

Anita J. Moon-Grady, MD

Professor of Clinical Pediatrics
Pediatrics
School of Medicine
Box 0544
550 16th Street, 5th Floor
University of California, San Francisco
San Francisco, CA 94158
415-353-1701
Fax: 415-353-4144
Anita.MoonGrady@ucsf.edu

EDUCATION

1984 - 1988	Bryn Mawr College, Bryn Mawr, PA	B.A.	Summa Cum Laude, Biology
1989 - 1993	Stanford Medical School, Stanford, CA	M.D.	Medicine
1993 - 1994	University of California, Davis	Intern	Pediatrics
1994 - 1996	University of California, Davis	Resident	Pediatrics
1997 - 1999	University of California, Davis	Fellow	Neonatal/Perinatal Medicine
1999 - 2002	University of California, San Francisco	Fellow	Pediatric Cardiology

CURRENT POSITION

2008 - present	University of California, San Francisco	Director, Fetal Cardiovascular Program at the Benioff Children's Hospital and The Fetal Treatment Center
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PRINCIPAL POSITIONS HELD

1996 - 1997	Del Norte Clinics, Olivehurst, CA	Medical Staff	Pediatrics
2002 - 2008	University of California, San Francisco	Assistant Clinical Prof WOS Pediatrics	
2002 - 2008	University of California, Davis	Assistant Professor of Clinical Pediatrics	
2008 - 2012	University of California, San Francisco	Associate Professor of Clinical Pediatrics	
2012 - present	University of California, San Francisco	Professor of Clinical Pediatrics	

HONORS AND AWARDS

1988	B.A. with Honors in Biology, Summa Cum Laude	Bryn Mawr College
1993	Dean's Award for Research	Stanford University School of Medicine
1996	Award for Excellence in Neonatology	Department of Pediatrics, UC Davis Medical Center
1999	Award for Outstanding Contribution to Education of Housestaff	Department of Pediatrics, UC Davis Medical Center
1999	Award for Outstanding Contribution to Education of Housestaff, UC Davis Medical Center, Pediatrics	
2001	First Prize, Fellow Abstract Session, "Predictors of Outcome in the Fetus, Infant, and Child with Tetralogy of Fallot and Absent Pulmonary Valve"	The California Society for Pediatric Cardiology Annual Meetings
2007	Outstanding Junior Pediatric Faculty Prize	UC Davis School of Medicine
2007	America's Best Doctors	
2008	America's Best Doctors	
2009	America's Best Doctors	
2010	America's Best Doctors	
2011	Best Abstract, Oral Abstract, "Diastolic Pathology and Clinical Twin-twin Transfusion Syndrome"	Society for Maternal-Fetal Medicine Annual Scientific Sessions
2011	Awarded Competitive Admission to the AAMC AAMC Faculty Women's Leadership Workshop, Austin, TX	
2019	2019 UCSF Health Exceptional Physician Award, Honorable Nomination	University of California

KEYWORDS/AREAS OF INTEREST

Pediatric cardiology, echocardiography, fetal echocardiography, fetal cardiology, fetal intervention, non-invasive imaging, diastology, telemedicine, pulmonary hypertension, cardiac mechanics

MEMBERSHIPS

American Medical Association
American Heart Association
Fellow, American Academy of Pediatrics
Fellow, American College of Cardiology
Fellow, American Society of Echocardiography
Fellow, American Institute of Ultrasound in Medicine
Society of Pediatric Echocardiography

Western Society of Pediatric Cardiologists
 Fetal Heart Society
 International Fetal Medicine and Surgical Society
 International Society of Ultrasound in Obstetrics and Gynecology

SERVICE TO PROFESSIONAL ORGANIZATIONS

2010 - 2010	American Society of Echocardiography, Writing Group: "Echocardiography in the NICU Guidelines/Standards"	Member
2011 - 2012	American Heart Association, Writing Group for Scientific Statement: "Diagnosis and Treatment of Fetal Cardiac Disease"	Member
2012 - 2013	American Society of Echocardiography Public Relations Committee	Member
2012 - 2014	American Society of Echocardiography, Pediatric Council	Member-at-Large
2012 - 2014	American Society of Echocardiography	Scientific Sessions Abstract Grader
2012	North American Fetal Therapy Network (NAFTNet) Steering Committee	Member
2013 - 2014	American College of Cardiology	Scientific Sessions Abstract Grader
2014 - 2019	Fetal Heart Society Board	Founding Member Vice President 2014-2019, 2019-2022
2014	American Society of Echocardiography, Membership Committee	Member (3-year term, through 2017)
2014	American Society of Echocardiography, Advocacy Committee	Member (3-year term, through 2017)
2014	Ultrasound Practice Accreditation Committee (UPAC)	Member (3-year term, through 2017)
2014	American Institute of Ultrasound in Medicine, Fetal Echo Section	Secretary 2014-16 (will serve as Vice Chair 2016-18 and Chair 2018-20)
2014	American Heart Association	Scientific Sessions Abstract Grader
2014 - 2017	NAFTNet Executive Board (elected)	Member (3-year term, through 2017)
2015 - present	American College of Cardiology	Scientific Sessions Abstract Grader
2015 - present	American Heart Association	Scientific Sessions Abstract Grader
2016 - present	Medical Advisory Board, Children's Heart Foundation	California Chapter Board Member
2018 - present	Ultrasound Practice Accreditation Committee (UPAC)	Chair (2018-present)

SERVICE TO PROFESSIONAL PUBLICATIONS

- 2002 - present Ad hoc reviewer for Journals: Pediatrics, Journal of the American College of Cardiology, American Journal of Cardiology, Heart, Journal of the American Society of Echocardiography, Circulation, Journal of Ultrasound in Medicine, Ultrasound in Obstetrics and Gynecology, Fetal Diagnosis and Therapy, Prenatal Diagnosis, American Journal of Obstetrics and Gynecology
- 2008 - present Advisory Editorial Board, Pediatric Cardiology
- 2009 - 2010 Special Guest Editor, International Journal of Pediatrics "The Fetus as a Cardiac Patient."
- 2014 - present Editorial Board, Journal of the American Society of Echocardiography
- 2016 - present Editorial Board, Ultrasound in Obstetrics and Gynecology
- 2018 - 2021 Editorial Board, Section Editor, Ultrasound in Obstetrics and Gynecology

INTERNATIONAL INVITED PRESENTATIONS

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| 2006 | International Conference on Congenital Heart Disease, San Francisco, CA | Faculty |
| 2007 | Pediatric Telemedicine Workshop ("Telecardiology"), Pediatric Academic Societies Annual Meeting, Toronto, Ontario, Canada | Speaker |
| 2008 | Inpatient Pediatric Telemedicine Workshop; session leader, Telecardiology Applications to Inpatient Setting, Pediatric Academic Societies' Annual Meeting, Honolulu, HI | Chair and Organizer, Speaker |
| 2010 | Fetal Cardiology Sessions and Workshop, Conference on Congenital Cardiology: Fetus to Adult, Kuwait City, Kuwait | Invited Speaker |
| 2010 | "Fetal Cardiac Intervention" Symposium, International Society for Prenatal Diagnosis 15th International Meeting, Amsterdam, Netherlands | Keynote Speaker |
| 2010 | Invited Speaker on selected Fetal Cardiology Topics, Clinica Alemana Obstetrics and Gynecologists III International Conference, Santiago, Chile | Speaker |
| 2010 | "The Fetus With an Abnormal Heart," ASEAN Congress on Cardiology, Cebu City, Cebu, Philippines | Speaker |
| 2010 | "Fetal Cardiac Intervention: Update," Grand Rounds, Hong Kong Sanatorium Hospital, Hong Kong | Speaker |
| 2011 | "International Fetal Cardiac Intervention Registry Proposal and Update," International Fetal Medicine and Surgical Society Annual Meeting, Sedona, AZ | Speaker |
| 2012 | "Twin-twin Transfusion Syndrome" and "Transposition of the Great Arteries," Fetal, Perinatal, and Neonatal Cardiology Symposium: State of the Art and New Frontiers, Banff, Alberta, Canada | Invited Speaker |
| 2013 | "Twin-twin Transfusion Syndrome: Really a Cardiovascular Disease" and "Management of Neonatal Pulmonary Hypertension," 6th World Congress of Pediatric Cardiology and Cardiac Surgery 2013, Cape Town, South Africa | Invited Speaker |

