

CURRICULUM VITAE

I. GENERAL BIOGRAPHICAL INFORMATION

A. PERSONAL INFORMATION

NAME: **Flor de Maria Muñoz-Rivas, MD, MSc**
BUSINESS ADDRESS: Baylor College of Medicine
Texas Children's Hospital
1102 Bates Ave, Suite 1150
Houston, TX 77030

B. PROFESSIONAL EDUCATION

Undergraduate: Baccalaureus Scientiae
1984-1987 Francisco Marroquin University, Guatemala City, Guatemala

Medical: Doctor of Medicine, Cum Laude
1987-1991 Francisco Marroquin University, Guatemala City, Guatemala

Internship: Department of Pediatrics
12/1991 - 09/1992 Roosevelt Hospital, Guatemala City, Guatemala

10/1992 - 10/1993 Department of Pediatrics
Baylor College of Medicine Affiliated Hospitals, Houston, Texas

Residency: Department of Pediatrics
11/1993 - 10/1995 Baylor College of Medicine Affiliated Hospitals, Houston, Texas

Fellowship: Department of Pediatrics, Section Infectious Diseases
11/1995 – 10/1998 Baylor College of Medicine Affiliated Hospitals, Houston, Texas

C. ACADEMIC APPOINTMENTS

Current: **Associate Professor** (Tenured, 2013-), Department of Pediatrics (Primary), Section Infectious Diseases and Department of Molecular Virology and Microbiology (Secondary), Baylor College of Medicine, Houston, TX.

Medical Director (2011-2024), Transplant Infectious Diseases, Texas Children's Hospital, Houston TX.

Previous: Assistant Professor, Department of Pediatrics, Section of Infectious Diseases (Tenure track primary appointment 07/2003-2013), and Department of Molecular Virology and Microbiology (primary appointment, non-tenured: 1998-2003), Baylor College of Medicine, Houston, TX.

Research Associate, Department of Pathology, Baylor College of Medicine, Houston, TX, 1997-1998.

Instructor, Department of Physiology, Francisco Marroquin University, Guatemala City, Guatemala, 02/1991 - 11/1991.

D. OTHER ADVANCED TRAINING

2020-21	Infectious Diseases Society of America Leadership Institute
2017	Advanced Course of Vaccinology (ADVAC), University of Geneva and Fondation Merieux, Veyrier du Lac, France
2013	Advance Quality Improvement Course Texas Children's Hospital, Houston, Texas
2005 – 2008	Masters in Science, Clinical Investigation and Epidemiology Clinical Scientist Training Program Baylor Graduate School of Biomedical Sciences, Houston, Texas Support: Mentored Clinical Investigator Award NIH K-12 RR17665
2007	Introduction to Epidemiology – University of Texas School of Public Health
2005-2006	Clinical Investigation for the Career Scientist and Seminar Series Baylor Graduate School of Biomedical Sciences Clinical Decision Analysis – Baylor College of Medicine
2005	Fundamentals in Clinical Investigation, BCM 8/2005-4/2006 Intermediate Biostatistical Methods I (PH-1725) and II (PH-1726) University of Texas School of Public Health
10/1999 - 01/2000	Masters Teachers Fellowship (Medical Education) Baylor College of Medicine, Houston, Texas

E. OTHER INFORMATION

MEDICAL HONORS AND AWARDS

- **Recipient of the Robert F. Lemanske Jr, MD, FAAAAI Lectureship** at the American Academy of Allergy Asthma and Immunology Annual Meeting, February 25, 2024.
- **Recipient Honorary Faculty Recognition**, Universidad Autonoma de Monterrey, July 14, 2023.
- **Elected Member of the Board of the National Foundation of Infectious Diseases**, July 01, 2023.
- **Mayor Silvester Turner's Hispanic Heritage Award for Healthcare, 2022**. Recipient along with M.E. Botazzi, nominated by the City of Houston's Hispanic Council in recognition of COVID-19 pandemic work.
- **Fellow of the Infectious Diseases Society of America, 2020**. Fellowship in the Society is a recognition and honor conferred upon those who have achieved professional excellence in the field of infectious diseases.
- **Health Science Reports Reviewer Award, 2019**. Given to two outstanding reviewers annually (starting in 2019), for the high quality of the submitted reviews, both critical and constructive, timely responses, and supporting the journal by responding to invitations to review.
- Featured as **Centers for Disease Control and Prevention Flu Fighter**, as AAP representative for the Committee of Infectious Diseases and the Disaster Preparedness Advisory Council, December 2018.
- Featured in the **Clinician's Corner section of COCA Learn**, the CDC's Clinician Outreach and Communication Activity (COCA), December 2018.

- **Recognition for Outstanding Achievement in the Texas Medical Center by a Physician of Latino Heritage**, “For caring and outstanding medical practice in infectious diseases, dedicated quest for discovering vaccines to protect humankind from deadly viral infections, excellence in teaching, and for being a wonderful and highly valued colleague”, the Texas Medical Center Orchestra and the Mexican Institute of Greater Houston. Houston, TX, October 15, 2016.
- **Award for Excellence for Presentation at Pediatric Grand Rounds**, January 2014. Title: “The Challenges in Pertussis Disease and Prevention”, June 7, 2013. Given by the Baylor College of Medicine Department of Pediatrics for the best Grand Rounds presentation during the academic year July 1, 2012 to June 30, 2013.
- **Fulbright and Jaworski Faculty Excellence Award for Teaching and Evaluation**, Baylor College of Medicine, April 2011.
- **Letter of Commendation for Outstanding Presentation at Baylor Pediatric Grand Rounds**. September, 2010. Title of presentation: “Influenza Update”. Faculty Teaching Awards Committee, Baylor College of Medicine and Texas Children’s Hospital, Houston, Texas.
- **Special Recognition Award given by NIAID, DMID of the National Institutes of Health** in honor of extraordinary work in H1N1 influenza research during the H1N1 pandemic, January 2010.
- **Mentored Clinical Investigator Award** – 2005-2007- NIH (K-12), Baylor College of Medicine
- **Baylor Pediatric Award of Excellence in Teaching**, August, 2005. Given by the Department of Pediatrics for the most outstanding teaching performance in teaching during the academic year from July 1, 2004 to June 30, 2005.
- **Letter of Commendation for Outstanding Presentation at Baylor Pediatric Grand Rounds**. August, 1999. Title of presentation: “Viral Influenza Update”. Faculty Teaching Awards Committee, Baylor College of Medicine and Texas Children’s Hospital, Houston, Texas.
- **Special Consideration and Recognition Award in the Abstract Competition for Fellows-in-Training** for “Disseminated Adenovirus Disease in Immunocompromised and Immunocompetent Children”, Infectious Disease Society of America, 1997.
- **Speros T. Martel Fellowship Award**, Baylor College of Medicine, Houston, Texas, 1995-1998.
- **Diploma of Recognition for Excellence in Academic Performance**. Doctor of Medicine, Cum Laude, 1991, Universidad Francisco Marroquin, Guatemala. Graduation thesis: Munoz, FM. Lyme Disease in Guatemala: Identification of a Vector of *Borrelia burgdorferi*. Guatemala, April, 1991. Advisor: Jorge T. Rodriguez, MD

BOARD CERTIFICATION

1996	American Board of Pediatrics (Re-certification: 2002, 2013)
2001	Sub-Board Certification Pediatric Infectious Diseases (Re-certification: 2008)

LICENSURE

1991	Guatemala Medical License No. 8057
1992	Certification from the Educational Commission for Foreign Medical Graduates (ECFMG) Number: 0-414-011-7 Basic Science (NBME): September 5, 1991 Clinical Science (FMGEMS): January 22, 1992 English Examination: January 22, 1992 Indefinite Validation No. 7996 D
1993	Federal Licensing Examination (FLEX)
1997	Pennsylvania License No. MD-060491-L

LANGUAGES English, French and Spanish (fluent in all, oral and written)

II. RESEARCH INFORMATION

A. RESEARCH SUPPORT

NIH/NIAID R21 1R21AI183248-01. SARS-CoV-2 and respiratory virus co-infections among young children. PI: Annette Regan, USF/KP. Role: Site principal investigator. Period: 2024-2026. Effort: 5%. Grant: 158,000 YR1, 176,873 YR2.

NIH/NIAID R01 PAR-21-083. 1U01 AI67799-01A1 Comparison of high dose vs. standard dose influenza vaccine in solid organ transplant recipients. PI: Natasha Halasa, Vanderbilt University. Role: Site Principal Investigator. Period: 03/2023-02/2028. Effort: 5%. Grant: 8,552,334.

CDC U01IP001150. Surveillance for Vaccine Preventable Disease in Children. PI: Julie Boom, BCM. Role: Co-investigator. Period: 09/2021-08/2026. Effort: 5%. Grant: 1,172,071

NIH/NIAID R01 A169239-01. Safety and Effectiveness of COVID-19 Vaccines in Pregnancy. PI: Annette Regan, USF. Role: Site principal Investigator. Period: 2022-2025. Effort: 5%. Grant: 1.3 Million.

NIH/NIAID R01. Multicenter Molecular Diagnosis and Host Response of Respiratory Viral Infections in Pediatric Transplant Recipients (VIPER). A PIDSTRAN Study (PIDS Transplant Infectious Diseases) PI: William Steinbach, Arkansas Children's Institute and Gabriela Maron, St. Jude Children's Research Hospital. Role: Site Principal Investigator. Period 2022-2024. Effort: 5%. Grant: TBD

CDC – BAA 75D301-22-R-72097. Topic 21.5. Contract: 75D30322C14673. Serial Assessment Following Vaccination After MIS-C (SAF-VAC). PI Vogel, BCM/TCH. Role: Co-investigator. Period: 2022-2024. Effort 5%. Grant: TBD

NIH/NIAID/DMID. UM1 AI48575-01. Vaccine and treatment evaluation units (VTEU). BCM serves as a focal point for clinical research within the Infectious Diseases Clinical Research Consortium (IDCRC), composed of the VTEUs, Leadership Group (LG) and the National Institutes of Allergy and Infectious Diseases (NIAID). PI: Hana ElSahly, BCM, Houston, TX. Total award: 20,220,330. Role: Investigator. Period: 2019-2026. Effort: 10%. Grant. \$380,168 YR1 Direct.

Projects:

1. Observational, Prospective Cohort Study of the Immunogenicity and Safety of SARS-CoV-2 Vaccines Administered during Pregnancy or Postpartum and Evaluation of Antibody Transfer and Durability in Infants (21-0004). MOMI-Vax. Role: Lead PI. Period 2021-2024. Effort 15%. Grant: By enrollment.
2. A Phase 2/3, Two-Part, Open-Label, Dose-Escalation, Age De-escalation and Randomized, Observer-Blind, Placebo-Controlled Expansion Study to Evaluate the Safety, Tolerability, Reactogenicity, and Effectiveness of mRNA-1273 SARS-CoV-2 Vaccine in Healthy Children 6 Months to Less Than 12 Years of Age (mRNA-1273-P204). Role: Site Co-PI. Period: 2021 only. Effort: 10%.

NIH/NIAID/DMID-CASG. DMID 19-0005. A prospective study of Acute Flacid Myelitis (AFM) to define natural history, risk factors, and pathogenic mechanisms. PI: David Kimberlin, U. of Alabama. Role: Site Principal Investigator. Period: 2019-2024. Effort: 5%. Grant: \$131,102

CDC_6U01GH002235-05-04_RFA-GH18-004. Advancing Public Health Research in Central America (Belize, Costa Rica, Dominican Republic, El Salvador, Guatemala, Honduras, Nicaragua, Panama). Project: An integrated One Health Approach to Detect and Respond to Emerging Disease Threats in High-Risk Regions of Central America. PI: Kristy Murray. BCM, Houston, TX
Role: Co-PI. Period: 2018-2024. Effort: 10%. Grant: 5,415,393 USD.

CDC/Abt. Applied research to address the coronavirus (COVID-19) emerging public health emergency. Prospective cohorts to assess COVID-19 and other respiratory diseases (ID/EPB). The epidemiology of SARS-COV-2 in pregnancy and infancy (ESPI) network: ESPI Electronic cohort.
Role: Site Principal Investigator. Period: 2020-2022. Effort: 10%. Grant. \$350,000

NIH/NIAID/DCR/OCRPRO. Randomized phase I study of the safety, infectivity and immunogenicity of a single dose of the recombinant live attenuated RSV vaccine ΔNS2/Δ1313/11314L or placebo, delivered as a nasal spray to RSV seronegative infants and children 6 to 24 months of age. PI: Pedro Piedra, BCM, Houston, TX (single site study)
Role: Co-PI. Period: 2019-2020. Effort: 20%. Grant: \$891,767. (Halted by COVID-19 Pandemic)

IMPRINT. Maternal transplacental antibody decay rates: an individual participant data meta-analysis. PI: Merryn Voysey. University of Oxford, UK
Role: Co-Investigator. Period 2018-2019. Effort: Data sharing and collaboration. Grant: 70,000 pounds.

Bill and Melinda Gates Foundation and The Brighton Collaboration. Global Alignment of Immunization safety in Pregnancy (GAIA) Consortium - Extension. PI: Jan Bonhoeffer, BC
Role: Site PI and Taskforce Lead. Period: 2017-2018. Effort: 10%. Grant: \$50,000. Total grant: \$1 Million.

National Vaccine Program Office. PI: Steve Black, U. of Cincinnati and Vaccine GRID
Role: Site PI, Co-Investigator. Evaluation of GAIA definitions for assessment of AEFI after maternal immunization in high income settings. Period: 2017-2018. Effort: 5%. Grant: \$22,000 Total: \$250,000.

National Institutes of Health U01AI125135-01. PI: Natasha Halasa, Vanderbilt.
Role: Co-Investigator. Comparison of high vs. standard dose flu vaccine in pediatric stem cell transplant recipients. Period: 2016-2019. Effort: 5%. Grant: total: 1,711,635.00. BCM: 217,938.00.

Centers for Disease Control and Prevention Award CDC-RFA-IP16-004/PPHF. Enhanced Surveillance for New Vaccine Preventable Diseases. PI: Julie Boom, BCM.
Role: Co-investigator. Pediatric ARI and AGE Surveillance for the New Vaccine Surveillance Network (NVSN). Period: 2016-2021. Effort: 5%. Grant: 1 Million per year.

Centers for Disease Control and Prevention Award Grant No. 3U01IP000461-05S2. Enhanced Surveillance for New Vaccine Preventable Diseases. PI: Julie Boom, BCM
Role: Co-Investigator. Pediatric ARI Surveillance. Period: 2015-2016. Effort: 5%. Grant: \$500,000.

Bill and Melinda Gates Foundation and Brighton Collaboration. Global Alignment of Immunization safety in Pregnancy (GAIA) Consortium. PI: Jan Bonhoeffer, Brighton Collaboration.
Role: Site PI and Taskforce Lead. Period: 2015-17. Effort: 10%. Grant: \$51,000. Total grant: \$500,000

Centers for Disease Control and Prevention. APHIR-0006. The epidemiology of novel influenza virus infection and evaluation of antiviral and vaccine effectiveness. PI: Abt, Inc.
Role: Principal Investigator BCM site for 3 awards. Period 2013-2020. Effort: 15%.

- **Inpatient Study.** Grant: Phase A: \$50,000. Phase B-D: \$1.2 Million.
- **Pregnant Women Study.** Grant: Phase A: \$20,000. Phase B-D: \$750,000

- **Ambulatory patients Study:** Grant: Phase A: \$50,000. Phase B-D: \$1.2 Million

Vaccine and Treatment Evaluation Units: Evaluation of control measures against diseases other than AIDS. NIH/DMID. PI: Wendy Keitel. Period: 2013-2020. Grant: Based on projects. Effort: 10-30%.

Projects:

- Lead PI. Natural History of postnatally acquired Zika infection in Guatemala. Period: 2017-2019. Effort: 30%. Budget: \$5.2 million. Collaboration with University of Colorado at Denver, Center for Global Health, and FUNSALUD in Guatemala.
- Lead PI. Zika in Guatemala: Pediatric disease and transmission study. Protocol development. Period 2016. Effort: 10%. Budget: \$50,000. Collaboration with University of Colorado Center for Global Health.
- Co-Investigator: Vancomycin PK in critically children. Period: 2017-2019. Effort: 5%. Budget: 1 Mil.
- Lead PI. Influenza H3N2variant monovalent vaccine in a pediatric population. Period 10/1/12 to 12/31/16, Effort: 10-30%, Budget: ~ \$350,000.

Vaccine and Treatment Evaluation Units: Evaluation of control measures against diseases other than AIDS. NIH/DMID 08-03. PI: Wendy Keitel. Period: 2007-2013. Grant: \$23.7 Million.

Role: Investigator, Effort: 70%.

Projects:

- Lead PI. Influenza H3N2variant monovalent vaccine in children and adolescents. Period: 12/2012 to 7/2015. Effort: 20%. Budget: \$540,000
- Site/Lead PI. Maternal Immunization with Tdap and effect on infant responses to DTaP vaccination. Period 6/1/08 to 12/31/13, Effort 30%, Budget: \$1,237,166
- Site PI. CMV vaccine in adolescent females. Period 7/1/08 to 12/31/13, Effort 25%, Budget: \$1,512,733
- Co-Investigator. Safety and immunogenicity of seasonal inactivated trivalent vaccine in pregnant women summer 2009. Period 5/09 to 6/10, Effort 10%, Budget: \$110,000
- Co-Investigator. Rapid response to novel H1N1 sample collection protocol. Period 4/09 – 6/10, Effort 10%, Budget: ~\$45,000
- Co-Investigator. H1N1 influenza vaccine (Sanofi) in pregnant women. Period 8/09 – 8/10, Effort 10%, Budget: \$230,000
- Co-Investigator. H1N1 influenza vaccine (Novartis) in pregnant women. Period 9/09 – 9/10, Effort 10%, Budget: \$250,000
- Site PI. Novel H1N1 influenza vaccine in pediatrics, concomitant vs. sequential administration with TIV. Period: 7/09 – 11/10, Effort 25%, Budget: \$402,657
- Co-Investigator. Safety and Immunogenicity of three seasonal inactivated vaccines in pregnant women and cord blood antibodies 2010-2011 season. Period: 7/2010 – 12/2011, Effort 10%, Budget: \$600,000

Critical Pertussis Study. Collaborative Pediatric Critical Care Research Network, NICHD. PI: M. Sur, BCM. Role: Co-Investigator. Period 01/2009 – 12/2013, Effort 2%.

Evaluation of influenza-specific immune responses in children and adults during the 2010-2011 influenza season in the US. Vaccine Research Center. NIH/EMMES Corporation. PI: Shital Patel, BCM Grant: \$138,803. Role: Co-Investigator: Period 2010-2011. Effort: 2%.

Mentored Clinical Investigator Award. NIH K-12 RR17665, PI: Morey Haymond. Period 09/30/2002-07/31/2007. Investigator: F. Munoz, 2005-2007. Grant: \$156,924/year. Effort: 70%.

- PI - Improving influenza vaccine coverage in pregnant women in a multispecialty clinic – 2003-2008

Evaluation of control measures against diseases other than AIDS. NIH/DMID: N01-AI-25465. PI: Wendy Keitel. Period: 2002-2007. Grant: \$20,042,293. Role: Investigator. Effort: 30%.

- Lead PI. Improving influenza vaccine coverage of pregnant women (1998-2002). Period: 1998 – 2005
- Lead PI. Safety and effectiveness of influenza vaccine in pregnant women and their infants. Period: 1998 - 2005

Maternal Immunization for the Prevention of Infectious Diseases in Neonates and Infants. Contract – NIH/DMID: N01-AI-65316. PI: Paul Glezen. Period: 1998-2004, Grant: \$4,525,076
Role: Investigator. Effort: 25-50%.

- Principal Investigator - Maternal immunization with RSV PFP-2 subunit vaccine

Control of Epidemic Influenza – NIH/DMID. PI: Paul Glezen. Period: 1998-2003; Grant: \$4,931,889; Renewal: 2003-2008. PI: Pedro A. Piedra. Role: Investigator. Effort: 5-20%.

Respiratory pathogens research unit – NIH/DMID. PI: Robert Couch. Period: 1998-2003; Grant: \$16,433,799. Role: Investigator. Effort: 10%.

OTHER RESEARCH PROJECTS

2024-2026 Principal Investigator (BCM) A phase 3, randomized, observer-blinded trial to evaluate the safety, tolerability, and immunogenicity of a multivalent Group B Streptococcus vaccine in healthy pregnancy women and their infants. Protocol ID: C1091009. Sponsor: Pfizer. Period 3 years. Grant: Based on Enrollment. Effort: 20%.

2022-2026 Principal Investigator (BCM): A Master Phase 1/2/3 Protocol to Investigate the Safety, Tolerability, and Immunogenicity of Bivalent BNT162b2 RNA Based Vaccine Candidate(s) in Healthy Children. Protocol ID: C4591048. Sponsor: Pfizer. Period: 3 years. Grant: based on enrollment ~1.5 Million. Effort: 20%.

2024-2024 Principal Investigator (BCM). A phase 2/3 single arm, open label study to evaluate the safety, pharmacokinetics and efficacy of Obeldesivir in pediatric patients with COVID-19. Protocol: GS-US-611-6464. Sponsor: Gilead Sciences. Grant: Based on enrollment. Effort: 10%. Discontinued.

2022-2024 Principal Investigator (BCM): A Phase 2b, Open Label Study to Evaluate the Safety, Tolerability, and Immunogenicity of an RNA Vaccine Candidate BNT162b2 in Immunocompromised Participants \geq 2 Years of Age. Protocol ID: C4591024. Sponsor: Pfizer. Period: 3 years. Grant: based on enrollment - ~0.5 Million. Effort: 15%.

2021-2024 Principal Investigator (BCM): A Phase 1/2/3 Study to Evaluate the Safety, Tolerability, and Immunogenicity of an RNA Vaccine Candidate Against COVID-19 in Healthy Children <12 Years of Age. Protocol ID: C4591007. Sponsor: Pfizer. Period: 3 years. Grant: based on enrollment - ~4 Million. Effort: 20%.

2020-present: Collaborative projects with the Pediatric Infectious Diseases Society (PIDS) Transplant Group (PIDTRANS). Role: Site Principal investigator. Effort–shared with Transplant ID team.

- Evaluation of toxicities associated with prophylaxis for Cytomegalovirus in pediatric solid organ and hematopoietic stem cell transplant recipients (Letermovir study)
- Retrospective study of RSV disease impact in solid organ and hematopoietic transplant recipients
- Live vaccine administration in liver transplant recipients
- COVID-19 vaccines effectiveness in solid organ transplant recipients

2020-2023 Principal Investigator (BCM): A Phase 2/3 Single-Arm, Open-Label Study to Evaluate the Safety, Tolerability, Pharmacokinetics, and Efficacy of Remdesivir (GS-5734™) in Participants from Birth to < 18 Years of Age with COVID-19. Protocol ID: GS-US-540-5823. Sponsor: Gilead Sciences, Inc. Period: 1 year. Grant: ~ 500,000. Effort: 5%.

2019-2021 Co-Investigator: A Phase 3, Randomized, Double-blind, Active Comparator-controlled, Multicenter Clinical Study to Evaluate the Safety, Tolerability, and Immunogenicity of V114 in Recipients of Allogeneic Hematopoietic Stem Cell Transplant (PNEU-STEM) V.114-022. Protocol ID: 20182520.PI:C. Bocchini. Sponsor: Merck. Period: 2 years. Grant: per enrollment. Effort: 3%.

2018-2019 Principal Investigator (BCM): Prospective Birth Cohort Study to Monitor Early Signs and Symptoms of Respiratory Syncytial Virus (RSV) Disease in Children During Their First RSV Season Using Digital Health Technology (Mobile App) Protocol No. NOPRODRSV0012. Sponsor: Janssen Research and Dev. LLC. Period: 2 years. Grant: ~ 1.2 million. Effort: 5%.

2016 – 2019 Principal Investigator (BCM). A phase 3, Randomized, observer blind, placebo controlled, group sequential study to determine the immunogenicity and safety of a respiratory syncytial virus (RSV) F nanoparticle vaccine with aluminum in healthy third trimester pregnant women, and safety and efficacy of maternally transferred antibodies in preventing RSV disease in their infants. Sponsor: Novavax, Inc. Period: 4 years. Grant: Based on enrollment. Effort: 20%

2016-2018 Principal Investigator (BCM). A Phase 3, randomized, double-blind, placebo-controlled study evaluating the efficacy and safety of a human monoclonal antibody, REGN2222, for the prevention of medically attended RSV infection in preterm infants. Sponsor: Regeneron. Period: 2 years. Grant: Based on enrollment. Effort: 5%.

2016-2018 Principal Investigator (BCM). A phase 3, randomized, open label, active controlled study to evaluate the safety, pharmacokinetics and effectiveness of IV peramivir compared to oral oseltamivir in pediatric subjects with acute uncomplicated influenza (BCX1812-305). Sponsor: BioCryst. Period: 2 Years. Grant: Based on enrollment. Effort: 5%.

2015 – 2018 Principal Investigator (BCM). A Randomized, Double-blind, Placebo-controlled, 2-Part Study of Orally Administered ALS-008176 to Evaluate the Safety, Tolerability, Pharmacokinetics and Pharmacodynamics of Single Ascending Dosing and Multiple Ascending Dosing in Infants Hospitalized with Respiratory Syncytial Virus (RSV) Infection. Sponsor: InventivHealth/AliosBioPharma, INC. Period: 2 years. Grant: Based on enrollment. Effort: 5%.

2015 – 2016 Principal Investigator (BCM) A Phase II, Randomized, Double-blind, Placebo-controlled study to examine the effects of DAS181 in Immunocompromised subjects with Lower Respiratory Tract Parainfluenza Infection on Supplemental Oxygen (DAS-181-2-05). Sponsor: ANSUN Biopharma. Period: 2016-2017. Grant: Based on enrollment. Effort: 5%.

2014 – 2016 Principal Investigator (BCM). Phase II, Safety and Immunogenicity of an experimental RSV vaccine for pregnant women. Sponsor: Novavax. Period: 2 years. Grant: ~\$300,000, Effort: 15%

2014 - 2015 Principal Investigator (BCM) A Phase 3, Open-label, Multicenter Study of the Safety/Tolerability and Efficacy of Brincidofovir (CMX001) for the Prevention of Adenovirus (AdV) Disease in Subjects with Asymptomatic AdV Infection at Risk of Progression and for the Treatment of Subjects with Localized or Disseminated AdV Disease. CMX001-304. Sponsor: Chimerix, Inc. Period: 3 years. Grant: based on enrollment. Effort: 5%.

