

Helen Feltovich, M.D., M.S.

Intermountain Healthcare
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EDUCATION

7/1995-5/1999 **University of Iowa College of Medicine**, Iowa City IA
Doctor of Medicine
Alpha Omega Alpha

7/1995-5/1997 **University of Iowa**, Iowa City IA
Master of Science, Environmental and Public Health
Distinction in Biostatistics

9/1985-5/1989 **St. Olaf College**, Northfield MN
Bachelor of Arts, Studio Art, with concentrations in Philosophy and Literature,
Magna Cum Laude

RESIDENCY and POSTDOCTORAL TRAINING

7/2003-7/2006 **University of Vermont**, Burlington VT
Fellowship in Maternal Fetal Medicine
Department of Obstetrics & Gynecology

7/1999-7/2003 **Oregon Health and Science University**, Portland OR
Internship and Residency
Department of Obstetrics & Gynecology

MEDICAL LICENSURE

State of Utah - #7338162
State of Montana
State of Wyoming
State of Idaho

BOARD and OTHER CERTIFICATIONS

American Board of Obstetrics and Gynecology, Diplomate 2005
American Board of Obstetrics & Gynecology, Subspecialty Certification in Maternal Fetal Medicine 2008
Electronic fetal monitoring (NCC) 2014

PROFESSIONAL APPOINTMENTS

Clinical

- 9/2009-present **Intermountain Healthcare**, Salt Lake City UT
Associate Professor, Clinician Researcher Track
Associate Medical Director, MFM Imaging Services
Division of Maternal Fetal Medicine, Department of Obstetrics & Gynecology
- 9/2011-present **University of Utah**, Salt Lake City UT
Adjunct Assistant Professor
Department of Obstetrics & Gynecology
- 7/2006-9/2009 **Minnesota Perinatal Physicians**, Minneapolis MN
Attending Physician
- 7/2003-7/2006 **University of Vermont**, Burlington VT
Clinical Instructor, Department of Obstetrics & Gynecology

Research

- 9/2008-present **University of Wisconsin-Madison**, Madison WI
Associate Scientist, Medical Physics Department

Other

- 10/2014-12/2017 **Global Alliance to Prevent Prematurity and Stillbirth**, Seattle WA
Senior Ultrasound Consultant

PROFESSIONAL SOCIETY MEMBERSHIPS

- Preterm Birth International Collaborative (elected), 2015-present
Perinatal Research Society (elected), 2012-present
Utah State Medical Society, 2009-present
Society for Reproductive Investigation (elected), 2008-present
American Institute for Ultrasound in Medicine, 2006-present
International Society for Ultrasound in Obstetrics and Gynecology, 2005-present
Society for Maternal-Fetal Medicine, 2003-present
American College of Obstetrics and Gynecology, 1999-present
Alpha Omega Alpha (elected), 1998-present
Phi Beta Kappa (elected), 1989-present

AWARDS and HONORS

- Women in Leadership, 2018
 Selected for 6 month intense leadership mentoring/coaching
 Received for contribution to national and local contribution to women's health
- Utah Business Physician Hero Award, 2016
 Annual award for service to local community
 Received for contribution to preterm birth research

American Red Cross Hero Award for International Service, 2015
Annual award for service to the international community
Received for contribution to global obstetrical ultrasound

ACOG/Kenneth Gottesfeld-Hohler Memorial Foundation Research Award in Ultrasound, 2006
Annual award for an ACOG member with outstanding ultrasound research
Received for research into obstetrical elasticity imaging

NICHD Young Investigator, 2005
Annual award for Obstetrics & Gynecology trainees with research talent

Ross Pharmaceuticals/New England Perinatal Society Research Award, 2005
Annual award for the Maternal Fetal Medicine Fellow with best perinatal research
Received for research into molecular mechanisms of cervical remodeling

Obstetrix Professional Development Award, 2003
Annual award for Maternal Fetal Medicine trainees with professional promise

American Medical Women's Association Janet M. Glasgow Memorial Achievement Citation, 1999
Annual award for medical student with professional promise

Oxford University Fellowship, 1998
Annual award for a medical student to obtain training at Oxford
Received for proposal to study midwifery in U.K.

Annetta Marie Jackson Memorial Scholarship for professional promise, 1997
Annual award for female graduate student
Received for outstanding achievement in public health (master's degree)

Carol A. Bowman Medical Writing Prize, 1997
Annual award for medical student with best essay in humanist medicine
Received for essay "Reconstructing Oscar: Allowing Patients to Die with Grace"

Dr. John Martin History of Medicine Prize, 1996
Annual award for medical student with best essay in history of medicine
Received for essay "Twilight Sleep: Obstetrics in the Era of Hysteria"

Soroptomist's Governor's Scholarship for academic achievement and community involvement, 1995
Annual award for medical student with community service

COMMITTEES and BOARDS

Chair, Society for Maternal Fetal Medicine AIDE-OB (Artificial Intelligence and Digital health for Evolution of Obstetric care) Task Force, 2021-present

Member, Steering Committee, Utah Fetal Center, 2021-present

Regular Member, Clinical Imaging and Translational Imaging Science (CTIS) Study Section, National Institutes of Health, 2020-present

Member, Board Nominations Committee, Society for Maternal Fetal Medicine, 2021-2022

