (QI)
2017 Meenal Misal
2017 Kelly Joy
2018 Alyssa Wield (QI)
2019-2023 Cecilia Leggett (Research and QI)

BIBLIOGRAPHY/PUBLICATIONS:

A. Research Papers – Peer-Reviewed

1. Park JM, Tuuli MG, **Wong M**, Carbone JF, Ismail M, Macones JA, Odibo AO. Cervical cerclage: One stitch or two? *Amer J Perinatol* 2012 Jun; 29(6):477-481. PMID 22399222.
2. Ozimek JA, Eddins RM, Greene N, Karagyozyan D, Pak S, **Wong M**, Zakowski M, Kilpatrick SJ. Opportunities for improvement in care among women with severe maternal morbidity. *Am J Obstet Gynecol.* 2016 Oct; 215(4):509.e1-6. PMID 27210068.
3. Staples JN, **Wong MS**, Rimel BJ. An educational intervention to improve human papilloma virus (HPV) and cervical cancer knowledge among African American college students. *Gynecol Oncol.* 2018 Apr; 149(1):101–105. PMID 29605043.
4. **Wong MS**, Dellapiana G, Greene N, Gregory KD. Antibiotics during intrauterine balloon tamponade is associated with a reduction in endometritis. *Amer J Perinatol* 2019 Oct; 36(12):1211-1215. doi: 10.1055/s-0039-1683888. PMID 30895582.

5. Govindappagari S, Greene N, Burwick R, **Wong MS**, Gregory KD. Maternal and neonatal morbidity after 4 and 6 hours of protracted active labor in nulliparous term pregnancies. *Obstet Gynecol*. 2020 Jan; 135(1):185-193. PMID 31809426.
6. Naqvi M, Burwick RM, Ozimek JA, Greene NH, Kilpatrick SJ, **Wong MS**. Severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) universal testing experience on a Los Angeles labor and delivery unit. *Obstet Gynecol* 2020 Aug; 136(2):235-236. doi: 10.1097/AOG.0000000000003987. PMID: 32433450.
7. Greene NH, Kilpatrick SJ, **Wong MS**, Ozimek JA, Naqvi M. Impact of labor and delivery unit policy modifications on maternal and neonatal outcomes during the coronavirus disease 2019 pandemic. *Am J Obstet Gynecol MFM*. 2020 Nov; 2(4):100234. Epub 2020 Sep 21. PMID: 32984804.
8. Penn CA, **Wong MS**, Walsh C. Cost-effectiveness of maintenance therapy based on molecular classification following treatment of primary epithelial ovarian cancer in the United States. *JAMA Netw Open*. 2020 Dec 1; 3(12):e2028620. doi: 10.1001/jamanetworkopen.2020.28620. PMID: 33295974.
9. **Wong MS**, Spiegel BMR, Gregory KD. Virtual reality reduces pain in laboring women: A randomized controlled trial. *Am J Perinatol* 2021 Aug;38(S 01):e167-e172. doi: 10.1055/s-0040-1708851. PMID: 32485759.
10. Rushakoff J, Polyak A, Caron J, Parrinella K, Salabat R, **Wong M**, Emerson D. A case of a pregnant patient with COVID-19 infection treated with emergency c-section and extracorporeal membrane oxygenation. *J Card Surg* 2021 Aug; 36(8):2982-2985. doi: 10.1111/jocs.15623. PMID: 33974311.
11. Ebinger JE, Lan R, Sun N, Wu M, Joung S, Botwin GJ, Botting P, Al-Amili D, Aronow H, Beekley J, Cheng S, Coleman B, Contreras S, Cozen W, Davis J, Debbas P, Diaz J, Driver M, Fert-Bober J, Gu Q, Heath M, Herrera E, Hoang A, Hussain SK, Huynh C, Kim L, Kittleson M, Liu Y, Lloyd J, Luong E, Malladi B, Merchang A, Merin N, Mujukian A, Nguyen N, Nguyen T-T, Pozdnyakova V, Rashid M, Raedschelders K, Reckamp KL, Rhoades K, Sternbach S, Vallejo R, White S, Tompkins R, **Wong M**, Arditi M, Figueiredo JC, Van Eyk JE, Miles PB, Chavira C, Shane R, Sobhani K, Melmed GY, McGovern DPB, Braun JG, Minissian MB. Symptomology following mRNA vaccination against SARS-CoV-2. *Prev Med*, 2021 Dec; 153:106860. PMID: 34687733.
12. Ozimek JA, Greene N, Geller A, Zakowski M, **Wong MS**, Franco R, Kilpatrick SJ. Routine multidisciplinary review of severe maternal morbidity is associated with a reduction in preventable cases of severe maternal morbidity. *Am J Perinatol* 2022 Feb; 39(3):307-311. PMID: 32862420.
13. Brandt JS, Eichelberger KY, **Wong MS**; Society for Maternal-Fetal Medicine Special Statement: Commitment to excellence in obstetrical care, research, and education for people with diverse sexual and gender identities. *Am J Obstet Gynecol* 2022 Apr; 226(4):B10-B12. doi: 10.1016/j.ajog.2021.11.1344. PMID: 34785176.
14. Leggett CB, Naqvi M, Esakoff TF, Diniz MA, **Wong MS**. Incorporating personal-device-based point-of-care ultrasound into obstetric care: A validation study. *Am J Obstet Gynecol* 2022 Apr; 226(4):552.e1-552.e6. doi: 10.1016/j.ajog.2021.11.031. PMID: 34774825.

