

## CURRICULUM VITAE

**Date of Last Revision:** April 9, 2020  
**Name:** Matthew J. Bizzarro, MD  
**School:** Yale University School of Medicine

### Education:

B.A. Dartmouth College (Biology) 1995  
M.D. Rutgers-New Jersey Medical School 1999

### Career/Academic Appointments:

1999-2000 Intern, Pediatrics, New York University School of Medicine, New York, NY  
2000-2002 Assistant and Senior Resident, Pediatrics, New York University School of Medicine, New York, NY  
2002-2005 Postdoctoral Fellow in Neonatal-Perinatal Medicine, Yale University School of Medicine, New Haven, CT  
2005-2011 Assistant Professor, Dept. of Pediatrics, Yale University School of Medicine, New Haven, CT  
2011-2017 Associate Professor, Dept. of Pediatrics, Yale University School of Medicine, New Haven, CT  
2017-present Professor, Dept. of Pediatrics, Yale University School of Medicine, New Haven, CT

### Administrative Positions:

2006-present Faculty Director, Neonatal Physician Assistants and Nurse Practitioners, Yale-New Haven Children's Hospital, New Haven, CT  
2007-2010 Assistant Director, Pediatric Medical School Clerkship, Yale University School of Medicine, New Haven, CT  
2008-2014 Director, Neonatal Intensive Care Unit Transport Team, Yale-New Haven Children's Hospital, New Haven, CT  
2009-2014 Director, Pediatric Extracorporeal Membrane Oxygenation Program, Yale-New Haven Children's Hospital, New Haven, CT  
2012-present Medical Director, Neonatal Intensive Care Unit, Yale-New Haven Children's Hospital, New Haven, CT  
2017 Interim Section Chief, Division of Neonatal-Perinatal Medicine, Yale University School of Medicine

### Board Certification:

American Board of Pediatrics, Pediatrics, 2003-2012  
American Board of Pediatrics, Neonatal-Perinatal Medicine, 2005-present

**Professional Honors & Recognition:**

**International/National/Regional:**

- 2019: HIMMS Nicholas E. Davies Award of Excellence
- 2018-2020: Best Doctors in America/Connecticut Magazine
- 2016: Children's Hospital Association, Best Overall Project, 2015. Children's Hospital Association's National Meeting, March 7-9, 2016. New Orleans, LA. "Reducing Length of Stay in Neonates with Neonatal Abstinence Syndrome." Role: Team Member
- 2014-2017: Extracorporeal Life Support Organization's "Center of Excellence in Life Support" Award to the Yale Pediatric ECMO Program. This award is given to recognize and acknowledge extraordinary achievement in training, education, collaboration and communication, patient care, and in promoting the mission, activities, and vision of ELSO. Role: Program Director
- 2013: Top Poster Presentation, 2013 Children's Hospital Association's National Meeting, October 15, 2013. New Orleans, LA. "Reducing Hyperoxia and its Associated Complications in Preterm Neonates." Role: Team Leader
- 2012-2014: Extracorporeal Life Support Organization's "Center of Excellence in Life Support" Award to the Yale Pediatric ECMO Program. This award is given to recognize and acknowledge extraordinary achievement in training, education, collaboration and communication, patient care, and in promoting the mission, activities, and vision of ELSO. Role: Program Director
- 2012: Best Overall Poster Presentation, 2012 Children's Hospital Association's National Meeting, October 9, 2012. Washington, DC. "Reducing False Positive Urine Cultures in the Neonatal Intensive Care Unit." Role: Team Leader
- 2011: U.S. Department of Health and Human Services, Office of the Assistant Secretary for Health, Office of Healthcare Quality and the Critical Care Societies Collaborative's Outstanding Leadership Award for Achievements in Eliminating Central Line Associated Bloodstream Infections. Role: Program Director
- 2010-2012: Extracorporeal Life Support Organization's "Center of Excellence in Life Support" Award to the Yale Pediatric ECMO Program. This award is given to recognize and acknowledge extraordinary achievement in training, education, collaboration and communication, patient care, and in promoting the mission, activities, and vision of ELSO. Role: Program Director

**University/Hospital:**

- 2016: David J. Leffell Prize for Clinical Excellence; award for the Yale Medical Group faculty member who best exemplifies clinical expertise, a commitment to teaching, and the highest standards of care and compassion for patients.
- 2015: Joseph A. Zaccagnino Patient Safety and Clinical Quality Conference, Best Quality and Safety Project, Yale New Haven Hospital. Role: Team Member
- 2014: Joseph A. Zaccagnino Patient Safety and Clinical Quality Conference, Best Quality and Safety Project, Yale New Haven Hospital. Role: Team Leader
- 2010: Normal J. Siegel Award, Yale University School of Medicine; award for the Pediatric faculty member who "consistently surpasses the highest standards of patient care, generous collegiality and leadership by example."
- 2009: Joseph A. Zaccagnino Patient Safety and Clinical Quality Conference, Best Quality and Safety Project, Yale New Haven Hospital. Role: Team Leader
- 2008: Mae Gailani Junior Faculty Teaching Award, Pediatrics, Yale University School of Medicine; award for the Pediatric junior faculty member in recognition of "uncompromising dedication to research and patient care."

2005: Outstanding Fellow Teaching Award, Pediatrics, Yale University School of Medicine; award given by the Pediatric Housestaff to one post-doctoral fellow in any of the pediatric subspecialties.