Member, Board of Directors, Society for Maternal Fetal Medicine, 2020-present

Member, Ultrasound Subcommittee of Clinical Informatics Committee, Society for Maternal-Fetal Medicine, 2020-present

Member, Scientific Committee, International Society for Ultrasound in Obstetrics & Gynecology, 2020-present

Member, American Institute for Ultrasound in Medicine Artificial Intelligence in Imaging Task Force 2020-2021

Member, Selection Committees for executive and managerial positions within Womens Health at Intermountain Healthcare, 2020

Member, Research Executive Council, Intermountain Healthcare, 2019-present

Member, SMFM State Liaison Network, Society for Maternal Fetal Medicine, 2019-present

Member, Preterm Birth Task Force, Clinical Standards Committee, International Society for Ultrasound in Obstetrics & Gynecology, 2019-present

Member, W&N Executive Research Committee, Intermountain Healthcare, 2019-present

Member, Finance Committee, Society for Maternal Fetal Medicine Foundation, 2018-present

Member, Research Committee, Perinatal Quality Foundation, 2017-present

Member, Advisory Board, International Society for Ultrasound in Obstetrics & Gynecology, 2015-present

Member, Genetic Education Module (GEM) Task Force (of Perinatal Quality Foundation), 2015-2017

Member, Board of Directors, Perinatal Quality Foundation, 2014-2021

Member, Utah Womens and Newborns Quality Collaborative, Maternal Subcommittee, 2014-present

Member, Membership & Bylaws Committee, Society for Maternal-Fetal Medicine, 2013-2014

Member, Revenue Committee, Society for Maternal-Fetal Medicine, 2013-2014

Member, Anniversary Committee, Society for Maternal-Fetal Medicine, 2012-2013

Member, Outreach Committee, International Society for Ultrasound in Obstetrics & Gynecology, 2012-2019

Member, Board Nominations Committee, Society for Maternal-Fetal Medicine, 2012-2013

Director, Cervical Length Education & Review Program, Perinatal Quality Foundation, 2011-present

Member, Education Committee, Perinatal Quality Foundation, 2011-present

Chair, Education Committee, Society for Maternal-Fetal Medicine, 2011-2014

Member, Fellowship Committee, Society for Maternal-Fetal Medicine, 2011-2014

Chair, Outreach Subcommittee, Society for Maternal-Fetal Medicine, 2008-2010

Member, Development Group, Imaging the World, 2008-2012

RESEARCH GRANTS

Current Support

NIH R01HD072077-06 (multi-Principal Investigator)

Timothy Hall, PhD (multi-Principal Investigator)

Kristin Myers, PhD (multi-Principal Investigator)

“A multi-modality, multi-scale approach to understanding parturition”

09/01/2018-06/30/2023

NIH R01HD072077-01A1 (multi-Principal Investigator)

Timothy Hall, PhD (multi-Principal Investigator)

William Grobman, MD, MPH, MBA (multi-Principal Investigator)

“Elasticity assessment for predicting success of labor induction (EASI)”

09/06/2018-12/31/2022

Quality Improvement Research Award, Foundation for SMFM (Principal Investigator)

“A CLEAR road to quality improvement interventions for preterm birth in Utah”

01/01/2020-12/31/2021

Past Support

Intermountain Education and Research Foundation (Principal Investigator)

“Ultrasound biomarkers of cervical change II: a longitudinal study of cervical microstructure”

11/01/2015-04/25/2020

Intermountain Education and Research Foundation (Principal Investigator)

“Ultrasound biomarkers III: a longitudinal study of lower uterine segment and cervical macrostructure”

01/01/2017-5/1/2020

Wisconsin Alumni Research Foundation (WARF) Accelerator Award (co-Principal Investigator)
Timothy Hall, PhD (co-Principal Investigator)
“ClearView: lifesaving information when you need it”
08/01/2016-12/31/2018

NIH R01HD072077-01A1 (co-Principal Investigator)
Timothy Hall, PhD (co-Principal Investigator)
“Monitoring changes in cervical microstructure during pregnancy”
02/01/2013-12/31/2018

Intermountain Education and Research Foundation (co-Principal Investigator)
Stephanie Romero, MD (co-Principal Investigator)
“Ultrasound biomarkers of cervical change”
11/01/2013-10/31/2014

NIH GO 1RC2 EB 11439-01 (co-Investigator)
Scott Smith, PhD (Principal Investigator)
“Point of Care Ultrasound for Maternal Health”
07/01/2009-06/30/2013

NIH R21 HD063031-01 (co-Principal Investigator)
Timothy Hall, PhD (co-Principal Investigator)
“Quantifying cervical softness with elasticity imaging”
07/01/2010-12/31/2012

Gates Foundation, Grand Challenges in Global Health (Clinical Advisor)
Brian Garra, MD and Kristin DeStigter, MD (co-Principal Investigators)
“Low-cost sustainable solution for rural ultrasound”
05/01/2011-05/01/2012

NIH R21HD061896 (co-Principal Investigator)
Timothy Hall, PhD (co-Principal Investigator)
“Detecting changes in cervical microstructure with quantitative ultrasound”
09/07/2009-08/31/2011