15. Burwick RM, Dellapiana G, Newman RA, Smithson SD, Naqvi M, Williams J 3rd, **Wong MS**, Bautista M, Gaden A, Kazani SD, Dunn DA, Ma MH, Mitter S, Monteleone JPR, Ortiz SR, Ghandehari S, Merin N, Zakowski MI, Karumanchi SA. Complement blockage with eculizumab for treatment of severe Coronavirus Disease 2019 in pregnancy: A case series. *Am J Reprod Immunol* 2022 Aug;88(2):e13559. Doi:10.1111/aji.13559. PMID: 35514201.
16. **Wong MS**, Wells M, Zamanzadeh D, Akre S, Pevnick JM, Bui AA, Gregory KD. Applying automated machine learning to predict mode of delivery using ongoing intrapartum data in laboring patients. *Am J Perinatol* 2022 Jun 25. doi: 10.1055/a-1885-1697. Online ahead of print. PMID: 35752169.
17. **Wong MS**, Gregory KD, Spiegel BMR, Khalil C. Patient perceptions of Virtual Reality for pain relief in labor: a qualitative study”, *Front Pain Res*, November 21, 2022. doi: 10.3389/fpain.2022.1063751
18. Makarem, N., Chau, K., Miller, E. C., Gyamfi-Bannerman, C., Tous, I., Booker, W., Catov, J. M., Haas, D. M., Grobman, W. A., Levine, L. D., McNeil, R., Bairey Merz, C. N., Reddy, U., Wapner, R. J., **Wong, MS**, & Bello, N. A. (2022). Association of a Mediterranean Diet Pattern With Adverse Pregnancy Outcomes Among US Women. *JAMA network open*, 5(12), e2248165. <https://doi.org/10.1001/jamanetworkopen.2022.48165>
19. Quesada O, Kulandavelu S, Vladutiu CJ, DeFranco E, Minissian MB, Makarem N, Bello NA, **Wong MS**, Pabón MA, Chandra AA, Avilés-Santa L, Rodríguez CJ, Bairey Merz CN, Sofer T, Hurwitz BE, Talavera GA, Claggett BL, Solomon SD, Cheng S. Cardiac Abnormalities in Hispanic/Latina Women With Prior De Novo Hypertensive Disorders of Pregnancy. *Hypertension*. 2024 Feb;81(2):255-263. doi: 10.1161/HYPERTENSIONAHA.123.21248. Epub 2023 Dec 4. PMID: 38047358; PMCID: PMC10793810.
20. Leggett CB, Cohen T, Sauro E, **Wong MS**. The POCKET study: personal-device-based point-of-care-ultrasound versus standard ultrasound machine use for inpatient obstetric workflow: a time and motion study. *Am J Obstet Gynecol MFM*. 2023 Oct;5(10):101100. doi: 10.1016/j.ajogmf.2023.101100. Epub 2023 Aug 2. PMID: 37536443.
21. Temkin SM, Salles A, Barr E, Leggett CB, Reznick JS, **Wong MS**. "Women's work": Gender and the physician workforce. *Soc Sci Med*. 2024 Jun;351 Suppl 1:116556. doi: 10.1016/j.socscimed.2023.116556. Epub 2024 May 31. PMID: 38825379.
22. Wong E, Saini A, Accortt E, **Wong MS**, Moore J, Bright T. Bias-Mitigated Predictive Models of Perinatal Mood and Anxiety Disorders. *JAMA Network Open*. 2024.
23. Plevock Haase KM, Price CA, Wei GS... **Wong MS**, Clark D, Mensah G. Establishing NIH Community Implementation Programs to improve maternal health. *Implement Sci Commun* 5, 105 (2024). <https://doi.org/10.1186/s43058-024-00634-4>
24. Steinberg S, **Wong MS**, Goshen G, Zimlichman E, Tsur A. Novel Machine Learning Applications in Peripartum Care: A Scoping Review. *American Journal of Obstetrics & Gynecology MFM* (2025). Volume 7, Issue 3. <https://doi.org/10.1016/j.ajogmf.2025.101612>.