**Grant/Clinical Trials History:**

**Current Grants**

Agency: NICHD  
I.D.# HHSN- 275201000003I  
Title: “Pharmacokinetics of Understudied Drugs Administered to Children per Standard of Care”  
Study P.I. Chiara Melloni, MD  
Role on Project: Site PI  
Percent effort: 1%  
Direct costs per year: \$12,050  
Total costs for project period: \$38,900  
Project Period: 08/01/2012-2/24/17

**Past Grants**

Agency: NICHD  
I.D.# NICHD-2005-18  
IND # 101,043  
Title: “Multiple Dose Pharmacokinetic Study of Meropenem in Young Infants (<91 days) with Suspected or Complicated Intra-abdominal Infections”  
Study P.I. Daniel Benjamin, MD, PhD, MPH  
Role on Project: Site PI  
Percent effort: 5%  
Total costs for project period: \$13,719  
Project Period: 07/01/2008-10/31/2009

Agency: NIH/NINDS  
I.D.# 1R01NS053865-01A2  
Title: “Gene Targets for the Prevention of Intraventricular Hemorrhage.”  
Study P.I. Laura Ment, MD  
Role on Project: Site PI  
Percent effort: 3%  
Total costs for project period: \$10,635,434  
Project Period: 06/01/2007-05/31/2015

**Invited Speaking Engagements, Presentations, Symposia & Workshops Not Affiliated With Yale:**

**International/National**

2020: Invited Consultant for Central Line Associated Bloodstream Infection Prevention. Texas Children’s Hospital. March 16-18, 2020. Houston, TX.  
2020: Invited Speaker, Center for Disease Control and Prevention/Society for Healthcare Epidemiology of America’s Decennial Meeting. Workshop: Neonatal Late-Onset Sepsis (LOS): Identifying the Preventable, and Potentially Preventable and Taking Steps to Prevent Them.” March 26, 2020. Atlanta, GA. “Is Late-Onset Sepsis Preventable?”

- 2019: Invited Speaker, NEC Society Symposium 2019. June 5, 2019. Ann Arbor, MI. "Probiotics and NEC: What We Learn from Experience Resulting in Litigation."
- 2018: Invited Speaker, Solution for Patient Safety CLABSI Prevention Webinar. August 24, 2018. "An Effort to Reduce Central Line Associated Bloodstream Infections in the Neonatal Intensive Care Unit."
- 2018: Invited Speaker, Vermont Oxford Network, iNICQ 2018 Choosing Antibiotics Wisely. March 14, 2018. "Evolving Epidemiology and Risks for Late Onset Infection."
- 2017: Invited Speaker, Foothills Medical Center NICU Continuing Medical Education Day, 2017. March 14, 2017. Calgary, Alberta, Canada. "Using Quality Improvement to Reduce Neonatal Hospital-Acquired Infections" and "An Update on Neonatal Early Onset Sepsis: Risk Factors, Prevention, and the Role of Antimicrobial Stewardship."
- 2016: Invited Speaker and Expert Panel Member, Neonatal Quality at Hot Topics Conference. December 4, 2016. Washington, DC. "Using Quality Improvement to Reduce Neonatal Nosocomial Infections."
- 2016: Invited Speaker, Global Health and Capacity Building Conference 2016. May 1, 2016. Kingston, Jamaica. "Neonatal Sepsis at Yale: 8 Decades and Counting."
- 2016: Invited Speaker, Pediatric Health Information System's (PHIS) Annual Meeting. March 10, 2016. New Orleans, LA. "Developing an Antimicrobial Stewardship Program in the Neonatal Intensive Care Unit."
- 2015: Invited Speaker, consultative services. Texas Children's Hospital. December 14-16, 2015. Houston, TX. "An Effort to Reduce Hospital Acquired Bloodstream Infections in the Yale Neonatal Intensive Care Unit."
- 2015: Invited Speaker, workshop. Annual Pediatric Academic Societies Meeting. April 25, 2015. San Diego, CA. "Surveillance Definitions for Common Infections in the Neonatal Intensive Care Unit: Current Barriers to Reporting and Strategies for Improvement."
- 2013: Invited speaker, Geisel School of Medicine at Dartmouth, March 18, 2013, Hanover, NH, "The Evaluation for Late-Onset Infection in the Neonatal Intensive Care Unit: Challenges, Inconsistencies, and One NICUs Approach"
- 2013: Invited speaker, Geisel School of Medicine at Dartmouth, March 18, 2013, Hanover, NH, "Efforts to Reduce Healthcare Associated Infections in the Neonatal Intensive Care Unit"
- 2010: Invited speaker, Alberta Children's Hospital, Calgary, Alberta, Canada. Neonatal and Pediatric Grand Rounds, "A Successful Effort to Reduce Hospital Acquired Bloodstream Infections in a Newborn Intensive Care Unit"
- 2010: Invited speaker, Alberta Children's Hospital, Calgary, Alberta, Canada. Neonatal and Pediatric Grand Rounds, "An Update on the Etiology, Diagnosis, and Treatment of Neonatal Sepsis"

**Regional**

- 2019 Invited Speaker, Connecticut Perinatal Conference. November 12, 2019, Orange, CT. "Innovations in Neonatal Intensive Care: Keeping Mother & Baby Together in the NICU"
- 2017 Invited Speaker, American Academy of Professional Coders Annual Meeting. November 15, 2017. New Haven, CT. "Common Problems of the Newborn: Updates, Issues and Recommendations Impacting Preterm Infant Care Conference. Queens, NY (New York-Presbyterian). October 6, 2016. "An Update on Neonatal Early-Onset Sepsis: Microbiology, Risk Factors, Prevention, and the Role of an Antimicrobial Stewardship Program."