Burroughs-Wellcome Prematurity Initiative (co-Investigator)
Michael House, MD (Principal Investigator)
“Beyond cervical length: development of a patient-specific model of cervical mechanical function”
10/01/2009-12/31/2010

Abbott-Northwestern Hospital Foundation (Principal Investigator)
“Quantitative Ultrasound with Beam Steering and Acoustic Radiation Force Impulse Imaging as Predictors of Cervical Remodeling”
07/01/2008-06/30/2009

ACOG/Kenneth Gottesfeld-Charles Hohler Memorial Foundation (Principal Investigator)
“Sonographic Cervical Assessment with Novel Emerging Methodologies (SCAN’EM)”
07/01/2005-06/30/2006

NIH NCRR M01 RR00109 (Principal Investigator)
Clinical Research Feasibility Funds Award
General Clinical Research Center, University of Vermont
“Sonographic Cervical Assessment with Novel Emerging Methodologies (SCAN’EM): elastography and quantitative backscatter analysis as predictors of cervical ripeness”
07/01//2004-06/30/2005

University of Vermont Department of Obstetrics and Gynecology (Principal Investigator)
Research Finance Committee pilot funds
“Investigation of the Proteoglycan Component of the Uterine Cervix”
10/01/04-09/30/05

University of Iowa College of Medicine (Principal Investigator)
“Clustering of Leishmaniasis in a Village in Rural Northeastern Brazil”
06/01/1996-08/30/1996

University of Iowa Center for International Rural and Environmental Health (Principal Investigator)
“Health Effects of Grain Dust on Threshing Workers in Poland”
03/01/1995-08/15/1995

INVITED PRESENTATIONS *(truncated to include only those most relevant to research areas)*

New technologies and your future research & practice – shear wave, elastography & more, GOHO Annual MFM Fellow Course , Fort Lauderdale FL, December 2021.

Ultrasound & labor – term and preterm, GOHO Annual MFM Fellow Course , Fort Lauderdale FL, December 2021.

Fetal skeletal dysplasias, Gottesfeld Hohler 30th Annual Update in OB/GYN, Fort Lauderdale FL, December 2021.

How artificial intelligence will change gynecologic and obstetric imaging”, 25th Brazilian Congress of Ultrasonography, Virtual, October 2021.

DL, ML, fusion artificial intelligence: what could we obstetric providers use the most? ISUOG 31st World Congress on Ultrasound in Obstetrics and Gynecology, Virtual, September 2021

Will AI replace ultrasound professionals? ISUOG Webinar series: Is AI the future of ultrasound in obstetrics and gynecology? Virtual, September 2021

Quantitative ultrasound of the cervix: today & tomorrow, Society for Reproductive Investigation annual meeting, Boston MA, July 2021.

Precision parturition: is it possible? Research Lecturer, Kings College London, Virtual, May 2021.

The clinical need for AI: panel discussion on workflow enhancements. AIUM Summit on State of Artificial Intelligence in Ultrasound Imaging, Virtual, January 2021.

How artificial Intelligence will change the way we do obstetrical imaging. Ultrasound in obstetrics & Gynecology – the current state of the art around the world. ISUOG 30th anniversary, Virtual, January, 2021.

Quantitative ultrasound evaluation of pregnancy tissues, AIUM Lecture series, Virtual, December, 2020.

Bare bones: basics of osteochondrodysplasias, AIUM Expert Lecture Series, Virtual, October 2020.

Artificial intelligence in obstetrical ultrasound, Texas Children’s Symposium on Artificial Intelligence in Pediatric Radiology, Virtual, November 2020.

Preterm birth: state of the art. Fundacion Internacional de Medicina Materno Feto, Virtual, November 2020.

Getting precise about parturition: can we deliver on the question “when will I deliver?”, Rudy E. Sabbagha Endowed Lectureship, Northwestern University Feinberg School of Medicine, (virtual), October, 2020.

Preterm delivery update and fundamentals. Fundamentals in maternal fetal medicine , Fundacion Internacional de Medicina Materno Feto, Virtual, August 2020.

Precision medicine for pregnancy: biomarkers in maternal fetal medicine. Fundamentals in maternal fetal medicine , Fundacion Internacional de Medicina Materno Feto, Virtual, August 2020.

Bare Bones: fundamentals of skeletal dysplasias. Gottesfeld Hohler 29th annual update, Virtual, December 2020.

Cervical assessment for prediction of preterm birth. Preterm birth: Update and fundamentals. Worldwide session. Fundacion Internacional de Medicina Materno Feto, Virtual, October 2020.

What’s real about artificial intelligence: a clinician’s perspective. Invited expert to FDA Public Workshop on Evolving Role of Artificial Intelligence in Radiologic Imaging, Bethesda MD, February 2020.

Progesterone for preterm birth prevention in 2020. 46th Annual Vail OB-GYN Conference, Vail CO, February 2020

Precision medicine for obstetrics: how will emerging biomarkers and big data change tomorrow’s practice? 24th Annual Conference on Clinical Issues in Ob/Gyn, Symposia Medicus, Cancun, Mexico, February 2020.

Precision parturition: more than just a pretty name. Grand Rounds, Mt. Sinai Icahn School of Medicine, New York City, NY, November 2019.