25. Sweterlitsch K, **Wong MS**, Accortt E, Kim K. Assessing Patient Perceptions of Virtual Reality use for Pelvic Exams. *Journal of Medical Extended Reality (JMXR)*. *Journal of Medical Extended Reality* 2025 2:1, 132-141
26. Kawakita T, **Wong MS**, Gibson KS, Gupta M, Gimovsky AC, Moussa HN, Hye HJ; Society of Maternal-Fetal Medicine Clinical Informatics Committee. Application of Generative AI to Enhance Obstetrics and Gynecology Research. *Am J Perinatol*. 2025 Dec;42(16):2094-2103. doi: 10.1055/a-2616-4182. Epub 2025 May 20. PMID: 40393680.
27. Hauspurg A, Barry VG, Hernandez N, Clapp M, **Wong MS**, Lewkowitz A. Advancing equity with technology and innovation in obstetrics: A critical approach to obstetric TechQuity. *Pregnancy* 2025.
28. Leggett CB, **Wong MS**, Levine L, McCoy J. Intrapartum terbutaline use and cesarean delivery for labor dystocia. *Journal of Clinical Gynecology and Obstetrics*. 2025.
29. Rittenberg E, Gross CP, **Wong MS**, Inouye SK. Women's Health and Artificial Intelligence. *JAMA Intern Med*. 2025 Dec 1;185(12):1421-1422. PMID: 41082192.

B. Research Papers – Peer-Reviewed (Accepted for Publication)

1. Research Papers – Peer-Reviewed (In Press)

2. Research Papers – Peer-Reviewed (Submitted)

1. **Wong MS**, Wells M, Parrinella K, Torna S, Gonzalez-Hernandez G, Gregory KD. IDEATE: IDentifying Aspirin candidates using Text-based EHR data. 2023.
2. Bui AAT, Rahrooh A, Feng J, **Wong MS**, Elmore JG. "Development and Evaluation of Artificial Intelligence Models in Healthcare with Scientific Rigor." *npj Artificial Intelligence*. 2025.

Chapters:

1. **Wong MS**, Bonthala N. Gastrointestinal Disease in Pregnancy. In: *Obstetrics: Normal and Problem Pregnancies*, 8th edition. New York, Churchill Livingstone. 2020.
2. E Kassir, VC Kuhn, **Wong MS**, Han CS. Artificial intelligence in obstetrics and gynecology. *Artificial Intelligence in Clinical Practice*. Elsevier. September 2023.
3. **Wong MS**, Bonthala N. Gastrointestinal Disease in Pregnancy. In: *Obstetrics: Normal and Problem Pregnancies*, 9th edition. New York, Churchill Livingstone. 2024.

Letters to the Editor:

None

Reviews:

1. Accortt E, **Wong MS**. It is time for routine screening for perinatal mood and anxiety disorders in obstetrics and gynecology settings. *Obstet Gynecol Surv*. 2017 Sep; 72(9):553-568. PMID: 28905985.
2. Moosavi S, Pimentel M, **Wong MS**, Rezaie A. Irritable Bowel Syndrome in Pregnancy. *Am J Gastroenterol*. 2021 Mar 1;116(3):480-490. doi: 10.14309/ajg.0000000000001124. PMID: 33481381.

