Lori Jenelle Dobson, M.S., C.G.C.

LDobson@partners.org

EDUCATION

California State University, Northridge, CA, Masters of Science 2005
Genetic Counseling, with Honors
Westminster College, Fulton, MO, Bachelor of Arts 2003
Major: Psychology, with Honors Minor: Allied Health

CERTIFICATION

Certified Genetic Counselor, Diplomate of the American Board of Genetic Counseling 2017
Massachusetts State Genetic Counselor License Expires 2021

ACADEMIC APPOINTMENTS

Associate Professor, MGH IHP Genetic Counseling Program August 2017- Present

PROFESSIONAL EXPERIENCE

Brigham and Women's Hospital, Boston, MA

Genetic Counseling Manager 2015-Present

- In addition to clinical tasks below, responsible for clinic management and program initiatives including provision of genetic counseling services.
- Supervise team of genetic counselors including clinic scheduling, reviews, hiring and mentorship.
- Lead implementation of expanded genetic testing within the OB/GYN department including cell-free DNA for aneuploidy, chromosomal microarray and expanded genetic carrier screening. Program included development of protocols, logistical strategies, education of non-genetics providers and creation of clinician and patient handouts and guides.
- Genetics lead in the Center for Infertility and Reproductive Surgery (CIRS) including development of protocols, clinical logistics and business agreements for preimplantation genetic testing (PGT).
- Collaborated with providers in multiple specialties to develop system for genetic testing on cord blood and standardization of procedures and testing following stillbirth.
- Other projects include EPIC integration, Assisted Reproductive Technology Ethics Committee (ARTEC), Genetic Counseling Career Day, coordinate student observations and rotations

Prenatal/Reproductive Genetic Counselor
2012-Present

- Provide genetic counseling for preconception and prenatal indications including noninvasive prenatal testing, invasive testing, carrier screening, family history and ultrasound anomalies.
- Work closely with the Center for Infertility and Reproductive Services to provide families counseling for Preimplantation Genetic Testing (PGT) including counseling about testing options and coordination with external PGT labs.

Site Coordinator, Non-invasive EXamination of Trisomy (NEXT) Study (Sponsored by Ariosa Diagnostics) 2012-2014

- Responsible for enrolling participants as a site for the NEXT Study including consenting pregnant patients, collecting demographic, phenotypic, and laboratory information, coordinating sample collection and data entry.
- Conducted all patient follow-up through completion of study at delivery.
- Participated in national and international study collaborations.

Children's Hospital Boston, Boston, MA

Prenatal Genetic Counselor 2007-2012

Advanced Fetal Care Center (AFCC)

- Provided comprehensive prenatal genetic counseling with clinical geneticists to pregnant women and their families who have had fetuses diagnosed with congenital anomalies as well as integrate genetics within the clinical program by working with pediatric specialists from over 12 hospital departments.
- Provided phone counseling to patients after referral to provide overview of ultrasound diagnosis, expectations of day of care and identification of resources for further information.
- Developed Interconception Counseling Program to provide genetic counseling to families after a prenatal or neonatal loss
- Participated in program development and marketing including spearheading online and social media marketing efforts (Within3 (online healthcare community), website development, Facebook, online conference).
- Organized and facilitated weekly multidisciplinary conference to discuss diagnosed conditions, including presentations on genetics-themed topics, as appropriate.
- Completed the Transitioning to Management Program, a 12-hour course designed for employees to explore a career in management by examining the skills, tools and competencies needed to be successful as a supervisor and manager.

Research Genetic Counselor 2009-2012

Diamond-Blackfan Anemia Study

PI – Dr. Hanna Gazda, Manton Center for Orphan Disease Research

- Responsible for enrolling participants in the Diamond-Blackfan Anemia Study including consenting participating families, collecting demographic, phenotypic, and laboratory information, coordinating sample collection and data management.
- Served as liaison with the institutional review board to assure adherence to protocols and reporting requirements, as well as participate in research training programs.

University of Arkansas for Medical Sciences (UAMS), Little Rock, AR

Prenatal Genetic Counselor
Arkansas Reproductive Genetics Program 2005-2007

- Provided all aspects of prenatal genetic counseling in high-risk obstetric clinic for patients.
- Provided teratogen summaries to clinicians for the Arkansas Teratogen Information Services
- Developed and coordinated patient programs and education, including participation in "Recovery Room", a support group for parents who experienced perinatal loss and developed "What to Expect After Delivery" information sheets.
- Involved with Genetic Counseling Graduate Training program including development of prenatal rotation training guidelines and participating in the Clinical Instructors Supervision Online Training Course, an online educational course for rotation supervisors.
- Participated in Certified Research Specialist Program, designed to provide additional training to clinicians interested in conducting research through instructional coursework.

PUBLICATIONS

Reimers RM, Mason-Suares H, Little SE, Bromley B, Reiff ES, **Dobson LJ**, Wilkins-Haug L. When ultrasound anomalies are present: An estimation of the frequency of chromosome abnormalities not detected by cell free DNA aneuploidy screens. *Prenat Diagn.* 2018 Mar; 38(4):250-257.