2012-2013 Principal Investigator (BCM). A Multi-Center, Outpatient, Surveillance Study of Respiratory Syncytial Virus (RSV) Infection and RSV-related Hospitalizations among Subjects < 24 Months of Age with a Medically Attended Respiratory Tract Infection. Sponsor: Gilead. Period: 6 mos. Grant: \$203,000. Effort: 10%.

2012-2013 Principal Investigator (BCM). Evaluation of immunogenicity and safety of GSK Biologicals' Tdap booster vaccine (*Boostrix™*) in young adults, administered 10 years after previous Tdap boosting. Sponsor: GlaxoSmithKline. Period: 1 yr. Grant: Based on enrollment. Effort: 10%

2011-2014 Principal Investigator (BCM). An open label, multi center, single arm study to evaluate the safety and tolerability of intravenous zanamivir in the treatment of hospitalized adult, adolescent and pediatric subjects with confirmed influenza infection. Protocol NAI113678. Sponsor: GlaxoSmithKline. Period: 2-3 years. Grant: ~\$60,000; Effort: 10%.

2010-2012 Principal Investigator (BCM). An open label prospective, pharmacokinetic/pharmacodynamic and safety evaluation of intravenous oseltamivir (Tamiflu®) in the treatment of infants < 1 year of age with confirmed influenza infection, Protocol No. NP25138. Sponsor: Hoffman-LaRoche. Period: 2-3 years. Grant: \$66,400; Effort: 10%.

2010-2012 Principal Investigator (BCM). An open label prospective, pharmacokinetic/pharmacodynamic and safety evaluation of intravenous oseltamivir (Tamiflu®) in the treatment of children 1 to 12 years of age with confirmed influenza infection, Protocol No. NP25139. Sponsor: Hoffman-LaRoche. Period: 2-3 years. Grant: \$64,018; Effort: 10%.

2003-2004 Principal Investigator (BCM). Household transmission study of Bordetella pertussis: who infects young infants? An epidemiological study protocol. Multicenter. Sponsor: Aventis Pasteur. Period: 1 year. Grant: \$93,200 Effort: 10%. Project extended with additional funds (\$18,995) 2004.

2002 – 2003 Principal Investigator (BCM). A phase III, observer-blinded, randomized, multicenter, clinical study of the safety, immunogenicity and consistency of three manufacturing lots of GlaxoSmithKline Biologicals Tdap candidate vaccine as compared to a US licensed Td vaccine (Massachusetts Public Health Biologic Laboratories) when given as a booster dose to healthy adolescents (10-18 years of age). Multicenter study. GlaxoSmithKline Biologicals. Period: 11/2002-09/2003; Grant: \$122,000; Effort: 10%

2002-2003 Principal Investigator (BCM). A phase IIIb, open, multicenter study of the immunogenicity and safety of one dose of GlaxoSmithKline Biologicals inactivated hepatitis A vaccine (Havrix [720 EI.U/0.5 mL dose] administered to healthy children who were seropositive for anti-HAV prior to a primary vaccination course with Havrix in study HAV-210 and to a control group of healthy children who are non-immune for hepatitis A. Multicenter study. GlaxoSmithKline biologicals. Period: 3 months; Grant: \$1,108; Effort: 5%

2001-2002 Principal Investigator (BCM). An observational study to characterize the disease course and outcome of respiratory syncytial virus (RSV) in otherwise healthy infants. Multicenter study. Viropharma Inc. Period: 1 year; Grant: \$27,495; Effort: 10%

2000- 2001 Co-Principal Investigator. A phase II, double blind, randomized, placebo controlled study to evaluate the safety and antiviral activity of Pleconaril suspension in the treatment of children 2 to 12 years of age with a picornaviral respiratory illness. Multicenter study, Viropharma, Inc. Period: 1 year; Grant: \$114,530; Effort: 10%

2000-2001 Principal Investigator (BCM). A phase 2, randomized, double-masked, placebo controlled, multicenter study of intranasally administered RFI-641 for secondary prevention and therapeutic treatment of respiratory syncytial virus (RSV) infection in adults in households. Genetics Institute/Wyeth-Ayerst Research. Period: 6 months; Grant: \$11,000; Effort: 10%.

1999 - 2001 Principal Investigator (BCM). A phase 4, open, randomized, comparative, multicenter study of the immunogenicity and safety of SmithKline Beecham Biological's inactivated hepatitis A vaccine (Havrix®) 720 EI.U/0.5 ml on a 0,6 month schedule administered by IM injection, either to children aged (1) 15 to 18 months old or (2) 11 to 13 months old, when compared to 23 to 25 month old children, and to determine the immune responses following co-administration of routine childhood vaccine, DTaP and Hib in the 15 to 18 month age group. Multicenter study, SKB Pharmaceuticals. Period: 18 months; Grant: \$30,502; Effort: 10%.

1999-2000 Principal Investigator (BCM). Study of the Safety, Tolerability and Immunogenicity of Annual Vaccination with FluMist and Primary Vaccination with FluMist in Healthy Children. Multicenter study, Aviron, Period: 1 year, Grant: \$94,246; Effort: 20%.

1998-1999 Principal Investigator (BCM). Study of the Safety and Tolerability of Influenza Virus Vaccine, Trivalent Types A and B, Live Cold-Adapted (FluMist™) in Healthy Children. Multicenter study, Aviron, National Institutes of Health. Period: 1 year; Grant: \$140,000; Effort: 20%.

1998-1999 Co-Investigator. Multicenter Study of DtaP-HIB Vaccines with Differing Poliovirus Vaccine Regimens in Infants. Multicenter Study, NIH and Connaught Merieux Laboratories. Part of VTEU- DMID 96-037. Period: 6 months; Effort: 10%.

B. NATIONAL/INTERNATIONAL SCIENTIFIC PARTICIPATION

Journal Reviewer for the following journals (ordered alphabetically):

Advances in Therapy
American Journal of Epidemiology
American Journal of Obstetrics and Gynecology
Annals of Internal Medicine
Archives of Disease in Childhood
BioMed Central
Birth Defects Research
BMC Infectious Diseases
BMC Medicine
BMC Pregnancy and Childbirth
British Medical Journal
Bone Marrow Transplantation Journal
British Journal of Obstetrics and Gynecology
Canadian Medical Association Journal
Clinical Drug Investigation
Clinical Infectious Diseases
Clinical Microbiology and Infection
Clinical Pediatrics
Clinical and Vaccine Immunology
European Journal of Pediatrics
Epidemiology and Infection
Expert Opinion on Drug Safety

Expert Reviews
Expert Review of Vaccines
Global Health: Science and Practice (GHSP) Journal
Health Science Reports
JAMA
JAMA Pediatrics
Journal of Heart and Lung Transplantation
Journal of Infection
Journal of Infectious Diseases
Journal of Medical Virology
Journal of Obstetrics and Gynecology
Journal of Pediatrics
Journal of the Pediatric Infectious Diseases Society
Journal of Perinatology
Journal of Travel Medicine
Hepatology
Influenza and Other Respiratory Viruses
Maternal and Child Health Journal
Memorias do Instituto Oswaldo Cruz (Brazil)
Open Forum Infectious Diseases
Pediatrics
Pediatric Drugs
Pediatric Infectious Diseases Journal
Pediatric Transplantation
PeerJ
Pharmacology and Drug Safety
PLOS One
Public Health Reports
Southern Medical Journal
The Lancet Infectious Diseases
The Lancet Respiratory Medicine
Transplant Infectious Disease
Vaccine
Yonsei Medical Journal

Journal Editor/Editorial Board

2023-Present Vaccine, **Associate Editor**
2020- Present Pediatric Infectious Diseases Journal (PIDJ), **Associate Editor** Maternal Neonatal Section
2008- 2018 Infectious Diseases in Obstetrics and Gynecology – Editorial Board
2007- Present Up to Date in Pediatrics – United States - Editor
2006- 2008 Journal of Pediatric Infectious Diseases - Associate Editor

Grant Review Panel

2024 Thrasher Research Fund, USA
2023-2024 Reviewer, Texas Children’s Hospital Pilot Research Grants, Houston, TX
2023 Centers for Disease Control and Prevention, Special Emphasis Panel IP23-002 and 03
2020 Swiss National Science Foundation
2019 National Institutes of Health, NIAD Special Emphasis Panel [ZAI1 RS-M(S2)], USA
2019 Center for Disease Control and Prevention, Special Emphasis Panel IP19-004 and 05

2019-Present Grant Reviewer for RIGHT Fund – Research Investment for Global Health Technology Fund, International Vaccine Institute, Seoul, South Korea.
 2019 Grant review for UK Research and Innovation Medical Research Council MR/T001682/1
 2019-2020 Abstract reviewer, IDSA IDWeek 2019, 2020 meetings
 2018 Grant Reviewer for the French National Program for Clinical Research (PHRCN), Ministry for Solidarity and Health
 2016 Wellbeing of Women, UK
 2016 Centers for Disease Control and Prevention Special Emphasis Panel, USA
 2015 Meningitis Research Foundation, UK
 2014-2016 Reviewer, Texas Children’s Hospital Pilot Research Grants, Houston, TX
 2012 Centers for Disease Control and Prevention, USA
 2012 Centers for Disease Control and Prevention Special Emphasis Panel, USA
 2011-2018 Thrasher Research Fund, USA
 2003-2014 The Wellcome Trust, London, UK.
 2003-2005 Meningitis Research Foundation, UK

Professional Societies

2021- Present Research Committee of ESPID
 2020 – Present Latin American Society of Pediatric Infectious Diseases (SLIPE)
 2019 – Present Infectious Diseases Society of Obstetrics and Gynecology (IDSOG)
 2019 – 2023 Transplant Infectious Diseases Subcommittee of PIDS
 2017 – Present European Society of Pediatric Infectious Diseases (ESPID)
 2016 – Present International Society of Vaccines (ISV)
 2013 – Present American Transplantation Society (ATS)
 2004 – Present Society for Pediatric Research (Elected) (SPR)
 2000 - Present American Academy of Pediatrics, Section on Infectious Diseases (SOID)
 2000 - Present Texas Pediatric Society (TPS)
 1999 - Present Infectious Diseases Society of America (IDSA)
 1995 - Present Pediatric Infectious Disease Society (PIDS)
 1992 - Present American Academy of Pediatrics (AAP)
 1991 - Present Guatemalan College of Physicians and Surgeons

Scientific Organizations

2024 - Present External **Advisor to the Global Health Development Eastern Mediterranean Public Health Network (EMPHNET)**, “The way forward for pertussis control in the Middle East and North Africa: Focus on maternal immunization” project
 2024 – Present Member, **World Health Organization Advisory (WHO) Committee on Tuberculosis vaccines in pregnancy**
 2023 – 2024 Member, **World Health Organization (WHO) Advisory Committee to the Global Advisory Committee on Vaccine Safety (GACVS) on Hepatitis E vaccines in pregnancy**
 2023 - Present **Board Member, National Foundation of Infectious Diseases, US**
 2023 – Present Member, International Scientific Committee for ESPID 2024 (Copenhagen, Denmark, May 2024) and ESPID 2024 (Bucharest, Romania, May 2025).

- 2023 – Present **Member, Scientific Committee of the Innovation Equity Forum, an initiative of the National Institutes of Health and the Bill and Melinda Gates Foundation** to map out opportunities to advance women’s health equity.
- 2022 – Present **Member, Scientific Committee for Maternal and Perinatal Health and Emergencies, World Health Organization.**
- 2022 – Present **Lead - Special Populations– Safety Platform for Emergency Vaccines (SPEAC) and Brighton Collaboration** project supported by the Coalition for Epidemic Preparedness Innovations (CEPI) working towards inclusion and timely development of vaccines for emerging pathogens.
- 2022- Present **Chair – Maternal Immunization Group of the SPEAC-CEPI project**, along with support from Bill and Melinda Gates Foundation.
- 2022 – Present **Chair – RSV Task Force** – Texas Pediatric Society and Texas Health Department.
- 2022 – 2024 Member, Advisory Board – Moderna Vaccines.
- 2022 **Chair – Data Safety Monitoring Board** – First Malaria vaccine trial in pregnant women. US National Institutes of Health.
- 2021 – Present **Member, Steering Committee – Maternal Health Research and Emergencies**, World Health Organization, Human Reproduction Programme, and Bill and Melinda Gates Foundation. WHO consultancy group on maternal and perinatal health during emergencies.
- 2021 – Present **Member, Technical Advisory Group**, Hepatitis E Vaccination (Hecolin) in Pregnancy. International Vaccine Institute (Seoul, South Korea) and the Center for Immunization Research John Hopkins University and Bloomberg School of Public Health. Protocol development and implementation of study in Pakistan.
- 2021- Present **Collaborator and Project Lead (Maternal Immunization) of the Global Vaccine Data Network (GVDN)** supported by the US Centers for Disease Control and Prevention. Member of the Vaccine Associated Enhanced Disease and the Monkeypox projects. Developed clinical protocols for the assessment of safety of COVID vaccine and global multisite implementation.
- 2021 - Present **Member (Elected) Executive Committee of the Section of Infectious Diseases (SOID)** of the American Academy of Pediatrics (AAP).
- 2021 – 2023 **Member (Elected) Pediatric Infectious Diseases Society (PIDS) Research Affairs Committee.**
- 2021- Present **Member, Scientific Technical Advisory Group, “Safe in Pregnancy” project** (PI Pierre Buekens), Center for Emerging Reproductive and Perinatal Epidemiology, School of Public Health and Tropical Medicine, Tulane University. Supported by the Bill and Melinda Gates Foundation and CEPI-SPEAC.

- 2021 – Present **Advisory Committee Member**, Center for Biologics, Evaluation and Research (CBER), Vaccines and Related Biological Products Advisory Committee (VRBPAC) US FDA.
- 2020- 2022 **Co-Chair – COVAX/ACT COVID-19 Maternal Immunization Group.** Task: Support the global assessment of COVID-19 vaccines for pregnant women in the settings of clinical trials, post-marketing studies and pharmacovigilance.
- 2020 –2022 **Chair, National Institutes of Health COVID-19 Maternal-Fetal Medicine Working Group (IDCRC).** National Institutes of Health Task: Development of protocols for evaluation of COVID-19 vaccines in pregnancy.
- 2020 – 2022 Member National Institutes of Health COVID-19 Pediatric Working Group (IDCRC). Task: Development of protocol for evaluation of COVID-19 vaccines in children.
- 2020 – 2023 Member Data Safety Monitoring Board, Moderna various vaccines including: SARS-CoV-2, EBV, Influenza, combination respiratory viral vaccines.
- 2020 – 2023 Member Safety Monitoring Committee, Meissa Vaccines - RSV vaccine.
- 2020 - 2023 Member, Data Safety Monitoring Board, Therapeutics for aminoacid decarboxylase deficiency, PTC Therapeutics (study not pursued).
- 2019 – 2022 Member, Data Safety Monitoring Board, RSV vaccines, Virometix.
- 2019 – Present **Member (Elected) Research Committee of the European Society of Pediatric Infectious Diseases.**
- 2019 – Present **Member Coalition for Epidemic Preparedness Innovations (CEPI), SPEAC and Brighton Collaboration.** Emerging pathogens vaccine development.
- 2019 – 2024 **Chair, Data Safety Monitoring Board,** Azythromycin for the prevention of stillbirths and infant mortality in Mali, West Africa. Project of the Center for Vaccine Development and Global Health, University of Maryland, and the Bill and Melinda Gates Foundation.
- 2019 – 2020 COID Liaison to the CDC/ACIP Pertussis Working Group
- 2018 – 2021 Scientific Advisory Group of Experts, Group B Streptococcus Vaccine Value Proposition (GBV-VP) project of the World Health Organization and the Bill and Melinda Gates Foundation.
- 2018 – 2024 **Chair, Data Safety Monitoring Board,** Pfizer, Experimental RSV vaccine for children, adults and pregnant women.
- 2017 - 2020 Chair, Expert Advisory Panel, Maternal Immunization and Antenatal Care Situation Analysis (MIACSA) project of the World Health Organization and BMGF
- 2017- 2019 Member, Safety Monitoring Committee, National Institutes of Health, NIH/DMID phase I study of novel Malaria Vaccine.

- 2017- 2020 Chair, Data Safety Monitoring Board, Moderna, ZIKV vaccine, CHIKV Vaccine
- 2017 – Present **Member, IMPRINT** (Immunising Pregnant Women and Infants) Network, based in UK and supported by the Bill and Melinda Gates Foundation to support research of vaccines in pregnancy and infancy in low and middle income countries.
- 2017 – 2023 Member, Data Safety Monitoring Board, Moderna, RSV Vaccines, CMV vaccine, HMPV-PIV vaccine.
- 2016 – 2019 Chair, Independent Data Monitoring Committee, Protecting from Pneumococcus in Early Life, The PROPEL Trial, MRC Unit, The Gambia, Africa.
- 2015 – 2021 **Member (Elected), Committee of Infectious Diseases (COID) of the American Academy of Pediatrics.**
Member: COID Subcommittee on Vaccines
Member: COID Subcommittee on Emerging Infections and Outbreaks
- 2015 – 2021 **COID liaison to the ACIP Influenza Working Group**
- 2015 - 2017 **Member, National Vaccine Advisory Committee (NVAC), Maternal Immunization working group.** Task: To identify barriers to and opportunities for developing vaccines for pregnant women and make recommendations to the Assistant Secretary of Health to overcome these barriers.
- 2015 - 2019 **Taskforce Lead. Bill and Melinda Gates Foundation (BMGF) and Brighton Collaboration. Global Alignment of Immunization Safety in Pregnancy (GAIA) Consortium Project.**
- 2015 – 2018 Chair, Data Safety Monitoring Board, Moderna, H7N9 Pandemic influenza vaccine study.
- 2015 – 2018 Chair, Data Safety Monitoring Board. Study: Vaccine responses in infants after acellular pertussis vaccination during pregnancy in Thailand. Investigator: Elke Leuridan. Sponsored by Thrasher Research Fund. April 1st 2015 to March 2018.
- 2015 – 2016 Member, Data Safety Monitoring Committee, Adult Influenza Vaccine study, Protocol: PSC-26. Protein Sciences
- 2014 - 2015 **Taskforce Lead. World Health Organization and Brighton Collaboration** Group project on the Harmonization of Definitions of Adverse Events Following Vaccination (AEFI) and Adverse Events of Special Interest (AESI) for Surveillance of the Safety of Maternal Immunization.
- 2014 - 2024 **Member, Transplant Infectious Diseases Consortium of the Pediatric Infectious Diseases Society.** Leadership group.
- 2014 - 2022 Consultant, Undiagnosed Disease Network, Baylor College of Medicine, Department of Genetics. Sponsor: National Institutes of Health UDP. PI: Brendan Lee, MD.

- 2014 – 2019 Member, Data Safety Monitoring Board, Study on treatment of bacterial vaginosis; Protocol: 12-0021. National Institutes of Health.
- 2014 – 2016 Member, Data Safety Monitoring Board, Pediatric influenza vaccine study. Protocols: QIV-13-02; QIV-3, BioCSL –Seqirus.
- 2013 - Present **Member, Scientific Committee, International Neonatal and Maternal Immunization Symposium (INMIS)**
- 2013 - 2014 Chair, Data Safety Monitoring Committee, Pediatric Influenza Treatment study. Protocol: BTA51-350-203. Biota.
- 2013 - 2014 Member, Data Safety Monitoring Committee, Pediatric Influenza Vaccine study Protocol PSC-08. Protein Sciences
- 2013 - 2014 Member, Advisory Board, Novartis Vaccines Global Advisory Board on Maternal Immunizations
- 2012 - 2015 **Chair, Texas Pediatric Society, Committee Infectious Diseases and Immunizations**
- 2011- Present **Member, Infectious Diseases and Immunizations Committee of the Texas Pediatric Society**
- 2011- Present **Member, Immunizations Expert Group, American College of Obstetrics and Gynecology.**
- 2007-2010 Member, Data Safety Monitoring Board – Oseltamivir PK in infants study, Protocol: 06-0059. National Institutes of Health
- 2004 - Present **Member, The Brighton Collaboration Group**, an independent, international voluntary collaboration to facilitate the development, evaluation and dissemination of high quality information about the safety of human vaccines.

Invited Research Presentations and Panels

Invited session organizer and moderator: “Planning Inclusive and Ethical Clinical Trials”, Annual Conference on Vaccinology Research of the **National Foundation of Infectious Diseases (NFID)**, May 10, 2024.

Invited Presentation and panel discussion, “Safety assessment of vaccines in pregnancy”, BeCOME (Beyond COVID: The future of the real-world monitoring of vaccines) **Global Workshop, Fondation Merieux**, Annecy, France, June 12-13, 2023.

Invited presentation and panel discussion, “Assessment of safety of COVID vaccines during pregnancy”, **PAHO/WHO First Regional Vaccine Safety Meeting in the Americas**. Bogota, Colombia, April 12-14, 2023.

Invited presentation and panel participation, “Updates on efforts for implementation of vaccines in pregnancy”, **IMPRINT** annual meeting, Kingston upon Thames, UK, February 6-8, 2023.

Expert Consultant in the Council of State and Territorial Epidemiologists/ Centers for Disease Control and Prevention Surveillance Case Definition of Multisystem Inflammatory Syndrome in Children Associated with SARS-CoV-2 Infection, United States. Recommendations and Reports, published December 16, 2022, 71(4):1-14. https://www.cdc.gov/mmwr/volumes/71/rr/rr7104a1.htm?s_cid=rr7104a1_w

Participated in numerous virtual consultations and panel discussions during the COVID-19 pandemic 2021-2022, as part as US IDCRC, COVAX-CEPI, WHO/PAHO groups.

Invited presentation and advisory group member. “High risk (including pregnant women) vs. universal season influenza vaccination recognizing the impact of COVID-19 on influenza vaccination, as well as all routine vaccinations, in children and pregnancy women”. University of Colorado Influenza Advisory Group of Experts Virtual Meeting on Seasonal Influenza: Vaccination, Prevention, and Control; Panamerican Health Organization (PAHO). University of Colorado Anschutz Medical Campus **Center for Global Health**. (virtual) October 26-30, 2020.

Invited presentation, “Vaccine associated enhanced disease”, development of a case definition for the assessment of safety following immunization. **WHO GAVCS meeting**, (virtual) May 6, 2020.

Advisory Board, Landscape analysis: sentinel site readiness for maternal immunization active surveillance in LMIC. Experts meeting March 17-18, 2020 (virtual meeting). **BMGF and Tulane School of Public Health and Tropical Medicine**, New Orleans.

Invited Speaker, **Workshop on Maternal Immunization Against Emerging Infectious Diseases, CEPI**. London, February 12-13, 2020. Plenary Session: Experience with Maternal Immunization programs in LMIC and novel vaccines in development. Selected case studies with relevance to vaccines against EIDs.

Invited Panelist, **WHO Global Vaccine Safety Summit**, Global Advisory Committee on Vaccine Safety (GACVS) 20th Anniversary Symposium, Methodological frontiers in vaccine safety: qualifying available evidence for rare events, use of distributed data networks to monitor vaccine safety issues and monitoring the safety of pregnancy interventions. Geneva, Switzerland, Dec 2-3, 2019.

Invited Speaker and Participant: **WHO Consultation** of immunogenicity, safety and efficacy of vaccines in pregnant women. Geneva, Switzerland, Dec 3-4, 2019.

Invited Participant: **WHO Consultation** on ethics surrounding vaccines in pregnant women. Geneva, Switzerland, Dec 4-5, 2019.

AAP Representative at the **Maternal Immunization Summit of the American College of Obstetricians and Gynecologists**, Washington, DC, June 17, 2019.

Invited Speaker: **European Center for Disease Prevention and Control (ECDC)** Biennial Influenza Meeting, Stockholm, Sweden, June 12-14, 2019. Topic: RSV Maternal Immunization phase 3 PREPARE study.

Invited Speaker: 94th Perinatal and Development Medicine Symposium hosted by the American Academy of Pediatrics and Mead Johnson Nutrition. Topics: Maternal Immunization and Options for RSV Prevention. Snowmass, Colorado, June 5-6, 2019.

Invited Speaker – Novel Approaches to the Prevention of RSV Discussion, **ADVAC Alumni Meeting**, ESPID May 7, 2019.

Chair, Maternal Immunization and Antenatal Care Situation Analysis Dissemination Meeting, organized by the World Health Organization and the Bill and Melinda Gates Foundation, Cape Town, South Africa, March 12-15, 2019.

Invited Speaker and Expert Consultant: **Workshop cum Expert Review Meeting on Maternal Immunization. Convened by PERNA** (Platform for Research Excellence Related to National Aims) and KEM Hospital Research Center (KEMHRC) Pune, New Delhi, India, September 10-11, 2018.

Invited Session Chair and Speaker, **Allies in Maternal and Newborn Care**, Strengthening Services Through Maternal Immunization. Convened by **the Bill and Melinda Gates Foundation**, Amsterdam, Netherlands, May 3-4, 2018.

Invited Session Chair and Speaker, Stakeholder Meeting, **Maternal Interventions Vigilance Harmonization in LMICs**, Convened by the **Bill and Melinda Gates Foundation**, Amsterdam, Netherlands, May 1-2, 2018.

Invited Speaker, "Vaccination in Pregnancy: Lessons Learned: An NIH Sponsored Symposium", **MIM Pan African Malaria Conference**, Dakar, Senegal, April 16, 2018

Member, Scientific Advisory Group, **Group B Streptococcal Vaccine Value Proposition of the World Health Organization**, Cape Town, South Africa, February 18, 2018

Invited Consultant, **Stakeholders meeting on Maternal Interventions Vigilance**, convened by the **World Health Organization**, Geneva, Switzerland, November 20-21, 2017.

External Advisor, project "Contributing to the understanding of the burden of vaccine-preventable diseases in pregnant women and their infants in sub-Saharan Africa: towards a road map on maternal immunization", presented by **ISGlobal to the European Commission**, September, 2017.

Invited Consultant, participating on behalf of the **American Academy of Pediatrics, Zika Expert Forum on the Diagnosis, Evaluation and Management of Zika Virus Infection in Pregnant Women and Infants**", Centers for Disease Control and Prevention, August 30-31, Atlanta, GA, 2017.