- 2015: Invited Speaker. Pediatric Grand Rounds. November 18, 2015. SUNY Downstate, Brooklyn, NY. "The History of Neonatal Bacteremia at Yale-New Haven Hospital, 1928-2014."
- 2015: Invited Speaker. Connecticut Perinatal Quality Collaborative. November 10, 2015. Wallingford, CT. "Improving Breast Milk Feeding in the Yale-New Haven Hospital Neonatal Intensive Care Unit."
- 2015: Invited Speaker. Annual Perinatal Day Symposium: Updates on Persistent Pulmonary Hypertension in the Newborn. Maria Fareri Children's Hospital. May 28, 2015. Tarrytown, NY. "The Role of Extracorporeal Membrane Oxygenation (ECMO) in Neonatal Respiratory Failure: When All Else Fails."
- 2015: Invited Speaker. Connecticut Perinatal Quality Collaborative. May 6, 2015. Wallingford, CT. "Putting the Science of Improvement to Practice in a State-Wide Setting: The Hi-MOM Project."
- 2015: Invited Speaker, 22<sup>nd</sup> Annual New York Regional Neonatal/Perinatal Symposium. March 12, 2015. Garden City, NY. "Antimicrobial Resistance in the Neonatal Intensive Care Unit: Surveillance, Treatment, Prevention, and the Role of an Antimicrobial Stewardship Program."
- 2014: Invited Speaker, Connecticut 7<sup>th</sup> Annual State of the State Meeting, November 4, 2014, Hartford, CT. "Statewide Perinatal Collaboratives: Past Experiences and Models for Success."
- 2014: Invited Speaker, Evolving Trends in Perinatal Nursing Conference, September 12, 2014, Trumbull, CT. "Eradicating Bloodstream Infections from the Neonatal Intensive Care Unit."
- 2013: Moderator, Annual Perinatal Day Symposium: Identification and Treatment of the Infant with Complex Congenital Heart Disease, May 30, 2013. Westchester, NY.
- 2012: Webinar for Connecticut Pediatricians and Neonatologists; June 19, 2012. New Haven, CT, "Pulse Oximetry Screening for Critical Congenital Heart Disease"
- 2011: Invited speaker, Stamford Hospital Grand Rounds, Stamford, CT, "ECMO: An Introduction and Update"
- 2011: Invited speaker, Onsite Neonatal Intensive Care Unit Center's Monthly Meeting/Grand Rounds, Webinar, "ECMO: An Introduction and Update"
- 2011: Invited speaker, New York State Department of Health Regional Perinatal Center Collaborative. Albany, NY. "The Approach to Early Enteral Nutrition in Preterm Neonates: One Center's Journey"
- 2010: Invited speaker, Connecticut Organization of Neonatal Nurses 21<sup>st</sup> Annual Meeting. Portland, CT. "Neonatal Hypotonia"
- 2010: Invited speaker, New York State Department of Health Regional Perinatal Center Collaborative. Albany, NY. "A Successful Effort to Reduce Hospital Acquired Bloodstream Infections in a Newborn Intensive Care Unit"
- 2009: Invited speaker, Connecticut Neonatal Nurse Practitioners and Advanced Care Practitioners Meeting, Hartford, CT, October 21, 2009, "A Successful Effort to Reduce Central Line Associated Bloodstream Infections in a Newborn Intensive Care Unit"

### **Peer-Reviewed Presentations & Symposia Given at Meetings Not Affiliated With Yale:**

#### **International/National**

- 2019 Poster presentation: American Academy of Pediatrics. Annual Meeting. October 25, 2019. New Orleans, LA. "Calculating Insertion Depth for Neonatal Umbilical

- Arterial and Venous Catheters: Is There a Better Method?"
- 2019: Poster presentation: Infectious Diseases Society of America. IDWeek Annual Meeting. October 3, 2019. Washington, DC. "Shifting focus towards Healthcare-associated Bloodstream Infections: Need for More NICU Specific NHSN Definitions"
- 2019: Platform presentation: Annual Pediatric Academic Society Meeting. April 28, 2019. Baltimore, MD. "An effort to reduce unnecessary diagnostic testing in the neonatal intensive care unit (NICU)"
- 2019: Poster presentation: Annual Pediatric Academic Society Meeting. April 28, 2019. Baltimore, MD. "Use of Early Oral Maternal Colostrum Immune Therapy and Mother's Milk at Hospital Discharge."
- 2018: Poster presentation. Annual American Academy of Pediatric Meeting. November 2, 2018. Orlando, FL. "Do Neonatal-Perinatal Medicine Fellows Receive Training in Peripherally-Inserted Central Catheter-Related Activities?"
- 2018: Poster presentation. Annual Vermont Oxford Quality Conference. September 22, 2018. Chicago, IL. "A Quality Improvement Project to Reduce Unnecessary Routine Testing in the Neonatal Intensive Care Unit."
- 2018: Poster presentation. Annual Vermont Oxford Quality Conference. September 22, 2018. Chicago, IL. "Preventing Hypothermia in VLBW Infants Following Delivery and Initial Stabilization: A Quality Improvement Project."
- 2018: Poster presentation. Annual Vermont Oxford Quality Conference. September 22, 2018. Chicago, IL. "Antimicrobial Stewardship in the Yale New Haven Children's Hospital Neonatal Intensive Care Unit."
- 2018: Poster presentation. Annual Pediatric Academic Societies Meeting. Toronto, Canada. May 2018 "Complications associated with Umbilical Catheter Use in a level IV NICU."
- 2018: Poster presentation. Annual Eastern Society for Pediatric Research. Philadelphia, PA, 2018 "Complications associated with Umbilical Catheter Use in a level IV NICU."
- 2017: Poster presentation. Annual Pediatric Academic Societies, San Francisco, May, 2017 "Impact of the Implementation of a Dedicated Nursing PICC Team on Insertion Success and Central Line-Related Complications in the Neonatal Intensive Care Unit (NICU)."
- 2017: Platform Presentation. Annual Eastern Society for Pediatric Research, Philadelphia, PA, 2017 "Impact of the Implementation of a Dedicated Nursing PICC Team on Insertion Success and Central Line-Related Complications in the Neonatal Intensive Care Unit (NICU)."
- 2015: Poster Presentation: Annual Eastern Society for Pediatric Research, Philadelphia, PA, 2015. "Risk Factors for Tracheostomy in Very Low Birth Weight Infants"
- 2015: Poster symposium with platform presentation. Annual Pediatric Academic Societies Meeting. April 25, 2015. San Diego, CA. "Improving Delivery Room Care of VLBW Infants."
- 2015: Poster symposium with platform presentation. Annual Pediatric Academic Societies Meeting. April 26, 2015. San Diego, CA. "A Novel Approach to the Screening and Diagnosis of Pulmonary Hypertension in Preterm Infants with Bronchopulmonary Dysplasia."
- 2015: Poster symposium with platform presentation. Annual Pediatric Academic Societies Meeting. April 26, 2015. San Diego, CA. "False Positive Newborn Screening Results in the Preterm and Very Low Birth Weight Infant: A Pre-Post Intervention Study."