2013	"Intra-Uterine Fetal Intervention: Physiology and Considerations for Fetal Aortic Stenosis," 3rd Kuala Lumpur Valve Summit, Kuala Lumpur, Malaysia	Invited Speaker
2013	"Fetal and Postnatal Cardiovascular Physiology", "Techniques for Performing an Optimal Fetal Echo," "Echo Clues to Major Congenital Heart Disease," "Fetal Heart Failure," and "In-utero Fetal Intervention," 5th Kuala Lumpur Echo Summit Pre-conference Course in Fetal Echocardiography, Kuala Lumpur, Malaysia	Faculty/Speaker
2016	9th International Conference Neonatal & Childhood Pulmonary Vascular Disease 2016, San Francisco, CA: Pulmonary Hypertension Workshop (Feb 26)	Workshop Chair/organizer, Speaker
2016	Bangkok Fetal Echo Symposium, Bangkok, Thailand 1. The systematic scanning technique of fetal heart 2. Fetal cardiac arrhythmias: 1. Diagnosis and Management of Fetal Tachyarrhythmias 2. Diagnosis and Management of Fetal Bradyarrhythmia and CHB 3. Update on Intra-uterine cardiac intervention	Keynote invited speaker
2016	Fetal Medicine Foundation 15th World Congress, Mallorca, Spain :Prognosis of functionally single ventricle circulation fetal cardiac intervention : international registry update	Invited Speaker, Faculty
2016	Brazilian Congress of Pediatric Cardiology, Belo Horizonte, Brazil 1. "Hemodynamic Assessment in Non-Cardiac Fetal Interventions" 2. "Bradyarrhythmia and Heart Block in the fetus- what everyone needs to know" 3. "Pandora's Box: What we are Learning about the Fetus with Single Ventricle" 4. "Fetal Cardiac Intervention- past, present, and future?" 5. "Prenatal Neurodevelopment in Fetuses with Congenital Heart Disease"	Invited Faculty Speaker
2017	7th World Congress of Pediatric Cardiology and Cardiac Surgery, Barcelona, Spain. "Twin to twin transfusion syndrome-obstetric and fetal cardiology management and long term outcomes"	Invited Faculty Speaker
2017	2017 Canadian Cardiovascular Congress, Vancouver BC. "Jean-Claude Furon Symposium/Conjoined AEPC-CPCA Symposium: Fetal intervention in pulmonary atresia "	Invited Faculty Speaker
2017	3rd Munich Symposium on Fetal Cardiology, Munich, Germany. "Update on Fetal Aortic Stenosis. Fetal Intervention: Pros and Cons"	Invited Faculty Speaker
2018	World Society of Pediatric and Congenital Cardiac Surgery, Fetal Symposium, Orlando, FL. "Update on Fetal Cardiac Intervention", "Fetal Cardiac Intervention International Registry", "Abnormal Doppler in the Fetus"	Invited Faculty Speaker

NATIONAL INVITED PRESENTATIONS

2006	American Society of Echocardiography, Baltimore, MD (Case Presentations)	Case Presenter
2006	Pediatric Academic Societies' Annual Meeting, San Francisco, CA ("Telecardiology")	Panel Speaker

2008	American Telemedicine Association Annual meeting, Seattle, WA ("Telecardiology Support of a Remote NICU")	Speaker
2007	American Society of Echocardiography, Seattle, WA	Faculty
2009	American Telemedicine Association Annual Meetings, Las Vegas, NV, Inpatient Telemedicine Panel	Panel Speaker
2010	Society for Maternal Fetal Medicine Annual Meeting, Chicago, IL, Case Presenter (Case Presentations in Fetal Cardiology)	
2010	American Society of Echocardiography, San Diego, CA ("Tetralogy of Fallot in Pregnancy" and "Prenatal Diagnosis of Congenital Heart Disease: Impact on Outcomes")	Speaker
2011	Society for Maternal Fetal Medicine Annual Meeting, San Francisco, CA (Commonly Encountered Complex Cardiac Lesions: Detection, Evaluation, and Prognosis) in SMFM Special Focus Group Session: Fetal Echocardiography	Speaker
2011	American College of Cardiology Annual Scientific Sessions, New Orleans, LA (Fetal Aortic Stenosis: Physiology and Considerations for Catheter Intervention) in ACC Spotlight: Fetal Aortic Valve Intervention Session	Speaker
2011	American Institute for Ultrasound in Medicine Annual Meeting, New York, NY (Fetal Diagnosis with Neonatal Correlation - Cardiac Disease/Heart Failure) Categorical Course	Speaker
2011	American Society of Echocardiography, Montreal, Quebec, Canada (The Evolving Fetal Heart: Predicting Newborn Anatomy and Physiology When the Left Heart is "Borderline") in Fetal Echo Symposium, Fetal Physiology Sessions	Speaker
2012	American Society of Echocardiography, National Harbor, MD. (Hemodynamic Assessment in Non-Cardiac Fetal Interventions) in Hemodynamic Assessment of the Fetus, Fetal Physiology Sessions	Speaker
2012	Society for Maternal Fetal Medicine Annual Meeting, Dallas, TX. (International Fetal Cardiac Intervention Registry: Update) In SMFM Special Focus Group Session: Fetal Therapy	Speaker
2012	Cincinnati Childrens Medical Center , CME Course : "Fetology: Diagnosis, Interventions and Innovations" Two lectures: Assessment of fetal cardiac function; Structural Heart Disease in TTTS : Acquired vs. Congenital?	Faculty Speaker
2013	Society for Maternal-Fetal Medicine, 33rd Annual Meeting - The Pregnancy Meeting, San Francisco, CA. Debate: TTTS Staging should include cardiac assessment: Yes or No.	Panel Speaker
2013	American Institute of Ultrasound in Medicine (AIUM) 2013 Scientific Sessions, New York City, NY (Choose Your Prognosis: Fetal Cardiac Unknowns) Categorical Course	Speaker
2013	American Society of Echocardiography Annual Meetings, Minneapolis, MN, Materno-fetal hyperoxygenation, Fetal Sessions	Faculty Moderator