Editorials:

None

Papers in Preparation (Research Completed):

1. **Wong MS**, Harwood B. Implementation of a multi-dimensional electronic point-of-care evaluation system for milestones assessment. Anticipated completion: 2024.
2. Bonthala N, **Wong MS**. The Magnolia cohort: Maternal GeNetics and serOLogy as predictors of IBD activity during pregnancy. Anticipated completion: 2024.
3. Dellapiana G, **Wong MS**. SMFM clinical informatics: Urinary tract dilatation. Anticipated completion: 2024.
4. <authors> Causal Analysis of Clinical Factors and Social Determinants of Health on Racial Disparities in Preterm Birth. 2024.

Other Publications

1. **Wong M**, Staples J. Bartholin cyst: Simulation of word catheter placement and a novel technique for marsupialization. Film festival presentation at CREOG and APGO Annual Meeting. 2016. <https://www.youtube.com/watch?v=lPc5Wv8g8eg>
2. **Wong M**. APGO Apple Slices: Association between teaching status and mortality in US Hospitals. March 2018. <https://www.apgo.org/welcome-to-apple-slices>
3. **Wong, MS**. New considerations for postpartum hemorrhage: Tranexamic acid, tamponade, and thromboprophylaxis. *Audio Digest Obstetrics and Gynecology*, Volume 65, Issue 20, October 21, 2018.
4. **Wong MS**, Vivero A, Klapper EB, Gregory KD. Failure to rescue the mother. *Agency for Healthcare Research and Quality Web M&M* [serial online]. July 2019. Available at: <https://psnet.ahrq.gov/webmm/case/484>
5. **Wong MS**, Timor-Trisch I. SMFM/AIUM Fetal Anomalies Resource Library: Cervical anomalies. August 2019. <https://education.smfm.org/products/fetal-anomalies-resource-library>
6. **Wong, MS**. Forceps delivery: Contemporary tips for a classic obstetrics tool. *Contemporary Obstetrics and Gynecology*. December 2019.
 - a. Forceps Delivery Technique Video. <https://www.contemporaryobgyn.net/view/forceps-delivery-technique>

- b. Anatomy of the Forceps
<https://www.contemporaryobgyn.net/view/anatomy-forceps>
7. **Wong, MS.** The in-person postpartum blood pressure check: For whose good? OBG Management. July 2020.
8. **Wong MS, Lewkowitz AL.** Artificial Intelligence steps into Obstetrics. June 9, 2023.

ABSTRACTS

Posters:

1. Bonthala, N and **Wong M.** Encapsulating peritoneal sclerosis. Presented at Annual Meeting of the American College of Gastroenterology, Washington, DC. 2011.
2. **Wong M** and Horton A. The role of a two stitch cervical cerclage for preterm birth prevention in women with a history of cervical insufficiency. Presented at Annual meeting of the Society for Gynecologic Investigation, San Diego, CA. 2011.
3. **Wong M,** Shah A, Horton A. Perioperative complications of single suture versus double suture in women undergoing history-indicated cerclage placement. Presented at Annual meeting of the Society for Gynecologic Investigation, San Diego, CA. 2011.
4. Afshar Y, Mei J, **Wong M,** Gregory KD, Kilpatrick SJ, Esakoff T. The role of the birth plan in obstetrical and neonatal outcomes and birth experience satisfaction. American Journal of Obstetrics and Gynecology 2015; 212: S282. Presented at Society for Maternal Fetal Medicine annual meeting, San Diego, CA. 2015.
5. **Wong MS.** Teaching to Equivalents: A new paradigm for resident education in estimation of blood loss. Obstetrics & Gynecology. 2015;126:51S-2S. Presented at CREOG and APGO Annual Meeting. San Antonio, TX. 2015.
6. **Wong M,** Harwood B. Electronic Point of Care Evaluations Result in Improvement in Nursing Evaluation of Residents. Obstetrics & Gynecology. 2015;126:36S. Presented at CREOG and APGO Annual Meeting. San Antonio, TX. 2015.
7. **Wong M** and Krasne S. Use of a perceptual adaptive learning module results in improved accuracy and fluency of fetal heart rate categorization by medical students. Poster presentation at Symposium on the Science of Learning in Medical Education, Los Angeles, 2015.
8. Bonthala N, **Wong M,** Kilpatrick S, Melmed G. Operative vaginal delivery and higher order perineal lacerations do not result in worsening of disease in women with inflammatory bowel disease. Gastroenterology. 2016;150(4):S399. Presented at Digestive Diseases Week, San Diego, 2016.