Preterm birth prediction: how can omics help? 29th World Congress on Ultrasound in Obstetrics and Gynecology, International Society for Ultrasound in Obstetrics and Gynecology Annual Meeting, Berlin, October 2019.

How do we deliver on the question of every pregnant woman (when will I deliver)? Grand Rounds, University of California-San Francisco, San Francisco CA, September 2019.

A multi-biomarker approach to precision parturition. Grand Rounds, Beth Israel Deaconess Medical Center, Boston MA, July 2019.

CERVIX. The Essential Ultrasound Course for Maternal-Fetal Medicine, Society for Maternal Fetal Medicine, New Orleans, LA, June 2019.

Precision Medicine for Obstetrics: state of the art. International Course for Maternal Fetal Medicine, Medicino Materno Fetal Latin America, Mexico City, Mexico, May 2019.

Precision Medicine and Preterm Birth: getting from bench to bedside. Grand Rounds, Yale University Department of Obstetrics, Gynecology and Reproductive Sciences, April 2019.

What would Dr Eastman think? 21st century thoughts on ancient ideas about labor. Johns Hopkins annual Nicholson J Eastman lectureship, April 2019.

Getting Acquainted with Health Care Quality. Society for Maternal Fetal Medicine Annual Meeting, Las Vegas, NV, February 2019.

Ultrasound Technology: future waves. Gottesfeld-Hohler MFM Fellow Ultrasound Training Course, Ft Lauderdale, FL, December 2018.

Ultrasound in Preventing the Great Obstetrical Problems: preterm birth. 28th World Congress on Ultrasound in Obstetrics and Gynecology, International Society for Ultrasound in Obstetrics and Gynecology Annual Meeting, Singapore, October 2018.

Preterm Birth: what is your legal responsibility? Perinatal Care & the Law: Birth of a Lawsuit, Las Vegas, NV, September 2018.

Evaluation and management of Patients at risk for preterm birth. Northwest Perinatal Symposium, Portland, OR, September 2018.

Preterm Birth: a growing global problem that requires a team approach. 8th World Congress on Biomechanics, Dublin, Ireland, July 2018.

The new growth curves: which is best for you? Curso Internacional de Medicina Materno Fetal, Guayaquil, Ecuador, June 2018.

Precision medicine for preterm birth prediction: cervical length and other biomarkers. Curso Internacional de Medicina Materno Fetal, Guayaquil, Ecuador, June 2018.

What to do with the short cervix? Curso Internacional de Medicina Materno Fetal, Guayaquil, Ecuador, June 2018.

Preterm birth: state of the art. Maternal Fetal Medicine Foundation Latin America, Webinar, April 2018.
Preterm birth prediction and prevention. XX Congreso Ginecología y Obstetricia, Fundación Santa Fe de Bogotá, Cartagena Colombia, February 2018.

The future of cervical evaluation. Society for Maternal-Fetal Medicine Annual Meeting, Dallas, TX, January 2018.

Biomarkers and imaging: adding precision to medical decision-making. 33rd Annual Steamboat Perinatal Conference, Steamboat Springs, CO, January 2018.

A multi-biomarker approach to preterm birth. Gottesfeld-Hohler 26th Annual Ob/Gyn Ultrasound Update, Ft Lauderdale FL, December 2017.

Can we improve on prediction of preterm birth? pre-Congress course “Modern Obstetric Management: the Latest Updates”, 27th World Congress on Ultrasound in Obstetrics and Gynecology, International Society for Ultrasound in Obstetrics and Gynecology Annual Meeting, Vienna, Austria, September 2017.

Precision Medicine for Pregnancy: How Can We Use Imaging and Other Biomarkers? XVI Curso Internacional de Ultrasonido, Sociedad Mexicana de Radiología e Imagen A.C., Mexico City, Mexico, September 2017.

Cervical length ultrasound for predicting timing of delivery. XVI Curso Internacional de Ultrasonido, Sociedad Mexicana de Radiología e Imagen A.C., Mexico City, Mexico, September 2017.

Dating pregnancies: why and how? XVI Curso Internacional de Ultrasonido, Sociedad Mexicana de Radiología e Imagen A.C., Mexico City, Mexico, September 2017.

The role of ultrasound in the era of noninvasive pregnancy testing. XVI Curso Internacional de Ultrasonido, Sociedad Mexicana de Radiología e Imagen A.C., Mexico City, Mexico, September 2017.

Preterm birth: what we know and what we don't. Perinatal Dilemmas, Contemporary Forums, Jackson Hole, WY, June 2017.

Cervical length pitfalls. Perinatal Dilemmas, Contemporary Forums, Jackson Hole, WY, June 2017.

Caring for complicated twins. Perinatal Dilemmas, Contemporary Forums, Jackson Hole, WY, June 2017.

Cervicometria para predecir el momento del parto. XIX Congreso Ginecología y Obstetricia, Fundación Santa Fe de Bogotá, Cartagena Colombia, May 2017.

Crecimiento fetal son mejores las curvas personalizadas? XIX Congreso Ginecología y Obstetricia, Fundación Santa Fe de Bogotá, Cartagena Colombia, May 2017.

The future of cervical assessment. American College of Obstetricians and Gynecologists Annual Clinical & Scientific Meeting, San Diego, CA, May 2017.