2014	Society for Maternal-Fetal Medicine 34th Annual Meeting - The Pregnancy Meeting, New Orleans, LA. Invited Presentation: Fetal Cardiac Intervention for Aortic Stenosis- Clinical Trial Update	Speaker
2014	CHOP2014: 18th Annual Update on Pediatric and Congenital Cardiovascular Disease, Lake Buena Vista, FL. "Plenary Session II: Catheter-based Fetal Intervention: What Is the Current Range of Possibilities?"; "PA/IVS: Neonatal Evaluation: What Studies Do We Need, What Are We Looking For?"	Invited Speaker
2014	Fetal Echocardiography: Normal and Abnormal Hearts; 3 day course, national CME courses, Las Vegas, NV Sept 4-6, 2014	Invited Faculty
2014	American Institute of Ultrasound in Medicine Annual Meeting, Las Vegas, NV. "Interesting Cases- the 4-chamber view"	Invited Speaker/Panelist
2014	American Society of Echocardiography Annual Scientific Sessions, Portland, OR. "Fetal Echo and Prognosis: Twin-twin Transfusion Syndrome"	Invited Faculty Speaker
2014	American Heart Association Annual Scientific Sessions 2014, Chicago, IL. "Perinatal Management and Outcomes of Fetuses with Congenital Heart Disease"	Invited Faculty Speaker
2015	American Institute of Ultrasound in Medicine Annual Meeting, March 2015, Lake Buena Vista, FL. Special Interest Session - Assessment of the Fetus at Risk: "Twin-Twin Transfusion Syndrome: Fetal Cardiologist's View"	Invited Speaker
2015	American Institute of Ultrasound in Medicine Annual Meeting, March 2015, Lake Buena Vista, FL. Special Interest Session - Fetal Arrhythmias (Basic and Advanced): "Bradyarrhythmias and Heart Block: What Everyone Needs to Know"	Invited Speaker
2015	American Institute of Ultrasound in Medicine Annual Meeting, March 2015, Lake Buena Vista, FL. Special Interest Track - Fetal Echocardiography: "Guidelines for Examination of the Fetal Heart"	Invited Speaker
2015	American College of Cardiology Annual Scientific Sessions, March 2015, San Diego, CA. "Prenatal Neurodevelopment with Congenital Heart Disease"	Invited Faculty Speaker
2015	American Heart Association Annual Scientific Sessions 2015, Orlando, FL. "Born Too Soon: Challenges of Caring for the Premature Infant with CHD"	Invited Seminar Moderator
2016	American Institute of Ultrasound in Medicine Annual Meeting, March 2016, New York, NY "Anomalous Pulmonary Venous Return"; Cardiovascular Development and Congenital Heart Disease in Monochorionic Multiples"; Prediction of Prognosis: Limitation of Early Diagnosis of CHD"	Invited Speaker
2016	ACC, Chicago, IL New innovations in Fetal Cardiology	Moderator
2016	7th Phoenix Fetal Echocardiography Symposium, Phoenix, AZ	Faculty Speaker
2016	Engineering Frontiers in CHD symposium Orlando, FL Single Ventricle Embryonic Development	Invited Faculty Speaker

2016	American Society of Echocardiography Annual Scientific Sessions, Seattle, WA Early trimester fetal echo	Invited Faculty Speaker
2017	Society for Maternal-Fetal Medicine 37th Annual Meeting: the Pregnancy Meeting, Las Vegas, NV. "Fetal Cardiovascular Function in Non-Cardiac Interventions"	Invited Faculty Speaker
2017	American Heart Association Annual Scientific Sessions 2017, Anaheim CA. "Catheter Intervention for fetal CHD"	Invited Faculty Speaker
2017	American Institute of Ultrasound in Medicine Annual Meeting, March 2017, Orlando, FL "CHD Potential for Progression: Cardiomyopathies"	Invited Faculty Speaker
2018	American College of Cardiology Annual Scientific Sessions, March 2015, San Diego, CA. "Scientific Congenital Heart Disease Registries: Why I Participate and Why you Should Too!" Orlando, FL	Panelist/Speaker
2018	AIUM Annual Sessions, New York, NY. "Cardiac Axis and 4-Chamber View at 12-14 weeks"; "Making the Correct CHD Diagnosis: Arch Abnormalities"; Luminary Lecture: "Form, Flow, and Function: Frontiers in Fetal Echo"	Speaker/Luminary Speaker
2019	CHOP2019: 23rd Annual Update on Pediatric and Congenital Cardiovascular Disease, Huntington Beach, CA "Fetal Diagnosis of Coarctation", "Fetal Cardiac Intervention: Does it Improve Outcomes?"	Invited Faculty Speaker
2019	American Institute of Ultrasound in Medicine Annual Meeting, March 2019, Orlando, FL "Vascular Rings" "Myelomeningocele repair" "Fetal supraventricular Tachycardia"	Section Lead, invited speaker
2019	American Society of Echocardiography Annual Scientific Sessions, Portland Oregon, "Fetal supraventricular Tachycardia"	Invited Faculty/Speaker and Moderator

REGIONAL AND OTHER INVITED PRESENTATIONS

2004	Perinatal Morbidity and Mortality Conference, Redding, CA. "Fetal Featured Lecturer Cardiology"	
2005	Enloe Hospital Grand Rounds, Chico, CA. "Fetal Cardiology"	Invited Lecture
2006	Regional Radiology CME Course, Sacramento, CA. "Fetal Cardiology"	Speaker
2006	UC Davis OB/GYN Grand Rounds, Sacramento, CA. "Prenatal Diagnosis of Congenital Heart Disease: Hypoplastic Left Heart Syndrome --Obstetrician's Role in Counseling the Pregnant Patient"	Keynote and Invited Speaker
2006	Central California Echo Society, Fresno, CA. "Adult Congenital Cardiology and Echocardiography"	Invited Lecture
2007	Perinatal Morbidity and Mortality Conference, Redding, CA. "Patent Ductus Arteriosus"	Featured Lecturer
2007	UC Davis Medical Center Pediatrics Department Grand Rounds, Sacramento, CA. "Fetal Cardiology"	Invited Lecture
2007	Telehealth Colloquium San Francisco, CA. "Telecardiology"	Speaker

2007	UC Davis Medical Center M.I.N.D. Institute, Sacramento, CA. "Fetal Cardiology: Perspectives in Diagnosis, Therapy, and Counseling of Families Affected with Congenital Heart Disease"	Invited Lecture
2008	Healthtech Webcast "Telecardiology"	Webcast Speaker
2008	Western Society of Pediatric Cardiology Annual Meeting, San Francisco, CA. "Fetal Echo- Applications to Fetal Therapy and Perinatal Management"	Speaker
2008	Regional Radiology CME Course, Sacramento, CA. "Fetal Echocardiography"	Speaker
2009	Kapiolani Women and Childrens Hospital Grand Rounds, Honolulu, HI. "Fetal Cardiology"	Invited Lecture
2010	Kaiser Permanente California Webinar, "Topics In Fetal Cardiology: Monitoring, Medical Intervention, and Beyond"	Webcast Speaker
2010	Children's Hospital Boston, Cardiology Fellows Teaching Conference, Boston, MA. "Fetal Ebstein's Anomaly"	Invited Lecture
2011	Children's Hospital Boston, Cardiology Fellows Teaching Conference, Boston MA. "Twin-twin Transfusion Syndrome"	Invited Lecture
2011	University of California San Francisco (UCSF) Department of Pediatrics Grand Rounds, San Francisco, CA. "Fetal Cardiac Intervention: Update"	Invited Lecture
2011	UCSF Radiology Postgraduate Education: SONOGRAPHY FOR SONOGRAPHERS, San Francisco, CA. "Basic Fetal Cardiac Evaluation"	Speaker
2012	UCSF Pediatric Cardiac Intensive Care Nurses Course on Hypoplastic Left Heart Syndrome, San Francisco, CA. "Fetal Evaluation and Diagnosis of HLHS and Prenatal Follow-up"	Speaker
2012	Seattle Children's Hospital, Seattle, WA. "Fetal Cardiac Intervention: Update and Critical Appraisal"	Invited Lecture
2013	UCSF Pediatric Cardiac Intensive Care Nurses Course on Hypoplastic Left Heart Syndrome, San Francisco, CA. "Fetal Evaluation; Diagnosis of HLHS; Prenatal Follow Up"	Speaker
2013	UCSF OB/GYN Grand Rounds, San Francisco, CA. "What the OB/MFM Needs To Know About Fetal Echo"	Invited Lecture
2013	Western Society of Pediatric Cardiology Annual Meeting, Monterey, CA. "Pandora's Box: What We Are Learning About The Fetus With Single Ventricle"	Speaker
2013	University of Texas, Houston and Hermann Memorial Hospital sponsored Twin-Twin Transfusion Workshop, Houston, TX. "Fetal Echocardiography in TTTS"	Participant and Speaker
2013	Fetal Echocardiography for OB Sonographers, Fresno CME course, Community Regional Medical Center, Fresno, CA. "Clues to Cardiac Diadnosis", "AV Canal for OB's", "The 5 Most Common Lesions", "Outflow tracts: Vital to Detection of CHD"	Speaker
2013	UCLA 3rd Fetal Echocardiography Symposium	Faculty