9. **Wong M**, Krasne S. Use of a perceptual adaptive learning module results in improved accuracy and fluency of fetal heart rate categorization by medical students. *American Journal of Obstetrics & Gynecology*. 2017;216(1):S491-492. Presented at Society for Maternal-Fetal Medicine Meeting, Las Vegas, NV. 2017.
10. Bonthala N, **Wong M**, Kilpatrick S, Melmed G. Biologic and/or thiopurine use during pregnancy was not associated with increased obstetric injuries or new perianal disease in women with inflammatory bowel disease. *Gastroenterology*. 2017; 152(5):S583. Presented at Digestive Diseases Week, Chicago, 2017.
11. **Wong MS**, Greene N, Gregory KD. Removal of Bakri intrauterine balloon by rapid or stepwise deflation: Which technique is better? *Obstetrics and Gynecology*. 2018;131:10S. Presented at ACOG Annual Clinical Meeting, Austin, 2018.
12. **Wong MS**, Greene N, Gregory KD. Prophylactic antibiotics at the time of Bakri insertion is associated with a reduction in endometritis. *Obstetrics and Gynecology*. 2018;131:10S. Presented at ACOG Annual Clinical Meeting, Austin, 2018.
13. Misal M, **Wong MS**, Greene N, Aghajanian P. Prophylactic uterotonic use in grandmultiparas reduces recurrent postpartum bleeding. *Obstetrics and Gynecology*. 2018;131:10S. Presented at ACOG Annual Clinical Meeting, Austin, 2018.
14. **Wong MS**, Bonthala N. Epidural use during vaginal delivery was not associated with increased obstetric injuries or worsening disease postpartum in women with inflammatory bowel disease. *Gastroenterology*. 2018;154(6):S630-631. Presented at Digestive Diseases Week, Washington, DC, 2018.
15. **Wong MS**, Gregory KD, Almario CV. Economic analysis of Tranexamic Acid: Applying the WOMAN trial data to a contemporary US population. *American Journal of Obstetrics & Gynecology*. 2019;220(1):S495-496. Presented at Society for Maternal-Fetal Medicine Meeting, Las Vegas, NV. 2019.
16. **Wong MS**, Wells M, Gregory KD. Neonatal outcome differences among providers with lower nulliparous, term, singleton vertex cesarean rates [30B]. *Obstetrics and Gynecology* 133:28S. Presented at ACOG Annual Clinical Meeting, Nashville, 2019.
17. **Wong MS**, Gregory KD. Patient reported outcomes on the use of virtual reality for pain management in labor [17E]. *Obstetrics and Gynecology* 133:55S. Presented at ACOG Annual Clinical Meeting, Nashville, 2019.
18. Wield A, **Wong MS**, Rimel BJ. Use of a perceptual adaptive learning module to enhance colposcopy education: optimizing training methods to prepare residents for entry into clinical practice. Presented at Cedars-Sinai GME Patient Safety/Quality Improvement Day, Los Angeles, 2019.
19. Joy K, Greene N, **Wong MS**, Kilpatrick SJ. Enhanced postpartum screening for hypertensive disorders of pregnancy is associated with less severe hospital representations. *American Journal of Obstetrics & Gynecology*. 2020;222. S367. Presented at Society for Maternal-Fetal Medicine Meeting, Grapevine, TX. 2020.