Treatment approaches to the short cervix. American College of Obstetricians and Gynecologists Annual Clinical & Scientific Meeting, San Diego, CA, May 2017.

Have we made progress with preterm birth? United Way, Provo UT, April 2017.

How and why we measure the cervix. Colorado Safe Deliveries Meeting, Denver CO, March 2017.

Precision medicine for preterm birth: where do we start? Ob/Gyn Grand Rounds, University of Rochester, Rochester NY, March 2017.

Fetal biometry: the original imaging biomarker. Postgraduate course "Ultrasound and Biomarkers: a New Era in Identifying Complications of Pregnancy", Society for Maternal-Fetal Medicine Annual Meeting, Las Vegas, NV, January 2017.

Are there biomarkers better than cervical length for predicting preterm birth? Postgraduate course "Ultrasound and Biomarkers: a New Era in Identifying Complications of Pregnancy", Society for Maternal-Fetal Medicine Annual Meeting, Las Vegas, NV, January 2017.

From a distance: overseeing ultrasound quality from the other side of the world. Postgraduate course "Ultrasound and Biomarkers: a New Era in Identifying Complications of Pregnancy", Society for Maternal-Fetal Medicine Annual Meeting, Las Vegas, NV, January 2017.

The future of cervical evaluation, Postgraduate Course "Cervical Length Education and Review (CLEAR) Program", Society for Maternal Fetal Medicine Annual Meeting, Las Vegas, NV, January 2017.

Why measure cervical length, Postgraduate Course "Cervical Length Education and Review (CLEAR) Program", Society for Maternal Fetal Medicine Annual Meeting, Las Vegas, NV, January 2017.

From there to here: cervical assessment in the era of precision medicine. Grand Rounds, Eastern Virginia Medical College, Norfolk VA, December 2016.

All things cervix. Gottesfeld-Hohler 25th Annual Ob/Gyn Ultrasound Update, Ft Lauderdale FL, December 2016.

Growth & dating. Gottesfeld-Hohler 25th Annual Ob/Gyn Ultrasound Update, Ft Lauderdale FL, December 2016.

Cervical length: why and how. American College of Obstetricians and Gynecologists District II annual meeting, NYC NY October 2016.

Liability and preterm birth. Contemporary Forums, "Birth Injuries and the Law", Las Vegas NV October 2016.

The cervix and preterm birth: learning from history to design the future. Ob/Gyn, UC-San Francisco, San Francisco CA, August, 2016.

Emerging technologies for the cervix. 2nd annual European Spontaneous Preterm Birth Congress, Gothenburg, Sweden, May 2016.

High tech solutions for low income areas. 31st Annual Steamboat Perinatal Conference, Steamboat Springs CO, January 2016.

Cervical imaging: beyond ultrasound. 30th Annual Steamboat Perinatal Conference, Steamboat Springs CO, January 2016.

The future of cervical evaluation, Postgraduate Course “Cervical Length Education and Review (CLEAR) Program”, Society for Maternal Fetal Medicine Annual Meeting, Atlanta GA, February 2016.

Why measure cervical length, Postgrad Course “CLEAR Program”, Society for Maternal Fetal Medicine Annual Meeting, Atlanta GA, February 2016.

What’s really going on in the cervix – term and preterm. 24th Annual Ob/Gyn Ultrasound Update, Ft Lauderdale FL, December 2015.

The future of ultrasound – how new technology will come to your office soon. 24th Annual Ob/Gyn Ultrasound Update, Ft Lauderdale FL, December 2015.

Ultrasonography to assess cervical competence. Preterm Birth International Collaborative, Seattle WA, November 2015.

More than double the trouble?: caring for twins and their mothers. 32nd Annual High Risk Obstetric Nursing Conference, Las Vegas NV, November 2015.

Preterm birth: what’s here today and coming tomorrow in labor & delivery care. 32nd Annual High Risk Obstetric Nursing Conference, Las Vegas NV, November 2015.

Estimating gestational age. Gates Foundation Grand Challenges Annual Meeting, Beijing China, October 2015.

Cervical elastography & how it can help”, Postgraduate Course “Ultrasound in Term and Preterm Labor”, International Society for Ultrasound in Obstetrics & Gynecology, Montreal CA, October 2015.

Cervical elasticity imaging. 5th International Meeting on Sono-Elastography, Bardolino, IT, September 2015.

Nuevas Tecnologías Imagen en Obstetricia. Ultrasonida Avanzado en Malformaciones Congénitas – Medicina Fetal, Bogotá Colombia, March 2015.

Ultrasonida en Gemelos: role de ultrasonido en el manejo. Ultrasonida Avanzado en Malformaciones Congénitas – Medicina Fetal, Bogotá Colombia, March 2015.

Quantitative ultrasound for the ob/gyn. American Institute for Ultrasound in Medicine annual meeting, Orlando FL, March 2015.

Emerging technologies for imaging in obstetrics. Postgraduate course “Ultrasound for the MFM”, Society for Maternal-Fetal Medicine Annual Meeting, San Diego, CA, February 2015.

E is for enthusiasm, Intermountain Healthcare annual nursing conference, Salt Lake City UT, September 2014.

Advanced technologies for cervical imaging. CEO Lecture Series, Siemens Ultrasound USA, Issaquah, WA, December 2013.