2014	Western Society of Pediatric Cardiology Annual Meeting, Santa Ana, CA. "Echo in the NICU: Current Guidelines" and "Fetal Cardiac Interventions (Controversies): Restrictive interatrial septum"	Invited Speaker
2014	St. Joseph's Hospital Grand Rounds, Stockton, CA. "Prenatal Diagnosis of Congenital Heart Disease"	Grand Rounds Speaker
2015	St. Joseph's Hospital and Phoenix Children's Hospital, Phoenix, AZ. The 6th Phoenix Fetal Cardiology Symposium. Program moderator, "The Fetal Position" and "The Looped and the Twisted: Conotruncal Abnormalities;" program speaker, "Cardiac Issues In Twin-Twin Transfusion Syndrome," "Abnormalities of Pulmonary Venous Return" and "Common Arterial Trunk"	Guest Faculty, Program Moderator, Program Speaker
2015	UCSF 15th Annual Case Managers Conference, San Francisco, CA. "Prenatal Diagnosis of Congenital Heart Disease."	Program Speaker
2015	Fetal Echocardiography for OB Sonographers, Fresno CME course, Community Regional Medical Center, Fresno, CA. "Prenatal Diagnosis of CHD," "Counting to 4 - Not as Easy as it Sounds," "Approach to Bradyarrhythmia in the Fetus," "Subtle Clues, Serious Problems."	Program Presenter, Speaker
2015	Current Concepts in Neonatal Care, Napa, CA Twin-Twin Transfusion Prenatal Diagnosis of Congenital Heart Disease: 2015 Update	Invited Speaker
2015	3rd Annual Children's Mercy Cardiac Forum, Kansas City, MO. "The Past, Present, and Future of Fetal Cardiac Intervention"	Invited Speaker
2016	Kaiser Permanente California Webinar, "Twin-twin transfusion syndrome"	Webcast Speaker
2016	2016 Joint Conference on Advances in Pediatric Cardiovascular Disease Management, taking place on September 16-17, 2016, at the Disney's Paradise Pier Hotel in Anaheim, CA "Fetal Cardiac Intervention: Past, Present, Future?"	Invited Speaker
2017	April Marin General Hospital, Pediatrics Grand Rounds: Prenatal Diagnosis of Congenital Heart Disease	Speaker
2017	December OB Grand Rounds: Prenatal Diagnosis of Congenital Heart Disease	Speaker
2017	Pacific Coast Fetal Cardiology: An Interactive and Case-Based Symposium. Inaugural Meeting, Newport Beach, CA "Early Fetal Echo"; "Similar but Different: dTGA and ITGA"	Course Director and Speaker
2017	2017 Joint Conference on Advances in Pediatric Cardiovascular Disease Management, Ann Arbor MI "Current State and Future Directions of Fetal Cardiac Intervention"	Invited Speaker
2017	8th Phoenix Fetal Cardiology Symposium. Preconference (ARDMS Course) "Arrhythmias". Faculty Lectures: "Intervention for Fetal Lesions Causing High Output Failure", "The International Fetal Cardiac Intervention Registry – Update on Outcomes", "The Outflow Tracts Don't Cross – What Now?"	Invited Faculty and Organizing Committee
2017	Marin General Hospital, OB Grand Rounds, "Prenatal Diagnosis and Management of Congenital Heart Disease"	Speaker

2018	Visiting Professor, Children's Hospital of Colorado, Denver, "Hydrops" and "Fetal Intervention: Pro's and Con's"	
2018	Pacific Coast Fetal Cardiology: An Interactive and Case-Based Symposium. San Francisco, CA; Opening Plenary "Prenatal Diagnosis""TTTS" "4-chamber anomalies not to miss"	Course Director and speaker
2018	Cleveland Clinic Symposium on Heterotaxy, "Segmental Analysis by Echo" and "Does Fetal Diagnosis change Outcome in Heterotaxy?"	Invited speaker
2018	Society of Pediatric Radiology Annual Meeting, "Fetal Cardiac Intervention"	Invited Faculty
2019	Pacific Coast Fetal Cardiology: An Interactive and Case-Based Symposium. In conjunction with Neoheart, Huntington Beach CA "Hemodynamics in TTTS", "The fetal echocardiogram-- preparing the lab for state-of-the-art care"	Course Director and Speaker

CONTINUING EDUCATION AND PROFESSIONAL DEVELOPMENT ACTIVITIES

- 2005 American Society of Echocardiography, Las Vegas, NV
- 2006 American Society of Echocardiography, Baltimore, MD
- 2007 American Society of Echocardiography, Seattle, WA
- 2008 CHOP Congenital Heart Disease, Scottsdale, AZ
- 2008 American Society of Echocardiography, Toronto, Ontario, Canada
- 2009 American Society of Echocardiography, Washington DC
- 2009 World Congress of Pediatric Cardiology and Cardiothoracic Surgery, Cairns, Australia
- 2009 American Heart Association Annual Scientific Sessions, Orlando FL
- 2010 Society for Maternal Fetal Medicine Annual Meetings, Chicago, IL
- 2010 American College of Cardiology Annual Scientific Sessions, Atlanta, GA
- 2010 American Institute of Ultrasound in Medicine Annual Convention, San Diego, CA
- 2010 American Society of Echocardiography, San Diego, CA
- 2010 American Academy of Pediatrics Annual Meeting, San Francisco, CA
- 2011 Society for Maternal Fetal Medicine Annual Meetings, San Francisco, CA
- 2011 American College of Cardiology Annual Scientific Sessions, New Orleans, LA
- 2011 American Institute of Ultrasound in Medicine Annual Convention, New York, NY
- 2011 International Fetal Medicine and Surgical Society Annual Meeting, Sedona, AZ
- 2011 American Society of Echocardiography, Montreal, Quebec, Canada
- 2011 American Heart Association Annual Scientific Sessions, Orlando, FL
- 2011 UCSF Children's Hospital Pediatric Heart Center Pre-Surgical Case Conference, 24 credits (including 13 Radiology credits), San Francisco, CA
- 2012 Society for Maternal Fetal Medicine Annual Meetings, Dallas, TX
- 2012 American Society of Echocardiography Annual Scientific Sessions, Baltimore, MD

- 2012 UCSF Children's Hospital Pediatric Heart Center Pre-Surgical Case Conference, 35 credits (including 28 Radiology credits), San Francisco, CA
- 2013 Society for Maternal Fetal Medicine Annual Meetings, San Francisco, CA
- 2013 World Congress of Pediatric Cardiology and Cardiothoracic Surgery, Cape Town, South Africa
- 2013 American College of Cardiology Annual Scientific Sessions, San Francisco, CA
- 2013 American Institute of Ultrasound in Medicine Annual Convention, New York, NY
- 2013 American Society of Echocardiography Annual Scientific Sessions, Minneapolis, MN
- 2013 International Fetal Medicine and Surgical Society Annual Meeting, Jerusalem, Israel
- 2013 UCSF Children's Hospital Pediatric Heart Center Pre-Surgical Case Conference, 36 credits (including 29 Radiology credits), San Francisco, CA
- 2014 Society for Maternal Fetal Medicine Annual Meetings, New Orleans, LA
- 2014 American College of Cardiology Annual Scientific Sessions, Washington DC
- 2014 American Institute of Ultrasound in Medicine Annual Meeting, Las Vegas, NV
- 2014 American Society of Echocardiography Annual Scientific Sessions, Portland OR
- 2014 International Fetal Medicine and Surgical Society Annual Meeting, Sept 2014, Chatham, MA
- 2014 American Heart Association Annual Scientific Sessions, Nov 2014, Chicago, IL
- 2014 UCSF Benioff Children's Hospital Pediatric Heart Center Pre-Surgical Case Conference (ongoing), 31 credits (including 27 Radiology credits), San Francisco, CA
- 2015 American College of Cardiology Scientific Sessions, March 2015, San Diego, CA.
- 2015 American Institute of Ultrasound in Medicine Annual Meeting, March 2015, Orlando, FL
- 2015 6th Annual Phoenix Fetal Cardiology Symposium, April 2015, Phoenix, AZ.
- 2015 American Society of Echocardiography Annual Scientific Sessions, Portland OR
- 2015 American Heart Association Annual Scientific Sessions, Nov 2015, Orlando, FL
- 2016 American College of Cardiology Scientific Sessions, March 2016, Chicago, IL
- 2016 American Institute of Ultrasound in Medicine Annual Meeting, March 2016, New York, NY
- 2016 7th Annual Phoenix Fetal Cardiology Symposium, April 2015, Phoenix, AZ.
- 2016 American Society of Echocardiography Annual Scientific Sessions, Portland OR
- 2016 International Fetal Medicine and Surgical Society, Kasane, Botswana
- 2017 Society of Maternal Medicine Annual Pregnancy Meeting, Las Vegas, NV
- 2017 American Institute of Ultrasound in Medicine Annual Meeting, Orlando, FL
- 2017 International Fetal Medicine and Surgical Society, Jackson Hole, WY, USA
- 2017 American Heart Association Annual Scientific Sessions, Anaheim, CA
- 2018 American Institute of Ultrasound in Medicine Annual Meeting, New York, NY
- 2018 American College of Cardiology Annual Scientific Sessions, Orlando, FL
- 2018 American Society of Echocardiography Annual Scientific Sessions, Nashville, TN
- 2018 World Society for Pediatric and Congenital Heart Surgery Scientific Meeting 2018, Orlando, FL