- 2014: Storyboard presentation, Institute for Healthcare Improvement’s 26<sup>th</sup> Annual Meeting, December 9, 2014, Orlando, FL. “Eradicating Bloodstream Infections from the Neonatal Intensive Care Unit.”
- 2013: 2013 Children’s Hospital Association’s National Meeting, October 12-15, 2013. New Orleans, LA. “Reducing Hyperoxia and its Associated Complications in Preterm Neonates.”
- 2013: Poster presentation, Pediatric Academic Societies Annual Meeting, May 7, 2013, Washington, D.C., “Changes in Colonization and Infection with Methicillin-Resistant Staphylococcus aureus (MRSA) in a Single Neonatal Intensive Care Unit (NICU) over Nine Years”
- 2013: Poster presentation, Pediatric Academic Societies Annual Meeting, May 7, 2013, Washington, D.C., “Concurrent Bloodstream Infections Are Associated with Significant Morbidity and Mortality in Infants with Necrotizing Enterocolitis”
- 2013: Poster presentation, Pediatric Academic Societies Annual Meeting, May 6, 2013, Washington, D.C., “An Effort to Reduce Positive Urine Cultures in the Neonatal Intensive Care Unit”
- 2013: Poster presentation, Pediatric Academic Societies Annual Meeting, May 6, 2013, Washington, D.C., “Ear Drainage and the Role of Sepsis Evaluations in the Neonatal Intensive Care Unit”
- 2012: 2012 Children’s Hospital Association’s National Meeting (poster), October 8-9, 2012. Washington, DC. “Reducing False Positive Urine Cultures in the Neonatal Intensive Care Unit.”
- 2012: 2012 National Children’s Hospital Association Annual Leadership Conference; October 7-10, 2012. Washington, D.C., “Reducing Positive Urine Cultures in the Newborn ICU”
- 2012: 28th Annual CNMC Symposium on ECMO and Advanced Therapies for Respiratory Failure: February 26-March 1, 2012. Keystone, CO, “A Previously Undescribed Mutation in the ABCA3 Gene Resulting in Surfactant Deficiency in a Neonate Supported with ECMO”
- 2010: Pediatric Academic Societies’ 2010 Annual Meeting, Vancouver, BC: Symposium, “A Compendium of Strategies for the Reduction and Control of Healthcare Associated Infections and Necrotizing Enterocolitis in the NICU” Invited speaker: “Successful Implementation of a Central Venous Catheter Bundle in Reducing Infection in Preterm Infants: Emerging Neonatal Evidence”
- 2010: Pediatric Academic Societies’ 2010 Annual Meeting, Vancouver, BC “Extracorporeal Membrane Oxygenation Associated Infections in Neonates, Children, and Adults”
- 2009: Institute for Healthcare Improvement’s 21<sup>st</sup> Annual National Forum, December 6-9, 2009, Orlando, Florida, “Reducing Neonatal Central Line Infections”
- 2009: Extracorporeal Life Support Organization’s 2009 Annual Meeting, Ann Arbor, MI: “Extracorporeal Membrane Oxygenation-Associated Infections in Neonates, Children, and Adults”
- 2009: Pediatric Academic Societies’ 2009 Annual Meeting, Baltimore, MD: “A Successful Effort to Reduce Central Line Associated Bloodstream Infections in a Neonatal Intensive Care Unit”
- 2009: The Society for Healthcare Epidemiology of America Annual Meeting, San Diego, CA: “An Effort to Reduce Catheter-Associated Bloodstream Infections in a Newborn Special Care Unit”
- 2006: American Society for Human Genetics 56<sup>th</sup> Annual Meeting, New Orleans, LA: “The Genetic Susceptibility to Retinopathy of Prematurity.”

- 2006: Pediatric Academic Societies' 2006 Annual Meeting, San Francisco, CA: "Endemic *Serratia marcescens* Bacteremia in a Newborn Intensive Care Unit"
- 2006: Pediatric Academic Societies' 2006 Annual Meeting, San Francisco, CA: "Circulating Stem Cells in the Preterm Neonate"
- 2006: Pediatric Academic Societies' 2006 Annual Meeting, San Francisco, CA: "Shared Genetic Susceptibility to Retinopathy of Prematurity (ROP) and Bronchopulmonary Dysplasia (BPD)"
- 2005: American Society for Human Genetics 55<sup>th</sup> Annual Meeting, Salt Lake City, UT: "Familial and Genetic Susceptibility to Major Neonatal Morbidities in Preterm Twins."

### **Regional**

- 2017: Platform presentation, Eastern Society for Pediatric Research. March 24, 2017. Philadelphia, PA. "Impact of the implementation of a dedicated nursing team on central line-related complications in the neonatal intensive care unit (NICU)"
- 2015: Platform presentation. 4<sup>th</sup> Annual New England Neonatology Quality and Safety Forum. June 4, 2015. Waltham, MA. "Improving Delivery Room Management and Stabilization of Very Low Birth Weight Infants."
- 2015: Poster symposium. 4<sup>th</sup> Annual New England Neonatology Quality and Safety Forum. June 4, 2015. Waltham, MA. "A Quality Improvement Project to Reduce Length of Stay for Neonatal Abstinence Syndrome with a Focus on Non-Pharmacological Interventions."
- 2013: Platform presentation, 2013 New England Neonatology Quality and Safety Forum, June 13, 2013. Marlborough, MA. "Developing an Antimicrobial Stewardship Program in the Yale-New Haven Children's Hospital (YNHCH) Neonatal Intensive Care Unit (NICU)"
- 2013: Poster presentation, 2013 New England Neonatology Quality and Safety Forum, June 13, 2013. Marlborough, MA. "A High Rate of False Positive Metabolic Screening Results in the Neonatal Intensive Care Unit (NICU): Unavoidable or Unacceptable?"
- 2012: 2012 New England Neonatology Quality and Safety Forum, September 20, 2012. Marlborough, MA. "Reducing False Positive Urine Cultures in the Neonatal Intensive Care Unit."
- 2007: Mead Johnson Nutritionals 33<sup>rd</sup> Annual New England Conference on Perinatal Research, Chatham, MA: "Catheter Associated Blood Stream Infections in the Yale-New Haven Children's Hospital Newborn Special Care Unit"
- 2005: Mead Johnson Nutritionals 31<sup>st</sup> Annual New England Conference on Perinatal Research, Chatham, MA: "Seventy-Five Years of Neonatal Sepsis at Yale-New Haven Hospital"