20. **Wong MS**, Wells M, Gregory KD. Building a better Bishop: Using machine learning to develop real-time cesarean delivery predictions. *American Journal of Obstetrics & Gynecology*. 2020;222. S363-364. Presented at Society for Maternal-Fetal Medicine Meeting, Grapevine, TX. 2020.
21. **Wong MS**, Einerson BD, Almario CV. Diagnosing pulmonary embolism in pregnancy: A cost-minimization analysis. *American Journal of Obstetrics & Gynecology*. 2020;222. S700-701. Presented at Society for Maternal-Fetal Medicine Meeting, Grapevine, TX. 2020.
22. **Wong MS**, Francis SE, Cohen TN, Gregory KD. Development of the APGO Health Systems Science Curriculum: A multidisciplinary, case-based approach. Presented at CREOG and APGO Annual Meeting, Orlando, FL. 2020.
23. Penn CA, **Wong M**, Walsh C. Cost-minimization analysis of germline and somatic testing strategies for BRCA mutations in women with newly diagnosed epithelial ovarian cancer. Presented virtually at Society of Gynecologic Oncology Meeting, Toronto, CA. 2020.
24. Rimel BJ, **Wong MS**, Zajchowski D, Temkin SM. Clinical trial enrollment is associated with improved survival in recurrent ovarian cancer patients. Presented virtually at Society of Gynecologic Oncology Meeting, Toronto, CA. 2020.
25. Penn CA, **Wong M**, Walsh C. Cost-effectiveness of various maintenance therapies based on mutation status following first-line treatment of primary epithelial ovarian cancer in the United States. Presented at American Society of Clinical Oncology (ASCO), Virtual Meeting, 2020.
26. **Wong MS**, Wells M, Gregory KD. Racial disparities in cesarean delivery rates: Can a machine learning model reduce these biases? *Am J Obstet Gynecol*. 2021 Feb; 224(2): S708. Virtual presentation Society for Maternal-Fetal Medicine Meeting. 2021.
27. **Wong MS**, Wells M, Gregory KD. Racial disparities in cesarean delivery rates: Can a machine learning model reduce these biases? *Am J Obstet Gynecol*. 2021 Feb; 224(2): S708. Virtual presentation Society for Maternal-Fetal Medicine Meeting. 2021.
28. Newman RA, Naqvi M, Sherman-Brown A, Dayanim S, Astasio J, Williams AL, Butler JR, Rao R, **Wong MS**. Use of simulation to prepare providers for emergent cesarean delivery in a patient with COVID-19. *Am J Obstet Gynecol*. 2021 Feb; 224(2): S213–S214. Virtual presentation Society for Maternal-Fetal Medicine Meeting. 2021.
29. Dellapiana G, Levian C, Greene N, **Wong MS**. One-step deflation of Bakri intrauterine balloon tamponade is not associated with increased blood loss. *Am J Obstet Gynecol*. 2021 Feb; 224(2): S720-721. Virtual presentation Society for Maternal-Fetal Medicine Meeting. 2021.
30. **Wong MS**, Gregory KD, Spiegel BM, Khalil C. What laboring women (virtually) want: A qualitative analysis of virtual reality during labor. *Am J Obstet Gynecol*. 2021 Feb; 224(2): S463-464. Virtual presentation Society for Maternal-Fetal Medicine Meeting. 2021.

31. Leggett C, Naqvi M, Esakoff T, Diniz M, **Wong MS**. Incorporating personal device-based point-of-care ultrasound into obstetric care: A validation study. Late-Breaking Poster presentation ACOG Annual Clinical Meeting (virtual). April 3, 2021.
32. Leggett C, Cohen T, **Wong M**. Use of personal-device-based-point-of-care-ultrasound (P-POCUS) in intrapartum care: a time and motion study. Poster Presentation/ Abstract. Annual Integrative Ultrasound Meeting (AIUM). San Diego, California. March, 2022.
33. Leggett C, Treacy L, Cohen T, **Wong M**. Perceived workload of personal-device-based point-of-care-ultrasound (P-POCUS) compared to standard ultrasound machines. Poster Presentation/Abstract. Annual Integrative Ultrasound Meeting (AIUM). San Diego, California, March, 2022.
34. **Wong MS**, Wells M, Parrinella K, Gregory KD. EHR phenotyping by Natural Language Processing improves detection of patients at risk for preeclampsia. Machine Learning for Healthcare. Durham, North Carolina. August 6, 2022.
35. **Wong MS**, Torna S, Wells M, Gregory KD. Automated clinical decision support eliminates racial disparities in aspirin recommendation. 43rd Annual Pregnancy Meeting, Society for Maternal-Fetal Medicine, San Francisco, CA. February 10, 2023.
36. **Wong MS**, Torna S, Wells M, Gregory KD. Beyond chart review: using NLP as a performance improvement tool to track aspirin utilization. 43rd Annual Pregnancy Meeting, Society for Maternal-Fetal Medicine, San Francisco, CA. February 10, 2023.
37. Leggett CB, Albertson E, Pang B, Wells M, **Wong MS**. 1058 PROMPT-AID: Predicting obstetric morbidity from postpartum hemorrhage through artificial intelligence. American Journal of Obstetrics & Gynecology 230 (1), S556-S557.
38. **Wong MS**, Wells M, Bui AAT, Gregory KD. 824 MD vs. ML: Comparing clinician intuition to machine learning to predict mode of delivery. American Journal of Obstetrics & Gynecology 230 (1), S438
39. **Wong MS**, Moran K, Rimel B.J., Accortt E, Kim K, . Assessing Patient Perceptions of Virtual Reality use for Pelvic Exams. Cedars Sinai Virtual Medicine vMed24 Conference, Los Angeles, CA. March 28-29, 2024.
40. **Ota Wang V**, Wong MS ... Temkin S. Unveiling Insights from Nearly 250,000 Women in the NIH All of Us Dataset. Organization for the Study of Sex Differences. May 5-9, 2024.
41. Plevock Haase KM, Price CA, Wei GS...**Wong MS**, Clark D, Mensah G. NIH Community Implementation Programs to equitably improve maternal health. APHA 2024. American Public Health Association. October 27-30, 2024.
42. Plevock Haase KM, Price CA, Wei GS...**Wong MS**, Clark D, Mensah G. NIH Community Implementation Programs strive to equitably improve maternal health. 17th Annual Conference on the Science of Dissemination and Implementation. AcademyHealth. December 8-11, 2024.
43. **Wong MS**, Choi SY, Gonzalez K, Torna S, Wells M, Bui AAT, Gregory KD. What to expect when you're expecting: impact of physician and patient factors on predicted mode