- 2018 International Fetal Medicine and Surgical Society, Bali, Indonesia
- 2018 9th Annual Phoenix Fetal Cardiology Symposium, Nov 2018 Phoenix, AZ.
- 2019 American College of Cardiology Scientific Sessions, March 2016, New Orleans, LA
- 2019 American Institute of Ultrasound in Medicine Annual Meeting, Spring 2019, Orlando FL
- 2019 American Society of Echocardiography Annual Scientific Sessions, Portland OR

GOVERNMENT AND OTHER PROFESSIONAL SERVICE

2011	American Society of Echocardiography	Nomination for “Member-at-Large” for the Pediatric and Congenital Heart Disease Council of the American Society of Echocardiography
2012 - 2013	American Society of Echocardiography	Public Relations Committee
2012 - 2014	American Society of Echocardiography Pediatric Council	Member (elected)
2014 - 2020	American Institute of Ultrasound in Medicine Fetal Echo Community of Practice	Board/Officer (elected)
2014 - 2017	North American Fetal Therapy Network Executive Board	Board/Officer (elected)
2015 - present	Fetal Heart Society	Founding Vice President

UNIVERSITY SERVICE - SYSTEM

2011	University of California System-Wide Fetal Consortium	Participant
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UNIVERSITY SERVICE - SCHOOL OF MEDICINE

2010 - 2011	Fetal Treatment Center Organizational Steering Committee	Participant
2013 - 2014	Faculty Search Committee for Pediatric and Adult Cardiothoracic Surgeon Position	Search Committee Member
2015 - present	Search Committee for Academic Division Chief, Pediatric Cardiology	Search Committee Member
2015 - present	Search Committee, Director of Obstetric Ultrasound	Search Committee Member
2015 - 2015	Search Committee, Director, Pediatric Cardiac ICU	Search Committee Member

DEPARTMENTAL SERVICE

2008 - 2008	Pediatric Cardiology Faculty Search Committee	Chair
2007 - 2008	Pediatric Research Committee	Member
2007 - 2008	Pediatrics Resident Mentoring Committee	Member
2010 - present	Department of Pediatrics Scholarship Oversight Committee	Faculty Member

2011 - present	Pediatric Cardiology Faculty Recruitment Search Committee	Member
2015 - 2016	Faculty Satisfaction Committee	Member, Task Force Chair
2018 - 2019	Department of Pediatrics, Cardiology Division Research Chair, Search Committee	Member

COMMUNITY & PUBLIC SERVICE

2007 - 2007	Camp Taylor Volunteer Physician, Livermore, CA	
2008 - 2008	Camp Taylor Volunteer Physician, Livermore, CA	
2016	Children's Heart Foundation	Medical Advisory Board
2019	Camp Taylor Volunteer Physician, Tracy, CA	

FORMAL TEACHING

Date	Course No. & Title	Teaching Contribution	School	Class Size
2005 - 2005	Fetal Heart Assessment in OB Ultrasound, Organizer, Perinates/Obstetricians/Sonographers, Mercy Medical Center Redding, CA, 25 Attendees, 8 hour CME course.	Organizer, Speaker, Panel Member		
2005 - 2005	Fetal Heart Assessment in OB Ultrasound, Presenter, Radiologists/OB's/Sonographers, Santa Rosa, CA, 50 Attendees, 8 hour CME course.	Speaker, Panel Member		
2006 - 2006	Fetal Heart Assessment in OB Ultrasound, Presenter, Radiologists/OB's/Sonographers, Dameron Hospital, Stockton CA, 50 Attendees, 8 hour CME course.	Speaker, Panel Member		
2010 - 2011	IDS107 Path Lab: Morphology of Congenital Heart Disease in Life Cycle	Instructor		25
2011 - 2012	IDS107 Path Lab: Morphology of Congenital Heart Disease in Life Cycle	Instructor		25
2011 - 2011	University of California San Francisco, San Francisco, CA, Invited Lecture, "Echocardiography" in "Open Fetal Surgery" 2-day course, ~50 attendees from 5 institutions	Invited Lecturer		

Date	Course No. & Title	Teaching Contribution	School	Class Size
2011 - 2011	University of California San Francisco, CA, Lecturer, "Sonography for Sonographers", "Basic Fetal Cardiac Evaluation", 1 day course, ~150 attendees local CME course	Invited Lecturer		
2012 - 2013	IDS107 Path Lab: Morphology of Congenital Heart Disease in Life Cycle	Instructor		25
2012 - 2012	Cincinnati Childrens Medical Center , CME Course : "Fetology: Diagnosis, Interventions and Innovations" Two lectures: Assessment of fetal cardiac function; Structural Heart Disease in TTTS : Acquired vs. Congenital?	Invited Speaker		
2013 - 2013	3rd Kuala Lumpur IJN Echo: Foetal Echo Course	Invited Lecturer		
2013 - 2013	UCLA 3rd Fetal Echocardiography Symposium	Invited Lecturer		
2014 - 2014	The Fifth Phoenix Fetal Cardiology Symposium; 5 day course, international CME course	Invited Faculty		
2014 - 2014	Fetal Echocardiography: Normal and Abnormal Hearts; 3 day course, national CME courses, Las Vegas, NV Sept 4-6, 2014	Invited Faculty		
2015 - 2015	The Sixth Phoenix Fetal Cardiology Symposium; 5 day course, international CME course	Invited Faculty		
2016 - 2016	The Seventh Phoenix Fetal Cardiology Symposium; 5 day course, international CME course	Invited Faculty		
2016 - 2016	Phoenix Fetal Echo Pre-course Symposium: Fetal Echo Boards Review	Featured Speaker		
2017	IDS107 Path Lab: Morphology of Congenital Heart Disease in Life Cycle	Instructor	Medicine	25

PREDOC STUDENTS SUPERVISED/MENTORED

Date	Name	Program or School	Mentor Type	Role	Current Position
2009 - 2009	Monica Gonzalez	BHSI Summer Internship for High School Students		Research Mentor	Undergrad College Student
2009 - 2010	Breniel Lemley	BHSI Summer Internship for High School Students		Research Mentor	Undergrad College and Research Assistant for Dept of Surgery, UCSF
2011 - 2011	Jennifer Ezeokoli	BHSI Summer Internship for High School Students		Research Mentor	Gates Millennium Scholar at Stanford University
2012 - 2012	Graeme Moore	UC Berkeley		Mentor/Shadowing	Medical Student, Univ of Witwatersr and, Johannesburg, South Africa
2016 - 2017	Jorge Mena	UCSF	Research/Scholarly Mentor	Research Mentor	Medical Student, UCSF
2017 - 2018	Sophia Hernandez	UCSF	Research/Scholarly Mentor	Co-Research Mentor	Medical Student, UCSF
2015 - 2016	Daud Lodin	Emory University	Research/Scholarly Mentor, Project Mentor	Mentor	Internship, Puerto Rico
2018 - 2018	Lorraine James	UT Dallas	Research/Scholarly Mentor, Project Mentor	Research Mentor	Residency , UCLA