Invited Consultant, Pregnant women and the Zika virus vaccine research agenda: Ethics guidance on priorities, inclusion and evidence generation. The **Ethics Working Group on ZIKV Research and Pregnancy**. Baltimore, MD, June 2017. <http://guidance.zikapregnancyethics.org/>

Advisory Board, Correlation between RSV infection in infants and long-term wheezing or asthma. Convened by Regeneron, Inc. New York City, February 2, 2017

Invited Expert, Maternal Immunization Pharmacovigilance Meeting, of the Bill and Melinda Gates Foundation, Seattle, WA, January 25, 2017.

Invited Expert, "Maternal Immunization safety monitoring in low and middle-income countries" meeting convened by the **Global Alliance to Prevent Prematurity and Stillbirth (GAPPS) and the Bill and Melinda Gates Foundation**. Seattle, WA, January 23-24, 2017.

Invited Expert, Expert meeting on testing malaria vaccines in pregnant women. National Institutes of Health, Rockville, MD, December 12-13, 2016.

Invited Consultant, Immunization Module development, Texas Health and Human Services Texas Health Steps Program, Austin, TX, 2016.

Invited Expert, Advisory Board, Janssen RSV pediatric vaccine clinical development. New Orleans, LA, October 25th, 2016.

Invited Expert and Reviewer, **Technical Consultation on Maternal Influenza Vaccine Introduction, Maternal Vaccination in Pregnancy Implementation Manual and AEFI Reporting, World Health Organization, Geneva**, Switzerland, June 30-July 1, 2016.

Invited Expert Panel, Respiratory Syncytial Virus F Nanoparticle Vaccine and Infant Protection via Maternal Immunization Scientific Working Group, Novavax, Inc, Washington DC, May 19-20, 2016.

Invited Speaker, Safety Assessment after Immunizations in Pregnancy in the Clinical Trial and Post-Approval Settings, Pfizer Educational Forum, New York City, NY, May 18, 2016.

Invited Expert Panel and Presenter, “RSV Disease in the United States: Identifying Gaps in Epidemiology Prior to the Advent of Vaccines”, **Respiratory Syncytial Virus (RSV) Technical Consultation**, Convened by the **Centers for Disease Control and Prevention**, Division of Viral Diseases, Atlanta, Georgia, May 16–17, 2016.

Invited Expert Panel and Presenter, AAP Representative, “Identifying appropriate endpoints for RSV bronchiolitis treatment trials” Advancing Drug Development for Respiratory Syncytial Virus meeting, convened by the **US Food and Drug Administration and the Duke-Margolis Center for Health Policy**, Washington, DC, May 2, 2016.

Invited Speaker, Pediatric Academic Societies (PAS) Topic Symposium: RSV Session Baltimore, MD, April 30, 2016.

Invited Consultant, Advisory Board meeting on Maternal and Elderly Immunization with Pertussis Vaccine. GSK Vaccines, Buenos Aires, Argentina, April 4th, 2016.

Invited Speaker, GAIA International Consensus Conference, Immunization Safety Assessment in Pregnancy, Lister Hill Center, Bethesda, MD, March 29-30, 2016.

Invited Expert Panel, The Bill & Melinda Gates Foundation (BMGF), Pertussis Infant Surveillance and Mortality Mini-Symposium, hosted by Emory University, Atlanta, GA, February 23, 2016.

Invited speaker, RSV maternal immunization, International Conference on Emerging Infectious Diseases (ICEID), Atlanta, GA, August 26, 2015.

Chair, Session on RSV Maternal Immunization, RSV Vaccine Workshop organized by the Federal Drug Administration (FDA), Bethesda, MD June 1-2, 2015

Invited Consultant, Bill and Melinda Gates Foundation (BMGF) – Expert Consultation on Immunologic Aspects of Maternal Immunization, Vancouver, BC, Canada, May 25-27, 2015

Presenter, Pediatric Academic Societies (PAS) Topic Symposium, Maternal Immunization Session, Pertussis and Influenza – San Diego, CA April 26, 2015.

Invited Consultant for the Bill and Melinda Gates Foundation - PATH Expert Consultation on Maternal Pertussis Immunization, Seattle, Washington, October 1, 2014.

Invited Speaker at the National Vaccine Advisory Committee (NVAC) meeting to present the results of the efforts of the WHO-Brighton Collaboration project on harmonization of definitions for the assessment of safety of vaccines in pregnancy, Washington, DC September 9, 2014

Workgroup leader (Neonatal taskforce) for the WHO-Brighton Collaboration project on harmonization of definitions for the assessment of safety of vaccines in pregnancy; Geneva, Switzerland, July 24-25, 2014.

Invited Presentation "Safety and immunogenicity of Tdap immunization during pregnancy and effect on infant responses to DTaP vaccine" to SAGE Pertussis working group, WHO, Geneva, February 12, 2014

Chair Working Group "Evaluation of AEs in infants born to mothers participating in clinical trials of vaccines and antimicrobials", National Institutes of Health, Bethesda, MD, September 27, 2013

Presenter, Vaccine Treatment Evaluation Units (VTEU) of the National Institutes of Health Annual Meeting, "Safety and Immunogenicity of Maternal Immunization with Tdap and Infant Vaccination with DTaP", Bethesda, MD, February 6, 2013.

Co-Chair, Working Group "Moving forward with a Global Maternal Immunization Platform" at the Streptococcus Scientific Exchange Meeting, "Prevention of perinatal Group B Streptococcal disease through maternal immunization", Siena Italy, July 3rd, 2012.

Presenter, PAS Topic Symposium, Maternal Immunization to Prevent Maternal and/or in Infant Disease, Influenza – Boston, MA, April 29, 2012.

Participant, Immunization Expert Work Group, American Congress of Obstetricians and Gynecologists (ACOG), meeting to advise the organization on activities and resources for immunizing pregnant women as part of a new CDC funded national initiative, October 27-28, 2011, Washington DC.

Presenter and Moderator, "Safety of influenza vaccine in pregnancy", Progress in Overcoming Barriers to Influenza Immunization in Pregnant Women, sponsored by the National Vaccine Program Office (NVPO), US Department of Health and Human Services, October 27-28, 2011, Washington, DC.

Member, Working Group, Presenter and Moderator, NIH Division of Microbiology and Infectious Diseases Conference on Enrollment and Safety Assessments of Pregnant Women in Clinical Trials of Drugs and Vaccines, May 23, 2011, October 3, 2011, and March 19, 2012, Bethesda, MD.

Participant, as presenter and panelist in the Bill and Melinda Gates Foundation (BMGF), Maternal Influenza Immunization: Evidence, Policy Consideration, and Action Plan Convening June 2-3, 2011 in London, England.

Presentation on Influenza A (H1N1) vaccine in pregnant women. 6th WHO Meeting on Evaluation of Pandemic Influenza Vaccines in Clinical Trials, Geneva, Switzerland, February 18-19, 2010.

Presenter, "Improving influenza immunization during pregnancy". Crisis and Emergency Risk Communication (CERC) for pandemic influenza – Special considerations for pregnant women. Meeting convened by CDC and UD Department of Health and Human Services to provide training to communication leaders nationwide. August 27-28, 2008, Houston, TX.

Participant, Pandemic Influenza, Special Considerations for Pregnant Women, Expert panel convened by CDC and the Association of Maternal and Child Health Programs (AMCHP) to provide supplemental guidelines for pregnant women in the event of an influenza pandemic. April 3-4, 2008, Atlanta, GA.

Participant and Speaker, ET501 Pertussis Epidemiology study. Global Investigator Meeting (Sanofi Pasteur), December 7th, 2005, Paris, France.

Participant, as representative of the Pediatric Infectious Diseases Society in the National Stakeholder's Meeting, Strengthening the delivery of new vaccines for adolescents. Convened by CDC, DHHS, and NVPO. Washington, DC, June 2-3, 2005.

Participant, National Pertussis Control Workshop, Convened by CDC to update a pertussis control and prevention strategy for the United States. May 24-26, Atlanta, GA, 2005.

"Maternal Immunization with Respiratory Syncytial Virus Vaccines". Protection of newborns through maternal immunization. International symposium organized by the Fondation Merieux. Veyrier du Lac, France. December 8-11, 2002.

C. PUBLICATIONS

Published Peer Reviewed Publications

1. **Munoz FM**, GJ Demmler, WD Travis, AK Ogden, SN Rossman, MG Rinaldi. *Trichoderma longibrachiatum* infection in a pediatric patient with aplastic anemia. J Clin Microbiol 1997,35(2): 499-503. PMID:9003627
2. **Munoz FM**, EP Hawkins, DC Bullard, AL Beaudet, SL Kaplan. Host defense against systemic infection with *S. pneumoniae* is impaired in E-, P-, and E/P-selectin deficient mice. J Clin Invest 1997, 100(8): 2099-2106. PMID:9329976
3. Scharffetter-Kochanek, K., H Lu, K Norman, N Van Nood, **FM Munoz**, S Grabbe, M McArthur, I Lorenzo, SL Kaplan, K Ley, CW Smith, S Rich, C Montgomery, AL Beaudet. Spontaneous skin ulceration and defective T cell function in CD 18 null mice. J Exp Med 1998,188 (1): 119-31. PMID:9653089
4. **Munoz FM**, PA Piedra, GJ Demmler. Disseminated adenovirus disease in immunocompromised and immunocompetent children. Clin Infect Dis 1998, 27:1194-1200. PMID:9827268
5. **Munoz FM**, JR Campbell, JL Atmar, J Garcia-Prats, BD Baxter, LE Johnson, JA Englund. Outbreak of influenza A virus in a neonatal intensive care unit. Pediatr Infect Dis J 1999, 18:811-15. PMID:10493343
6. Rennels, MB, JA Englund, DI Bernstein, GA Losonsky, EL Anderson, ME. Pichichero, **FM Munoz**, MC Wolff. Diminution of the anti-PRP response to a combined DTaP/Hib vaccine by concurrent inactivated poliovirus vaccination. Pediatr Infect Dis J 2000, 19(5): 417-23. PMID:10819337
7. **Munoz FM**, JA Englund. A step ahead: Infant protection through maternal immunization. Pediatr Clin North Am, Childhood Immunizations, W.B. Saunders Co. Philadelphia, PA. 2000, 47 (2): 449-463. PMID:10761514

8. **Munoz FM**, GJ Galasso, JM Gwaltney Jr., FG Hayden, B Murphy, R Webster, P Wright, RB Couch. Current Research on Influenza and Other Respiratory Viruses, II International Symposium. *Antiviral Res* 2000, 46: 91-124. PMID:10854663
9. WP Glezen, **FM Munoz**, PA Piedra, M Maccato, PM Pinell. Administration of Pneumococcal Polysaccharide Vaccine (PncP) and the Purified Fusion Protein (PFP-2) for Respiratory Syncytial Virus to Pregnant Women. *Infect Dis Obstet Gynecol* 2000; 8(3/4):200.
10. **Munoz FM** and Englund JA. Vaccines in pregnancy. *Infect Dis Clin North Am, Vaccine Recommendations, Challenges and Controversies*, W.B. Saunders Co. Philadelphia, P.A., 2001, 15(1): 253-271. PMID:11301819
11. **Munoz FM**. The Impact of influenza in children. *Semin Pediatr Infect Dis* 13;2:72-78, 2002. PMID:12122955
12. **Munoz FM**, Englund JA, Cheesman CC, Maccato ML, Pinell PM, Nahm MH, Mason EO, Kozinetz CA, Thompson RA, Glezen WP. Maternal Immunization with pneumococcal polysaccharide vaccine in the third trimester of gestation. *Vaccine* 20 (2002): 826-837. PMID:11738746
13. **Munoz FM**, Ong LT, Seavey D, Medina D, Correa A, Starke JR. Tuberculosis among adult visitors of children with suspected tuberculosis and employees at a children's hospital. *Infect Contr Hosp Epidemiol* 2002, 23(10): 1-5. PMID:12400884
14. Piedra, PA, Yan Lihan, Kotloff K, Zangwill MD, Bernstein DI, King J, Treanor J, **Munoz FM**, Wolff M, Cho I, Mendelman PM, Cordova J, Belshe RB. Safety of the Trivalent, Cold-Adapted Influenza Vaccine (CAIV-T) in Pre-school Aged Children. *Pediatrics* 2002, 110:662-672. PMID:12359778
15. O'Donnell, FT, **Munoz FM**, Atmar RL, Hwang LY, Demmler GJ, Glezen WP. Epidemiology and molecular characterization of co-circulating influenza A/H3N2 virus variants in children: Houston, Texas, 1997-98. *Epidemiology and Infection* 2003, 130:521-531. PMID: 12825738
16. **Munoz FM**. Influenza virus infection in infancy and early childhood. Mini-Symposium: Respiratory Viruses – Part I. *Paediatric Respiratory Reviews* 2003, 4; 99-104. PMID:12758046
17. **Munoz FM**. Influenza virus infection in infancy and early childhood. Case presentation and case assessment: Febrile respiratory tract illness in a 3 month-old infant. *Paediatric Respiratory Reviews* 2003, 4; 162-3. PMID:12803175
18. **Munoz FM**, Keitel W. Progress in the diagnosis, prevention and treatment of pertussis. *Current Infectious Disease Reports. Upper Respiratory Infections*. 2003, 5(3):213-219. PMID:12760818
19. **Munoz FM**, Glezen WP. Why no effect of maternal respiratory syncytial virus neutralizing antibody? Letter to the Editor. *Pediatrics* 2003, 111 (1):218-219. PMID:12509582
20. **Munoz FM**, Glezen, WP, Piedra PA. Safety and immunogenicity of respiratory syncytial virus purified fusion protein-2 vaccine in pregnant women. *Vaccine* 21, 2003: 3465-3467. PMID:12850361
21. Healy CM, **Munoz FM**, Rench MA, Halasa N, Edwards KM, Baker CJ. Prevalence of Pertussis antibodies in maternal delivery, cord and infant serum. *J Infect Dis* 2004; 190:335-40. PMID:15216470

22. Edwards ME, **Munoz FM**, Baker CJ. Antibodies to Type III group B streptococcal polysaccharide in breast milk. *Pediatr Infect Dis J* 2004;23(10):961-963. PMID:15602200
23. **Munoz FM**. Technology evaluation: FluINsure, ID Biomedical. *Current Opinion in Molecular Therapeutics* 2004 6(2):212-220. PMID:15195934
24. Bohn G, Wilson O, **Munoz FM**. Clinically silent infection in a premature infant. *Semin Pediatr Infect Dis* 2004, 15(2):69-70. PMID: 15185188
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research and surveillance of emerging and ongoing epidemic threats: a modified Delphi based international expert consensus. *Accepted – The Lancet Global Health*, August 30 2024.

2. Rowe SL, Sullivan SG, **Munoz FM**, Coates M, Arah O, Regan AK. Uptake of recommended vaccines during pregnancy among publicly and privately insured people in the United States, December 2020-September 2022: Evidence of vaccine inequity. *Accepted: AJPH*.
3. Regan AK, Rowe SL, Sullivan SG, Coates MM, **Munoz FM**, Arah OA. COVID-19 antiviral medication use among pregnant and recently pregnant US adults. *Accepted CID*.
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8. Ballivan J, Ciapponi A, Berrueta M, Mazzoni A, Bardach A, Parker E, Stergachis A, Xiong X, **Munoz FM**, Buekens P. Safety, immunogenicity, and effectiveness of chikungunya vaccines in pregnant persons, children, and adolescents: A protocol for a living systematic review and meta-analysis. Submitted to *BMJ Open*.
9. Coates MM, Rowe SL, Sullivan SG, **Munoz FM**, Arah OA, Regan AK. Assessing the use of medical insurance claims and electronic health records to measure COVID-19 vaccination during pregnancy. Submitted: *Paediatric and Perinatal Epidemiology*.
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11. Erickson TA, Muscal E, Jiang Y, Sandweiss A, **Munoz FM**, DeSantis S, Rider N, Hasbun R, Murray K. Development and implementation of a machine learning model for the identification of pediatric encephalitis etiology. Submitted: *The Lancet Neurology*.
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Other Publications

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ABSTRACT PRESENTATIONS

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37. Brehm B, Mouzoon M, **Munoz FM**, Smith F, Wehmanen O, Greisinger G. Rates of influenza and H1N1 vaccination in a large, multispecialty group clinic. Oral presentation, 138th APHA annual meeting, Denver, CO. November 6-10, 2010.
38. Swamy GK, Patel SM, **Munoz FM**, Jackson LA, Edwards K, Frey S, Kotloff K, Noah DL, Hill H, Petrie CR, Wolff M. Phase II study to assess the safety and immunogenicity of two dose levels of 2009 H1N1 influenza vaccine in pregnant women. Poster presentation, Society for Gynecologic Investigation Annual Meeting, Miami, Florida, March 18, 2011.
39. LP Stadler, DI Bernstein, ST Callahan, CB Turley, **FM Munoz**, J Ferreira, M Acharya, GA Simone, SM Patel, KM Edwards, SL Rosenthal. Seroprevalence and Risk Factors of CMV Infections in Adolescent Females. Abstract 753213, Poster presentation PAS/SPR Annual Meeting, Denver Colorado, May 1, 2011.
40. Bonnafous P, **Munoz FM**, Himes R, Eldin K, Loomis K, Gautheret-Dejean A, Agut H. Interpreting virological results in a recipient of a ciHHV-6 liver transplant. Presentation at the 8th International Conference on HHV-6 & 7, Paris, April 8-10 2013.
41. Bonnafous P, **Munoz FM**, Himes R, Eldin K, Loomis K, Gautheret-Dejean A, Agut H. Etude d'un cas de patient greffe avec un foie contenant la forme integree aux chromosomes du 6eme herpesvirus humain (ciHHV-6). Presentation at the XVe Journees Francophones de Virologie, Paris, April 18-19, 2013.
42. **Munoz FM**, Bond NH, Maccato M, Pinell P, Hammill H, Swamy GK, Walter E, Jackson LA, Ferreira J, Petrie CR, Healy CM, Edwards MS, Baker CJ. Maternal immunization with Tdap is safe and immunogenic, and does not appear to interfere with infant responses to DTaP vaccination. Oral presentation at the 2nd International Neonatal and Maternal Immunization Meeting, Antalya, Turkey, March 2, 2013.
43. Xunyan Ye, **Munoz FM**, Revell P, Van J, Atmar RA, Estes M, Koo H. Norovirus infection in immunocompromised transplant recipients. Oral presentation at the Fifth International Calicivirus Conference, Beijing, China, 2013.
44. Bernstein DI, Callahan ST, **Munoz, FM**, Rupp R, Edwards K, Stanberry LR, Pichon S, Amegashie C, Bellamy AR. Safety and efficacy of a Cytomegalovirus glycoprotein B (gB) vaccine in adolescent girls. Abstract 45443. Oral presentation at the 2014 ID Week, IDSA, San Diego, CA, October, 2014.
45. Koo HL, Ye X, Van J, Revell P, Estes MK, Atmar RL, **Munoz FM**. Noroviruses as a cause of diarrhea in immunocompromised pediatric transplant patients. Abstract 45857. Oral presentation at the 2014 ID Week, IDSA, San Diego, CA, October, 2014.

46. Bocchini C, Kellermayer R, Van Buren K, Jeewa A, Mallory G, Melicoff E, **Munoz FM**. Gastrointestinal Pathogens in Pediatric Heart and Lung Transplant Patients at Texas Children's Hospital. Poster presentation at the 2nd Pediatric Transplant Infectious Diseases meeting of the PIDS, Memphis, TN, February 19th, 2015.
47. Nugent M, Crews N, Melicoff E, Starke J, Bujan J, Maddox J, Koy T, Kim S, **Munoz FM**, Nicholas S, Gazzaneo MC, Mallory G. Reverse isolation protocols in the pediatric lung transplant population: necessary or not? Poster presentation at the 8th Congress on Pediatric Transplantation, hosted by the International Pediatric Transplant Association, San Francisco, CA, March 2015.
48. Garcia MN, Philpott DC, Murray KO, Ontiveros A, Revell PA, Chandramohan L, **Munoz FM**. Clinical Predictors of Disease Severity During the 2009-2010 A/H1N1 Influenza Virus Pandemic in a Pediatric Population. Poster Presentation at the TCH Research Fellows Symposium. Houston, TX, March 26, 2015.
49. Crews N, Ebenbichler M, Kim S, Nicholas S, Melicoff E, Gazzaneo MC, Mallory G, **Munoz FM**. Adenovirus infection and disease after pediatric lung transplantation: Texas Children's Hospital experience and development of a clinical practice guideline. Poster presentation at the International Society of Heart and Lung Transplant (ISHLT) meeting, Nice, France, May 2015.
50. Mallory GB, **Munoz FM**, Ebenbichler M, Melicoff-Portillo E, Das S. The incidence and significance of post-operative bacteremia in pediatric cystic fibrosis lung transplant patients. Poster presentation. American Transplantation Society meeting, 2015.
51. Fisher BT, Danziger-Isakov L, Englund J, Murray A, Maron G, Tuonamen E, **Munoz FM**, Sweet L, Green M, Michaels M, Halasa N, Dulek D, Herold B, Pellett Madan R, Gee J, Brozovich A, Steinbach W. Epidemiology of Respiratory Viral Infections in Pediatric Solid Organ Transplant of Hematopoietic Stem Cell Transplant Recipients. Abstract # 52018, Poster presentation, ID Week, San Diego, CA, October 2015.
52. Attias E, Czinn SJ, **Munoz FM**, Sockolow RE, Black J. New Perspectives in the Treatment of Parasitic Infection: A Survey of Knowledge of Giardiasis and Cryptosporidiosis among Caregivers of Small Children. American Academy of Family Physicians General Assembly, October 2015.
53. Mysore, K, Himes R, **Munoz FM**. Human Herpes Virus-6 (HHV-6) infection in pediatric liver transplant recipients at Texas Children's Hospital. Oral presentation at the 9th International Conference on HHV-6 & 7, Boston, MA, November 9-11, 2015.
54. Sweet L, Bocchini C, **Munoz FM**. Respiratory viral infections in solid organ transplant recipients at Texas Children's Hospital. Poster presentation at the World Society of Pediatric Infectious Diseases (WSPID) Congress, Rio de Janeiro, Brazil, November 17-18, 2015.
55. RJ Arasaratnam, PI Aguayo-Hiraldo, N Koottiyaniyil, M Kuvalekar, S McCawley, T Gray, JF Vera, **FM Munoz**, RW Himes, AM Leen. Viral immune reconstitution in liver transplant recipients. International Liver Tumor Symposium, Houston, TX, February 25-26, 2016.
56. Hosek, K, Duckworth K, Brown M, Parker DM, **Munoz FM**. Influenza prevention in pediatric solid organ transplant recipients. Poster presentation, ACS National Surgical Quality Improvement Project (NSQIP) Annual Conference, San Diego CA, July 16-19, 2016.