Imaging cervical function. American Gynecological and Obstetrical Society Annual Meeting, Chicago, IL, September 2013.

From biparietal diameters to shear waves: five decades of quantitative imaging in obstetrics. Ultrasonic Tissue Annual Symposium, Arlington VA, June 2013.

Noninvasive means of exploring cervical integrity. Society for Gynecologic Investigation Summit, Jerusalem, Israel, May 2013.

Emerging ultrasound methods for quantitative assessment of cervical microstructure and softening in pregnancy. Society for Gynecological Investigation Annual Meeting, Orlando, FL, March 2013.

Basic concepts of cervical remodeling in pregnancy. Society for Maternal-Fetal Medicine Annual Meeting, San Francisco CA, February 2013.

Emerging approaches to cervical assessment. 11th International Tissue Elasticity Conference, Deauville France, October 2012.

Quantitative imaging: the basics. International Society of Ultrasound in Obstetrics and Gynecology annual meeting, Copenhagen, Denmark, September 2012.

Cervical evaluation with quantitative ultrasound. International Society of Ultrasound in Obstetrics and Gynecology annual meeting, Copenhagen, Denmark, September 2012.

Quantitative assessment of cervical microstructure: application to preterm birth studies, International Symposium on Ultrasonic Imaging and Tissue Characterization annual meeting, Washington DC, June 2012.

Cervical Structure and the Extracellular Matrix: Is there a Higher Risk of Prematurity in OI? Osteogenesis Imperfecta Society Annual Meeting, April 2012.

Limbs and Bones: an Update, Steamboat Springs Perinatal Conference, Steamboat Springs CO, January 2012.

The Cervix and Preterm Labor: Does Ultrasound Matter in Good Management?, Gottesfeld-Hohler Ultrasound Conference, Ft Lauderdale FL, December 2011.

Beyond cervical length: feasibility of developing a comprehensive program for cervical microstructural assessment, Grand Rounds, University of Utah, Salt Lake City UT, September 2011.

Prepregnancy counseling: What Every Patient Needs to Know, Advances in Obstetrical Management 2011, Society for Maternal-Fetal Medicine joint postgraduate course, Ft Lauderdale FL, March 2011.

Diagnosing cervical problems, Advances in Obstetrical Management 2011, Society for Maternal-Fetal Medicine joint postgraduate course, Ft Lauderdale FL, March 2011.

Diabetes update, 2011, Advances in Obstetrical Management 2011, Society for Maternal-Fetal Medicine joint postgraduate course, Ft Lauderdale FL, March 2011.

Twins-double trouble, Advances in Obstetrical Management 2011, Society for Maternal-Fetal Medicine and Maternal-Fetal Medicine joint postgraduate course, Ft Lauderdale FL, March 2011.

New approaches to cervical assessment: applications in search of technologies, Grand Rounds, University of Vermont, Burlington VT, January 2011.

Global maternal mortality: is there a role for ultrasound?" Steamboat Springs Perinatal Conference, Steamboat Springs CO, January 2011.

The cervix: new thoughts on an old topic, Society for Maternal-Fetal Medicine/Healthcare Corporation of America Perinatal Conference, Austin TX November 2010.

Biochemistry actually explains cervical change, Steamboat Springs Perinatal Conference, Steamboat Springs CO, January 2010.

Cervical microstructure, Society for Maternal-Fetal Medicine/Minnesota Perinatal Physicians Fall Conference, Minneapolis MN, October 2009.

What else can we see with cervical ultrasound?, Steamboat Springs Perinatal Conference, Steamboat Springs CO, January 2009.

Approach to the advanced maternal age patient, 27th Annual Minnesota Perinatal Organization Fall Conference, September 2008.

Diabetes in pregnancy: how can ultrasound help?, Ultrasound in Obstetrics & Gynecology, Minneapolis, MN, October 2007.

Ultrasound waves: the future of cervical imaging?, 14th Annual Ob/Gyn Ultrasound Update for Clinical Practice, Ft Lauderdale, FL, December 2005.

Cervix 101: architecture, Grand Rounds, Department of Ob/Gyn, University of Vermont, Burlington, VT, March 2005.

Cervical length ultrasound and fetal fibronectin testing: technologies in search of applications, 26th Postgraduate Course in Obstetrics and Gynecology, Burlington VT, September 2004.

What does she need: the politics of orgasm, Grand Rounds, Oregon Health and Science University, Portland OR, May 2003.

Feminism and obstetrical anesthesia, Portland Obstetrics and Gynecology Society meeting, Portland OR, April 2002.

History of anesthesia in obstetrics, University of Iowa Medical Historical Association, Iowa City IA, May 1998.

Twilight sleep, American Association for the History of Medicine/History of Anesthesia Society meeting, Williamsburg VA, April 1997.