- of delivery. SMFM 2025 Annual Pregnancy Meeting, Society for Maternal-Fetal Medicine, San Francisco, CA. January 30, 2025.
44. **Wong MS**, Choi SY, Gonzalez K, Torna S, Wells M, Bui AAT, Gregory KD. Physician vs. Partometer: a machine learning model predicts mode of delivery as well as physicians. SMFM 2025 Annual Pregnancy Meeting, Society for Maternal-Fetal Medicine, San Francisco, CA. January 30, 2025
 45. **Wong MS**, Wong E, Bright T. Missingness as a social determinant: data gaps undermine aspirin eligibility for preeclampsia risk reduction. SMFM 2026 Annual Pregnancy Meeting, Society for Maternal-Fetal Medicine. Las Vegas, NV. February 11, 2026.
 46. Breda J, Joshi D, Pang B, Wells M, **Wong MS**. Predicting fetal acidemia using convolutional neural networks trained on intrapartum electronic fetal monitoring data. SMFM 2026 Annual Pregnancy Meeting, Society for Maternal-Fetal Medicine. Las Vegas, NV. February 11, 2026.
 47. Wong E, Bright T, **Wong MS**. Data Missingness as a Risk Factor for Preterm Birth. SMFM 2026 Annual Pregnancy Meeting, Society for Maternal-Fetal Medicine. Las Vegas, NV. February 11, 2026.

Oral Presentations:

1. **Wong M** and Horton A. The role of a two stitch cervical cerclage for preterm birth prevention in women with a history of cervical insufficiency. Oral presentation at Resident Research Day at the University of Chicago, Chicago, IL. 2011.
2. Mei J, Afshar Y, **Wong M**, Gregory KD, Kilpatrick SJ, Esakoff T. Birth experience satisfaction among birth plan mothers. *Obstetrics & Gynecology*. 2015; 125: 2S. Presented at ACOG Annual Clinical Meeting, San Francisco, CA. 2015.
3. Saad CA, Kim DS, Solnik MJ, **Wong MS**. Laparoscopic vascular injury Simulation for gynecology residents. *Journal of Minimally Invasive Gynecology*. 2015;22(6S):S31. AAGL Global Congress on MIGS, Las Vegas, NV. 2015.
4. **Wong M**. Use of a perceptual adaptive learning module results in improved accuracy and fluency of fetal heart rate categorization by medical students. *Obstetrics & Gynecology*. 2016;128:58S. Presented at CREOG and APGO Annual Meeting, New Orleans, LA. 2016.
5. Staples J, Harwood B, **Wong M**. A multi-dimensional electronic point-of-care evaluation System for milestones assessment. *Obstetrics & Gynecology*. 2016;128:42S. Presented at CREOG and APGO Annual Meeting. New Orleans, LA. 2016.