POSTDOC FELLOWS/RESIDENTS SUPERVISED/MENTORED

Date	Name	Fellow	Mentor Type	Faculty Role	Current Position
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Date	Name	Fellow	Mentor Type	Faculty Role	Current Position
2003 - 2006	Zach Taylor	Resident		Clinical/Academic Mentor	Peds ID, Kaiser Permanent Fontana Medical Center Fontana, CA
2003 - 2006	KC Cumbermack	Resident		Research/Career Advisor	Staff Cardiologist, University of Kentucky, KY
2006 - 2008	Stephen Smith	Resident		Clinical/Academic Mentor	Pediatrician, Primary Health Group, ID
2007 - 2007	Tannie Huang	Resident		Research Supervisor	Heme/Onc Fellow, UCSF
2007 - 2008	Jennifer Plymale	Resident		Research/Career Advisor	PedCard Fellow, Children's Hospital of Wisconsin, Milwaukee
2008 - 2009	Ameesh Shah	Fellow		Mentor/Career Advisor	Staff Echocardiographer, Columbia University, NY, NY
2008 - 2010	Supriya Jain	Fellow		Research Mentor	Non-Invasive Imaging Fellowship, Children's Hospital Boston, MA
2009 - 2010	Shabana Shahanavaz	Fellow		Research Mentor	Staff Cardiologist, St. Louis Children's

Date	Name	Fellow	Mentor Type	Faculty Role	Current Position
2009 - 2012	Luz Natal-Hernandez	Fellow		Faculty Advisor	Pediatric Cardiologist, Kaiser Permanente, Northern California
2010 - 2011	Ajay Bhatia	Peds Resident		Research Advisor	Pediatric Cardiology Fellow, Emory Univ, Atlanta, GA
2009 - 2011	Alexander Lowenthal	Fellow		Research Mentor (for SOC)	Non-invasive Imaging Cardiology Attending, Petach Tikva, Israel
2009 - 2011	Yen Kim Bui	Molecular Medicine and Peds Cardiology		Research Mentor (for SOC)	Pediatric Cardiologist, Kaiser Permanente, Northern California
2009 - 2012	Francesca Anderson Byrne	Peds Cardiology Fellow		Research Mentor (for SOC)	Pediatric Cardiologist, CHOC
2011 - 2014	Kendell German	Peds Resident		Faculty Mentor	Peds Resident, UCSF
2012 - 2013	Suguna Ganesan	OB/MFM Fellow		Research Mentor and Sponsor	MFM Faculty, Melbourne Australia
2010 - 2013	Arvind Hoskoppal	Fellow		Faculty	Fellow in Adult Congenital Heart Disease, Mayo Clinic, Rochester, MN

Date	Name	Fellow	Mentor Type	Faculty Role	Current Position
2010 - 2013	Shellie Kendall	Fellow		Mentor	Navy Commitment and Rady Children's Hospital, San Diego, CA
2011 - 2014	Hythem Nawaytou	Fellow		Research Mentor (for SOC)	Pediatric Echocardiography Faculty, UCSF
2011 - 2014	Gurumurthy Hiremath	Fellow		Faculty Supervisor	Pediatric Cardiology Faculty, University of Minnesota
2013 - 2014	Chris Derderian	Peds Surgery Research Fellow		Research Mentor	Peds Surgery Resident, Emory, Atlanta, GA
2013 - 2015	Meaghan Beattie	Peds Resident		Research Mentor	ongoing
2013 - 2016	Emily Balkin	Peds Resident		Faculty Mentor	ongoing
2014 - 2017	Laxmi Ghimire	Fellow		Faculty Supervisor	ongoing
2014 - 2017	Kim Haberer	Fellow		Faculty Supervisor	ongoing
2015 - 2018	Fatemat Hassan	Fellow		Faculty Supervisor	ongoing
2015 - 2018	Diwakar Turaga	Fellow		Faculty Supervisor	ongoing
2013 - 2017	Sherzana Sunderji	Advanced Imaging Fellow	Research/Scholarly Mentor, Project Mentor, Career Mentor, Co-Mentor/Clinical Mentor	Faculty Supervisor	ongoing
2018 - 2019	Katya Kosiv	Advanced Imaging Fellow	Research/Scholarly Mentor, Career Mentor, Co-Mentor/Clinical Mentor	Faculty Supervisor, Research Mentor	Fetal Cardiology Director, Yale
2016 - 2020	Christiana Tai	Fellow	Career Mentor, Co-Mentor/Clinical Mentor	Faculty	ongoing

FACULTY MENTORING

Date	Name	Position while Mentored	Mentor Type	Mentoring Role	Current Position
2009 - 2011	Alaina K Kipps	Clinical Instructor and Assistant Professor of Clinical Pediatrics	Research/Scholarly Mentor, Project Mentor, Career Mentor, Co-Mentor/Clinical Mentor	Informal and Research	Assistant Professor of Pediatrics, Stanford University
2013	Shabnam Peyvandi	Assistant Professor of Clinical Pediatrics	Research/Scholarly Mentor, Project Mentor, Career Mentor, Co-Mentor/Clinical Mentor	Faculty	same
2016	Martina Steurer-Mueller	Assistant Professor of Pediatrics	Research/Scholarly Mentor, Project Mentor	Research projects and Career trajectory	same

VISITING FACULTY MENTORED

2008	Dra. Aurelia Leus			Makati Medical Center, Philippines
2009 - 2009	Dr. Fayeza AIRais			McGill University, Monreal, Quebec Canada Maternal/Fetal Medicine Fellow
2009	Dr. Alfredo Hernandez			Clinica Alemana, Obstetrics and Gynecology, Santiago, Chile
2012 - 2012	Dra. Luciane Rocha			Sao Paulo, Pediatric Cardiology, Brazil

RESEARCH & CREATIVE ACTIVITIES SUMMARY**RESEARCH PROGRAM****RESEARCH AWARDS - CURRENT**

- Collaborator

Department of Defense

Optimizing cardiovascular disease diagnosis for mobile deployment using advanced machine learning

Our objective is to develop a scalable diagnostic tool that can detect diagnostic-quality cardiac images from the fetal surveys in real time and present these to the clinician for interpretation (or alert them in real time if adequate images were not acquired, so that they can try again). We will achieve this by designing, training, validating, and deploying a deep learning model for fetal ultrasound analysis. I assisted the PI in forming the clinical question for the project and in editing the grant; I oversee the input of clinical images into the pipeline that is critical to model training and validation. All of the clinical material originates from a research database that I curate/maintain.