57. Kachikis A, Chescheir N, Kochhar S, **Munoz FM**, Bonhoeffer J, Eckert L. Development of a maternal outcome definition for international immunization research through the Brighton Collaboration. Infectious Diseases Society of Obstetrics and Gynecology (IDSOG) meeting, Annapolis, MD, August 11, 2016.
58. Campbell, A, **Munoz FM**. Novel influenza infection and pregnancy: Development of a research network for pandemic studies. Poster presentation at the Options IX for the Control of Influenza, Chicago IL, August 24-28, 2016.
59. Hause AM, Avadhanula V, Maccato ML, Pinell PM, Bond N, Santarcangelo P, **Munoz FM**, Piedra PA. A cross sectional surveillance study of acute respiratory illness (ARI) in pregnant women: Frequency and clinical outcome of RSV infection. Oral presentation at the International RSV Conference, Bariloche, Argentina, September 28-30, 2016.
60. Sahni LC, Piedra PA, **Munoz FM**, Boom JA, Azimi PH, Selvarangan R, Halasa NB, Englund JA, Weinberg GA, Payne DC, Figueroa-Downing D, Fry AM, Campbell AP, Gerber SI, Rha BS. Viruses associated with acute respiratory illness (ARI) in hospitalized pediatric patients 5-17 years of age in the US. Poster presentation, IDWeek, New Orleans, LA, October 27-30, 2016
61. Melicoff-Portillo E, **Munoz FM**, Dutta A, Ebenbicher M, Mallory GB. Fungal infections in cystic fibrosis patients after lung transplantation. Poster presentation at the North American Cystic Fibrosis Conference, Orlando, Florida, October 27-29, 2016
62. Onyearugbulem C, Williams L, Zhu H, Gazzaneo MC, Lam F, Das S, Melicoff EP, **Munoz FM**. Application of an organ dysfunction score post-lung transplant in pediatric cystic fibrosis patients. Poster presentation at the 2017 Critical Care Congress of the Society of Critical Care Medicine, Honolulu, Hawaii, January 21-25, 2017
63. Hannegan KC, **Munoz FM**, Das S, Elliott E. The burden of influenza infection and disease in pediatric lung transplant recipients: A retrospective review of the Texas Children's Hospital lung transplant population. Poster presentation at the International Society of Heart and Lung Transplantation, San Diego, CA, April 5-8, 2017.
64. Onyearugbulem C, Williams L, Zhu H, Gazzaneo MC, Lam F, Coss-Bu J, and **Munoz FM**. Determination of modifiable risk factors for infection in the early post lung transplant period for pediatric cystic fibrosis patients. Poster presentation at the International Society of Heart and Lung Transplantation, San Diego, CA, April 5-8, 2017.
65. Pham T, Lautenschlager I, Razonable R, **Munoz FM**. Systematic review of HHV-6 infections in liver transplant patients. Poster presentation at the 10th International Conference on HHV-6 & 7, Berlin, Germany, July 24-26, 2017
66. Mysore KR, Schady D, Himes RW, **Munoz FM**. Clinical and histopathologic manifestations of human herpes virus 6 (HHV-6) infection in pediatric liver transplant recipients at Texas Children's Hospital. Oral presentation at the 10th International Conference on HHV-6 & 7, Berlin, Germany, July 24-26, 2017
67. Vanchiere J, Plunkett S, Annamalai R, Julien K, Peterson J, Goisse M, Christensen S, Mehta P, Coleman S, **Munoz FM**, Flynt A, Dobo S, Nagy E, Kargl D, Mathis A, Collis P, Sheridan W. Single dose IV Peramivir is safe and effective in the treatment of pediatric influenza. Poster presentation at ID Week 2017, San Diego, CA, October 4-8, 2017

68. Rha B, Campbell AP, McDaniel D, Weinberg GA, Staat MA, Selvarangan R, Halasa NB, Englund JA, Boom JA, Azimi PH, Williams JV, Szilagyi PG, Singer MN, **Munoz FM**, McNeals M, Klein EJ, Harrison CJ, Figueroa-Downing D, Yu J, Prill MM, Whitaker BL, Curns AT, Payne DC, Gerber SI. Respiratory Syncytial Virus associated hospitalizations in young children in the United States, 2015-2016. Poster presentation at ID Week 2017, San Diego CA, October 4-8, 2017.
69. Hause AM, Avadhanula V, Maccato ML, Pinell PM, Bond N, Santarcangelo P, Ferlic-Stark L, **Munoz FM**, Piedra PA. A cross sectional surveillance study of acute respiratory illness (ARI) in pregnant women. Poster presentation, at ID Week 2017, San Diego CA, October 4-8, 2017.
70. Rha B, McDaniel D, Campbell AP, Staat MA, Selvarangan R, Halasa NB, Englund JA, Boom JA, Azimi PH, Weinberg GA, Szilagyi PG, Singer MN, **Munoz FM**, McNeal M, Klein EJ, Harrison CJ, Williams JV, Figueroa-Downing D, Yu J, Prill MM, Whitaker BL, Curns AT, Langley G, Payne DC, Gerber SI. Respiratory syncytial virus associated hospitalizations among young children – multicenter surveillance, United States, 2015-2016. Poster presentation at the 2017 RSV Vaccines for the World (ResViNET) meeting, Malaga, Spain, November 29-December 1, 2017.
71. Hause AM, Avadhanula V, Maccato ML, Pinell PM, Bond N, Santarcangelo P, **Munoz FM**, Piedra PA. A cross sectional surveillance study of acute respiratory illness (ARI) in pregnant women. Poster presentation, at the 2017 RSV Vaccines for the World (ResViNET) meeting, Malaga, Spain, November 29-December 1, 2017
72. Morris J, Cerminara D, **Munoz FM**, Bocchini C, Arikan A, Swartz S. Daptomycin exposure in a critically ill patient requiring CRRT. Society of Critical Care Medicine meeting. San Antonio, TX, Feb 2018.
73. Onyearugbulem C, Williams L, Huirong Z, Gazzaneo MC, Melicoff E, Das S, Coss-Bu J, Lam F, Mallory GB, **Munoz FM**. Modifiable risk factors for infection in pediatric lung transplant recipients. Poster Presentation at the American Transplantation Society International Conference, San Diego CA. May 18-23, 2018.
74. Onyearugbulem C, Williams L, Gazzaneo MC, Das S, Lam F, Melicoff E, Coss-Bu J, Mallory GB, **Munoz FM**. Determination of risk factors for infection after pediatric lung transplantation. Presented at the Pediatric Research Symposium and The Transplant Symposium, Texas Children’s Hospital, Houston, TX, May 2018.
75. Yoeli JK, Yoeli D, **Munoz FM**, Goss JA, Miloh TA. Varicella and measles immunity following pediatric liver transplant: A single center’s experience. Presented at the American Association for the Study of Liver Diseases (AASLD) meeting. San Francisco, CA, 09-13 November 2018.
76. Connery AK, Colbert AM, Lamb MM, Hernandez S, Bauer D, Arroyave P, Martinez AL, Paniagua-Avila A, Olson D, Calvimontes M, Bolanos GA, ElSahly H, Asturias EJ, **Munoz FM**. Receptive language skills among young children in rural Guatemala: The relationship between performance on the Test de Vocabulario en Imagenes Peabody (TVIP) and a translated and adapted version of the Mullen Scales of Early Learning (MSEL). International Neuropsychological Society Meeting, NYC, February 22, 2019.
77. Colbert AM, Lamb MM, Bauer D, Arroyave P, Hernandez S, Martinez MA, Paniagua-Avila A, Olson D, Calvimontes M, Bolanos GA, ElSahly H, **Munoz FM**, Asturias EJ, Connery AK. Performance of young children in rural Guatemala on the Mullen Scales of Early Learning (MSEL). Poster presentation, Hispanic Neuropsychological Society, NYC, February 24, 2019.

78. Godfred Cato S, **Munoz FM**, Diederich S, Aird L, Smith B. Zika Takeaways: Innovations to improve emergency readiness teamwork. Oral presentation 2019 Preparedness Summit, St. Louis, Missouri, March 26-29, 2019.
79. Abu Raya B, Maertens K, **Munoz FM**, Halperin SA, Leuridan E, Sadarangani M. Antibody responses to primary and booster immunizations in infants born to women immunized with pertussis containing vaccines in pregnancy vs. unimmunized women: systematic review and metaanalysis. Oral presentation at the 12th International Bordetella Symposium, Brussels, Belgium, April 9-11, and at ESPID, Lubjiana, Slovenia, May 7-10, 2019. Poster Presentation at IDSOG, Big Sky, Montana, USA August 8-10, 2019.
80. **Munoz FM**, Madhi S, Swamy GK, Vrbicky K, Glenn G, Fries L. Phase 3 PREPARE Study: Efficacy and Safety of an RSV vaccine administered to pregnant women. Oral presentation (Plenary) ESPID, Lubjiana, Slovenia, May 7-10, 2019.
81. **Munoz FM**, Sturkenboom M, Eckert L, Dodd C, Jones C, Schlaudecker E, Khalil A, Yildirim I, Wilcox C, Kachikis A, Elmonstaser M, Heath PT, Buttery J, Black S. Assessment of selected GAIA outcome definitions for potential AEFI in pregnant women and their infants in developed countries. Oral Poster presentation at ESPID, Lubjiana, Slovenia, May 7-10, 2019.
82. Batarsee E, Hamdan L, Stewart L, Dulek D, Kitko C, **Munoz FM**, Moulton EA, Coffin S, Freedman J, Harrison CJ, Schuster J, Danziger-Isakov L, Grimley M, Ardura M, Auletta J, Englund JA, Carpenter PA, Maron G, Allison KH, Wattier R, Truon K, Pediatric HSCT Flu Network, Halasa N. Respiratory viral infections in pediatric hematopoietic stem cell transplant recipients after receiving two doses of flu vaccine. Poster presentation at the 3rd Symposium on Infectious Diseases in the Immunocompromised Host, Seattle WA, June, 2019.
83. Hamdan L, Batarseh E, Stewart L, Dulek D, Spieker A, Kitko CL, **Munoz FM**, Bocchini CA, Coffin S, Freeman J, Harrison CJ, Schuster J, Danziger-Isakov L, Grimley M, Ardura M, Auletta J, Englund JA, Carpenter PA, Maron G, Allison KJ, Wattier R, Truong K, Pediatric HSCT Flu Network, Halasa N. Safety of influenza vaccination in pediatric hematopoietic stem cell transplant recipients. Poster presentation at the 3rd Symposium on Infectious Diseases in the Immunocompromised Host, Seattle WA, June, 2019.
84. Swamy GK, **Munoz FM**, Polack F, Madhi SA, Trenholme AA, Simoes EAF, Fries L, Cho I, Thomas DN, Fix A, Plested J, Smith G, Glenn G. Safety of third trimester immunization with a respiratory syncytial virus F protein vaccine and protection of infants over the first 180 days of life against all cause lower respiratory tract infection. *Oral presentation* at the IDSOG meeting, Big Sky, Montana, August 8-10, 2019.
85. Kachikis A, Eckert L, **Munoz FM**, Sienas L, Quigley RS, Sturkenboom, Dodd C, Jones C, Schlaudecker, Khalis A, Yildirim I, Wilcox, Elmonstaser M, Heath PT, Buttery J, Black S. Obstetrics vs. non-obstetric based chart abstractor impact on ability to assess GAIA outcome definitions for potential AEFI in pregnant women and their infants in preparation for use in maternal immunization studies. *Poster* presentation at the IDSOG meeting, Big Sky, Montana, August 8-10, 2019.
86. Eckert LA, **Munoz FM**. Obstetric Risk Assessment Too: Evaluation of selection criteria for vaccine research studies of Pregnant Women. *Poster* presentation. 5th international Neonatal and Maternal Immunization Symposium, INMIS, Vancouver, Canada, September 15-17, 2019.
87. Leuridan E, Hoang HT, Wanlapakorn N, **Munoz FM**, Kampmann B, Rots N, Halperin S, Maertens K, Dang DA, Holder BS, Barug D, Langley J, Madavan N, Pollard AJ, Voysey M. The half-life of maternal transplacental antibodies against diphtheria, tetanus, and pertussis: an individual participant data

metaanalysis. *Poster presentation*. 5th international Neonatal and Maternal Immunization Symposium, INMIS, Vancouver, Canada, September 15-17, 2019.

88. Schuster JE, Spieker A, Hamdan L, Batarseh E, Stewart LS, Dulek D, Kitko CL, **Munoz FM**, Bocchini C, Danziger-Isakov L, Grimley M, Goyal R, Coffin S, Freedman JL, Englund JA, Carpenter PA, Ardura MI, Auletta J, Wattier R, Truong K, Maron G, Allison KJ, Pediatric HSCT Flu Network, and Halasa N. Immunogenicity of inactivated influenza vaccines given early vs late after pediatric allogeneic hematopoietic cell transplantation. *Poster presentation at IDWeek 2019, Washington, DC, Oct. 2-6, 2019*

89. **Munoz FM**, Connery AK, Natranjan MS, Waggoner J, Lamb MM, Olson D, Paniagua-Avila A, Bauer D, Anderson EJ, Mulligan MJ, Calvimontes M, Bolanos GA, EMMES, Keitel WA, ElSahly H, Tomashek K, Asturias EJ. Postnatally acquired Zika virus infection in infants and young children in Guatemala: serologic and neurodevelopmental evaluation. *Oral presentation at IDSA IDWeek 2019, Washington, DC, Oct 2-6, 2019*

90. Olson D, Lamb MM, Connery AK, Colborn KL, Natranjan MS, Waggoner J, Paniagua-Avila A, Bauer D, Anderson J, Calvimontes M, Bolanos GA, Watson N, ElSahly H, **Munoz FM***, Asturias EJ*. Post-natal Zika virus infection and impact on neurodevelopment among a cohort of children in rural Guatemala. *Poster presentation at IDSA IDWeek 2019, Washington, DC, Oct 2-6, 2019*

91. Valencia-Deray K, Hosek K, Moulton EM, **Munoz FM**, Demmler G, Bocchini CE. Epidemiology of CMV in pediatric SOT recipients at Texas Children's Hospital. *Poster presentation at ID week 2019, Washington, DC, Oct 2-6, 2019.*

92. Colbert AM, Lamb MM, Bauer D, Hernandez S, Martinez MA, Arroyave P, Paniagua-Avila A, Olson D, Calvimontes M, Bolanos GA, ElSahly H, **Munoz FM**, Asturias EJ, Connery AK. Interrater reliability of an adapted and translated version of the Mullen Scales of Early Learning (MSEL) in rural Guatemala. *Poster presentation at the Annual Meeting of the American Society of Tropical Medicine and Hygiene, Baltimore MD, November 2019.*

93. Bauer D, Connery AK, Lamb MM, Colbert AM, Hernandez S, Arroyave P, Martinez MA, Paniagua-Avila A, Calvimontes M, Bolanos GA, Olson D, ElSahly HM, **Munoz FM**, Asturias EJ. Relationship between nutrition status and neurodevelopment of young children in rural Guatemala. *Poster Presentation at University of Colorado Global Health Symposium. Denver, CO, October 18, 2019.*

94. Lamb MM, Connery AK, Colbert AM, Bauer D, Hernandez S, Martinez MA, Arroyave P, Paniagua-Avila A, Calvimontes M, Bolanos GA, Olson D, ElSahly HM, Asturias EJ, **Munoz FM**. Microcephaly: Prevalence and neurodevelopmental outcomes in young children in Guatemala. *Oral Presentation at the International Neuropsychological Society meeting, Denver CO, February 5-8, 2020.*

95. Colbert AM, Bauer D, Connery AK, Hernandez S, Martinez MA, Arroyave P, Paniagua-Avila A, Calvimontes M, Bolanos GA, Olson D, ElSahly HM, Asturias EJ, **Munoz FM** . Microcephaly and stunting: prevalence and neurodevelopmental outcome in young children in Guatemala. *Oral Presentation at the International Neuropsychological Society meeting, Denver CO, February 5-8, 2020.*

96. Bauer D, Connery AK, Lamb MM, Colbert AM, Arroyave P, Hernandez S, Martinez MA, Paniagua-Avila A, Calvimontes M, Bolanos GA, Olson D, ElSahly HM, **Munoz FM**, Asturias EJ. Relationship between nutrition status and neurodevelopment of young children in rural Guatemala. *Poster presentation at Consortium of Universities of Global Health, Washington, DC 2020 (COVID cancellation).*

97. Moll K, Wong HL, Fingar K, Hobbi S, Sheng M, Burrell T, Baer B, Immel S, Lari N, Eckert LO, **Munoz FM**, Rosenfeld W, Obidi J, Sepulveda K, Shoaibi A, Anderson S. Validating claims-based algorithms identifying pregnancy outcomes. Oral Presentation ISPE International Society Pharmacoepidemiology. September 16-17 2020.
98. Haddadin Z, Hamdan L, **Munoz FM**, Danziger-Isakov L, Schuster JE, Coffin S, Englund J, Ardura MI, Wattier R, Maron G, Dulek D, Kitko CL, Rahman H, McHenry R, Yepsen E, Batarseh E, Stewart LS, Jones MM, Bocchini CE, Moulton EA, Williams C, Blum S, Grimley M, Paulsen G, Harrison CJ, Goyal R, Freedman J, Halasa N. Laboratory confirmed influenza in vaccinated pediatric hematopoietic cell transplant recipients. Presented, ICHS, October, 2020.
99. **Munoz FM**, Lamb MM, Waggoner J, Bauer D, Paniagua-Avila MA, Connery AK, Olson D, Natranjan MS, Anderson EJ, Calvimontes M, Bolanos GA, ElSahly HM, Asturias JA. Cytomegalovirus infection in the first year of life in a cohort of infants in rural Guatemala. Presented, ID Week October, 2020.
100. Olson D, Lamb MM, Connery AK, Bauer D, Paniagua-Avila MA, Colborn KL, Natranjan MS, Waggoner J, Anderson EJ, Calvimontes M, Bolanos GA, Pettibone S, ElSahly HM, **Munoz FM**, Asturias EJ. Association between cumulative febrile, respiratory and diarrheal illness in the first year of life and developmental and growth outcomes among a cohort of children in rural Guatemala. Presented, ID Week, October 2020.
101. Valencia-Deray K, Hosek K, **Munoz FM**, Moulton E, Demmler-Harrison GJ, Leung D, Bocchini CE. Epidemiology and long term outcomes of cytomegalovirus in pediatric liver transplant recipients at Texas Children's Hospital. Presented, ID Week, October 2020.
102. **Munoz FM**, Madhi S, Polack F, Piedra PA, Trenholme A, Simoes E, Swamy G, Cho I, Glenn G, Fries L. Pneumonia in infants in a maternal RSV F Nanoparticle phase 3 vaccine efficacy trial: a post-hoc analysis of the safety database. E-Poster presentation, 38th Annual Meeting of the European Society of Pediatric Infectious Diseases, October 26-29, 2020.
103. Lamb MM, Connery AK, Colbert AM, Bauer D, Olson D, Paniagua-Avila AM, Arroyave P, Hernandez S, Martinez MA, Holliday A, ElSahly HM, **Munoz FM**, Asturias EJ. Testing different WHO head circumference Z-score cutoff for association with neurodevelopmental outcomes in infants and young children in rural Guatemala. Presented at ASTMH, November 2020, virtual.
104. Onyearugbulem C, **Munoz FM**, Lam F, Gazzaneo C, Das S, Melicoff E, Mallory G, Coss-bu, JA. Comparison of pSOFA and PELOD in the Immediate Post-Operative Period following Pediatric Lung Transplantation. World Federation Pediatric Intensive and Critical Care Societies, Dec, 2020, Virtual Congress.
105. Liu Yi-Chun, **Munoz FM**, Anne S. Management of otologic surgery patients with pediculous capitis (head lice) infestation. European Society of Pediatric Otorhinolaryngology (ESPO), Virtual. February 2021.
106. **Munoz FM**, Muller M, Ahmed A, Kimberlin D, Mendez-Echevarria A, Chen JS, Nakamura M, Pomputius W, et al. Safety and efficacy of remdesivir in a COVID-19 pediatric population. CROI 2021. March 6, 2021
107. Valencia-Deray K, Hosek K, Moulton EA, **Munoz FM**, Demmler-Harrison GJ, Bocchini CE. The Epidemiology of CMV in pediatric SOTR at TCH. Oral Presentation ESPID MasterClass, Geneva, May 2021.

108. Ikeda S, Devaraj S, Hensch L, Hui SK, Teruya J, Gandhi M, Fox K, **Munoz FM**. Convalescent plasma in hospitalized pediatric and obstetric acute COVID-19 patients. Oral Presentation ESPID MasterClass, Geneva, May 2021.
109. Petters L, Bocchini C, Moulton E, Ruderfer D, **Munoz FM**. SARS-CoV-2 infection in solid organ transplant candidates and recipients at TCH: a retrospective review. Oral Presentation ESPID MasterClass, Geneva, May 2021
110. Ikeda S, Benzi E, Hensch L, Devarah S, Hui SR, Gandhi M, Fox KA, Teruya J, Munoz FM. Convalescent plasma in hospitalized pediatric and obstetric patients with COVID-19. Poster Presentation, ID Week October 2021
111. Petters LM, Bocchini CE, Moulton EA, Ruderfer D, Valencia-Deray K, **Munoz FM**. SARS-CoV-2 infection in solid organ transplant candidates and recipients at Texas Children's Hospital: A retrospective review. Poster presentation. ID Week October 2021
112. Nguyen J, Osuna I, Muscal E, Sexson KS, DeGuzman MM, Munoz FM, Vogel TP. Performance of the Brighton Case Definition for Multisystemic Inflammatory Syndrome in Children (MISC) among a Large Single Center Cohort. Poster presentation, ID Week, October 2021
113. Petters LM, Bocchini CE, Moulton EA, Ruderfer D, Valencia-Deray K, **Munoz FM**. SARS-CoV-2 infection in solid organ transplant candidates and recipients at Texas Children's Hospital: A retrospective review. Poster presentation TCH Advanced Practice Providers Conference, April 7-9, 2022.
114. Valencia-Deray K, Hosek K, Moulton EA, **Munoz FM**, Bocchini CE. The Epidemiology of chronic high level EBV DNAemia in pediatric SOTR at TCH. Oral Presentation ESPID Annual Meeting, Athens, Greece, May 2022
115. Buffaloe LM, Bocchini CA, Moulton EA, Ruderfer D, Valencia Deray K, **Munoz, FM**. Riding the waves: infection by SARS-CoV-2 variants in solid organ transplant recipients at Texas Children's Hospital, Poster presentation at IDWeek, October 2022
116. Demirhan S, Foca M, **Munoz FM**, Valencia-Deray K, Bocchini C, Danziger-Isakov L, Blum S, Muller W, Heald-Sargent T, Sharma T, Sherman G, Boguniewicz J, Bacon S, Maron G, Ferrolino J, Herold B. Body Surface Area (BSA) Valganciclovir Prophylactic Dosing is Associated with a Higher Rate of Drug-Associated Toxicities Compared to Body Weight Dosing in Pediatric Solid Organ Transplant Recipients. Oral Presentation at the 22nd Annual St.Judes/PIDS Pediatric Infectious Diseases Research Conference, March 1-3, 2023, Memphis, TN.
117. Bahakel H, Carpenter PA, Dulek D, Englund JA, Danziger-Isakov L, Shuster JE, Kitko CL, Stewart L, Stahl AL, Rahman HK, Kalams SA, Coffin S, Ardura M, Watthier R, Maron G, Bocchini C, Moulton EM, Grimley M, Paulsen G, Freedman J, Spieker AJ, Amarin J, Harrison CJ, Potter M, **Munoz FM**, Halasa N. Immunogenicity and safety of alternative influenza vaccination strategies in repeated seasons in pediatric hematopoietic cell transplant recipients. Oral Presentation at the 22nd Annual St.Judes/PIDS Pediatric Infectious Diseases Research Conference, March 1-3, 2023, Memphis, TN.
118. Sanchez-Villa M, Wisniewski MA, Nguyen JM, Muscal E, DeGuzman MM, Sexton ST, Devaraj S, Sahni LC, **Munoz FM**, Vogel T. SARS-CoV-2 Vaccination of children with a history of multisystemic inflammatory syndrome. Poster breakout session at the ACR Pediatric Rheumatology Symposium. March 31, 2023, New Orleans, LA.

119. **Munoz FM**, Sabharwal CJ, Gurtman A, Walter E, Paulsen G, Simoes E, Lockhart S, Xu X, Koury K, Kitchin N, Gruber W. Developing optimal pediatric COVID-19 vaccines for children less than 12 years of age during an evolving pandemic. Submitted to Edwards Vaccinology and Infectious Diseases Symposium, April 17-18, 2022, Nashville, TN.
120. **Munoz FM**, Cardemil C, Posavad CM, Richardson BA, Badel ML, Bunge K, Mulligan MJ, et al. Primary vs. booster COVID-19 mRNA immunization during pregnancy or post-partum: Durability of immune responses in mothers and infants. Poster presentation PAS, May 1 2023, Washington, DC.
121. **Munoz FM**, Cardemil C, Posavad CM, Richardson BA, Badel ML, Bunge K, Mulligan MJ, et al. Breastmilk antibodies after primary vs. booster mRNA COVID-19 vaccination during pregnancy or postpartum. Poster presentation PAS, May 1 2023, Washington DC.
122. **Munoz FM**, Cardemil C, Posavad CM, Richardson BA, Badel ML, Bunge K, Mulligan MJ, et al. Primary vs. booster COVID-19 mRNA immunization during pregnancy or post-partum: Durability of immune responses in mothers and infants. Oral presentation ESPID, May 11 2023, Lisbon, Portugal.
123. **Munoz FM**, Cardemil C, Posavad CM, Richardson BA, Badel ML, Bunge K, Mulligan MJ, et al. Breastmilk antibodies after primary vs. booster mRNA COVID-19 vaccination during pregnancy or postpartum. Oral presentation ESPID, May 11, 2023, Lisbon, Portugal.
124. Foca M, **Munoz FM**, Danziger-Isakov L, Heald-Sargent T, Sharma T, Valencia-Deray K, Boguniewicz J, Smith J, Maron G, Herold B. Valganciclovir toxicity in pediatric solid organ transplant patients. American Society of Transplantation (ATC) meeting, June 3-7, 2023, San Diego, CA.
125. Regan AK, Sullivan S, **Munoz FM**, Arah O. Claims based national US cohort study of the safety of viral vector COVID-19 vaccination during pregnancy. Society for Epidemiologic Research (SER) 2023, June 13-16, Portland, Oregon.
126. Chun A, Bautista-Castillo A, Osuna I, Nasto K, **Munoz FM**, Schutze G, Devaraj S, Muscal E, DeGuzman M, Sexson Tejtel K, Kakadiaris I, Vogel T. Distinguishing Multisystemic inflammatory syndrome in children from typhus using artificial intelligence: MISC vs. Endemic Typhus (AI-MET). Poster presentation at ACR23, 2023.
127. Rae M, Nguyen J, DeGuzman M, Foster C, **Munoz FM**, Muscal E. Safety of baricitinib for COVID-19 related hyperinflammation in pediatric patients: A large tertiary care center experience. Poster presentation at ACR23, 2023.
128. Regan AK, Sullivan S, **Munoz FM**, Arah O. Claims based national US cohort study of the safety of adenoviral vector COVID-19 vaccination during pregnancy. International conference on Pharmacoepidemiology and Therapeutic Risk Management (ICPE) 2023 meeting, August 23-27, 2023 Halifax, Nova Scotia, Canada.
129. Nicholson EG, Sahni LC, **Munoz FM**,...Avadhanula V, Piedra, PA, Boom JA. Documented Respiratory Viral Infection in Febrile Infants Less Than 90 Days Decreases the Risk of Invasive Bacterial Infection, ID Week, October 11-15, 2023 Boston, MA.
130. Stopczynski T, Amarin JZ, Antoon JW, Hamdan O, Stewart LS, Chappell J, Spieker AJ, Klein E, Englund J, Weinberg GA, Szilagyi PG, Hickey RW, Michaels MG, **Munoz FM**, Boom J, Staat MA, MD, Schlaudecker E, Schuster J, Selvarangan R, Burkel VK, Moline HL, Campbell AP, Olson SM, Halasa NB.

Antiviral prescription in children with influenza in emergency departments (ED): New Vaccine Surveillance Network (NVSN), 2016–2020. Accepted for presentation at IDWeek 2023, Boston MA, Oct 11-15, 2023.

131. Amarin JZ, Hamdan O, Antoon JW, Spieker AJ, Stewart LS, **Munoz FM**..., Chappell JD, Olson SM, Halasa NB. Predictors of Antiviral Prescription for Influenza in Hospitalized U.S. Children, New Vaccine Surveillance Network (2016–2020) ID Week, October 11-15, 2023 Boston, MA.

132. Sahni LC, Amarin JZ, Stopczynski T, Spieker AJ, Stewart LS, Staat MA, Quigley C, Selvarangan R, Schuster JE, Michaels MM, Williams JV, Szilagyi PG, Weinberg GA, Englund JA, Klein EJ, Clopper B, Moline HL, Avadhanula V, **Muñoz FM**, Piedra PA, Halasa NB, Boom JA. Hospitalizations for respiratory viruses among 5-17 years of age in the pre-COVID-19 pandemic era, the New Vaccine Surveillance Network, December 2016 through March 2020 ID Week, October 11-15, 2023 Boston, MA.

133. Noble EK, Hayek H, Stewart LCS, Sahni LC, Boom JA, Michaels MG, Williams JV, Englund JA, Klein EJ, Staat MA, Schlaudecker EP, Selvarangan R, Schuster JE, Weinberg GA, Szilagyi PG, Clopper BR, Moline HL, Halasa NB, Olson SM. Effectiveness of influenza vaccination against influenza-associated emergency department (ED) visits and hospitalizations among children with and without underlying medical conditions, **New Vaccine Surveillance Network** (NVSN), 2015-2016 through 2019-2020 influenza seasons. Accepted for presentation at IDWeek 2023, Boston MA, Oct 11-15, 2023.