6. Espinoza C, Achiek M, Clunes M, Kokar C, Silverstein Z, **Wong M**. Implementation of a maternal health curriculum and distance-learning program in South Sudan. *Obstetrics & Gynecology*. 2016;128:46S. Presented at CREOG and APGO Annual Meeting. New Orleans, LA. 2016.
7. **Wong M**, Staples J. Bartholin cyst: Simulation of word catheter placement and a novel technique for marsupialization. Film festival presentation at CREOG and APGO Annual Meeting, New Orleans, LA. 2016.
8. Staples JN, **Wong MS**, Rimel BJ. An educational intervention to improve human papilloma virus (HPV) and cervical cancer knowledge among African American college students. *Obstetrics and Gynecology*. 2017;130:45S. Oral presentation at CREOG and APGO Annual Meeting, Orlando, 2017.
9. **Wong M**, Spiegel BMR, Gregory KD. Virtual reality reduces pain in laboring women: A randomized controlled trial. Plenary presentation at Society for Maternal-Fetal Medicine Meeting, Grapevine, TX. 2020.
10. Penn CA, **Wong M**, Walsh C. Cost-effectiveness of various maintenance therapies based on mutation status following first-line treatment of primary epithelial ovarian cancer in the United States. Western Association of Gynecologic Oncologists (WAGO), Virtual Meeting, 2020.
11. Bonthala N, **Wong MS**. The Magnolia Cohort: Maternal GeNetics and serOLogy as predictors of IBD Activity during pregnancy. Center for Research on Women's Health and Sex Differences Symposium. October 6, 2020.
12. Burwick R, Dellapiana G, Newman R, Smithson S, Naqvi M, Williams J, **Wong M**, Bautista M, Gaden A, Kazani S, Ma M, Mitter S, Monteleone J, Ortiz S, Zakowski M, Ghandehari S, Merin N, Karumanchi. Complement blockade with eculizumab for treatment of pregnant or postpartum women with severe coronavirus disease 2019. Society for Reproductive Investigation. Boston, MA. July 8, 2021.
13. **Wong MS**, Parrinella K, Wells M, Gregory KD. Black pregnant people are less likely to be recommended aspirin prophylaxis for preeclampsia. *Am J Obstet Gynecol*. 2022 Jan; 226(1): S515-516. Virtual presentation Society for Maternal-Fetal Medicine Meeting. 2022.
14. **Wong MS**, Parrinella K, Wells M, Gregory KD. EHR phenotyping by natural language processing improves detection of patients at risk for preeclampsia. *Am J Obstet Gynecol*. 2022 Jan; 226(1): S65-66. Virtual presentation Society for Maternal-Fetal Medicine Meeting. 2022.
15. Parrinella K, Wells M, Gregory KD, **Wong MS**. Identification of criteria missed by clinicians among patients not prescribed aspirin prophylaxis for preeclampsia. *Am J Obstet Gynecol*. 2022 Jan; 226(1): S736. Virtual presentation Society for Maternal-Fetal Medicine Meeting. 2022.
16. **Wong MS**, Sauro E, Greene N, Bonthala NN. Crohn's disease is associated with a greater risk of adverse obstetric outcome than ulcerative colitis. *Am J Obstet Gynecol*. 2022 Jan; 226(1): S719. Virtual presentation Society for Maternal-Fetal Medicine Meeting. February 4, 2022.

17. Leggett C, Naqvi M, Esakoff T, Diniz M, **Wong M**. Incorporating Personal Device-Based Point-of-Care Ultrasound into Obstetric Care: A Validation Study. Oral Abstract Presentation. Annual Integrative Ultrasound Meeting (AIUM). San Diego, California. March, 2022.
18. **Wong MS**, Coutelin-Johnson R, Gonzalez K, Onwumere O, Parrinella K, Thrift K, Torna S, Wells M, Gregory KD. Elimination of a threefold racial disparity in aspirin recommendation using integrated clinical decision support. SMFM 2025 Annual Pregnancy Meeting, Society for Maternal-Fetal Medicine, San Francisco, CA. January 30, 2025.

ACTIVITIES AND INTERESTS

Photography

Honorable mention for "Birth." National Arts Program, University of Chicago, 2012.

Website and Graphic Design

Go Ask Alice! Website production and technical management, 2001-2006.

United to Serve Committee Chair for Website Design, 2004-2006.

Hurricane Katrina Volunteer Effort Website Design, 2005.

Music

Ukulele, piano, guitar, violin, cello, percussion

National Parks (32 of 61 visited)

Woodworking