20 % effort

7/1/2019

\$ pending direct/yr 1 \$ pending total

Arnaout (PI)

6/30/2021

2. Co-Investigator 10% % effort Arnaout (PI)
 RAP Catalyst Award 2018 2019
 Cardiovascular Diagnostics Using Deep Machine Learning
 Aim 1. A comprehensive, high-accuracy model using deep machine learning to distinguish the five essential cardiac views from fetal screening ultrasound. Aim 2. Population-level analysis of diagnostic accuracy of the model for CHD by presence/absence of screening cardiac views.
 Image analysis, validation, mentorship and clinical correlation
3. NCT01736956 PI Moon-Grady (PI)
 NIH 10/01/2012 09/30/2017
 Fetal Intervention for Aortic Stenosis and Evolving Hypoplastic Left Heart Syndrome
 Fetal aortic stenosis is an anatomically simple birth defect in which there is partial blockage of the aortic valve, limiting blood flow out of the left side of the heart. If the blockage becomes severe in fetal life, left heart structures may stop growing and the baby may be born with hypoplastic left heart syndrome (HLHS), a lethal condition without neonatal heart surgery or heart transplantation. Postnatal outcomes are uncertain and postoperative outcomes vary by patient; however, the few adult survivors are currently suffering substantial medical problems, including a high incidence of neurologic problems. For fetuses with severe obstruction, fetal intervention may improve outcomes by increasing flow through the left heart, thus improving left heart function and encouraging continued growth of the left heart structures. If fetal intervention can preserve left heart function and growth, this should provide a better prognosis for the baby and allow for biventricular repair strategies after birth. This research study is a prospective, non-randomized clinical trial of 30 patients that will assess the safety and efficacy of in utero percutaneous balloon dilation of fetal aortic valve with severe stenosis. This technique has been successfully used to perform postnatal aortic valve dilations for several decades, but has had limited application and study in utero.
4. 327138 Coinvestigator; Site PI for Jaeggi (PI)
 UCSF; Steering Committee
 Canadian Institutes of Health Research 08/01/2015 07/31/2021
 Fetal Atrial Flutter & Supraventricular Tachycardia (FAST) \$ 269,951 direct/yr 1 \$ 1350000 total
 Therapy Trial: Proposal of an International Registry and Randomized Controlled Trial (RCT)
5. 2R13HD059293-06 Co-investigator / Organizing Johnson (PI)
 Committee member
 NIH 04/06/2009 02/28/2019
 North American Fetal Therapy Network Biannual Scientific \$ 6,000 direct/yr 1 \$ 540,000 total
 Meetings
 The North American Fetal Therapy Network (NAFTNet) consists of a cooperative group of investigators and clinicians now from 23 fetal treatment centers, working to set a national agenda for research and clinical progress in the field of fetal therapy. Each year, member Centers are required to submit a structured summary report of the number of prenatal diagnostic evaluations, invasive diagnostic procedures, and pregnancies evaluated and counseled with specific congenital anomalies, and therapeutic fetal interventions performed. This data is then posted as a summary representing the combined experiences of the member Centers to guide investigators in study design to facilitate development of multicenter clinical studies. NAFTNet meetings are held biannually on the third weekend of April and October.

PEER REVIEWED PUBLICATIONS

1. Francke U, Chang E, Comeau K, Geigl E-M, Giacalone J, Li X, Luna J, Moon A, Welch S, Wilgenbus P. A radiation hybrid map of human chromosome 18. *Cytogenet Cell Genet.* 1994; 66(3):196-213. PMID: 8125019
2. Choy M, Oltjen SL, Moon AJ, Armstrong MT, Armstrong PB. Bisdiamine inhibits extracellular matrix formation and cell proliferation of atrioventricular mesenchyme from developing chick heart valves. *Teratology.* 1995; 59(3): 148-55. PMID: 10194805
3. Moon AJ, Katzberg RW, Sherman MP. Transplacental passage of iohexol. *J Pediatr.* 2000; 136(4): 548-9. PMID: 10753258
4. Moon AJ, Milstein JM, Goetzman BW, Bennett SH. Effects of correction of hypocalcemia on cardiac function in the newborn lamb. *Biol Neonate.* 2000; 78(2): 113-20. PMID: 10971004
5. Overfield DM, Bennett SH, Goetzman BW, Milstein JM, Moon-Grady AJ. Hemodynamic effects of positive end-expiratory pressure during partial liquid ventilation in newborn lambs. *J Pediatr Surg.* 2001 Sep; 36(9):1327-32. PMID: 11528599
6. Moon-Grady AJ, Tacy TA, Brook MM, Hanley FL, Silverman NH. Value of clinical and echocardiographic features in predicting outcome in the fetus, infant, and child with tetralogy of Fallot with absent pulmonary valve complex. *Am J Cardiol.* 2002 Jun 1; 89(11):1280-5. PMID: 12031728
7. Tworetzky W, McElhinney DB, Margossian R, Moon-Grady AJ, Sallee D, Goldmuntz E, van der Velde ME, Silverman NH, Allan LD. Association between cardiac tumors and tuberous sclerosis in the fetus and neonate. *Am J Cardiol.* 2003 Aug 15; 92(4):487-9. PMID: 12914889
8. Melendres G, Ormsby EL, McGahan JP, Moon-Grady AJ, Towner D, Taylor D. Prenatal diagnosis of Ebstein anomaly: a potential pitfall. *J Ultrasound Med.* 2004 Apr; 23(4):551-5. PMID: 15098875
9. Kappler S, Milstein JM, Moon-Grady AJ, Bennett SH. Evaluation of stroke volume via arterial pulse pressure waveforms in neonatal lambs. *Biol Neonate.* 2004; 86(3):184-94. PMID: 15249755
10. El Kady D, Gerscovich EO, Moon-Grady A, Towner D, McGahan JP, Rhee-Morris L, Naderi S. Congenital cardiac left ventricular aneurysm with pericardial effusion: early prenatal diagnosis and intervention. *J Ultrasound Med.* 2005 Jul; 24(7):1011-5. PMID: 15972717
11. Truong U, Moon-Grady AJ, Butani L. Cardiac tamponade in a pediatric renal transplant recipient on sirolimus therapy. *Pediatr Transplant.* 2005 Aug; 9(4):541-4. PMID: 16048611
12. Roy N, Azakie A, Moon-Grady AJ, Blurton DJ, Karl TR. Mycotic aneurysm of the descending thoracic aorta in a 2-kg neonate. *Ann Thorac Surg.* 2005 Aug; 80(2):726-9. PMID: 16039245
13. Moon-Grady AJ, Teitel DF, Hanley FL, Moore P. Ductus-associated proximal pulmonary artery stenosis in patients with right heart obstruction. *Int J Cardiol.* 2007 Jan 2; 114(1):41-5. PMID: 16644039
14. Ghorishi Z, Milstein JM, Poulain FR, Moon-Grady A, Tacy T, Bennett SH, Fineman JR, Eldridge MW. Shear stress paradigm for perinatal fractal arterial network remodeling in lambs with pulmonary hypertension and increased pulmonary blood flow. *Am J Physiol Heart Circ Physiol.* 2007 Jun; 292(6):H3006-18. PMID: 17308003
15. Alphonso N, Anagnostopoulos PV, Nölke L, Moon-Grady A, Azakie A, Raff GW, Karl TR. Anomalous coronary artery from the wrong sinus of Valsalva: a physiologic repair strategy. *Ann Thorac Surg.* 2007 Apr; 83(4):1472-6. PMID: 17383360
16. McGahan JP, Moon-Grady AJ, Pahwa A, Towner D, Rhee-Morris L, Gerscovich EO, Fogata M. Potential pitfalls and methods of improving in utero diagnosis of transposition of the great arteries, including the baby bird's beak image. *J Ultrasound Med.* 2007 Nov; 26(11):1499-510; quiz 1511. PMID: 17957044