### **Professional Service**

#### **Journal Service:**

##### Reviewer

- 2007-present Reviewer for *Acta Paediatrica*, *American Journal of Perinatology*, *Archives of Disease in Childhood*, *Expert Reviews*, *Infection Control and Hospital Epidemiology*, *JAMA*, *Journal of Pediatrics*, *Journal of Infection*, *Journal of Investigative Medicine*, *Journal of Perinatology*, *Lancet*, *New England Journal of Medicine*, *Paediatric and Perinatal Epidemiology*, *Pediatrics*, *Pediatric Infectious Disease Journal*

Contributing Editor

2007 Fanaroff AA, Ehrenkranz RA, Stevenson DK, eds. Year Book of Neonatal and Perinatal Medicine. Mosby, Inc. Philadelphia, PA, 2007.

Guest Editor

2012 Guest Editor. “Infectious Disease-Related Issues in the Neonatal Intensive Care Unit.” *Seminars in Perinatology*. Volume 36, No. 6, December 2012.

**Professional Service for Professional Organizations:**

2018 Faculty Member, Vermont Oxford Network, iNICQ 2018 Choosing Antibiotics Wisely

2016-present Scientific Advisory Board, Morgan Leary Vaughan Fund (a volunteer charity dedicated to promoting public awareness and advancing research to prevent, diagnose, treat, and cure necrotizing enterocolitis).

2015-present Team Leader/Site Director, Vermont Oxford Network

2015 Committee member, National Committee to Determine a Consensus Definition for Neonatal Sepsis

2014-present Member, Connecticut Statewide Perinatal Quality Collaborative

2012-2014 Co-organizer, SEECMO International ECMO Meeting

2012-2017 Planning committee member, New England Neonatal Quality and Safety Forum

2010-present Member, Society for Pediatric Research

2010-2013 Member, Connecticut State Medical Society

2009-present Member, Society for Healthcare Epidemiology of America

2009-present Member, Pediatric Leadership Council, Society for Healthcare Epidemiology of America

2009-2010 Sub-committee leader, International Task Force on Infections and ECMO, Extracorporeal Life Support Organization

2005-present Member, Extracorporeal Life Support Organization

**Yale University Service:**

***State Committees***

2015-2017 Member, Connecticut State Infectious Disease Action Team, Connecticut Department of Public Health

2012 Member and Yale Representative, Pulse Oximetry Screening for Critical Congenital Heart Disease

2011-2017 Participant, Connecticut Healthcare Associated Infections Advisory Committee

2010-2012 Member and Yale Representative, Quality Committee, Connecticut State Medical Society

***Hospital and University Committees***

2018-present Pediatric Formulary Integration Committee, Yale-New Haven Children’s Hospital

2018-present Yale School of Medicine Physician Associate Program Thesis Reviewer

2018-present Member, Department of Pediatrics Appointments & Promotions Committee

2017 Member, Infant Formula Task Force, Yale-New Haven Hospital

2017 Member, Zika Virus Task Force, Yale-New Haven Children’s Hospital

2017-present Member, Senior Clinical Leadership Group, Yale-New Haven Hospital

2016-present	Scientific Abstract Reviewer, Pediatric Research Day, Department of Pediatrics
2016-present	Member, Pediatrics Formulary Integration Subcommittee, Yale-New Haven Children's Hospital
2015	Committee Member, IPQRC Sub-Committee Standardized Mortality Review
2014-present	Co-chair, Perinatal Committee, Yale-New Haven Children's Hospital
2011-present	Member, Yale-New Haven Children's Hospital Executive Operations Group
2011-present	Member, Perinatal Committee, Yale-New Haven Children's Hospital
2011-present	Member, Yale-New Haven Children's Hospital Executive Steering Committee
2011-2014	Member, Neonatal Intensive Care Unit Quality and Safety Committee, Yale-New Haven Children's Hospital
2011-2014	Member, Neonatal Intensive Care Unit Service Excellence Committee, Yale-New Haven Children's Hospital
2010-2014	Member and Pediatric Liaison, MCIC Vermont, Inc., Loss Prevention and Patient Safety Committee
2010-present	Member, Well Newborn Committee, Yale-New Haven Children's Hospital
2009-2012	Member, Yale-New Haven Children's Hospital Cardiac Council, Yale-New Haven Children's Hospital
2009-2013	Member, Stop Bloodstream Infections Committee, Yale-New Haven Hospital
2008-2013	Member, Pediatric Intensive Care Unit Leadership Committee, Yale-New Haven Children's Hospital
2007-present	Member, Children's Hospital Quality and Safety Council, Yale-New Haven Children's Hospital

## Bibliography:

### Peer-Reviewed Original Research

1. **Bizzarro MJ**, Gross I. Inhaled nitric oxide for the postoperative management of infants and children with congenital heart disease (Cochrane Review). In: The Cochrane Library, Issue 4, 2005. Chichester: Wiley.
2. **Bizzarro MJ**, Raskind C, Baltimore RS, Gallagher PG. Seventy-five years of neonatal sepsis at Yale: 1928-2003. *Pediatrics*. 2005; 116(3): 595-602.
3. Bhandari V, **Bizzarro MJ**, Shetty A, Zhong X, Page GP, Zhang H, Ment LR, Gruen JR; Neonatal Genetics Study Group. Familial and genetic susceptibility to major neonatal morbidities in premature twins. *Pediatrics* 2006;117: 1901-1906.
4. **Bizzarro MJ**, Hussain N, Jonsson B, Feng R, Ment LR, Gruen JR, Zhang H, Bhandari V. Genetic susceptibility to retinopathy of prematurity. *Pediatrics*. 2006; 118(5): 1858-1863.
5. **Bizzarro MJ** and Gross I. Inhaled nitric oxide for the postoperative management of pulmonary hypertension in infants and children with congenital heart disease. *Anesth Analg* 2006; 102: 964.
6. **Bizzarro MJ**, Dembry LM, Baltimore RS, Gallagher PG. Case-control analysis of endemic *Serratia marcescens* bacteremia in a neonatal intensive care unit. *Arch Dis Child. Fetal Neonatal Ed*. 2007;92(2):F120-6.
7. **Bizzarro MJ**, Bhandari V, Krause DS, Smith BR, Gross I. Circulating stem cells in extremely preterm neonates. *Acta Paediatr* 2007;96(4):521-5.
8. Steiner LA, **Bizzarro MJ**, Ehrenkranz RA, Gallagher PG. Decline in neonatal exchange transfusions. *Pediatrics*. 2007; 120(1): 27-32.