Lassey SC, Reiff ES, **Dobson L**, Bromley B, Wilkins-Haug L, Bartz D, Little SE. The influence of noninvasive prenatal testing on gestational age at time of abortion for aneuploidy. *Prenat Diagn.* 2017; 37(7):635-639.

Reiss RE, Discenza M, Foster J, **Dobson L**, Wilkins-Haug L. Sex chromosome aneuploidy detection by noninvasive prenatal testing: helpful or hazardous? *Prenat Diagn.* 2017; 37(5):515-520.

Dobson LJ, Reiff ES, Little SE, Wilkins-Haug L, Bromley B. Patient choice and clinical outcomes following positive noninvasive prenatal screening for aneuploidy with cell-free DNA (cfDNA). *Prenat Diagn*. 2016; 36(5):456-62.

Reiff, ES, Little SE, **Dobson L**, Wilkins-Haug L, Bromley B. What is the role of the 11- to 14-week ultrasound in women with negative cell-free DNA screening for aneuploidy? *Prenat Diagn.* 2016; 36(3):260-5.

Leeman KT, **Dobson L**, Towne M, Dukhovny D, Joshi M, Stoler J, Agrawal PB. NPHP3 mutations are associated with neonatal onset multiorgan polycystic disease in two siblings. *J Perinatol*. 2014; 34(5):410-1.

Jacob FD, **Dobson LJ**, Estroff JA, Khwaja OS. Monozygotic twins with trisomy 21 and partial agenesis of the corpus callosum. *Pediatr Neurol.* 2013; 48(4):314-316.

Dobson LJ, Barnewolt CE, Connolly SA, Morash DM, Estroff JA. Human fetal sacral appendage or "tail" in the second trimester: prenatal diagnosis, associated findings and clinical outcome. *Prenat Diagn*. 2013; 33(2):134-40.

Klein JD, Turner CG, **Dobson LJ**, Kozakewich H, Jennings RW. Familial case of prenatally diagnosed intralobar and extralobar sequestrations with cystadenomatoid change. *J Pediatr Surg*. 2011; 46(2):e27-31.

Boria I, Garelli E, Aspesi A, Quarello P, Pavesi E, Ferrante D, Meerpohl JJ, Kartal M, Da Costa L, Proust A, Leblanc T, Simansour M, Dahl N, Frojmark AS, Pospisilova D, Cmejia R, Beggs AH, Sheen MR, Landowski M, Buros CM, Clinton CM, **Dobson LJ**, Vlachos A, Atsidaftos E, Lipton JM, Ellis SR, Ramenghi U, Dianzani I. The ribosomal basis of diamond-blackfan anemia: mutation and database update. *Hum Mutat.* 2010; 31(12): 1269-79.

Peach B, **Dobson L**, Dudek M. Fetal intervention and therapy: new opportunities for genetic counselors. Perspectives in genetic counseling [Internet]. 2008 Winter; 30(4).

RESEARCH EXPERIENCE

Integration of Non-Invasive Prenatal Testing into Prenatal Practices in Boston 2014-2016

- PI: Bryann Bromley, MD; Co-Investigators: Emily Reiff, MD, Sarah Little, MD and Louise Wilkins-Haug, MD
- Examined the role of non-invasive prenatal testing at medical institutions and private practices in the Boston area to determine the utility of first trimester ultrasound for women with negative cell free DNA (cfDNA), implications of soft markers in women with negative cfDNA and clinical variables influencing outcomes following positive cfDNA results.

Prenatal Imaging Findings Associated with Suspected Bladder Outlet Obstruction as Predictors of Etiology and Outcome 2009

- In collaboration with Carol Barnewolt, MD, Judy Estroff, MD and Susan Connolly, MD
- Correlated prenatal imaging findings associated with bladder outlet obstruction with postnatal imaging, clinical assessment after delivery and autopsy findings to identify possible markers to distinguish between the various etiologies of bladder dilation.

Advancing the Care of Patients by Bridging Prenatal and Pediatric Genetic Practice 2007

- In collaboration with Shannon Barringer, MS
- NSGC Prenatal Special Interest Group Grant Award
- Determined the existence of collaborative systems between prenatal and pediatric genetic teams in the United States and assessed current practices and their impact on patient care.

INVITED LECTURES

Preimplantation Genetic Testing 2019

Perinatal Lecture Series, Beth Israel Deaconess Medical Center

Carrier Screening Update 2019
Lunch Lecture at Exeter Hospital

Genetics In Women's Health, with Maureen Flynn 2019
Nurse Practitioner Women's Health Seminar, MGH Institute for Health Professions

Preimplantation Genetic Testing for Neurofibromatosis 2019
Neurofibromatosis Patient Symposium

Preimplantation Genetic Testing for Monogenic Cancer Predisposition Genes 2019
Dana-Farber Cancer Institute Genetic Counseling Conference

Preimplantation Genetic Testing: Structural Rearrangements
Reproductive Endocrinology and Infertility Conference, BWH 2018