17. Huang T, Moon-Grady AJ, Traugott C, Marcin J. The availability of telecardiology consultations and transfer patterns from a remote neonatal intensive care unit. *J Telemed Telecare*. 2008; 14(5):244-8. PMID: 18632999
18. Chiou HL, Moon-Grady A, Rodriguez R, Konia T, Parrish M, Milstein J. A rare lethal combination of premature closure of the foramen ovale and d-transposition of the great arteries with intact ventricular septum. *Int J Cardiol*. 2008 Nov 12; 130(2):e57-9. PMID: 18191244
19. Jegatheesan P, Ianus V, Buchh B, Yoon G, Chorne N, Ewig A, Lin E, Fields S, Moon-Grady A, Tacy T, Milstein J, Schreiber M, Padbury J, Clyman R. Increased indomethacin dosing for persistent patent ductus arteriosus in preterm infants: a multicenter, randomized, controlled trial. *J Pediatr*. 2008 Aug; 153(2):183-9. PMID: 18534218
20. Moon-Grady AJ, Taylor D, Bennett SH, Hornberger LK, Tacy TA. Color M-mode propagation velocity, but not its ratio to early diastolic inflow velocity, changes throughout gestation in normal human fetuses. *Ultrasound Obstet Gynecol*. 2008 May; 31(5):535-41. PMID: 18409181
21. Boe NM, Rhee-Morris L, Towner D, Moon-Grady AJ. Prenatal diagnosis of omphalocele and left atrial isomerism (polysplenia) including complex congenital heart disease with ventricular noncompaction cardiomyopathy. *J Ultrasound Med*. 2008 Jul; 27(7):1117-21. PMID: 18577680
22. Bhogal N, Grady AM, Ursell PC, Collins KK, Hornberger LK. Hypersensitivity myocarditis presenting as atrioventricular block and wide complex tachycardia in a toddler. *Congenit Heart Dis*. 2008 Sep;3(5):359-64. PMID: 18837817
23. Friedberg MK, Silverman NH, Moon-Grady AJ, Tong E, Nourse J, Sorenson B, Lee J, Hornberger LK. Prenatal detection of congenital heart disease. *J Pediatr*. 2009 Jul; 155(1):26-31, 31.e1. PMID: 19394031
24. Jain S, Kleiner B, Moon-Grady A, Hornberger LK. Prenatal diagnosis of vascular rings. *J Ultrasound Med*. 2010 Feb; 29(2):287-94.
25. Keller RL, Tacy TA, Hendricks-Munoz K, Xu J, Moon-Grady AJ, Neuhaus J, Moore P, Nobuhara KK, Hawgood S, Fineman JR. Congenital diaphragmatic hernia: endothelin-1, pulmonary hypertension, and disease severity. *Am J Respir Crit Care Med*. 2010 Aug 15; 182(4):555-61.
26. Plymale J, Park J, Natale J, Moon-Grady A. Corrected QT Interval in Children With Brain Death. *Pediatr Cardiol*. 2010 Oct; 31(7):1064-9.
27. Jhaveri N, Moon-Grady A, Clyman RI. Early surgical ligation versus a conservative approach for management of patent ductus arteriosus that fails to close after indomethacin treatment. *J Pediatr*. 2010 Sep; 157(3):381-7, 387.e1.
28. Losada E, Moon-Grady AJ, Strohsnitter WC, Wu D, Ursell PC. Anomalous mitral arcade in twin-twin transfusion syndrome. *Circulation*. 2010 Oct 12; 122(15):1456-63.
29. Moon-Grady AJ, Hirose S, Kesby G, Menahem S, Tworetzky W. The fetus as a cardiac patient: assessment and therapy of cardiovascular pathology before birth. *Int J Pediatr*. 2010; 2010:974520.
30. Oepkes D, Moon-Grady AJ, Wilkins-Haug L, Tworetzky W, Arzt W, Devlieger R. 2010 Report from the ISPD Special Interest Group fetal therapy: fetal cardiac interventions. *Prenat Diagn*. 2011 Mar; 31(3):249-51.
31. Moon-Grady AJ, Moore P, Azakie A. Ross-Konno and endocardial fibroelastosis resection after hybrid stage I palliation in infancy: successful staged left-ventricular rehabilitation and conversion to biventricular circulation after fetal diagnosis of aortic stenosis. *Pediatr Cardiol*. 2011 Feb; 32(2):211-4.
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36. Moon-Grady AJ, Rand L, Gallardo S, Gosnell K, Lee H, Feldstein VA. Diastolic cardiac pathology and clinical twin-twin transfusion syndrome in monozygotic/diamniotic twins. *Am J Obstet Gynecol.* 2011 Sept 1;205(3):279.e1-279.e11. PMID: 21909155
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BOOKS AND CHAPTERS

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4. Anita J. Moon-Grady and Lisa K. Hornberger: Fetal Myocardial Mechanics. In da Cruz, E, Ivy D, Hraska V, Jagers J (eds), *Pediatric Cardiology, Cardiac Surgery and Intensive Care*. Springer, Philadelphia.
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SIGNIFICANT PUBLICATIONS

1. Peyvandi S, Nguyen TA, Almeida-Jones M, Boe N, Rhee L, Anton T, Sklansky M, Tarsa M, Satou G, **Moon-Grady AJ**; Timing and Mode of Delivery in Prenatally Diagnosed Congenital Heart Disease- an Analysis of Practices within the University of California Fetal Consortium (UCfC).; *Pediatric Cardiology*; 2017 Mar;38(3):588-595. PMID: 28078382.
Dr. Moon-Grady conceived, proposed, designed and supervised all aspects of this retrospective state-wide consortium effort and co-wrote the manuscript with Dr. Peyvandi. The article highlights systematic iatrogenic harm done to women and fetuses/infants with heart disease in the state and calls for a change in the delivery of care for these affected women.
2. **Moon-Grady AJ**, Morris SA, Belfort M, Chmait R, Dangel J, Devlieger R, Emery S, Frommelt M, Galindo A, Gelehrter S, Gembruch U, Grinenco S, Habli M, Herberg U, Jaeggi E, Kilby M, Kontopoulos E, Marantz P, Miller O, Otaño L, Pedra C, Pedra S, Pruetz J, Quintero R, Ryan G, Sharland G, Simpson J, Vlastos E, Tworetzky W, Wilkins-Haug L, Oepkes D; International Fetal Cardiac Intervention Registry: A Worldwide Collaborative Description and Preliminary Outcomes.; *J Am Coll Cardiol*. 2015 Jul 28; 66(4):388-99. PMID: 26205597.
Dr. Moon-Grady conceived, proposed, designed and supervised all aspects of this Registry-based study. Dr. Moon-Grady built and maintains the Registry at UCSF and was one of two founding members of a now international group, this publication being the first from the effort.
3. Donofrio MT, Chair; **Moon-Grady AJ**, Hornberger LK, Copel JA, Sklansky MS, Abuhamad A, Cuneo BF, Huhta JC, Jonas RA, Krishnan A, Lacey S, Lee W, Michelfelder, Sr, EC, Rempel GR,

Silverman NH, Spray TL, Strasburger JF, Tworetzky W, Rychik J; on behalf of the American Heart Association. Diagnosis and Treatment of Fetal Cardiac Disease: A Scientific Statement From the American Heart Association. *Circulation*. 2014 May 27;129(21):2183-242. PMID: 24763516
Dr. Moon-Grady is listed as second author of this Scientific Statement with substantial role in writing of three sections and revisions of 80% of the remainder of the document prior to it's final submission, in conjunction with Dr. Donofrio. Other authors are listed in order of section leads but Dr. Moon-Grady assumes responsibility for the entire manuscript as does Dr. Donofrio.

4. **Moon-Grady AJ**, Rand L, Gallardo S, Gosnell K, Lee H, Feldstein VA. Diastolic Cardiac Pathology and Clinical Twin-Twin Transfusion Syndrome in Monochorionic/Diamniotic Twins. *Am J Obstet. Gynecol*. 2011 Sep 1;205(3):279.e1-279.e11.
Dr. Moon-Grady generated the concept and did the data collection and analysis. Additional data collection by Drs. Rand and Feldstein. Dr. Moon-Grady generated the manuscript with editorial input from the co-authors.
5. Losada E, **Moon-Grady AJ**, Strohsnitter WC, Wu D, Ursell PC. Anomalous Mitral Arcade in Twin-Twin Transfusion Syndrome. *Circulation*. 2010 Oct 12;122(15):1456-63. Epub 2010 Sep 27.
Dr. Moon-Grady is listed as co-first author on this paper. Drs. Moon-Grady and Ursell generated the concept behind this report of a case series of an apparently new clinical entity with clinical, imaging, and pathological correlation. Dr. Moon-Grady did the clinical data collection and analysis. Additional data collection by Drs. Losada and Wu. Dr.s Moon-Grady and Losada co-generated the manuscript with editorial input from the co-authors.