9. **Bizzarro MJ**, Dembry LM, Baltimore RS, Gallagher PG. Changing patterns in neonatal Escherichia coli sepsis and ampicillin resistance in the era of intrapartum antibiotic prophylaxis. *Pediatrics*. 2008; 121(4) 689-96.
10. **Bizzarro MJ**, Dembry LM, Baltimore RS, Gallagher PG. A Matched, Case-Control Analysis of Polymicrobial Bloodstream Infection in a Neonatal Intensive Care Unit. *Pediatr Infect Dis J*. 2008; 29(10): 914-920.
11. Bhandari V, Zhou G, **Bizzarro MJ**, Buhimschi C, Hussain N, Gruen JG, Zhang H. Genetic Contribution to Patent Ductus Arteriosus in the Premature Newborn. *Pediatrics*. 2009; 123(2): 669-673.
12. Chapman RL, Peterec SM, **Bizzarro MJ**, Mercurio MR. Patient selection for neonatal extracorporeal membrane oxygenation: beyond severity of illness. *J Perinatol*. 2009 Sep;29(9):606-11.
13. **Bizzarro MJ**, Mercurio MR. Selective resuscitation in premature twins: an ethical analysis. *J Perinatol*. 2009 Jul;29(7):479-82.
14. Bilguvar K, DiLuna ML, **Bizzarro MJ**, Bayri Y, Schneider KC, Lifton RP, Gunel M, Ment LR; Pacifier and Breastfeeding Trial Group. COL4A1 mutation in preterm intraventricular hemorrhage. *J Pediatr*. 2009; 155(5):743-5.
15. Levit O, Jiang Y, **Bizzarro MJ**, Hussain N, Buhimschi CS, Gruen JR, Zhang H, Bhandari V. The Genetic Susceptibility to Respiratory Distress Syndrome. *Pediatr Res*. 2009; 66(6):693-7.
16. **Bizzarro MJ**, Sabo B, Noonan M, Bonfiglio MP, Northrup V, Diefenbach K. A Quality Improvement Initiative to Reduce Central Line Associated Bloodstream Infections in a Neonatal Intensive Care Unit. *Infect Control Hosp Epidemiol*. 2010 ;31(3):241-8.
17. **Bizzarro MJ**, Jiang Y, Hussain N, Gruen JR, Bhandari V, Zhang H. The Impact of Environmental and Genetic Factors on Neonatal Late-Onset Sepsis. *J Pediatr*. 2011; 158(2):234-8.
18. **Bizzarro MJ**, Conrad SA, Kaufman DA, Rycus P, on behalf of the ELSO Task Force on Infections and ECMO. Infections Acquired During Extracorporeal Membrane Oxygenation in Neonates, Children, and Adults. *Pediatr Crit Care Med*. 2011;12(3):277-8.
19. Gozzo YF, Cummings CL, Chapman RL, **Bizzarro MJ**, Mercurio MR. Who is performing medical procedures in the neonatal intensive care unit? *J Perinatol*. 2011;31(3):206-11.
20. Hopewell B, Steiner LA, Ehrenkranz RA, **Bizzarro MJ**, Gallagher PG. Partial exchange transfusion for polycythemia hyperviscosity syndrome. *Am J Perinatol*. 2011;28(7):557-64
21. Thompson A, **Bizzarro M**, Yu S, Diefenbach K, Simpson BJ, Moss RL. Risk factors for necrotizing enterocolitis totalis: a case-control study. *J Perinatol*. 2011;31(11):730-8.
22. Alexander VN, Northrup V, **Bizzarro MJ**. Antibiotic Exposure in the Newborn Intensive Care Unit and the Risk of Necrotizing Enterocolitis. *J Pediatr*. 2011;159(3):392-7
23. Stoll BJ, Hansen NI, Sánchez PJ, Faix RG, Poindexter BB, Van Meurs KP, **Bizzarro MJ**, Goldberg RN, Frantz ID 3rd, Hale EC, Shankaran S, Kennedy K, Carlo WA, Watterberg KL, Bell EF, Walsh MC, Schibler K, Laptook AR, Shane AL, Schrag SJ, Das A, Higgins RD; for the Eunice Kennedy Shriver National Institute of Child Health and Human Development Neonatal Research Network. Early Onset Neonatal Sepsis: The Burden of Group B Streptococcal and E. coli Disease Continues. *Pediatrics*. 2011;127(5):817-26.
24. Buhimschi CS, Bhandari V, Dulay AT, Nayeri UA, Abdel-Razeq SS, Pettker CM, Thung S, Zhao G, Han YW, **Bizzarro M**, Buhimschi IA. Proteomics Mapping of Cord Blood Identifies Haptoglobin “Switch-On” Pattern as Biomarker of Early-Onset Neonatal Sepsis in Preterm Newborns. *PLoS ONE* 2011;6(10):e26111
25. Colacchio K, Deng Y, Northrup V, **Bizzarro MJ**. Complications associated with central and non-central venous catheters in a neonatal intensive care unit. *J Perinatol*. 2012: 32(12); 941-96.