134. Stimes GT, Rodriguez BA, Gilliespie AE, Hilliard T, **Munoz FM**, Forbes LR. COVID-19 Monoclonal antibody use at a stand alone children’s hospital. ID Week, October 11-15, 2023 Boston, MA.

135. Rodriguez BA, Stimes GT, Hilliard T, Forbes LR, **Munoz FM**. Outpatient remdesivir use at a stand alone children’s hospital. ID Week, October 11-15, 2023, Boston, MA.

136. Paulsen GC, Sher LD, Sabharwal C, Kitchin N, Hill S, Wasserman E, Xu X, Maldonado Y, Barnett ED, Englund JA, Walter EB, **Munoz FM**, Simoes EAF, Tallat KR, Kamidani S, Mayer L, Parikh V, Ma H, Wang X, Koury K, Anderson AS, Swanson KA, Gurtman A, Gruber WC. Safety and immunogenicity of a variant adapted bivalent (Original/Omicron BA.4/BA.5) BNT162b2 COVID-19 vaccine given as a booster (Dose 4) to 5 to 11 year old children who previously received 3 doses of original BNT162b2. Poster presentation at ID Week, October 11-15, 2023, Boston, MA.

137. Haribhai M, Moulton EA, Valenci-Deray KG, Nicholas SK, Bertuch AA, Dunn JJ, **Munoz FM**, Banc-Husu AM. A case donor-derived syphilis seroconversion in a pediatric liver transplant patient. Poster presentation at SPLIT meeting, Montreal, October 16-17, 2023.

138. Cohen MJ, Munoz FM, Mysore KR. Invasive fungal infections in children on liver transplant waitlist: a large single center experience. Oral presentation at SPLIT, Montreal, October 16-17, 2023.

139. Cohen MJ, **Munoz FM**, Mysore KR. Invasive fungal infections in children on liver transplant waitlist: a large single center experience. Poster presentation at AASLD, 2023.

140. Demirhan S, Foca M, **Munoz FM**, Valencia Deray K, Bocchini CE, Sharma TS, Sherman G, Muller W, Heald Sargent T, Danziger-Osakov L, Blum S, Boguniewicz J, Bacon S, Joseph T, Smith J, Ardura MI, Maron GM, Su Y, Ferrolino J, Herold BC. Multicenter analysis of valganciclovir prophylaxis in pediatric solid organ recipients. Oral presentation at the PIDS/St. Jude’s annual meeting, March 6-8, 2024.

141. **Munoz FM**, Cardemil CV, Posavad CM, Rihcardson BA, Badell M, Bunge K, Mulligan MJ, Parameswaran L, Gundacker H, Gao F, Cao Y, Olsen-Chen C, Novak RM, Brady RC, Pasetti M, DeFranco M, Gerber JS, Suthar MS, Coler R, Berube B, Him SH, Piper JM, Brown E, Neuzil KM, Beigi RM, MOMI-Vax Study Group. Kinetics of antibodies in infants after primary vs. booster COVID-19 mRNA immunization during pregnancy or postpartum. Oral poster presentation at INMIS, March 12-14, 2024, San Jose, Costa Rica.
142. Olsen SM, Sahni LC, Mohanty S, Halasa NB, Stewart LS, Michaels MG, Williams JV, Englund JA, Klein EJ, Staat MA, Schlaudecker E, Selvarangan R, Harrison CJ, Weinberg GA, Szilagyi PG, Perez A, Moline HL, Boom JA, Ellington SR, **Munoz FM**, for the New Vaccine Surveillance Network. The utility of self reported and documented vaccination data in maternal vaccine effectiveness studies. Oral poster presentation at INMIS, March 12-14, 2024, San Jose, Costa Rica.
143. Chaudhary M, Cutland C, **Munoz FM**, CEPI SPEAC MIWG. Burden of Lassa fever disease in pregnant women and children, options for prevention. Oral poster presentation at INMIS, March 12-14, 2024, San Jose, Costa Rica.
144. **Munoz FM**, Cardemil CV, Posavad CM, Richardson BA, Badell M, Bunge K, Mulligan MJ, Parameswaran L, Gundacker H, Gao F, Cao Y, Olsen-Chen C, Novak RM, Brady RC, Pasetti M, DeFranco M, Gerber JS, Suthar MS, Coler R, Berube B, Him SH, Piper JM, Brown E, Neuzil KM, Beigi RM, MOMI-Vax Study Group. Kinetics of antibodies in infants after primary vs. booster COVID-19 mRNA immunization during pregnancy or postpartum. Oral presentation at SPR/PAS, May 5, 2024, Toronto, Canada.
145. Ahmed A, Bianchi L, Giaquinto C, Sue PK, Mongkolrattanothai K, Crowe S, Hedskog C, Suri V, Kersey K, Muller WJ, Munoz FM, Rojo P. Remdesivir treatment for neonates and preterm infants hospitalized with COVID-19. Submitted to ISPOR and to ESPID. Accepted for poster presentation ESPID, May 20-24, 2024 Copenhagen, Denmark.
146. Sturkenboom M, Black S, Law B, **Munoz FM**, Chaudhary M, Gurwich M, Dekker C, Nordenberg D, Stergachis D, Huang WT, Chandler R, Chen R. Pandemic preparedness: standardized Brighton collaboration case definitions on adverse events of special interest and supplemental guides on risk factors, incidence rates, and data collection forms. Accepted ESPID, May 20-24, 2024, Copenhagen, Denmark.
147. Nguyen J, Sanchez Villa M, Sahni LC, Gillispie-Taylor M, DeGuzman MM, Sexton Tejtet SK, Devaraj S, **Munoz FM**, Vogel TP. Safety and tolerability of the SARS-CoV-2 vaccine in infants with a history of Kawasaki disease. Poster presentation, International KD Symposium, August 26-29, 2024.
148. Sangha R, Musa S, Albert J, ...**Munoz FM**, Williams J, Michaels M, for the New Vaccine Surveillance Network. Acute Respiratory Illness (ARI) in pediatric solid organ transplant recipients enrolled in the NVSN. American Transplant Congress (ATC).
149. Zar HJ, Bont LJ, Manzoni P, **Munoz FM**, Ramilo O, Chen PY, Novoa Pizarro JM, Ordonez GA, Tsoia M, Tapiero B, Acuna Avila MI, Castellanos JM, Meyer M, Morioka I, Chen Z, Railkar RA, Zang X, Krick AL, Lee AW, Castagnini LA, Sinha A, on behalf of the MK-1654-007 study group. Phase 3, randomized, controlled trial evaluating safety, efficacy, and pharmacokinetics of Clesrovimab in infants and children at increased risk for severe respiratory syncytial virus disease. Oral presentation, ID Week, Los Angeles, October 15-18, 2024.

150. Banc Husu A, Hassan S, Galvan TN, Moulton EA, Bocchini C, Hosek K, Cerminara D, **Munoz FM**, Mysore K. Adenovirus infection following pediatric liver transplant: incidence and outcomes. AASLD, 2024

Submitted Abstracts:

1. Sinha A, Railkar R, Castagnini L, Guerra A, Krick AL, Lutkierwicz J, Maas BM, Zang X, Roadcap BA, Choi Y, Nahhas GJ, Arriola CS, Bont L, Manzoni PN, Ramilo O, **Munoz FM**, Finelly L, Lee AW. Evaluation of a monoclonal antibody against respiratory syncytial virus, clesrovimab, in infants and children: comprehensive rationale and study design for the late-stage clinical trials. Submission to the 13th International RSV Symposium (ISIRV 2025).

BOOKS and BOOK CHAPTERS

1. **Munoz FM** and Starke JR. Tuberculosis in children. In: Tuberculosis: A Comprehensive International Approach. Reichman, L.B, Hershfield, E.S., Editors. Marcel Dekker, Inc. New York. 2nd Edition, Revised and Expanded, Vol 144, 1999; pp.553-595.
2. Starke JR and **Munoz FM**. Tuberculosis. In: Nelson Textbook of Pediatrics. Behrman, R.E, Kliegman, R.M., Jenson, H.B., Editors. W.B. Saunders Company. Philadelphia, PA. 16th Edition, 2000; pp.885-897.
3. **Munoz FM** and Baumann JR. Adenoviruses. In: Clinical Neurovirology. Nath A, Berger JR. Editors. Marcel Dekker, Inc. New York. 1st Edition. 2003, pp. 379-400.
4. **Munoz FM** and Starke JR. Tuberculosis (*Mycobacterium tuberculosis*). In: Nelson Textbook of Pediatrics. Behrman, R.E, Kliegman, R.M., Jenson, H.B., Editors. W.B. Saunders Company. Philadelphia, PA. 17th Edition, 2003; pp 958-972.
5. **Munoz FM** and Starke JR. Childhood Tuberculosis. In: Tuberculosis: A Comprehensive International Approach. Raviglione M and Lambregts K, Editors. Taylor and Francis Group, LLC, New York. 3rd Edition, 2006; pp. 307-344.
6. Starke JR and **Munoz FM**. Tuberculosis (*Mycobacterium tuberculosis*). In: Nelson Textbook of Pediatrics. Behrman, R.E, Kliegman, R.M., Jenson, H.B., Editors. W.B. Saunders Company. Philadelphia, PA. 18th Edition, 2007; 1240-1254.
7. **Munoz FM**. Viral Exanthems. In: Manson's Tropical Diseases. Farrar J, Hotez PJ, Junghanss T, Kang G, Lalloo D and White NJ, Editors. ELSEVIER, Saunders, China. 23rd Edition, 2014; 225-241.
8. Danzinger-Izakov L, **Munoz FM**, Estabrook M. Infectious Post-Transplant Complications after Pediatric Lung Transplantation. In Solid Organ Transplantation in Infants and Children. Dunn and Goldfarb Editors. Springer Nature. 2017
9. Dulek D, **Munoz FM**. Vaccination of Contacts: Immunization Module 2. American Society of Transplantation and Pediatric Infectious Diseases Society Educational Curriculum in Pediatric Transplant Infectious Diseases. 2017. Online Educational Modules.
10. Non-tuberculous and tuberculous mycobacterium. **Munoz FM** and Lin PL. In Pediatric Transplant and Oncology Infectious Diseases. Editors: Steinbach W, Michaels M. 2019.

11. RSV Maternal Immunization. **Munoz FM** and Englund JA. In Vaccines and Pregnancy, Editors: E. Leuridan, C. Jones, M. Nunes, Elsevier/Academic Press, The Netherlands. 2019
12. Giles ML, Paterson P, **Munoz FM**, Larson H, Lambach, P. Global considerations on maternal vaccine introduction and implementation. In Vaccines and Pregnancy, Editors: E. Leuridan, C. Jones, M. Nunes, Elsevier/Academic Press, The Netherlands. 2019
13. **Munoz FM**. Influenza Viruses. Nelson Textbook of Pediatrics, 22nd Edition. Editors: Joseph St. Geme, Robert M. Kliegman. 2022.
14. **Munoz FM**. Viral Exanthems – Manson’s Tropical Diseases. Farrar J, Hotez PJ, Junghanss T, Kang G, Lalloo D and White NJ, Editors. 2023
15. Khalil A, **Munoz FM** and Ter Meulen A. **Editors** – Maternal Immunization. The Continuous Textbook of Women’s Medicine Series, Obstetrics Module, Volume 17, 2023. The Global Library of Women’s Medicine (GLOWM), an educational platform for the International Federation of Gynecology and Obstetrics. ISSN: 1756-2228; DOI 10.3843/GLOWM.419383 - <https://www.glowm.com/womens-medicine-series-obstetric/heading/vol-17--maternal-immunization/id/417483>

Book Chapters In preparation: N/A

OTHER WORKS COMMUNICATING RESEARCH RESULTS TO SCIENTIFIC COLLEAGUES

- 2024 World Society of Pediatric Infectious Diseases (WSPID) Podcast – RSV Prevention. May 8, 2024.
- 2015-2022 “What’s the Latest with the Flu?” Monthly message for clinicians, organized by the Disaster Preparedness and Response Committee of the American Academy of Pediatrics.
- 2011- Present “Immunization for Women” Newsletter of the ACOG. Monthly newsletter for obstetric providers, prepared by the Immunization Expert Group of American College of Obstetrics and Gynecology.

OTHER WORK COMMUNICATING RESEARCH RESULTS TO GENERAL PUBLIC

- 2021-2023 Local, national, international media interviews, Washington Post (<https://www.washingtonpost.com/health/2021/03/31/children-covid-vaccine/>), Univision local and national, Telemundo, local and National, interview with student of Newspaper and Online Journalism, Syracuse University (14APR2022), CNN International En Espanol, CNN en Espanol US, “The Conversation” (international web-based network).
- 2020 Local, national, international media interviews, NY Times, Reuters, National Public Radio, Montreal radio, BMJ, CNN, CCN Espanol, Telemundo, Univision, Families Fighting Flu. COVID-19, influenza and other respiratory viruses, vaccine topics.
- 2019 Local and national media interviews, Washington Post, Texas Tribune; Interview with Parents Magazine on influenza article; Texas Medical Center article on teen vaccination; Families Fighting Flu; Expert Perspectives in Influenza.

2018 Multiple interviews with local and national media re. ID topics, including influenza vaccination, prevention and treatment, including: CNN, CCN en Espanol, Medscape, Reuters, Huffington Post, Parents.com, People – Human Interest Section; Doctor Radio, AAP news, CBS News.

2017 Multiple interviews with local and national media re. influenza vaccination, prevention and treatment, including: “The Bump” magazine, “Parents Latina” magazine, Houston KUHF Radio, National Public Radio, CNN Health Report, Times Health

2017 Maternal vaccines Podcast. Voices for Vaccines. Available at www.voicesforvaccines.org/podcast.

2016 Univision-45 Houston, Primera Edicion. Spanish live in studio interview on Influenza, on behalf of Families Fighting Flu. November 29, 2016

2016 National Public Radio, Tetanus Vaccination in Adults, May 30, 2016.

2016 Reuters, Health Prof News Comments, on behalf of AAP – Pertussis Antibody Concentrations in Infants Born Prematurely. May 24, 2016.

2015 Recreational Water Illnesses. Piece posted at Texas Children’s Hospital Blog, May 20, 2015. <http://www.texaschildrensblog.org/2015/05/recreational-water-illnesses-what-parents-need-to-know/>

2014 Interviews/reports regarding Maternal Tdap Immunization study with: National Public Radio, The Houston Chronicle, The New York Times, Reuters, BCM media.

2013 Huffington Post national panel on influenza prevention in collaboration with “Families Fighting Flu”. Community blog on influenza vaccination hosted by Channel 13, Houston, TX.

2009 “Clinical trials of the H1N1 vaccine, safety and efficacy”. H1N1 Flu Forum, Ask the Experts! Organized by the Immunization Partnership and the Rotary Club of Houston, December 8, 2009.

2009 “Influenza H1N1 vaccine” Open Journal Radio Interview, KPFT 90.1 Radio, December 2, 2009.

2008 “Influenza Prevention” A community event sponsored by the Covenant Health System at the Knipling Education Conference Center, Lubbock, TX, September 29th, 2008.

2003 “SARS and Public Health”. Women’s City Club. Houston, Texas, June 18th, 2003.

1999 to 2013: Multiple local and national radio, television, magazine and press interviews on: Influenza infections in children; Novel influenza strain H1N1, The common cold; Prevention of viral infections; Update on influenza activity in Houston; Maternal immunization against RSV and influenza, MRSA, Adenovirus.

III. TEACHING INFORMATION

A. DIDACTIC COURSE WORK

Department of Pediatrics

2022-Present Vaccinology Elective, Texas Children’s Hospital Vaccine Initiative group. Lectures on vaccine related topics (1 hr long, 2-3 per session) for residents rotating in this elective.

2014-Present **Steering Committee - Department of Pediatrics Pediatrician-Scientist Residency Program**

2004-2024 Core Infectious Diseases Fellowship Lecture Series, Baylor College of Medicine “Influenza”, “RSV and other respiratory viruses”, “Pertussis”, “Atypical pneumonia”, “Infections in solid organ transplant”, “HHV-6 Infection in SOT”; 1 hour lecture, 1-2 times/year.

1998-2006 Pediatric infectious diseases topics, Ben Taub Hospital General Pediatrics ward rotation. 1 hour lecture 1-2 times/year for residents and medical students

1997-2013 Infectious Diseases Lecture Series, Ben Taub General Hospital, Neonatology Section “Viral Infections of the Fetus and Newborn”; 1 hour lecture, 4-5 times/year, residents/medical students.

Baylor College of Medicine

2023- Present Member, **Research Mentorship Committee, Baylor College of Medicine**

2021-Present Faculty, Graduate School of Biomedical Sciences, BCM, Responsible Conduct of Research course – Classes: “Practical aspects of protocol development an IRB submission” and “Ethical and regulatory issues in human research”.

2014-2017 National School of Tropical Medicine, Summer Course. “Airborne Infections” (1 hour session, 1 time/year).

2014-2015 Community Health Pediatric Advocacy Elective, Medical School Students, Baylor College of Medicine “Immunizations and Health Disparities” lecture (1 hour session, 1 time/year).

2007-2023 Infectious Disease Module, Medical School Students, Baylor College of Medicine “Bordetella and Neisseria”; “Diphtheria, Bacillus and Listeria” (1 hour lecture, 1 time/year)

2002, 04, 06 Cultural Competency Course, Physician Assistant Program and Medical School, Baylor College of Medicine, “Folk Medicine in Texas” (1 hour lecture, 1 time/year).

2002 Facilitator, Integrated Problems Solving course, Baylor College of Medicine, 1st -2nd year medical students (2 hour sessions, weekly for 2 months).

1997 – 2015 Core Curriculum in Microbiology, Baylor College of Medicine. Medical Student Case Discussions: Tuberculosis; Respiratory Infections; Central Nervous System Infections; Parasitology; Community-Acquired Infections (2 hour sessions, 1-2 times/year).

1996 – 2006 Introduction to Patient Course, Pediatric Component, Baylor College of Medicine (3 hour session, 1 time/year).

National

2020-2023 Faculty – COVID-19 ECHO Sessions. Project ECHO. American Academy of Pediatrics.

2018 Faculty – Practical Pediatrics Course of the American Academy of Pediatrics. Vaccine Hesitance Workshop, Pneumonia and Respiratory Viral Infections, Multidrug Resistant Infections, Emerging Infections and Outbreaks, Anaheim, CA, July 2018.

- 2017 Faculty – PREP-ID CME Course. Opportunistic infections; Opportunistic Infection Cases; Respiratory Viruses. Dallas, Texas, July 27-30, 2017.
- 2011-2012 Faculty – PREP® -The Course, Infectious Diseases Topics, Costa Mesa California, 2011 and New Orleans, LA, 2012, American Academy of Pediatrics.

International

- 2023- Present Faculty – Diplomado de vacunas para profesionales de la Salud, Instituto de Ciencias e Inovacion en Medicina (ICIM), de la Facultad de Medicina, Clinica Alemana Universidad del Desarrollo, Chile.
- 2022 Faculty – Master in Vaccinology and Drug Development course, Sienna, Italy
- 2022-present Faculty - Programa de Entrenamiento Intensivo en Vacunologia y sus Politicas (PEIVAP) course, (Sociedad Latinoamericana de Infectologia Pediatrica - SLIPE and Florida International University - FIU), Miami, Florida
- 2021-present Faculty, University of Chile, Vaccinology course
- 2013-present Faculty – Vaccinology Course, International Vaccine Institute, Seoul, South Korea, and Karolinska Institute, Stockholm, Sweden
- 2012-Present Faculty – Vaccinology Course, Institut Pasteur, Paris, France

B. CURRICULUM DEVELOPMENT WORK

- 2024-2025 Scientific and Organizing Committee, ESPID 2025, May 26-30, 2025, Bucharest, Romania
- 2023-2024 Curriculum Development Committee, ESPID Summer Course, September 10-14, 2024, Athens, Greece
- 2023-2024 Scientific and Organizing Committee, ESPID 2024, May 20-24, 2024, Copenhagen, Denmark
- 2023-2024 Chair of the Scientific and Organizing Committee, INMIS 2024 (International Neonatal and Maternal Immunization Symposium), and Research ESPID-SLIPE Research Master Class, March 12-14, 2024, San Jose, Costa Rica.
- 2023 - 2025 Organizing Committee, NFID Annual Conference on Vaccinology Research, May 8-10, 2024; and May 5-7 2025
- 2022-2023 Scientific and Organizing Committee, Institut Pasteur Vaccinology Course Anniversary Symposium, February-March 2023
- 2022 Co-Chair and Organizing Committee, CEPI-SPEAC Maternal Immunization Webinar (April 2022) and Meeting (November 2022).
- 2021 Scientific Committee of the Vaccine Virtual Days 2021 International Meeting.

- 2020 Organizing Committee COVAX Maternal Immunization Working Group Webinar. December 16th, 2020.
- 2019-2020 Expert reviewer, Immunization Module of the Texas Health and Human Services, Texas Health Steps Online Provider Education program.
- 2018-2020 Course development, Reviewer, Editor. Pedialink Course of the AAP – Influenza Module
- 2018-2019 Scientific and Organizing Committee, Fifth International Neonatal and Maternal Immunization Symposium (INMIS) meeting. Vancouver, Canada, September 2019.
- 2019 Organizing Committee and Fellow Case Presentations Moderator, PIDS Transplant ID Meeting, Memphis, TN March 6-8, 2019.
- 2016 - 2017 Scientific and Organizing Committee, Fourth International Neonatal and Maternal Immunization Symposium (INMIS) meeting. Brussels, Belgium, September 2017.
- 2016 Scientific Committee Member, Abstract Reviewer. International Society for Vaccines (ISV) Annual Congress. Boston, MA, October 2-4, 2016.
- 2016 Organizing Committee. GAIA Consensus Conference: Global Alignment of Immunization Safety Assessment in Pregnancy. Bethesda, MD, March 29-30, 2016.
- 2016 Reviewer Pediatric Research & Fellows' Symposium, Texas Children's Hospital, 2016.
- 2015 Organizing Committee and Session Chair: RSV Vaccines Workshop, Sponsored by CBER, FDA, and NIAID, NIH – June 1-2, 2015, Bethesda, MD.
- 2015 Poster Moderator and Judge – Fellows College Day, Texas Children's Hospital, 2015.
- 2014-16 Steering Committee Member of the Pediatrician Scientists Training Development Program (PSTDP), Baylor College of Medicine and Texas Children's Hospital, Houston, TX
- 2014-15 Organizing Committee for the Third International Neonatal and Maternal Immunization Symposium (INMIS), The Gambia November, 2015.
- 2014-15 Organizing Committee and Faculty for the Second Pediatric Infectious Diseases Society Transplant Infectious Diseases Conference, sponsored by St. Jude's Hospital, Memphis, TN, February 2015.
- 2014-15 Planning and Development Committee. Immunization Webinar Series. Sponsored by the American College of Obstetrics and Gynecology, 2014-2015.
- 2014 Organizing Committee and Faculty. The Not-So-Scary Newborn 2014 Conference, Tricks and Treats of Infectious Diseases and Vaccinations. October 18, 2014. Organized by Baptist Health System, San Antonio, Texas.
- 2010-2011 Chair, Fellows Day Committee. Organized and developed the course and activities for Texas Children's Hospital Fellows Day, reviewed and scored abstracts, host.

1998 – 2011 Ben Taub Outpatient Infectious Diseases Clinic rotation for infectious diseases fellows, pediatric residents and medical students. Development of educational goals and objectives, syllabus and teaching.

C. NON-DIDACTIC TEACHING

Resident Training

2011- 2024 Transplant infectious diseases attending at Texas Children's Hospital (weeks per year vary), teaching residents rotating in Transplant ID service.

1998-2018 Pediatric infectious diseases attending: up to 2 months per year at Texas Children's Hospital (inpatient and outpatient) teaching residents rotating in the ID service and clinic.

1998-2011 Pediatric infectious diseases attending and 2-3 months per year at Ben Taub General Hospital (inpatient and outpatient), teaching pediatric residents rotating in the ID service and clinic.

1998-2006 General pediatric attending: 1 month per year at Ben Taub General Hospital, teaching pediatric and transitional residents during their general pediatrics clinical rotation, including rounds and lectures.

Clinical Fellow Training

1998- 2022 Pediatric infectious diseases attending: 2 months per year at Texas Children's Hospital (inpatient and outpatient) and 1-2 months per year at Ben Taub General Hospital (inpatient and outpatient), teaching ID fellows rotating in the infectious diseases inpatient service and clinic.

Infectious diseases fellows under my supervision:

2021-2022 (3rd yr) Ana del Valle

2020-2021 (3rd yr) K. Valencia

2019-2020 (2nd yr) D. Niles, K. Valencia

2018-19 (1st yr) S. Ikeda, K. Valencia, (3rd yr) R. Roachat

2017-18 (1st yr) R. Roachat, (2nd yr) G. Lamb, (3rd yr) D. Ruderfer

2016-17 (1st yr) G. Lamb, (2nd yr) D. Ruderfer, C. Foster, (3rd yr) E. Nicholson

2015-16 (1st yr) D. Ruderfer, C. Foster; (2nd yr) M. Chaudhary; (3rd yr) K. Josefsdottir, J. Dailey-Garnes.

2014-15 (1st yr) M. Chaudhary, E. Nicholson; (2nd yr) K. Josefsdottir, J. Weatherhead; (3rd yr) L. Olarte, L. Sweet

2013-14: (1st yr) K. Josefsdottir, L. Olarte, Chiang, S; (2nd yr) L. Sweet.

2012-2013: (1st yr) L. Hatzenbuehler, L. Sweet.

2011-2012: (1st yr) J. Crews, (2nd yr) S. Thacker

2010-2011: (1st yr) S. Thacker, (2nd yr) J. McNeil, (3rd yr) A. Flores, (Hospital Medicine Fellow) J. Nead

2009-2010: (1st y) J. McNeil, Claire Bocchini, (3rd y) G. Oramasionwu

2008-2009: (1st y) A. Flores, A. Duttha, (2nd y) M. Carrillo, L. Castagnini, (3rd y) F. Levent.