Updates on Approaches for PGD and PGS
American College of Medical Genetics and Genomics Annual Meeting 2018

Expanded Carrier Screening 2017
Reproductive Endocrinology and Infertility Conference, BWH

Reproductive Options in the Setting of a BRCA Mutation 2017
Looking Back Facing Forward Conference, Boston, MA

Adult Genetic Disorders in Reproductive Medicine 2017
New England Regional Genetics Group (NERGG) Genetic Counseling Meeting

Expanded Genetic Carrier Screening: Choosing Tests, Managing Expectations 2017
Harvard Medical School, 54th Annual Update Obstetrics and Gynecology
Presented with Rosemary Reiss, MD

Reproductive Options in the Setting of a Lynch Syndrome Mutation 2017
LYNKED IN Lynch Syndrome Patient Conference, Boston, MA
Presented with Huma Rana, MD

Clinical Course and Patient Outcomes Following Positive NIPT 2016
American Institute for Ultrasound in Medicine Annual Conference
Oral Abstract Presentation

Clinical Course and Patient Outcomes Following Positive NIPT 2015
International Society of Prenatal Diagnosis (ISPD) Annual Conference

Oral Abstract Presentation

Navigating a Prenatal Diagnosis of Down Syndrome 2012
Boston Children's Hospital, Down Syndrome Program, Alan C. Crocker Lecture Series
Presented with Linda Zaccagnini, NNP

Fetal Intervention: Past, Present and Future 2012
National Society of Genetic Counselors 2012 Webinar Series
Presented with Jody Farrell, RN, MSN and Diana Smith, MS, CGC

Management of Pregnancies after the Diagnosis of Multiple Congenital Anomalies 2011
American College of Medical Genetics Annual Clinical Genetics Meeting
Concurrent Invited Session
Responsible for proposing, organizing and moderating the session and presented with Louise Wilkins-Haug, MD, PhD, Theonia Boyd, MD and Janice Byrne, MD

Introduction to Fetal MRI: Implications for Genetic Counseling 2009
National Society of Genetic Counseling Annual Education Conference
Educational Breakout Session
Responsible for proposing, organizing and moderating the session and presented with Carol Barnewolt, MD and Sean Blackwell, MD

Preparing for the Journey: Prenatal Genetics and Counseling for Down Syndrome 2009
Parents' First Call Program Training, Massachusetts Down Syndrome Congress Presented with Linda Zaccagnini, NNP and Laurie Oliver Taylor, LICSW

Counseling Families Regarding Fetal Therapy and Intervention 2009
New England Regional Genetics Group (NERGG) Genetic Counseling Meeting
Presented with Donna Morash, RN

Navigating Genetics in Fetal Life 2009
Department of Radiology Lecture Series, Children's Hospital Boston

Clinical Significance of Fetal Aneuploidy Markers 2006
Department of Obstetrics and Gynecology Grand Rounds, University of Arkansas for Medical Sciences

TEACHING EXPERIENCE

Introduction to Fetal Intervention and Therapy (2 hour lecture)
Boston University Genetic Counseling Program 2009-2017
Brandeis University Genetic Counseling Program 2010, 2012

Prenatal Screening and Testing Options (1 hour lecture) 2013, 2014
Harvard Medical School Advanced Human Genetics Course

Advanced Bayesian Analysis: X-linked Conditions (2 hour lecture) 2009-2015
Boston University Genetic Counseling Program

High Risk Obstetrics, Genetics and Pathology (2 credit hour online course) 2005-2006
Instructor for web-based 2-credit hour course offered to senior Diagnostic Medical Sonography students at University of Arkansas for Medical Sciences

COMMITTEE SERVICE

Advisory Board, MGH Institute for Health Professions Genetic Counseling Program 2017-2019
Clinical Advisory Board, Counsyl, Inc. 2017
Member, Massachusetts Birth Defects Monitoring Program Advisory Committee 2010 – present

MENTORING EXPERIENCE

Alexander Ing, Genetic Counseling Graduate Student, Boston University 2014-2015
Capstone Project: Examining Current Practices of Genetic Counselors Regarding Preconception Counseling and Carrier Screening for Multi-Ethnic Couples

Marian Morse, Genetic Counseling Graduate Student, Boston University 2009-2010
Capstone Project: A Comparison of Genetic Counseling Processes for Fetal Corpus Callosal Anomalies among Prenatal Service Locations
Winner, Best Poster Award, NSGC Annual Education Conference 2010
Selected as Educational Breakout Session, Annual Education Conference, National Society of Genetic Counselors, October 2011

Caitlin Melley, Genetic Counseling Graduate Student, Brandeis University 2008-2009
Thesis: Surgical Fetal Intervention: Assessing the Current Practices of Genetic Counselors
Poster Presented at NSGC Annual Education Conference 2010

PROFESSIONAL AFFLIATIONS

National Society of Genetic Counseling (NSGC) 2004-2012, 2015-present
Special Interest Groups: Prenatal and Assisted Reproductive Technology (ART)
Fetal Intervention and Therapy Special Interest Group (SIG)
Co-Chair, 2007-2009