PUBLICATIONS

Original Peer-Reviewed (exclude Conference Papers)

Torres A, Palmeri ML, *Feltovich H*, Hall TJ, Rosado-Mendez IM. Shear wave dispersion as a potential biomarker for cervical remodeling during pregnancy: evidence from a non-human primate model. *Front Phys* 2021; Feb;8:606664. PMID: 34178971

Kari M, *Feltovich H*, Hall TJ. Correlation length ratio as a parameter for determination of fiber-like structures in soft tissues. *Phys Med Biol* 2021; Feb 24; 66(5):055017. PMID: 33508818

Louwagie EM, Carlson L, Over V, Mao L, Fang S, Westervelt A, Vink J, Hall T, *Feltovich H** and Myers K* (equal contribution). *PLoS One* 2021; 16(1):e0242118. PMID: 33507927

Santoso AP, Vink JY, Gallos G, *Feltovich H*, Hall TJ. Quantitative ultrasound detects smooth muscle activity at the cervical internal os in vitro. *Ultrasound Med Biol* 2020; 46(1):149-155. PMID: 31668428

Feltovich H. Labour and delivery: a clinician's perspective on a biomechanics problem. *Interface Focus*, 2019; 9(5):20190032. PMID: 31485317

Carlson LC, Hall TJ, Rosado-Mendez I, Mao L, *Feltovich H*. Quantitative assessment of cervical softening during pregnancy with shear wave elasticity imaging: an in vivo longitudinal study. *Interface Focus*, 2019; 9(5):20190030. PMID: 31485315

Guerrero QW, *Feltovich H*, Rosado-Mendez IM, Santoso AP, Carlson LC, Zea R, Hall TJ. Quantitative ultrasound parameters based on the backscattered echo power signal as biomarkers of cervical remodeling: a longitudinal study in the pregnant Rhesus macaque. *Ultrasound Med Biol* 2019; 45(6): 1466-1474, 2019. PMID 30979594

Guerrero QW, *Feltovich H*, Rosado-Mendez IM, Carlson, LC, Hall, TJ. Quantitative ultrasound parameters based on backscattered acoustic power: potential for quantifying remodeling of the human cervix during pregnancy. *Ultrasound Med Biol* 2019; 45(2):429-439. PMID 30473174

Rosado-Mendez IM, Carlson L, Woo K, Santoso A, Guerrero Q, Palmeri M, *Feltovich H*, Hall TJ. Quantitative assessment of cervical softening during pregnancy in the Rhesus macaque with shear wave elasticity imaging. *Physics Med Biol* 2018; 19:63(8):085016. PMID 29517492

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Society for Maternal Fetal Medicine Health Policy Advocacy Committee, Maykin MM, Heuser C, *Feltovich H.* Pregnant people deserve the protection offered by SARS-CoV-2 vaccines. Vaccine 2021; Jan 39(2):171.

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Book Chapters

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- Krakow D, Chondrodysplasia punctata (Chapter 56). In Copel J, D'Alton ME, Gratacos E, Platt LD, Tutschek B, *Feltovich H*, Odibo AO eds, Obstetric Imaging, Elsevier (Philadelphia PA), 2012.
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- Parikh R, Peterson E. Trisomy 18 (Chapter 165). In Copel J, D'Alton ME, Gratacos E, Platt LD, Tutschek B, *Feltovich H*, Odibo AO eds, Obstetric Imaging, Elsevier (Philadelphia PA), 2012.
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- Zacharias NM, Van den Veyver IB. 5p- syndrome (Chapter 170). In Copel J, D'Alton ME, Gratacos E, Platt LD, Tutschek B, *Feltovich H*, Odibo AO eds, Obstetric Imaging, Elsevier (Philadelphia PA), 2012.
- Chien EK, *Feltovich H*. Maternal Biochemical, biophysical, and biomechanical changes in pregnancy. (Chapter 35). In Reece and Hobbins, eds, Clinical Obstetrics, 3rd ed., 2005.