2007-2008: (1st y) G. Oramasionwu, (2nd y) F. Levent, F. Laham, (3rd y) V. Goytia, A. Bartlett

2006-2007: (1st y) L. Arnal, F. Laham, F. Levent (2nd y) D. Huyn, V. Goytia, A. Bartlett (3rd y) A. Cruz, P. Pannaraj.

2005-2006: (1st y) D. Huyn, V. Goytia, A. Bartlett, (2nd y) A. Cruz, P. Pannaraj, (3rd y) N. Patel.

2004-2005: (1st y) P. Pannaraj, A. Cruz, (2nd y) N. Patel, (3rd y) H. Hardarson.

2003-2004: (1st y) N. Patel, (2nd y) A. Cazacu, S. Wooton, H. Hardarson, (3rd y) D. Palazzi.

2002-2003: (1st y) A. Cazacu, H. Hardarson, S. Wooton, (2nd r) D. Palazzi, (3rd y) G. Hunt, M. Healy.

2001-2002: (1st y) S. Sickler, D. Palazzi, (2nd y) G. Hunt, M. Healy, (3rd y) R. Amaya, A. Mishaan.

2000-2001: (1st y) G. Hunt, M. Healy, (2nd y) A. Mishaan, (3^r y) C. Sattler.
1999-2000: (1st y) A. Mishaan, (2nd y) D. Noyola, (3rd y) F. AIDossary.

Research Fellow Mentoring:

- K. Madison, Physician Assistant Program, Baylor College of Medicine. Master thesis project Mentor 2019-2020. Primary research mentor. Project on Infantile Dengue in Rural Guatemala.
- N. Vielot, PhD, Post-doctoral Research Associate, Department of Family Medicine, University of North Carolina at Chapel Hill. 2019-2020. K01 application.
- S. Hassan, MD. Hepatology Fellow. Baylor College of Medicine. 2019-2020. Primary research mentor. Project on infections after liver transplantation and Adenovirus infections.
- C. Onyearugbulem, Critical Care Fellow, Baylor College of Medicine. 2015-2017. Primary Research Mentor. Research project on influenza and bacterial infections in pediatric lung and heart transplant patients. Various manuscript publications and abstract presentations 2018-2020. Award winner 2018 ACT meeting and First Place for original research winner at the Texas Pediatric Society Meeting, 2018.
- K. Hannegan, Physician Assistant Program, Baylor College of Medicine. Master thesis project Mentor 2015-2016. Impact of influenza in pediatric lung and heart transplant recipients.
- L. Palomeque, Physician Assistant Program, Baylor College of Medicine. Master thesis project Mentor 2015-2016. C. difficile in pediatric solid organ transplant patients.
- R. Arasaratnam, Fellow in Adult Infectious Diseases, Baylor College of Medicine. 2015-2016. Project on T-cell function in pediatric liver transplant patients. Manuscript published 2018.
- K. Mysore, fellow in Gastroenterology, Baylor College of Medicine. 2015-2018. Project on HHV-6 infections in pediatric liver transplant patients. Manuscript draft.
- S. Boeker, Physician Assistant Program, Baylor College of Medicine. Master thesis project mentor 2014-15. Adenovirus infections in pediatric lung transplant recipients at Texas Children's Hospital. Winner 3rd place poster award of her PA graduating class.
- A. Neubert, Physician Assistant Program, Baylor College of Medicine. Master thesis project mentor 2014-15. Evaluation of survival and mortality outcomes in pediatric lung transplant recipients at Texas Children's Hospital.
- A. Hause, PhD candidate. Baylor College of Medicine Translational Biology and Molecular Medicine Graduate (TBMM) Program. 2013-2016. Development of a RSV vaccine for pregnant women. Manuscript published 2018.
- A. Wilking, Physician Assistant Program, Baylor College of Medicine. Master thesis project mentor 2012-2013. Characterization of Central Nervous System (CNS) manifestations in patients with 2009 pandemic H1N1 influenza. Research completed. First place winner of PA program project presentations. Manuscript published 2014.
- L. Castagnini, fellow in Pediatric Infectious Diseases. Baylor, Research mentor 2007-2008. Study on pertussis in Hispanic children and adolescents, and Pertussis in neonates. Manuscript Published 2010.
- L. Arnal, fellow in Pediatric Infectious Diseases, Baylor. Research mentor 2006-2007. Study on the epidemiology of pertussis in Houston, TX. Manuscript submitted 2010.
- LD. Hite, fellow in Pediatric Critical Care, Baylor. Research mentor 2002-2003. Development and completion of study on influenza in children during the resurgence of the Victoria lineage of influenza B, Manuscript published in 2006 (electronic) and 2007 (print).
- J. O'Donnell, student UT School of Public Health. Thesis mentor 2000-2002. Research project on influenza in children during the emergence of a new A/H3N2 virus variant. Published 2003.

Junior Faculty Mentoring:

- AM. Rick, University of Pittsburgh, Pediatric Infectious Diseases. Project on RSV Maternal Immunization. 2024-Current

- M. Garcia, Texas Children’s Hospital and National School of Tropical Medicine. Project on 2009 H1N1 influenza in children at TCH, 2013-14. Manuscript published 2015.
- S. Wallace, TCH Pediatric Hospital Medicine. Project on Health Literacy and Readiness for Discharge in patients with Pertussis, Texas Children’s Hospital, 2011-2016.

Resident Mentoring:

- C. Peek. Baylor pediatric resident, MD-PhD, Department of Pediatrics Pediatrician-Scientist Residency Program– 2022-current
- M. de la Cruz Bonilla. Baylor pediatric resident, MD-PhD, Department of Pediatrics Pediatrician-Scientist Residency Program– 2019-2023
- R. Deniskin. Baylor pediatric resident, MD-PhD, Department of Pediatrics Pediatrician-Scientist Residency Program– Residency Education Mentor - 2016-2018
- C. Henderson. Baylor pediatric resident. Research project. 2018-2020.
- S. Hong, Baylor pediatric resident. Faculty advisor, 2006-2009.
- L. Arnal, Baylor pediatric resident. Faculty advisor, 2003-2006.
- E. Mouchachoir, Baylor pediatric resident. One month research elective in 2003.

Medical Student Mentoring

- S. Rendell. Perelman School of Medicine U. Pennsylvania MD/PhD in Anthropology student. Three week rotation at Baylor pediatric and adult infectious diseases services, January 2020.
- A. McCathern. BCM Medical Student. Mentoring for project on acceptance of vaccines during pregnancy and development of case definition for the assessment of neurodevelopmental delay as adverse event after maternal immunization (GAIA project). Applied and received award from the 2018 Medical Scholars Program of the IDSA.
- J.Kohler. BCM Medical Student. Mentoring for project on respiratory viruses in liver transplant patients leading to HAT (published) and study on varicella and measles titers in liver transplant recipients (abstracts presented, manuscript in preparation).
- Baylor Pediatric Student Association (BPSA) Shadowing Program – Accepted 6 students during the weeks of October 12-23, 2015
- G. Bohn, visiting medical student from Germany, 2001. Elective rotation in pediatric infectious diseases for 1 month and preparation and submission of case report and review of the literature published in 2004.
- A. Bavare; Baylor medical student, 1998. Mentoring to do a retrospective chart review on adenovirus infections in hospitalized children and creation of a database. Results presented at national meeting 1999.

Preceptorship

- 2020 G. Herrera, Vanderbilt University School of Nursing, Advance Nurse Practitioner
- 2019 Moderator/faculty leader – Post-Doc Responsible Conduct of Research, BCM
- 2019 Preceptor to L. Petters, Texas Tech School of Nursing, Advance Nurse Practitioner
- 2019 Preceptor to K. Hillman, Vanderbilt University School of Nursing, Advance Nurse Practitioner
- 2019 Preceptor to F.Nguyen, AP Captstone research project.
- 2018 Preceptor to A. Aaronson, Vanderbilt University School of Nursing, Advance Nurse Practitioner
- 2015 Preceptor to M. Jackson RUSH University Acute Care Nurse Practitioner Master Program
- 2015 Preceptor to M. Happe Texas Tech. University Health Sciences Center School of Nursing
- 2007-2010 Preceptor Honors Premedical Academy – Pre-med college students rotating at Texas Children’s Hospital and Baylor College of Medicine during the summer.

International Scholarship

2024 Mentor NIH Fogarty INSIGHT Application, Kamaka Kassimu, PhD, Research Scientist at Ifakara Health Institute, Tanzania. Research project: Exploring Stakeholder Perspectives on Developing a Specific Ethical and Regulatory Framework for Herbal Remedy Clinical Trials in Tanzania: A Step Towards Identifying and Evaluating safety and efficacy of Antimalarial Herbal Remedies.

2020 External examiner, PhD thesis requested by Shabir Madhi. Thesis: "Measuring Epidemiology and Sero-Correlates of Protection Against severe Respiratory Syncytial Virus (RSV) Associated Hospitalisation in HIV Exposed and Unexposed South African Children", by Yasmeen Agosti, University of the Witwatersrand, Johannesburg, South Africa.

2017 Member, PhD Thesis Review Committee, requested by Elke Leuridan and Pierre van Damme. Thesis: Pertussis vaccination during pregnancy: Scientific evidence behind the recommendation. Dissertation for the degree of doctor in the Medical Sciences at the University of Antwerp, by Kirsten Maertens, University of Antwerp, Belgium.

2016 Member, PhD Thesis Review Committee, requested by Nicholas de Klerk. Thesis: Seasonal influenza vaccination in pregnant women: Evaluating vaccine uptake, safety and effectiveness in Western Australia" by Annette Regan, The University of Western Australia.

D. LECTURES

Invited Lectures

International

1. "A new era of RSV prevention: All infant protection with Nirsevimab – Real world evidence and impact" and "RSV prevention: Maternal Immunization". Congreso de la Sociedad Chilena de Pediatría, Concepcion, Chile, 27-28 November, 2024.
2. "Where do we stand with RSV and COVID-19 prevention in children" and "Group B Streptococcus Vaccines Update". Congreso Nacional de Infectología Pediátrica, Montevideo, Uruguay, November 21-23, 2024.
3. "RSV Prevention: A combined strategy". Observatorio LATAM, Santiago, Chile, 19 November, 2024.
4. "Protecting mother and baby through maternal immunization: A new paradigm"; and "Maternal Immunization impact on public health". Balmis Vaccinology Course, Almeria, Spain, 07 November, 2024.
5. "RSV Prevention Strategies". South Adelaide Vaccinology Conference, Adelaide, Australia, 01 November, 2024.
6. "RSV prevention in infants through maternal immunization". Sociedad Peruana de Obstetricia y Ginecología, Curso de Vacunas. Peru, October 26, 2024.
7. "Prevention of infections in infants through maternal immunization". VAC-LATAM Course, October 24, 2024.

8. "Updates on respiratory disease caused by influenza, RSV and COVID-19" and "Pertussis reemergence post-pandemic". XXI Congreso Internacional de Pediatría, Merida, Yucatan, October 10-12, 2024.
9. "RSV Prevention in Pediatrics" Centro de Estudios en Salud, Universidad del Valle de Guatemala, 02 October, 2024, Guatemala.
10. "RSV and COVID-19 prevention in infants: Maternal Immunization", Sociedad Peruana de Enfermedades Infecciosas y Tropicales, 26 September, 2024, Peru
11. "Maternal immunization: Implications for research and public health", PEIVAP course, Florida International University, Miami, Florida, 23 September, 2024.
12. "Maternal Immunization" and "Vaccines for Dengue and Malaria", ESPID Summer School in Vaccinology, Athens, Greece, 16-19 September, 2024.
13. "A new era of RSV prevention for ALL infants: monoclonal antibodies", 23rd congress of the Federation of Asia and Oceania Perinatal Societies (FEOPS), Seoul, South Korea, September 6, 2024.
14. "Maternal Immunization as a public health intervention", Global Health Conference of the Americas, Florida International University, Miami, Florida, 03 September, 2024.
15. "Updates in RSV and GBS prevention through maternal immunization", Federación Colombiana de Asociaciones de Perinatología y Medicina Materno Fetal – FECOPEN. Colombia, August 10, 2024.
16. "Overview of pertussis, pathogenesis, diagnosis and management"; "Pertussis vaccination in pregnancy" and "Assessment of safety of vaccines in pregnancy", EMPHNET meeting, Amman, Jordan, August 5-8, 2024.
17. "Emerging and re-emerging infections in the post-COVID-19 pandemic era" Keynote lecture, and "Maternal Immunization" XVIII Congreso Internacional Infectología Pediátrica, July 30-August 2, 2024, Cali, Colombia.
18. "Maternal Immunization" and "RSV Prevention Strategies", Asociacion Guatemalteca de Enfermedades Infecciosas, July 8-11, Guatemala City, Guatemala.
19. "RSV Prevention – Combined Strategy" and "RSV Prevention Symposium". National Conference on Immunization (NCID), June 12-15, Brisbane, Australia.
20. "Impact of immunization against respiratory viruses" and "RSV Maternal Immunization", Asociacion Colombiana de Infectología y Virología, May 30-June 1, 2024, Bogota, Colombia.
21. "RSV prevention through maternal immunization". Asociacion Pediatrica de El Salvador, May 30, 2024, San Salvador, El Salvador.
22. "Maternal Immunization" Curso de Vacunología, Universidad de Chile, May 29, 2024.
23. "Maternal Immunization Schedules", Invited presentation at ESPID, May 23, 2024, Copenhagen, Denmark.

24. "Impact of maternal immunization on prevention of infant respiratory infections", invited presentation, SLIPE Latin American Symposium at ESPID, May 20, 2024.
25. "COVID vaccination in Pediatrics and Pregnancy", and "RSV Maternal Immunization", CONAPEME, May 16-17, 2024, Guadalajara, Mexico.
26. "Causality assessment of AEFMI", presented at GACVS WHO Meeting, May 16, 2024, Geneva, Switzerland.
27. "Maternal and Neonatal Safety Post-COVID-19 Vaccination Study". Global Vaccine Data Network Meeting, April 22-15, 2024, Annecy, France.
28. "Vaccine Associated Enhanced Disease (VAED) Brighton Collaboration Case Definition", Panamerican Health Organization (PAHO), Dengue vaccine implementation meeting, April 11, 2024.
29. "RSV Prevention in the US: Recommendations and Implementation" IV Seminario Observatorio VRS LATAM, March 28, 2024 (Virtual).
30. "The Safety Platform for Emergency Vaccines (SPEAC) remit and workplans", International Neonatal and Maternal Immunization (INMIS) meeting, March 11-14, 2024, San Jose, Costa Rica.
31. "The burden of RSV disease in children", Asociacion Mexicana para el Estudio de las Infecciones Nosocomiales (AMEIN), March 8, 2024, Mexico
32. "RSV prevention: Maternal Immunization", Jornadas de Prevencion de Virus Respiratorios, Sociedad Argentina de Pediatria, March 5, 2024 (virtual).
33. "New RSV vaccines and antibodies for prevent disease in infants". Invited speaker at the National Center for Immunization Research and Surveillance (NCIRS) Webinar on RSV prevention, Australia, 26 Feb 2024.
34. "Vaccine Safety in Pregnancy" Global Vaccine Data Network (GVDN) members meeting, February 26, 2024 (virtual).
35. "RSV Vaccine in pregnancy: Recommendations and systemic strategies", and "Efficacy and Effectiveness of Maternal Immunization for RSV", invited speaker Sociedad Latinoamericana de Infectologia Pediatrica (SLIPE) - defining recommendations and position meeting, February 22, 2024, Buenos Aires, Argentina,
36. "Maternal Immunization" Institut Pasteur Vaccinology Course, February 15, 2024, Paris, France.
37. "Maternal Immunization Safety Studies", Global Vaccine Data Network Quarterly Forums, webinar, February 12, 2024
38. "Prevention of RSV in Pediatrics", "Surgical prophylaxis and the rational use of antibiotics", XXVI Congreso Interamericano de Pediatria, Asociacion del Hospital Infantil Privado, January 24-26, 2024 Mexico City, Mexico
39. "Safety assessment in maternal immunization", Maternal Immunization Safety Surveillance Meeting organized by the Bill and Melinda Gates Foundation, December 6-7, 2023, Windsor, UK

40. "RSV Prevention in Pediatrics: Current Options", XLI Congreso Interamericano de Infectologia Pediatrica, Asociacion Mexicana de Infectologia Pediatrica (AMIP), November 30, 2023, San Luis Potosi.
41. "Updates in the prevention of RSV", Asociacion Espanola de Vacunologia, November 27, 2023.
42. "Pertussis prevention in Pediatrics", "Influenza Updates", "RSV Prevention through Maternal Immunization", XXI Congreso Latinoamericano de Infectologia Pediatrica (SLIPE), October 30-Nov 2, 2023, San Jose, Costa Rica
43. « COVID-19 Current Epidemiology and Vaccination», and "Influenza Updates in Treatment and Prevention", 3r Congreso Internacional y XII Estatal de Pediatria, October 26-28, 2023, Veracruz, Mexico.
44. "GBS vaccines in pregnancy" Maternal Immunization Session, ID Week, October 11-15, 2023, Boston, MA.
45. « RSV prevention in Pediatrics », Vaccine Annual Meeting, Glasgow, Scotland, September 22-27, 2023.
46. "Maternal Immunization", Programa de Entrenamiento Intensivo en Vacunologia y sus Politicas (PEIVAP) course, September 25-29, 2023.
47. « Maternal Immunization, realities and challenges, present and future», Global Health Conference of the Americas, September 13-15, Cartagena, Colombia.
48. "Maternal Immunization" Lecture and Case Study, International Vaccine Institute, Vaccinology Course, September 22-25, Seoul, South Korea.
49. "The importance of inclusion in research". Universidad Autonoma de Monterrey, Colegio de Pediatria de Monterrey, July 12-15, Monterrey, Mexico.
50. "Maternal and infant immunization". Universidad de Chile, Vaccinology Course. May 31, 2023.
51. "Maternal-neonatal vaccination: Challenges in AEFI/AESI surveillance during pregnancy", invited speaker at the First Regional Meeting for the Americas on Vaccine Safety, organized by PAHO, 14 April 2023, Bogota, Colombia.
52. "What is new on RSV prevention?", "Infections in pediatric transplantation", and "Maternal Immunization: Impact on vaccine preventable infections in the newborn" - invited lectures and meet the professor discussion at the Sociedad Argentina de Infectologia Pediatrica Annual Meeting, Buenos Aires, Argentina, 12-14 April, 2023.
53. "Vaccination in Special Populations and the COVID-19 Pandemic", and "Maternal Immunization" Institut Pasteur Vaccinology Course, COVID-19 Symposium, invited lecture and panel discussion, February 28, 2023, Paris, France.
54. "Priorities for maternal immunization after the COVID-19 pandemic: COVAX-CEPI-SPEAC", IMPRINT meeting, February 6-8, Kingston upon Thames, UK.

55. "COVID-19 in pregnancy: Immunization in pregnancy and lactation"; and "Updates in pediatric influenza prevention and antiviral treatment", XXV Congreso Interamericano de Pediatría, Ciudad de Mexico, Mexico, 26-27 January, 2023
56. "Vaccination in Pregnancy: What are we missing?", Global Health Conference of the Americas, Florida International University, Miami, FLA, November 30, 2022.
57. "Infant protection through maternal immunization and acceptance; patient perspective", COGI meeting Amsterdam, The Netherlands, 25 Nov, 2022.
58. "Vacunación contra influenza a lo largo de la vida". XL Congreso Latinoamericano de Infectología Pediátrica, Nov 16-19, 2022, Guadalajara, Mexico.
59. "Our linked lives and the importance of high vaccination coverage". Panamerican Health Organization (PAHO) meeting, virtual, Nov 10, 2022.
60. "Priorities for maternal immunization after the COVID-19 pandemic", Bill and Melinda Gates sponsored meeting on Maternal Immunization, Seattle, Washington, November 8-9, 2022.
61. "Vaccines for pregnancy and early life", International Vaccine Institute Vaccinology Course, Karolinska Institute, Stockholm, Sweden, Sept 28, 2022.
62. "Vaccines in pregnancy, newborns and infants", Programa de Entrenamiento Intensivo en Vacunología y sus Políticas (PEIVAP) Course, Miami, Florida, Sep 21, 2022.
63. "Pediatrics SARS-CoV2 Vaccination", XIX Congreso Internacional de Pediatría, Merida, Mexico, September 16, 2022.
64. « COVID-19 vaccines in the pediatric population », monthly educational program for pediatricians, Monterrey, Mexico, 25 Aug 2022.
65. "Clinical trials in vulnerable populations: Study design and ethical considerations", International Vaccine Institute Course of Vaccine Manufacturing Capacity Building, Seoul, South Korea, July 22, 2022
66. « COVID-19 vaccine in the pediatric population », Congreso Nacional de Pediatría, Mexico City, Mexico, Jul 28, 2022.
67. « Respiratory Syncytial Virus », University of Siena – Master in vaccinology and drug development course, July 04, 2022 (virtual).
68. "Maternal Immunization", University of Chile, Vaccinology Course, June 1, 2022 (virtual)
69. « Maternal immunization, a strategy for infant protection », Sociedad Latinoamericana de Infectología Pediátrica (SLIPE) – The first 1,000 days meeting – 23-25 May, 2022, Mendoza, Argentina
70. « Maternal Immunization Research: A story of determination, advocacy, and collaborative work », Invited Lecture at the ESPID Masterclass, May 14, 2022, Athens, Greece.
71. « COVID-19 vaccines in the pediatric population », Congreso de Pediatría de Nuevo Leon, Monterrey, Mexico, 30 April 2022.

72. “Status of COVID and RSV Maternal Vaccine Approaches”, Plenary, World Vaccine Congress, Washington, DC, 21 April 2022.
73. “Novel methods in vaccine safety surveillance for detecting rare adverse events in special populations”, World Vaccine Congress, Washington, DC, 20 April 2022.
74. “Maternal Immunity Symposium: New Developments and Updates in Maternal Vaccines”, World Vaccine Congress, Washington, DC, 20 April 2022.
75. “Lessons Learned from COVID-19”, Bill and Melinda Gates Foundation Maternal Immunization Partners Meeting: Pre-implementation priorities over the next 5 years. March 22-23, 2022 (virtual)
76. « Pediatric Complications of COVID-19 », El Salvador Pediatric Hospital Symposium, 02 March 2022 (virtual)
77. “Maternal Immunization”, Institut Pasteur Vaccinology Course, Paris, France, February 2022 (virtual)
78. “Maternal Immunization”, Immunization Partners in Asia Pacific (IPAP), February 2022 (virtual)
79. « COVID-19 Vaccines in the Pediatric Population », Regional Pediatric Society Meeting, Puebla, Mexico, February 2022 (virtual)
80. “Prevencion de la influenza en edad escolar », Mexico, 19 Feb 2022 (virtual).
81. « Maternal COVID-19 and Vaccination Strategies” and “COVID-19 pandemic and pediatric respiratory viruses”, XXIV Congreso Internacional de Pediatría, Mexico City, Mexico, 26-28 January, 2022.
82. “Where are we in the fight against COVID-19?” ESWI 2021 Symposium, 05 Dec 2021 (virtual)
83. “Influenza epidemiology and prevention in a post-COVID world”, and “Pediatric complications of COVID-19, MISC” SLIPE, Cartagena, Colombia, 03-04 Dec 2021.
84. “Implementation of RSV vaccination in a post-COVID world”, RESVINET Symposium, November 2021 (virtual)
85. “Lessons learned and new data on post-approval and effectiveness studies of the COVID-19 vaccine in pregnant women”, ISSAD meeting, November 2021 (virtual)
86. “Red Book Updates 2021-2024” and “RSV prevention in a post-COVID world”, SLEPE Meeting, Asuncion, Paraguay, November 2021 (virtual)
87. “The future of maternal immunization”, The International Federation of Gynecology and Obstetrics (FIGO) Annual Meeting, October 2021 (virtual)
88. “Maternal and infant COVID-19 vaccination strategies”, October 2021, Argentina (virtual)
89. “COVID-19: Impact on Pediatric respiratory viral disease”, Puebla Pediatric Hospitals Educational Activity, 30 Sept 2022 (virtual)

90. "COVID-19: Impact on Pediatric respiratory viral disease", Society of Infectious Diseases, Guatemala City, Guatemala, 30 Sept 2022 (virtual)
91. "Maternal Immunization", 20th International Vaccine Institute (IVI) Vaccinology Course, Seoul, South Korea, September 2021 (virtual)
92. "Maternal Immunization", Sanofi Symposium, 24 Sept 2021, Colombia
93. "COVID-19 in the pediatric population: what providers need to know", Regional Pediatric Society Annual Meeting, Merida, Mexico, 16 Sept 2021 (virtual)
94. "COVID-19 in the pediatric population: Current state of affairs", Pediatric Society Meeting, 02 Sept 2021, Peru
95. "Regreso seguro a clases en pandemia de COVID: Que responder a los padres? 38 Congreso Nacional de Pediatría, Mexico City, 30 July 2021 (virtual)
96. "Maternal Immunization – The mother infant dyad", Vaccine Academy Summit COPAC 2021. June 22-24, 2021 (Virtual)
97. "Pertussis in Infants: the value of maternal immunization", GSK Symposium, May 2021 (virtual)
98. "COVID-19 Global vaccination updates" CONAPEME, Mexico. 08 May 2021 (Virtual)
99. "COVID-19 perspectives: Aspects on Maternal Immunization" Vaccine Virtual Days – GSK Symposium. April 28, 2021 (Virtual)
100. "Outpatient management of COVID-19" and "Management of the hospitalized COVID-19 pediatric patient" and "Nosocomial COVID", Programa de fortalecimiento de cuidados criticos COVID-19, Quito Ecuador, March 14, 2021, March 31, April 14th 2021.
101. "Influenza and COVID-19" Influenza Symposium of the Latin American Society of Pediatric Infectious Diseases (SLIPE), March 24, 2021 (virtual).
102. "Updates in Pediatric COVID-19" Asociacion Panamericana de Otorrinolaringologia Pediatrica, Panama, 13 March, 2021
103. "COVID Vaccines" SISIAC conference, Latin America, March 5, 2021.
104. "Quadrivalent influenza vaccine – Rationale and Benefits", Congreso Paraguayo de Medicina Interna, Paraguay, Feb 26-28, 2021
105. "Vaccination in Pregnant Women" Vaccinology Course of the Institut Pasteur, Paris, France, February 15, 2021.
106. "COVID-19 in children prevention and treatment updates", Curso Internacional de Pediatría, Puebla, Feb 4, 2021
107. "Vaccination in pregnancy: the burden of pertussis infection in young infants", Speaker Academy for OB/GYN physicians, January 2021

108. "COVID-19 Vaccines update" and "Influenza or COVID-19?" – XXIII Congreso Interamericano de Pediatría, Ciudad de Mexico, Mexico, 20-22 January, 2021
109. "The need for harmonized methodology to evaluating SARS-CoV-2 vaccines in pregnancy during pandemic vaccine development", Accelerating access to COVID-19 vaccines for pregnant and lactating women – what do developers need to know? A COVAX Maternal Immunization Working Group Webinar. December 16th, 2020.
110. "Vaccines for emerging infections in pregnant women – perspectives during the pandemic". Current status and future direction of maternal vaccination in sub-Saharan Africa. FIGO Congress, Kigali, Africa. December 13-15 2020.
111. "Vaccination in Pregnancy", "RSV vaccines in development", "Correlates of protection, do they matter?", "Red Book Update", and "Ethics of research during the COVID-19 pandemic". Argentina December 9, 2020
112. "Maternal Immunization". Janssen Live Course in Vaccinology. December 9th, 2020.
113. "Maternal influenza and COVID-19 vaccination" Expert Meeting of the Sociedad Latinoamericana de Infectología Pediátrica (SLIPE) and PAHO. December 04, 2020.
114. "Ethical and clinical challenges associated with maternal immunization studies". World Vaccine and Immunotherapy Congress. November 30-Dec 3, 2020. Virtual.
115. "The latent threats of Influenza and COVID-19 in children" Asociación Mexicana de Infectología Pediátrica (AMIP) annual meeting. November 28, 2020
116. "COVID-19 in Pediatrics Update". Annual Meeting of the Asociación Pediátrica de El Salvador (ASOPEDES), El Salvador, November 20th, 2020.
117. "New perspectives in Maternal Immunization". Congreso Centroamericano y del Caribe de Infectología (ACENCAI), Guatemala, November 19th, 2020
118. "High risk (including pregnant women) vs. universal season influenza vaccination: recognizing the impact of COVID-19 on influenza vaccination, as well as all routine vaccinations, in children and pregnancy women". PAHO and University of Colorado Anschutz Medical Campus Center for Global Health. October 26th, 2020.
119. "Progress with maternal immunization with COVID-19 vaccines in the United States". Prevention of Infections in the Maternal Infant Dyad (PRIMED). University of British Columbia, Vancouver, Canada, October 21, 2020.
120. "The COVID-19 pandemic – what have we learned". Asociación Latinoamericana de Pediatría (ALAPE) y Asociación Pediátrica de Guatemala, October 19, 2020.
121. "Antivirals for COVID-19 in Pediatrics" and "COVID-19 vaccines: what are the options?" XVII Congreso Internacional de Pediatría, Colegio de Pediatras de Yucatan, Merida, Mexico, September 24-27, 2020.
122. "SARS-CoV-2 Vaccine Development", Sanofi Pasteur Vaccine Academy, Mexico City, Mexico, September 17th, 2020.