26. Streimish I, **Bizzarro M**, Northrup V, Wang C, Renna S, Koval N, Li FY, Ehrenkranz R, Rinder HM, Bhandari V. Neutrophil Cd64 as a Diagnostic Marker in Neonatal Sepsis. *Pediatr Infect Dis J*. 2012; 31(7):777-81.
27. Streimish I, **Bizzarro M**, Northrup V, Wang C, Renna S, Koval N, Li FY, Ehrenkranz RA, Rinder HM, Bhandari V. Neutrophil CD64 with Hematologic Criteria for Diagnosis of Neonatal Sepsis. *Am J Perinatol*. 2014;31(1):21-30.
28. **Bizzarro MJ**, Li FY, Katz K, Shabanova V, Ehrenkranz RA, Bhandari V. Temporal quantification of oxygen saturation ranges: an effort to reduce hyperoxia in the neonatal intensive care unit. *J Perinatol*. 2014;34(1):33-8.
29. **Bizzarro MJ**, Ehrenkranz RA, Gallagher PG. Concurrent Bloodstream Infections in Infants with Necrotizing Enterocolitis. *J Pediatr* 2014;164(1):61-6
30. Levit O, Bhandari V, Li FY, Shabanova V, Gallagher PG, **Bizzarro MJ**. Clinical and Laboratory Factors That Predict Death in Very Low Birth Weight Infants Presenting with Late-onset Sepsis. *Pediatr Infect Dis J*. 2014;33(2):143-6.
31. Khattab M, Cannon-Heinrich C, **Bizzarro MJ**. Ear drainage and the role of sepsis evaluations in the neonatal intensive care unit. *Acta Paediatr*. 2014;103(7):732-6.
32. Levit OL, Calkins KL, Gibson LC, Kelley-Quon L, Robinson DT, Elashoff DA, Grogan TR, Li N, **Bizzarro MJ**, Ehrenkranz RA. Low-Dose Intravenous Soybean Oil Emulsion for Prevention of Cholestasis in Preterm Neonates. *J Parenter Enteral Nutr*. 2014 Jun 24. [Epub ahead of print]
33. **Bizzarro M**, Gross I, Barbosa FT. Inhaled nitric oxide for the postoperative management of pulmonary hypertension in infants and children with congenital heart disease. *Cochrane Database Syst Rev*. 2014 Cochrane Database Syst Rev. 2014 Jul 3;7:CD005055
34. **Bizzarro MJ**, Shabanova V, Baltimore RS, Dembry LM, Ehrenkranz RA, Gallagher PG. Neonatal Sepsis 2004-2013: The Rise and Fall of Coagulase-Negative Staphylococci. *J Pediatr*. 2015;166(5):1193-9.
35. Nelson MU, **Bizzarro MJ**, Baltimore RS, Dembry LM, Gallagher PG. Clinical and Molecular Epidemiology of Methicillin-Resistant Staphylococcus aureus in a Neonatal Intensive Care Unit in the Decade Following Implementation of an Active Detection and Isolation Program. *J Clin Microbiol*. 2015. 53(8):2492-501.
36. Leder SB, Siner JM, **Bizzarro MJ**, McGinley BM, Lefton-Greif MA. Oral Alimentation in Neonatal and Adult Populations Requiring High-Flow Oxygen via Nasal Cannula. *Dysphagia*. 2016; 31(2):154-159.
37. Wortham JM, Hansen NI, Schrag SJ, Hale E, Van Meurs K, Sánchez PJ, Cantey JB, Faix R, Poindexter B, Goldberg R, **Bizzarro M**, Frantz I, Das A, Benitz WE, Shane AL, Higgins R, Stoll BJ; Eunice Kennedy Shriver NICHD Neonatal Research Network. Chorioamnionitis and Culture-Confirmed, Early-Onset Neonatal Infections. *Pediatrics*. 2016; 137(1):1-11.
38. Levit OL, Shabanova V, Bazy-Asaad A, **Bizzarro MJ**, Bhandari V. Risk factors for tracheostomy requirement in extremely low birth weight infants. *J Matern Fetal Neonatal Med*. 2017; 31: 1-15.
39. Montgomery AM, Bazy-Asaad A, Asnes JD, **Bizzarro MJ**, Ehrenkranz RA, Weismann CG. Biochemical Screening for Pulmonary Hypertension in preterm infants with bronchopulmonary dysplasia. *Neonatology*. 2016;109(3):190-194.
40. Weismann CG, Asnes JD, Bazy-Asaad A, Tolomeo C, Ehrenkranz RA, **Bizzarro MJ**. Pulmonary hypertension in preterm infants: results of a prospective screening program. *J Perinatol*. 2017. 37(5): 572-577.
41. Grossman M, Berkwitz A, Osborn R, Xu Y, Esserman D, Shapiro E, **Bizzarro MJ**. An initiative to improve the quality of care of infants with neonatal abstinence syndrome. *Pediatrics*, 2017. May 18. Epub ahead of print

42. Nzegwu NI, Rychalsky MR, Nallu LR, Song X, Deng Y, Natusch AM, Baltimore RS, Paci GR, **Bizzarro MJ**. Implementation of an antimicrobial stewardship program in a neonatal intensive care unit. *Infect Control Hosp Epidemiol*. 2017; 38(10): 1137-43.
43. Peterec SM, **Bizzarro MJ**, Mercurio MR. Is Extracorporeal Membrane Oxygenation for a Neonate Ever Ethically Obligatory? *J Pediatr*. 2018; 195:297-301.
44. Levit O, Shabanova V, **Bizzarro M**. Impact of a dedicated nursing team on central line-related complications in a neonatal intensive care unit. *J Matern Fetal Neonatal Med*. 2019 Jan 7:1-5 [epub ahead of print].
45. Asghar A, Shabanova V, Mercurio MR, **Bizzarro MJ**. A high rate of false positive newborn screening results in the neonatal intensive care unit. *J Child Adolesc Health*. 2019; 3(1):7-11.
46. Advani SD, Murray TS, Murdzek CM, Aniskiewicz MJ, **Bizzarro MJ**. Shifting focus toward healthcare-associated bloodstream infections: The need for neonatal intensive care unit-specific NHSN definitions. *Infect Control Hosp Epidemiol*. 2020;41(2): 181-6.
47. Levit OL, Shabinova V, **Bizzarro MJ**. Umbilical catheter-associated complications in a level IV neonatal intensive care unit. *J Perinatol* 2020;40(4):573-80.
48. Levit O, Shabanova V, **Bizzarro MJ**, Johnston L. Current training in percutaneously inserted central catheter (PICC) placement and maintenance for neonatal-perinatal medicine fellows. *J Perinatol* 2020; 40(4):598-94.
49. Grossman MR, Berkwitt AK, Osborn RR, Citarella BV, Hochreiter D, **Bizzarro MJ**. Evaluating the effect of hospital setting on outcomes for neonatal abstinence syndrome. *J Perinatol* 2020 [Epub ahead of print]