EDUCATIONAL ACTIVITIES

Curricula and Programmatic Development Activities

| | |
|-----------|---|
| 2022 | Chair, Society for Maternal Fetal Medicine AIDE-OB Task Force (Artificial Intelligence for Digital health Evolution of Obstetric care) |
| 2022 | Co-Director, |
| 2022 | Co-Director, SMOptimizing Your Prenatal Diagnosis: from the Basics to Advanced Technologies (SMFM-ISUOG joint course), Society for Maternal Fetal Medicine Annual Meeting, Gaylord TX |
| 2022 | Co-Director, Early Diagnosis, Better Care: the 1 st Trimester Anatomy Scan, Society for Maternal Fetal Medicine Annual Meeting, Gaylord TX |
| 2021 | Section head, "Fetal Growth", International Society for Ultrasound in Obstetrics & Gynecology 31 st Annual Meeting (Virtual) |
| 2021 | Section head, "Artificial Intelligence", International Society for Ultrasound in Obstetrics & Gynecology 31 st Annual Meeting (Virtual) |
| 2021 | Organizer, COVID-19 Vaccine Myths and Ethics, Dr Paul Krakovitz Grand Rounds, Intermountain Healthcare, Salt Lake City UT |
| 2020 | Co-director, "Imaging the Future of Obstetrics through the Lens of Preterm Birth" American Institute for Ultrasound in Medicine Annual Meeting, NYC, NY |
| 2020 | Co-Director, Postgraduate course "Quality Metrics in Obstetrics: why & how?", Society for Maternal-Fetal Medicine Annual Meeting, Grapevine, TX |
| 2019- | Director, Obstetric imaging program for OBG trainees, Khesar Gyalpo University of Medical Sciences of Bhutan, Thimphu, Bhutan (through The Link) |
| 2019 | Chair, Maternal Fetal Medicine Symposium, 1 st China-USA Medical International Summit, China-HOSPEQ convention, Beijing, China |
| 2019 | Director, Postgraduate course "Quality Metrics in Obstetrics: why & how?", Society for Maternal-Fetal Medicine Annual Meeting, Las Vegas, NV |
| 2019 | Session Chair, Society for Reproductive Investigation Annual Meeting |
| 2018-2021 | Faculty, Gottesfeld-Hohler Annual MFM Fellow Ultrasound Training Course |
| 2018 | Director, Postgraduate course "Preterm Birth and CLEAR", Society for Maternal-Fetal Medicine Annual Meeting, Dallas TX |
| 2018 | Session Chair, Society for Maternal Fetal Medicine Annual Meeting |
| 2017 | Co-Director, Pre-Congress course "Modern Obstetric Management: the Latest Updates", 27 th World Congress on Ultrasound in Obstetrics and Gynecology, International Society for Ultrasound in Obstetrics and Gynecology Annual Meeting (in collaboration with Society for Maternal-Fetal Medicine), Vienna, Austria |
| 2017 | Director, Postgraduate course "Ultrasound and Biomarkers: a New Era in Identifying Complications of Pregnancy", Society for Maternal-Fetal Medicine Annual Meeting (in collaboration with Int'l Society for Ultrasound in Ob/Gyn), Las Vegas, NV |
| 2015 | Director, Postgraduate course "Ultrasound for the MFM", Society for Maternal-Fetal Medicine annual meeting, San Diego CA |
| 2015 | Creator, "Basics of Ultrasound" training course and book to teach basic fetal ultrasound to doctors, nurses and midwives in low and middle income countries |
| 2014-2017 | Director, OB Ultrasound Training Program, Bangladesh & Zambia, Global Alliance to Prevent Prematurity & Stillbirth |
| 2014 | Co-Creator, "Critical Care in Obstetrics: An Innovative and Integrated Model for Learning the Essentials," Society for Maternal-Fetal Medicine (has turned into annual offering) |
| 2013 | Symposium Director, "Cervical length and beyond: current trends in assessment of the pregnant cervix", Society for Gynecologic Investigation Annual Meeting, Orlando FL |

2013 Co-Director, Postgraduate course “Assessing the Pregnant Cervix in 2013”, Society for Maternal-Fetal Medicine annual meeting, San Francisco CA

2012-2021 Session Chair, Int’l Society of Ultrasound in Obstetrics & Gynecology Annual Meeting

2012-2015 Invited Faculty, Society for Maternal Fetal Medicine Annual Fellows Retreat

2012-2013 Session Chair, Ultrasonic Tissue Characterization Symposium

2011 Co-Creator, “Cervical Length Education and Review” credentialing program for US providers

2011-2018 Judge, Society for Gynecologic Investigation Annual Meeting

2010-2015 Session chair, International Tissue Elasticity Conference

Trainees

Lisa Reusch PhD, post-doc completed 2012 (University of Wisconsin-Madison)

Stephanie Romero MD, MFM fellowship research completed 2013 (University of Utah)

Lindsey Carlson, PhD awarded 2017 (University of Wisconsin-Madison)

Quincy Guerrero, PhD awarded 2018 (University of Wisconsin-Madison)

Ivan Rosado-Mendez, post-doc completed 2018 (University of Wisconsin-Madison)

Andrew Santoso, PhD awarded 2019 (University of Wisconsin-Madison)

Andrea Westerfeldt, PhD awarded 2020 (Columbia University)

Abel Torres, MS awarded 2021 (UNAM, Mexico)

Erin Louwagie, current PhD candidate (Columbia University)

Shu Fan, current PhD candidate (Columbia University)

Alexandra Christensen, current PhD candidate (University of Wisconsin-Madison)

Felix Jin, current MD/PhD candidate (Duke University)

Peer Review Activities

Journal reviewer, 2007-present

American Journal of Obstetrics and Gynecology

American Journal of Perinatology

Biology of Reproduction

British Journal of Obstetrics and Gynaecology

British Medical Journal

Journal de Biologie Medical

Journal of Biophotonics

Journal of Clinical Medicine

Journal of Ultrasound in Medicine

Journal of Ultrasound in Medicine and Biology

Obstetrics and Gynecology

Reproductive Sciences

Ultrasonic Imaging

Ultrasound in Obstetrics and Gynecology

NIH grant reviewer

Regular member (Clinical Translational Imaging Science Study Section) 2020-2024

Ad hoc 2011-2019

Society annual meeting abstract reviewer

International Society for Ultrasound in Obstetrics and Gynecology, 2012-present

Society for Reproductive Investigation, 2012-present

Society for Maternal-Fetal Medicine, 2018-present

Patents

Method and Apparatus for assessing risk of preterm birth by Hall TJ and Feltovich HM.
US Patent 8,727,986 B2, 2014.

Method and Apparatus for Quantifying Organization in Collagenous Tissue by Hall TJ, Feltovich HM and Reusch LM.
US Patent 9,060,709, 2015.

Obstetrical Imaging at the Point of Care for Untrained or Minimally Trained Operators by Feltovich HM and Hall TJ.
US Patent (pending; USP 201562187079).