123. "Universal Influenza Vaccination in Pediatrics" Flu Summit and Interinstitutional Symposium, Mexico City, Mexico, September 10, 2020.
124. "Evaluation of Vaccine Associated Enhanced Disease in Epidemiologic Studies of COVID-19 Vaccines", VAC4EU and SPEAC meeting, global virtual access, September 10, 2020.
125. Safety Tools for COVID-19 Vaccine Development. COVAX – SPEAC global webinar. 27 August, 2020.
126. "COVID-19 Prevention: Update on Vaccine Development". Virtual Symposium: The Importance of Vaccination in times of COVID. Mexican Academy of Pediatrics. July 29, 2020.
127. "Convalescent plasma: Pediatric management of COVID-19". Webinar with Hospital Pediatrico Bloom, San Salvador, El Salvador, July 23, 2020.
128. "Convalescent plasma: role on the management of COVID-19". International Webinar: Updates on COVID-19 in Pediatrics. IPN Asuncion, Paraguay, July 15, 2020.
129. "COVID-19 in Immunocompromised Hosts". International Webinar: COVID-19 in High Risk Children. Organized by Hospital Angeles, Puebla, Mexico, July 13, 2020. Viewed by over 4000 participants.
130. "COVID-19 in Children". International Webinar of the Colombian Pediatric Society. July 6, 2020.
131. "Maternal immunization current concepts and future directions" Vaccine Virtual Days: Vaccination during COVID-19: Extraordinary challenges call for extraordinary connections. June 29-30, 2020.
132. "Maternal and infant immunization in times of COVID-19" Jornadas Virtuales de Vacunacion, Hospital de Ninos R. Gutierrez. Buenos Aires, Argentina. June 24, 2020.
133. "COVID Round Table" Webinar organized by the Panamerican Society of Otorhinolaryngology, May 23, 2020.
134. "Vaccines and Immunity in COVID-19" Webinar organized by Hospital Angeles, Puebla, Mexico, and TCH International, viewed by 5,000 participants in Mexico and Latin America, May 6, 2020.
135. "COVID in Pediatrics" Webinar organized by Universidad del Valle de Guatemala, viewed by 200 participants in Guatemala, April 28, 2020.
136. "Influenza in pregnancy" and "Influenza vaccination in school aged children", Influenza Masterclass, Mexico City, March 3-5, 2020.
137. "Vaccination in Pregnant Women" Vaccinology Course of the Institut Pasteur, Paris, France, February 14, 2020.
138. "Vaccines for pregnancy and emerging infections, case studies", CEPI Workshop on Maternal Immunization against Emerging Infectious Diseases, London, UK, February 12-13, 2020.
139. "Urgent Health Care Challenges for the Next Decade" and "Prevention of Influenza in Pediatrics", XXII Congreso Interamericano de Pediatria, Ciudad de Mexico, Mexico, 22-24 January, 2020.

140. "Live viral vaccines: safety in pregnant women and the fetus", presented at the WHO Consultation meeting Maternal Immunization, Geneva, Switzerland, December 3, 2019.
141. "Vaccines and Vaccine Hesitancy", Universidad de Guadalajara, Guadalajara, Mexico, October 25th, 2019.
142. "Vaccination in Pregnancy" International Vaccine Institute Vaccinology Course, Seoul, South Korea, September 2-6, 2019.
143. "Rational use of influenza vaccination in Pediatrics" and "Influenza prevention in school age children", Congreso de la Sociedad Latinoamericana de Infectología Pediátrica (SLIPE), Cartagena, Colombia, August 7-12, 2019.
144. "Acute Flacid Myelitis – A New Epidemic?" and "Options for RSV Prevention in Infants", Congreso Nacional de Pediatría, Ciudad de Mexico, Mexico, July 23-24, 2019.
145. "Outbreaks of Vaccine Preventable Diseases", "New Vaccines and New Indications", and "Red Book Update", XV Congreso Internacional del Colegio de Pediatría de Nuevo Leon, Monterrey, Mexico, July 11-14, 2019.
146. "RSV Maternal Immunization phase 3 PREPARE study" Invited Speaker: European Center for Disease Prevention and Control (ECDC) Biennial Influenza Meeting, Stockholm, Sweden, June 12-14, 2019.
147. "Infections in pediatric solid organ transplantation", "Red Book Update", "Influenza Challenges in Vaccine Development", Asociación Panamericana de Infectología, Asunción, Paraguay May 29-31, 2019
148. "Maternal Immunization and Novel Approaches to the Prevention of RSV", ADVAC Alumni Meeting, 37th Annual Meeting of the ESPID, Lubjiana, Slovenia, May 7, 2019.
149. "Acute Flacid Myelitis", "Influenza prevention in children", XX Congreso Ecuatoriano de Pediatría de la Sociedad Ecuatoriana de Pichincha, Quito, Ecuador, April 4-6, 2019.
150. "Vaccines in Pregnancy", Seminario de Educación Continua CiberPeds-Conapeme, Consejo Mexicano de Certificación en Pediatría, March 6, 2019.
151. "Vaccination in Pregnant Women" Vaccinology Course of the Institut Pasteur, Paris, France, February 14-15, 2019.
152. "Influenza update for providers: 2018-2019 Influenza" and "Red Book Update", XXI Congreso Interamericano de Pediatría, Mexico City, Mexico, January 25th, 2019.
153. "Gripe: Epidemiología, Tratamiento y Prevención". Hacia la 4a dimensión en la prevención de gripe, Buenos Aires, Argentina, October 30, 2018.
154. "Influenza Vaccine: What are the challenges?" and "Maternal Immunization: Current status and future directions", Vaccinology 2018, XI International Symposium for Latin American Experts, organized by Fondation Merieux and the Latin American Society for Pediatric Infectious Diseases (SLIPE), Panama, October 17-19, 2018

155. “Maternal Immunization” Programa Respira, Buenos Aires, Argentina, September 28, 2018.
156. “Maternal and Neonatal Outcomes with Maternal Immunization”, Workshop cum Expert Review Meeting on Maternal Immunization. New Delhi, India, September 10, 2018.
157. “Red Book Update” and “Severe Influenza in Pediatrics: Management and Prevention”. ALAPE (Asociacion LatinoAmericana de Pediatria) Annual Meeting, Asuncion, Paraguay, September 7, 2018.
158. “Vaccination in Pregnancy” International Vaccine Institute Vaccinology Course, Seoul, South Korea, September 4, 2018.
159. “Impacto en la prevencion de neumonia” and “Prevencion de infecciones virales en los primeros meses de vida”. XX Congreso del Colegio Estatal de Pediatria. Oaxaca, Mexico, August 9-10, 2018.
160. “Viral infections and Pneumonia in Children”, “Opportunistic Infections in Special Populations”, and “Nuevos Horizontes en Vacunacion: Protegidos desde el Nacimiento”, Taller de Infectologia Pediatrica, and III Curso de Verano del Instituto Hispalense y el Instituto Andaluz de Pediatria, IHP, Sevilla, Spain, June 29-30, 2018.
161. “Vaccination in Pregnancy: RSV Vaccines. Are we there yet?” Immunisation for all: Gains, gaps and goal, 16th Australian National Immunisation Conference, Adelaide, Australia, June 5-7, 2018.
162. “Influenza Update” “Respiratory infections in Children”, “Vaccination in Pregnancy to Protect the Newborn”, Acapulco, Mexico, May 21, 2018.
163. “The GAIA project” Stakeholder Meeting to Align on Maternal Interventions Vigilance (MIV) Harmonization in LMICs, Amsterdam, Netherlands, May 1-2, 2018
164. “Implementation Science Learnings from Maternal and Neonatal Tetanus Immunization”, Allies in Maternal and Newborn Care: Strengthening Services through Maternal Immunization, Amsterdam, Netherlands, May 1-2, 2018
165. “Vaccination in Pregnancy: Lessons Learned”, MIM Pan African Malaria Conference, Dakar, Senegal, April 16, 2018
166. “Vaccination in Pregnant Women” Vaccinology Course of the Institut Pasteur, Paris, France, February 16, 2018.
167. “The Zika Epidemic in America” and “Influenza Update 2018”, XX Congreso Interamericano de Pediatria, Ciudad de Mexico, Mexico, February 1-2, 2018
168. “Frequent questions on Immunization: A Round Table”, “Present and Future of Maternal Immunization: Prevention before birth”. XIV Jornadas de Actualizacion en Vacunas, Instituto Balmis, Almeria, Spain, November 9-10, 2017
169. “Importance of Maternal Immunization to reduce vertical transmission of B. Pertussis”. Curso Internacional de Pediatria del Colegio de Pediatras de Yucatan, Merida, Mexico, September 28-30, 2017.

170. "Maternal Immunization" ISGlobal – Invited Professor, Universidad de Barcelona, Spain, September 15, 2017
171. "Maternal Immunization: Promises and Concerns" – Symposium of the Agence Federale des Medicaments et des Produits de Sante (AFMPS), Brussels, Belgium, September 8, 2017.
172. "Infections in Pediatric Transplantation". Samsung Medical Center, Seoul, Korea, September 4, 2017.
173. "Vaccination in Pregnancy" International Vaccine Institute Vaccinology Course, Seoul, South Korea, September 5, 2017.
174. "Immunization updates from the AAP", and "Maternal immunization to prevent infections in newborns" XIII Congreso de la Federacion Pediatrica del Sureste y del Colegio de Pediatria del Estado de Oaxaca, Oaxaca, Mexico, August 10-12, 2017
175. "Immunization during Pregnancy" – Pregnancy and Neonate Symposium of the European Society for Pediatric Infectious Diseases (ESPID) 35th Annual Scientific Meeting, Madrid, Spain, May 23-27, 2017.
176. "Maternal Immunization for the prevention of infections in newborns" and "RSV: Options for treatment and prevention". XVI Congreso Nacional de Pediatria de Mexico (CONAPEME), Guadalajara, Mexico, April 27-28, 2017
177. "Influenza Vaccination" Keynote lecture, Quadrivalent influenza vaccine launch event, Santiago de Chile, March 23rd, 2017.
178. "Vaccination in Pregnant Women" Vaccinology Course of the Institut Pasteur, Paris, France, March 3, 2017.
179. "Current research in maternal immunization" Royal Society Theo Murphy meeting: reducing neonatal infections morbidity and mortality: joining up our thinking. Buckinghamshire, UK, February 13-14, 2017.
180. "RSV: updates on epidemiology, prevention and treatment", "2017 US Immunization Schedule Updates", and "Immunization Round Table" XIX Congreso Interamericano de Pediatria, Instituto Nacional de Pediatria y Asociacion Mexicana de Pediatria, Mexico City, Mexico, January 25-27, 2017.
181. "Maternal Immunization" Annual meeting of the International Society for Vaccines (ISV), Boston, MA, October 2-4, 2016
182. "Maternal Immunization Symposium", International Vaccine Institute (IVI) 16th, Vaccinology Course, Seoul, Korea, September 26-30, 2016.
183. "Maternal vaccination against RSV infection" Global Experts Meeting (GEMS) and 6th International Congress on Clinical Neonatology (ICCN2016), Torino, Italy, September 21-24, 2016.
184. "Influenza, why is it important to vaccinate children?" and "RSV update on epidemiology, prevention and treatment strategies". V International Pediatrics Update Symposium. Cartagena, Colombia, July 6-9, 2016.

185. "Maternal Immunization" Invited Faculty, Institut Pasteur School of Infectology, Pasteur-CNAM School of Public Health Vaccinology Course, Paris, France, March 3rd, 2016
186. "RSV prevention and treatment strategies" XXXIV Congreso Nacional de Pediatría, CONAPEME, Cancun, Mexico, April 23-16, 2016.
187. "Vaccination strategies for the protection of pregnant women and their babies against viral respiratory diseases", U.S. – Japan Cooperative Medical Sciences Program (USJCMSP) 50th Anniversary Celebration and 18th International Conference on Emerging Infectious Diseases (EID) Rockville, MD, January 11-14, 2016.
188. "Burden of influenza in children and rationale for prevention" Influenza Master Class, Organized by Sociedad Latinoamericana de Infectología Pediátrica (SLIPE) Montevideo, Uruguay, October 27- 29, 2015
189. GAIA Project Session – Stillbirth Case Definition. XII FIGO World Congress of Obstetrics and Gynecology. Vancouver, Canada, October 4-9, 2015.
190. "RSV Prevention and Treatment Updates", "Maternal Immunization to protect young infants", Congreso Internacional de Neonatología, Guatemala City, Guatemala, September 10-11, 2015
191. "Update on Vaccines", "Maternal Immunization", "Pertussis immunity and rationale for maternal immunization", and "Outbreak control". Invited speaker. XII Congreso Internacional de Pediatría del Colegio de Pediatría de Nuevo Leon; Monterrey, Mexico, July 8-10, 2015
192. "Maternal Immunization" Invited Faculty, Institut Pasteur School of Infectology, Pasteur-CNAM School of Public Health Vaccinology Course, Paris, France, March 8th, 2015.
193. "Vaccine Recommendations Update" and "Maternal Immunization for the Prevention of Pertussis"; Invited Faculty at the Curso Internacional de Pediatría 2015; Hospital Angeles, Puebla, Mexico, February 5-7, 2015.
194. "Influenza in Children" and "Lessons learned from recent outbreaks" Congreso Internacional de Neonatología y Pediatría, Guatemala City, Guatemala, September 17-19, 2014.
195. "Burden of influenza in children and rationale for prevention" Influenza Master Class, Mexico City, Mexico, August 27, 2014.
196. "Immunization in Special Populations: Focus on Maternal Immunization", Advanced Vaccinology Course, International Vaccine Institute, Seoul, South Korea, May 16th, 2014.
197. "Update on Childhood Immunizations" and "Maternal Immunization to Prevent Infant Disease", Invited speaker, Congreso Nacional, CONAPEME, Mazatlan, Mexico, April 4-6, 2014.
198. "Maternal Immunization" Invited Faculty, Institut Pasteur School of Infectology, Pasteur-CNAM School of Public Health Vaccinology Course, Paris, France, March 7th, 2014.
199. "Safety and immunogenicity of Tdap immunization during pregnancy and effect on infant responses to DTaP vaccine", invited speaker, SAGE Pertussis working group, WHO, Geneva, February 12, 2014.

200. "Interactive cases on viral infections in children", "Immunizations during pregnancy", and "Influenza Update on Vaccines and Recommendations for 2013-14 season", Annual Pediatrics Meeting and Congreso de Antimicrobianos y Vacunas, Acapulco, Mexico, November 6-8, 2013.
201. "Changes in influenza vaccine and recommendations for the 2013-14 influenza season". XXV Annual Meeting of the Mexican Academy of Pediatrics "La Academia Opina" – Mexico DF, Mexico, October 3, 2013.
202. "Loss of immunity against pertussis and acellular pertussis vaccines: changes in pertussis epidemiology". XXV Annual Meeting of the Mexican Academy of Pediatrics "La Academia Opina" – Mexico DF, Mexico, October 3, 2013.
203. "Immunization of pregnant women and infant protection" Invited Faculty, Institut Pasteur School of Infectology, Pasteur-CNAM School of Public Health Vaccinology Course, Paris, France, March 8th, 2013.
204. "Current recommendations on immunization of pregnant and breastfeeding women"; 2nd International Neonatal and Maternal Immunization Symposium meeting, Antalya, Turkey, March 1-3, 2013.
205. "Maternal immunization to prevent infant influenza and pertussis", "Neonatal Sepsis", and "Fungal Infections in Newborns". 25 Curso de Neonatología y Perinatología, Guatemala City, Guatemala, September 19-21, 2012.
206. "Vaccines in pregnancy" Invited Faculty, Institut Pasteur School of Infectology, Pasteur-CNAM School of Public Health Vaccinology Course, Paris, France, March 8th, 2012.
207. "HSV infection in mothers and neonates" and "Special cases for immunizations", IV Congreso Internacional de Pediatría, Hospital Angeles, Puebla, Mexico, February 9-11, 2012.
208. "Safety of influenza vaccine in pregnancy" Bill and Melinda Gates Foundation, Maternal Influenza Immunization: Evidence, Policy Consideration, and Action Plan, June 2-3, 2011 London, England.
209. "Vaccination during pregnancy" Invited Faculty, Institut Pasteur School of Infectology, Pasteur-CNAM School of Public Health Vaccinology Course, Paris, France, March 8th, 2011.
210. "Catheter related infection in newborns and children", XIII Congreso Interamericano de Pediatría, Mexico DF, Mexico, January 26, 2011.
211. "Influenza A (H1N1) vaccine in pregnant women". 6th WHO Meeting on Evaluation of Pandemic Influenza Vaccines in Clinical Trials, Geneva, Switzerland, February 18-19, 2010.
212. "Update on influenza and the H1N1 pandemic", XI Congreso de Pediatría, San Luis Potosí, Mexico, February 19, 2010.
213. "Vaccination during pregnancy and infant protection" Invited Faculty, Institut Pasteur School of Infectology, Pasteur-CNAM School of Public Health Vaccinology Course, Paris, France, March 4th, 2010

214. "Seasonal and Pandemic Influenza", "Nosocomial Infections in Pediatrics" and "Nosocomial Infections in the NICU", IX Encuentro Pediatrico Internacional, Hospital Herrera Llerandi, Guatemala City, Guatemala, September 24-25, 2009.
215. "Pandemic influenza", "Diagnosis and Treatment of Pertussis in Children", and "Diagnosis of congenital viral infections", Invited Speaker, IX Reunion Nacional de Pediatria, Acapulco, Mexico, August 12-15, 2009.
216. "Vaccination in Pregnant Women", Invited Faculty, Institut Pasteur School of Infectology, Pasteur-CNAM School of Public Health Vaccinology Course, Paris, France, March 5th, 2009.
217. "Beware of Influenza", I International Course in Pediatrics, Hospital Angeles Puebla, Puebla, Mexico, February 19th, 2009.
218. "Future Perspectives in Vaccinology", I International Course in Pediatrics, Hospital Angeles Puebla, Puebla, Mexico, February 19th, 2009.
219. "Maternal immunization and influenza" and "Neurologic manifestations of influenza virus infection", Invited Faculty, Course on Viral infections: Epidemiology, molecular diagnosis and clinical application", Universidad Autonoma de San Luis Potosi Medical School, February 13, 2009.
220. "Hepatitis B vaccination – Why at birth?" XI National Neonatology Congress, February 4-7, Guadalajara, Mexico, 2009.
221. "Bacterial resistance to antibiotics in the NICU" VI National Neonatal Nursing Congress, February 4-7, Guadalajara, Mexico, 2009.
222. "Atypical pneumonias" XI Congreso Interamericano de Pediatria, Hospital Infantil Privado y Hospital Star Medica Infantil Privado, Mexico City, Mexico January 20th, 2009.
223. "Atypical bacteria and lower respiratory tract illnesses" Jornadas Medicas Clinica Hospital San Fernando, Panama City, Panama, April 10, 2008.
224. "Adolescent immunization" and "Pertussis update" Jornadas Medicas Clinica Hospital San Fernando, Panama City, Panama, April 11, 2008.
225. "Staph. aureus infections" Jornadas Medicas Clinica Hospital San Fernando, Panama City, Panama, April 12, 2008.
226. "Hot topics in vaccines" and "New bugs and treatments in skin infections" Annual Convention, Sociedad Puertorriquena de Pediatria, San Juan, Puerto Rico, February 14-18, 2008.
227. "Antibiotics in the newborn period", "Fungal infection in preterm neonates", "Congenital syphilis, clinical case and management" and "Congenital viral infections" presented at: I Congreso Centroamericano de Neonatologia y XX Curso Internacional de Perinatologia y Neonatologia, Guatemala City, November 20-23, 2007.
228. "Vaccines against human papillomavirus" XI Pediatric Inter-American Congress, Monterrey, Mexico, July 6, 2007.

229. "Vaccines for Adolescents" Segunda Reunion Academica, Sociedad Mexicana de Pediatria, Mexico, DF, April 29-May 1st, 2007.
230. "Adolescent Immunization" IX Congreso Interamericano de Pediatria, Mexico DF, Mexico, January 24-26 (26), 2007.
231. "Maternal immunization as a strategy to protect the newborn" and "Pertussis in childhood and adolescence" VII Congreso de Pediatria and XCI Reunion Cuatrimestral ELFECGME, San Luis Potosi, Mexico, March 24, 2006.
232. "Childhood tuberculosis", "Serious *S. aureus* infections in the era of MRSA" and "Toxic Shock Syndrome" 1er Congreso Mesoamericano de Pediatria. Guatemala City, Guatemala, July 17-22, 2005.
233. "Immunization Schedule – US 2005 and New Vaccines." 2o Encuentro Binacional de Pediatria, Asociacion Mexicana de Pediatria, American Academy of Pediatrics. Mexico City, Mexico March 18, 2005.
234. "New respiratory viruses in the XXI Century" XIX Congreso Centroamericano y del Caribe de Neumologia y Cirugia de Torax, VI Curso Regional American College of Chest Physicians, XIII Congreso Nacional de Neumologia. Guatemala City, Guatemala, March 2-4, 2005.
235. "Impact of immunization on respiratory disease" and "Community acquired pneumonia" XIX Congreso Centroamericano y del Caribe de Neumologia y Cirugia de Torax, VI Curso Regional American College of Chest Physicians, XIII Congreso Nacional de Neumologia. Guatemala City, Guatemala, March 2-4, 2005.
236. "Fungal Infections in the Neonate". XXIII Congreso Interamericano de Infectologia Pediatrica. Acapulco, Mexico, November 12, 2004.
237. "The changing nature of Staphylococcus infection", "*B. Pertussis* a disease that returns" and "Neonatal Herpes" Congreso Nacional de Pediatria, Caracas, Venezuela, August 28-31, 2004.
238. "Immunization Update". Monthly academic meeting of the Pediatric Society of Nuevo Leon, Monterrey, Mexico, August 12, 2004.
239. "Congenital viral infections". Grand rounds, Hospital Infantil, Monterrey, Mexico. August 13, 2004.
240. "Maternal Immunization for the prevention of neonatal diseases." XXII Congreso Interamericano de Infectologia Pediatrica. Guadalajara, Mexico, November 19-22, 2003.
241. "SARS". XXII Congreso Interamericano de Infectologia Pediatrica. Guadalajara, Mexico, November 19-22, 2003.
242. "Meningitis in Neonates and Infants". 1st International Pediatric Seminars. Organized by Colegio de Pediatras de Yucatan, sponsored by Texas Children's Hospital International. Merida, Mexico, October 16-17, 2003.
243. "SARS Update" XI National Congress on Pediatric Allergy, Asthma and Immunology. Puerto Vallarta, Mexico, August 6-9, 2003.

244. "Community Acquired Pneumonia". V Interamerican Congress of Pediatrics. Hospital Infantil Privado. México City, México, January 24th, 2003.
245. "Maternal Immunization with Respiratory Syncytial Virus Vaccines". Protection of newborns through maternal immunization. International symposium organized by the Fondation Merieux. Veyrier du Lac, France. December 8-11, 2002.
246. "Maternal Immunization for the Protection against Infectious Diseases in Pediatrics". IV Interamerican Congress of Pediatrics. Mexico DF, Mexico, Jan 30th - Feb 1st, 2002.
247. "Bacterial Meningitis", "Empyema", "Use of Steroids in Infectious Diseases" and "Judicious Use of Antibiotics". XLIII National Pediatric Meeting, II National Pediatric Pneumology Meeting and IV National Pediatric Surgery Meeting. Guatemala City, Guatemala, Feb 27 to March 2nd, 2001.
248. "Methicillin resistant *S. aureus* in Pediatrics". III Congreso Interamericano de Pediatría. Mexico DF, Mexico, January 24-26, 2001.