### Chapters, Books, and Reviews

50. **Bizzarro MJ**, Gross I. Effects of hormones on fetal lung development. *Obstet Gynecol Clin North Am*. 2004; 31(4):949-61.
51. **Bizzarro MJ**, Gallagher PG. Congenital/perinatal infections. In: Shah SS, editor. Blueprints guides-Pediatric Infectious Diseases. Blackwell Publishing, Inc., Boston, MA, 2004, pp.125-134.
52. **Bizzarro MJ**, Colson E, Ehrenkranz RA. Differential diagnosis and management of anemia in the newborn. *Pediatr Clin North Am*. 2004; 51(4):1087-107.
53. **Bizzarro MJ**, Bhandari V. Nitric oxide. In: Wnek GE, Bowlin GL, editors. Encyclopedia of Biomaterials and Biomedical Engineering. Marcel Dekker. Inc., New York, NY, 2004, pp. 1075-1083.
54. Gross I and **Bizzarro MJ**. Fetal Lung Development and Amniotic Fluid Analysis. In: Reece, E.A., Hobbins, J.C. eds. Clinical Obstetrics Handbook, 2<sup>nd</sup> edition. Blackwell Publishing, Inc., Boston, MA, 2006.
55. **Bizzarro MJ**, Gallagher PG. Antibiotic-resistant organisms in the neonatal intensive care unit. *Semin Perinatol*. 2007 Feb;31(1):26-32.
56. Gross I and **Bizzarro MJ**. Fetal Lung Development and Amniotic Fluid Analysis. In Reece, E.A., Hobbins, J.C. eds.: Clinical Obstetrics, 3<sup>rd</sup> Edition. Blackwell Publishing, Inc., Boston, MA, 2007, 85-92.
57. Thompson A and **Bizzarro MJ**. Necrotizing Enterocolitis in Newborns: Pathogenesis, Prevention and Management. *Drugs*. 2008; 68(9): 1227-38.
58. Li S and **Bizzarro MJ**. Prevention of central line associated bloodstream infections in critical care units. *Curr Opin Pediatr*. 2011 Feb;23(1):85-90.
59. Benjamin JR, **Bizzarro MJ**, Cotten CM. Congenital Diaphragmatic Hernia: Updates and Outcomes. *NeoReviews*, 2011; 12(8);e439-452.
60. **Bizzarro MJ**. Health care-associated infections in the neonatal intensive care unit: barriers to continued success. *Semin Perinatol*. 2012;36(6):437-44.
61. Wynn JL, Wong HR, Shanley TP, **Bizzarro MJ**, Saiman L, Polin RA. Time for a Neonatal-Specific Consensus Definition for Sepsis. *Pediatr Crit Care Med*. 2014;15(6):523-8.

62. Mobley RE, **Bizzarro MJ**. Central Line-Associated Bloodstream Infections in the NICU: Successes and Controversies in the Quest for Zero. *Semin Perinatol*. 2017; 41(3):166-174.

**Case Reports, Technical Notes, Letters**

63. **Bizzarro MJ**, Copel JA, Pearson HA, Pober B, Bhandari V. Pulmonary hypoplasia and persistent pulmonary hypertension in the newborn with homozygous  $\alpha$ -thalassemia: a case report and review of the literature. *J Mat-Fet Neonat Med*. 2003; 14(6): 411-16.
64. **Bizzarro MJ**, Callan DA, Farrel PA, Dembry L-M, Gallagher PG. *Granulicatella adiacens* and early-onset sepsis in neonate [letter]. *Emerg Infect Dis*. 2011 17(10):1971-3.
65. Szafranski P, Yang Y, Nelson MU, **Bizzarro MJ**, Morotti R, Langston C, Stankiewicz P. Novel FOXF1 deep intronic deletion causes lethal lung developmental disorder Alveolar Capillary Dysplasia with Misalignment of Pulmonary Veins. *Hum Mutat*. 2013; 34(11): 1467-71.
66. Nelson MU, Maksimova Y, Schulz V, **Bizzarro MJ**, Gallagher PG. Late-onset *Leclercia adenocaryolata* sepsis in a premature neonate. *J Perinatol*. 2013; 33: 740-2.
67. Nelson MU, **Bizzarro MJ**, Dembry LM, Baltimore RS, Gallagher PG. One size does not fit all: why universal decolonization strategies to prevent methicillin-resistant *Staphylococcus aureus* colonization and infection in adult intensive care units may be inappropriate for neonatal intensive care units. *J Perinatol*. 2014; 34(9):653-5
68. **Bizzarro MJ**, Lefton-Greif MA, McGinley BM, Siner JM. FIRST, “KNOW” HARM: Response to Letter to the Editor. *Dysphagia*. 2016;31(6):783-5
69. **Bizzarro MJ**. Avoiding Unnecessary Antibiotics Exposure in Premature Infants: Understanding When (Not) to Start and When to Stop. *JAMA Network Open*. 2018; 18(1):e180165.
70. **Bizzarro MJ**. Oxygen Saturation Targeting in Extremely Preterm Infants. *JAMA*. 2018; 19(21):2173-4
71. **Bizzarro MJ**, Gallagher PG. Why so little progress in regionalization of perinatal care when transport of high-risk neonates remains a substantial risk? *J Perinatol*. 2020;40(3):357-358.