National

1. "Maternal Immunization". NFID Vaccinology Course, 07 November, 2024.
2. "Prevention of respiratory infections in infants through maternal immunization" NFID Webinar: Preparing for the upcoming respiratory season. 29 October, 2024.
3. "The burden of RSV in pediatric populations: Evidence for reshaping care and optimizing prophylaxis." Peer View Educational Symposium, ID Week, Los Angeles, 16 October, 2024
4. "Maternal vaccine effectiveness against influenza hospitalizations and ED visits in infants", McMaster Children's Hospital RSV Virtual Coordinators Conference, 11 October, 2024.
5. "Unlocking insights into pediatric RSV prevention" AAP National Conference and Exhibition, Orlando, Florida, 28 September 2024.
6. "Maternal Immunization for the prevention of pediatric infectious diseases", St. Jude's Hospital, Memphis, TN, 29 August, 2024.
7. "MOMI-Vax Study: Evaluation of antibody transfer and durability in infants". Presented at the N-PeRC COVID-19 Maternal and Child Health Subgroup NIH-NAID meeting, April 18, 2024.
8. "Maternal Immunization and RSV Prevention in Pediatrics" Invited speaker, Pediatric Grand Rounds, Baystate Health Children's Hospital, University of Massachusetts, March 26, 2024.
9. "Prevention of RSV in Pediatrics: The beginning of a new era" Pediatric Grand Rounds, University of Pittsburgh Medical Center, Children's Hospital of Pittsburgh, Pittsburgh, Pennsylvania, 28 March, 2024.
10. "The journey of protecting infants from RSV through maternal immunization". Invited speaker. St. Jude's/PIDS Conference, Memphis, TN, March 8, 2024.

11. "RSV prevention in infants through maternal immunization". Robert Lemansky Jr. Lectureship Speaker at the NIAID RSV Session at the American Academy of Allergy, Asthma and Immunology (AAAAI) meeting, February 25, 2024
12. "Immunization in Focus: Pregnant People Quality Improvement and Systemic Strategies", National Vaccines Advisory Committee (NVAC) Panel, February 23, 2024
13. "RSV Prevention in Pediatrics" Invited Speaker, Pediatric Grand Rounds, Vanderbilt University Medical Center, January 16, 2024.
14. "Prevention of RSV in children and adults", FIS e-conference, online meeting, November 17, 2023
15. "Nirsevimab for prevention of RSV in healthy late preterm and term infants". Between the Lines, Patient Care online program, October 2, 2023.
16. "Donor Derived Infections". The Alliance and AAP National Pediatric Donation and Transplantation Summit, Houston, TX, May 25, 2023.
17. "Infant Immunity: Examining the Maternal-Infant Interactions" workshop, and "Breastmilk antibodies after COVID-19 vaccination and correlation with maternal immunization", invited speaker at the Maternal-Infant Health Microbiome meeting, Boston, MA, March 28-30, 2023.
18. "Pediatric Respiratory Surge: Current landscape and guidance" AAP ECHO Initiatives, 13 Dec 2022 (virtual).
19. "RSV disease in children, epidemiology, management and prevention: an update for pediatricians", Grand rounds, Common Spirit Health System, December 16, 2022 (Virtual)
20. "Updates on pediatric influenza" Grand Rounds, Harlem Hospital, New York City, New York, 26 Oct, 2022.
21. "RSV and GBS maternal immunization", presented at the ACOG Immunization Expert Group meeting, Washington DC, 17 October 2022.
22. "Updates on pediatric influenza: When and how to deploy the antiviral arsenal", Pediatric Influenza Symposium, AAP NCE conference, 10 October 2022.
23. "Maternal Immunization", National Foundation of Infectious Diseases (NFID) Webinar, 28 August, 2022
24. "The role of maternally derived vaccine induced antibodies in protecting newborns and young infants from COVID-19", Pediatric Academic Societies (PAS) Symposium, 23 April 2022, Denver, Colorado.
25. "2021-2022 Recommendations for influenza prevention and treatment in children: An update for pediatric practitioners", Centers for Disease Control and Prevention Clinician Outreach and Communications Activity (COCA) Call, 07 October 2021 (virtual)
26. "SARS-CoV-2 and vaccine research in pregnancy and women of reproductive age", Presentation for BARDA, 02 August, 2021 (virtual)

27. "Vaccination in Pregnancy" Speaker Academy Program of OB/GYN physicians. June 7-14, 2021. Organized by Sanofi Pasteur.
28. "Vaccines in pregnancy – rationale". University of Alabama at Birmingham, STI Clinical Trials Group 2021, 27-28 April 2021.
29. "Influenza prevention and control strategies for Head Start and Children Care" COCA Webinar of the CDC and AAP, November 17, 2020.
30. Vaccines: Beyond The Guidelines. Invited Presentation at ID Week, October 22, 2020.
31. "Influenza vaccination racial and ethnic disparities in the time of COVID-19" Immunize Nevada, September 24, 2020.
32. "2020-2021 Recommendations for Influenza Prevention and Treatment in Children" COCA Webinar of the CDC and AAP, September 23, 2020.
33. "Influenza in Children: Are we ready for the next decade?" Grand Rounds at University of Alabama Department of Pediatrics, Birmingham, AL, December 02, 2019.
34. "Advances in Diagnostic Platforms for Infectious Diseases" Invited Speaker, SPLIT Meeting, Houston, TX, 24 October, 2019.
35. "Get ready for seasonal and pandemic flu: strategies for Head Start and Child Care", COCA Webinar of the CDC and AAP, October 15, 2019.
36. "RSV and other new vaccines to protect women and infants", "Update on Antivirals, not just Influenza", and "Impact of peri-transplant viral respiratory infection on pediatric transplant outcomes", ID week invited speaker, Washington, DC, October 4-5, 2019.
37. "Postnatally acquired Zika virus infection in infants and young children in rural Guatemala: Serologic and neurodevelopmental evaluation". ID Week Research presentation, Washington, DC, October 03, 2019.
38. "2019-2020 Recommendations for Influenza Prevention and Treatment in Children" COCA Webinar of the CDC and AAP, September 26, 2019.
39. "Maternal Immunization". Grand Rounds at Stanford Department of Pediatrics, September 20th, 2019.
40. "Options for RSV prevention in infants" Presentation to the Section on Infectious Diseases, Stanford, September 18, 2019.
41. "Maternal Immunization" and "Options for RSV Prevention". Invited Speaker: 94th Perinatal and Development Medicine Symposium hosted by the American Academy of Pediatrics and Mead Johnson Nutrition. Snowmass, Colorado, June 5-6, 2019.
42. "Influenza pandemics and the future of vaccines" and "Infectious considerations before and after lung transplant". Celebration of Pediatric Pulmonology and Sleep 2019. AAP, Section on Pediatric Immunology meeting. Orlando, FLA, February 15-17, 2019.

43. "Novel H3N2v monovalent vaccine evaluation in pediatric patients", 2018 VTEU Annual Meeting, Durham, NC, November 7-8, 2018.
44. "Meet The Redbook Session: Influenza Updates 2018-2019", AAP National Convention and Exhibition, Orlando, Florida, November 5, 2018.
45. "A look at Zika". Annual meeting of the Infectious Diseases Society of Obstetrics and Gynecology. Philadelphia, PA, August 2-4, 2018.
46. "Community acquired pneumonia and new respiratory viral pathogens", "Hot Topics in infectious diseases: Outbreaks and Epidemics", "Antibiotic Resistance and New Antibiotics: What are the options", and "Vaccine Safety, Hesitancy, Refusal and Ethical Concerns: An Interactive Workshop" presented at the 2018 Practical Pediatrics course of the American Academy of Pediatrics, Anaheim, CA, May 25-27, 2018.
47. "Opportunistic Infections" and "Respiratory Viruses" 2017 PREP ID Course of the American Academy of Pediatrics, Dallas, TX, July 27-30, 2017
48. "Influenza 2016-2017 COID - AAP Recommendations" Meet the Redbook Session. National Conference and Exhibition of the AAP, San Francisco, CA, October 25, 2016.
49. "Maternal Immunization Trials: An overview". National Foundation on Infectious Diseases. Annual Conference on Vaccine Research, Baltimore, MD, April 18-20, 2016.
50. "Maternal Immunization with RSV vaccines" International Conference on Emerging Infectious Diseases (ICEID 2015), panel session on Respiratory Diseases, Atlanta, GA, August 26, 2015.
51. "Safety and Immunogenicity of Pertussis Vaccines in Pregnant Women". PATH organized symposium on Maternal Immunization. PAS/SPR Meetings, San Diego, CA, April 26, 2015.
52. "Influenza Immunization in Pregnancy" Webinar, sponsored by the American College of Obstetrics and Gynecology, October 22, 2014.
53. "Safety of Tdap immunization in Pregnancy" presented at the PATH-BMGF Expert Consultation on Maternal Pertussis Immunization, Seattle, WA, October 1, 2014.
54. "Immunogenicity of Tdap in pregnancy and effects on infant immune responses"; "Harmonization of safety assessment of vaccines in pregnancy: The WHO-Brighton Collaboration project". National Institutes of Health and Bill and Melinda Gates Foundation Conference on Clinical Research in Pregnant Women: Knowledge, Gaps and Opportunities. September 29-30, 2014
55. "Harmonization of safety assessment of vaccines in pregnancy: The WHO-Brighton Collaboration project", presented to the National Vaccine Advisory Committee (NVAC) in Washington, DC, September 9, 2014
56. "Current Vaccination Guidelines" APPNA 37th Annual Summer Convention, Washington, DC, August 14, 2014.
57. "Adenovirus and BK virus infections" First Transplant Infectious Diseases Course, Pediatric Infectious Diseases Society, St. Jude's Hospital, Memphis, TN, February 20, 2014.

58. "Influenza – Maternal immunization to prevent maternal and/or infant disease." Pediatric Academic Societies Annual Meeting, Boston, MA, April 29, 2012.
59. "Safety and effectiveness of maternal immunization", Society for Maternal Fetal Medicine Annual Meeting, Scientific Forum on Infections and Inflammation in Pregnancy, Dallas TX, February 8, 2012.
60. "Review of safety of influenza vaccination of pregnant women", Progress in overcoming barriers to influenza immunization in pregnant women meeting, NVPO, Washington, DC October 27-28, 2011.
61. "Pandemic influenza: Special considerations for pregnant women – Vaccine issues", workshop/expert panel session at the Association of Maternal and Child Health Programs (AMCHP) annual meeting, Washington, DC, February 23, 2009.
62. "Update and perspectives on adolescent and childhood immunizations", BCM Primary Care Pediatric Course, Hilton Head, SC, June 9, 2008.
63. "Mycoplasma and other atypical bacterial pneumonias" and "Options for Prevention of Influenza in the Coming Year", BCM Primary Care Pediatric Course, Hilton Head, SC, June 10th, 2008.
64. "What does this titer mean? Call ID!" and "Immunization schedule in flux, a panel discussion", Acute care pediatrics for the primary care practitioner, Hilton Head, SC, June 11-15, 2007.
65. "Fungal infections in the neonate", "Hispanic folk medicine", and "Panel: Immunization booster: What's new in vaccines". Acute care pediatrics for the primary care practitioner, Hilton Head, SC, June 12-16 (13), 2006.
66. "Maternal immunization to protect mothers and babies". International Conference on Women and Infectious Diseases (ICWID): Progress in Science and Action. Atlanta, Georgia, March 16-18, 2006.
67. "Lessons from the SARS epidemic-From flu to SARS and back", "The changing nature of Staphylococcus infection" and "Re-emergence of Pertussis". Acute Care Pediatrics, Review and Update of the State of the Art. Hilton Head, SC, June 14-18, 2004.
68. "Known and New Approaches to Preventing Influenza". National Campaign for Influenza Prevention Dialogues. Denver, Co, September 18th, 2002.

Regional

1. "Post-pandemic emerging infectious diseases, pertussis, measles and more" Texas Pediatric Society Annual Meeting, Conroe, TX, 26 October, 2024.
2. "Infections on the waitlist and during the immediate post-liver transplant period", Liver Transplant Symposium 2024: The Road to Liver Transplantation. Houston, TX, 26 September 2024.
3. "Measles Updates 2024" Texas Health Department Pediatric Coalition, Houston, TX, April 17, 2024.
4. "Options for the prevention of RSV in children". Pediatric Grand Rounds, Texas Children's Hospital, November 11, 2023.
5. "Respiratory Syncytial Virus: Disease, Prevention and Treatment" Texas Pediatric Society, Nov 03, 2022 (virtual)

6. "Pediatric COVID vaccination in special populations", Texas Pediatric Society Annual Meeting, September 09, 2022, Galveston, TX
7. "Monkeypox 101: what pediatricians need to know", Texas Pediatric Society, August 30, 2022 (virtual)
8. "TPS Town Hall: COVID-19 updates from the experts", Texas Pediatric Society, July 07, 2022 (virtual)
9. "COVID-19 effects in the pediatric population: Impact on immunizations", Advanced Practice Providers Annual Meeting, Texas Children's Hospital, 08 April, 2022 (virtual).
10. "COVID vaccine safety update, June 2021 ACIP meeting summary", Texas Pediatric Society, 01 July 2021 (virtual)
11. "Vaccine Panel: Panel, CARMIG meeting, Houston, TX, January 28, 2021.
12. "Emerging infections update: Zika virus", Texas Pediatric Society and Texas A&M, December 3, 2020
13. "COVID and Influenza". Texas Pediatric Society Annual Meeting, October 02, 2020
14. "Why do we need a respiratory virus pediatric vaccine?" Moderna Vaccine Day, April 14, 2020 (Virtual).
15. "Immunization and Antimicrobial Resistance" Panel, CARMIG meeting, Houston, TX, January 24, 2020.
16. "Zika Epidemiology Updates" Zika Symposium, Texas Pediatric Society and Centers for Disease Control and Prevention, San Antonio, TX, May 3, 2019.
17. "Red Book and Immunization Schedules Update 2019" Texas Children's Hospital Latin American Symposium, Houston, TX, February 22, 2019.
18. "Influenza Prevention and Treatment Recommendations for the 2018-2019 Season". Grand Rounds presentation. Texas Children's Hospital of San Antonio, Christus Health. San Antonio, TX, November 30, 2018.
19. "Infectious Evaluation of Acute Liver Failure in Pediatrics", Liver Symposium, Texas Children's Hospital, Houston, TX, October 4, 2018.
20. "Vaccine Update 2018" Texas Children's Hospital Advanced Practice Providers Conference, Houston, TX, April 7, 2018.
21. "Pertussis: Trends, Prevention and Challenges" Texas Immunization Partnership Summit, San Antonio, TX November 5, 2014.
22. "The Not-So-Scary Vaccines", "Creepy crawling bugs: HSV and CMV", "Trick or Treat: Syphilis Update", The Not-So-Scary Newborn CME Conference, Baptist Health Care System, San Antonio, TX, October 18, 2014.
23. "Identification and control of outbreaks of infectious diseases in Texas", Annual Texas Pediatric Society meeting, Dallas, TX, September 21, 2014.

24. "Lessons from the recent vaccine preventable outbreaks in Texas", University of Texas Medical Branch, 63rd Annual Conference on Advances in Pediatrics. Galveston, TX, June 20th, 2014.
25. "Influenza update 2014-15", Association of Occupational Health and Infection Control Nurses, Arlington TX, June 5th, 2014.
26. "Influenza update 2013-14", Association of Occupational Health and Infection Control Nurses, Arlington TX, May 16, 2013.
27. "The febrile neonate" and "the rising rates of congenital syphilis, identification, prevention, and treatment". Not So Scary Newborn Conference, San Antonio, TX, October 27, 2012.
28. "A 4-6 week old late preterm baby with respiratory distress: A workshop". Not So Scary Newborn Conference, San Antonio, TX, October 27, 2012.
29. "Immunization guideline update for children" 64th Annual Pediatric Post-Graduate Symposium, Houston, TX, April 26, 2012.
30. "Influenza Update". AHRMM, Texas Gulf Coast Supply Chain Annual Meeting, Houston, TX, April 24, 2012.
31. "Pertussis Update 2011", Current Clinical Issues in Primary Care PRI-MED Conference, Harvard Medical School and Baylor College of Medicine, Houston, TX, March 25, 2011.
32. "History and Update on Newborn Immunization", and "Neonatal Infections – Discussion of a Case", Baptist Health System Not-so-Scary Newborn Conference, San Antonio, TX, October 23, 2010.
33. "Catheter related bloodstream infections in infants and children", and "Respiratory infections in ventilated neonatal and pediatric patients", Sierra Providence Health Network 22nd Annual Pediatric Symposium, El Paso, TX, Sept 10-11 2010.
34. "The 2009 H1N1 Influenza Pandemic", The Children's Hospital Association of Texas and the Texas Pediatric Society Forum for legislative staff, Austin, TX November 18, 2009.
35. "Emerging Viral Infections: The 2009 H1N1 influenza pandemic", The Not-so-Scary Kid – Tricks and Treats of Pediatric Care Conference, San Antonio, TX, October 24th, 2009.
36. "Infectious Diseases: What's common and what is making a comeback", The Not-so-Scary Newborn Care Conference, San Antonio, TX, October 24th, 2008.
37. "Work up of the Febrile Neonate", The Not-so-Scary Newborn Care Conference, San Antonio, TX, October 24th, 2008.
38. "Influenza Update", Infectious Disease Teleconference Series, UT Health Science Center San Antonio, October 21, 2008.
39. "Influenza and Pregnancy", Grand Rounds, Harris Hospital OB-GYN Department, Fort Worth, TX, October 2, 2008.
40. "Influenza Prevention", Grand Rounds, Covenant Health System, Lubbock, TX, September 30, 2008.

41. "Respiratory infections caused by mycoplasma and other atypical bacteria", Grand Rounds Lecture, Driscoll Children's Hospital, Corpus Christi, TX, May 16th, 2008.
42. "Clinical implications of rotavirus epidemiology and immunology" and "The early and long-term benefits of preventing HPV infection", Nueces County Health Department Annual Meeting, Corpus Christi, TX, March 20th, 2008.
43. "Influenza and Community Health", Influenza Prevention in the Community and Long-Term Care Conference, McAllen, TX, November 28th, 2007.
44. "Influenza Prevention" Employee Health and Community Wellness Conference, Covenant Health System Continuing Medical Education, Lubbock, TX, October 16th, 2007.
45. "Influenza vaccines" Grand rounds. Cook Children's Medical Center, Fort Worth, TX, September 18th, 2007.
46. "Update on pertussis and influenza" Grand rounds. Baptist Health System, San Antonio, TX, September 15, 2006.
47. "New strategies in pertussis prevention: Expanding targets, reducing disease". Grand Rounds. Southwest General Hospital, San Antonio, TX. April 13, 2006.
48. "New Vaccines-New Challenges". Mexican Satellite Symposium organized by Texas Children's Hospital International, June 4th, 2003.
49. "Atypical pneumonia - SARS". Mexican Satellite Symposium organized by Texas Children's Hospital International, June 4th, 2003.
50. "Maternal immunization for the protection of infants against infectious diseases". Pediatric Grand Rounds, Driscoll Children's Hospital, Corpus Christi, Texas, January 10th, 2003.
51. "Intranasal Influenza Vaccine". International Postgraduate Pediatric Telecast to 7 cities in Mexico. Sponsored by Texas Children's Hospital Houston, Texas, May 30th, 2002.
52. "Community acquired pneumonia" 2nd International Pediatric Post-Graduate Telecast to Latin America, May 18th, 2001; Sponsored by Texas Children's Hospital, Houston, TX.
53. "Influenza Update" Grand Rounds November 1st, 2000; St., Elizabeth Hospital, Beaumont, Texas.
54. "Advances in Influenza" 1st International Pediatric Post-Graduate Telecast, June 2-3, 2000; Texas Children's Hospital and Baylor College of Medicine, Houston, Texas.

Local

1. "Vaccines in pregnancy: Progress and research – focus on Group B Streptococcus. Texas Children's Hospital, Department of Obstetrics and Gynecology, Houston TX, December 18, 2024.
2. "Nirsevimab Education Sessions", Newborn Center, Texas Children's Hospital, November 8, 2023.
3. "Nirsevimab Q&A", Pulmonary Noon Conference, Texas Children's Hospital, November 3, 2023.

4. "Nirsevimab Education for Pediatric Providers", Texas Children's Hospital, Biweekly Sessions, September-October, 2023.
5. "Maternal COVID-19 and Vaccination Strategies", Grand Rounds, Department of Obstetrics and Gynecology, The Woman's Hospital of Texas, 10 Dec 2021.
6. "COVID-19 and Pediatrics: Pediatric Infections and Treatment Guidelines", Texas Children's Hospital PHM Discussion, 09 September 2021.
7. "COVID-19 in the pediatric population: Current state of affairs", Grand Rounds, Department of Pediatrics, Texas Children's Hospital, 20 August 2021.
8. "COVID-19 and back to school guidance 2021-22", Presentation to local groups of schools and parents, Houston, TX, 03 August 2021, and 23 July 2021 (virtual)
9. Updates in influenza and COVID for the 2020-2021 season. Kelsey Seybold Clinic presentation, October 27th, 2020, Texas Children's Hospital, Houston, TX.
10. "Updates in influenza for the 2020-2021 season". Pulmonary Section conference, October 02, 2020, Texas Children's Hospital, Houston, TX.
11. "COVID-19 implications for SOT", Liver Transplant Monday Conference Feb 24, 2020, and Renal Transplant Weekly Conference, March 11, 2020, Texas Children's Hospital, Houston, TX.
12. "Influenza in Solid Organ Transplant Patients", Liver Transplant Monday Conference, Texas Children's Hospital, Houston, TX, November 26, 2018.
13. "The Zika Epidemic in America 2015-2018 and how children are affected". Zika Seminar, organized by the Texas Pediatric Society, Houston TX, July 20, 2018.
14. "Cholangitis and SBE in Liver Transplant Recipients", Liver Transplant Monday Conference, Texas Children's Hospital, Houston, TX, January, 2018.
15. "Path to becoming a Pediatrician Scientist" Pediatric Scientist Training and Development Program presentation, Texas Children's Hospital, Houston, TX, September 26, 2017.
16. "Infections in Pediatric Solid Organ Transplant Patients", 2015 Pediatric Transplant Symposium, Texas Children's Hospital, Houston TX, September 4, 2015.
17. "Immunizations – Update" Pediatric Post-graduate Symposium, 2015. Texas Children's Hospital, Houston, TX, March 12, 2015.
18. "Infectious Diseases in Solid Organ Transplant" Grand Rounds, Texas Children's Hospital, December 5th, 2014.
19. "Update on Maternal Immunization and Infant Protection" Kelsey Seybold Clinic Conference, December 3, 2014.
20. "Airborne infections" Pulmonary Conference, Texas Children's Hospital, October 24, 2014.

21. "Immunization in Special Populations: Focus on Maternal Immunization" Grand Rounds, Texas Children's Hospital, May 23, 2014.
22. "Adenovirus infections in solid organ transplant recipients", Critical Care Medicine Lecture Series, April 1st, 2014.
23. "Immunization guideline update for children", 66th Annual Pediatric Postgraduate Symposium, Texas Children's Hospital, March 27th, 2014.
24. "Infections in Pediatric Solid Organ Transplant Recipients", Texas Children's Hospital Advanced Practice Providers Conference, February 6th, 2014.
25. "Influenza Immunization Update – 2013" CME series, Texas Children's Pediatrics, Houston, TX, September 5, 2013.
26. "Challenges in Pertussis disease and prevention: Back to the drawing board". Pediatric Grand Rounds, Texas Children's Hospital, Houston TX, June 7, 2013.
27. "Influenza Prevention in Pregnant Women" OB-GYN Grand Rounds, The Woman's Hospital of Texas, February 1st, 2013.
28. "Pertussis Epidemiology and Critical Pertussis", invited speaker, Critical Care Medicine Section, Texas Children's Hospital, Houston TX, January 15, 2013.
29. "Pertussis Update" Hospital Medicine Program Educational Series, Texas Children's Hospital, Houston TX, November 30, 2012.
30. "Immunization during pregnancy" Pediatric Rounds, Memorial City Hospital Department of Pediatrics, November 13, 2012.
31. "Maternal immunization: an Update", Invited Speaker, Neonatology Perinatal Center Conference Lecture Series, Texas Children's Hospital, Houston, TX January 20, 2012.
32. "Neonatal HSV: Diagnosis and management of maternal and infant infection". Houston Area Association of Neonatal Nurses, 13th Annual Spring Neonatal Nursing Meeting, Houston, TX May 20th, 2011.
33. "Immunization Recommendations and Considerations", 63rd Annual Pediatric Postgraduate Symposium, Texas Children's Hospital, Houston, TX, March 24, 2011.
34. "Influenza and pertussis update for the infection control practitioner", Houston Chapter of the Association of Professionals in Infection Control and Epidemiology (APIC), March 15, 2011.
35. "Influenza Update, Prevention after the 2009 H1N1 Pandemic" Pediatric Roundtable, Memorial Hermann Memorial City Medical Center, Houston, TX, October 12, 2010.
36. "The 2009 H1N1 influenza Pandemic, Lessons Learned", Invited Speaker, 31st Annual Pediatric Postgraduate Symposium, Houston, TX, April 22, 2010.
37. "H1N1 in pregnancy and the newborn" Invited Speaker, Kaleidoscope 2010: The many faces of perinatal and woman's health nursing. Galveston, TX, February 18, 2010.

38. "Seasonal and Pandemic Influenza" Invited Speaker, Rice University, Houston, TX September 11, 2009.
39. "Seasonal and Pandemic Influenza" Grand Rounds, Texas Children's Hospital, Houston, TX September 11, 2009.
40. "H1N1 influenza – Is this a Pandemic?" Invited Speaker, Multidisciplinary Grand Rounds, The Woman's Hospital of Texas, May 8, 2009.
41. "Maternal Immunization", Invited Speaker, Neonatology Perinatal Center Conference Grand Rounds Lecture Series, Texas Children's Hospital, Houston, TX April 17, 2009.
42. "Career exploration in medicine", Early College Awareness Project Spring Event, Baylor College of Medicine, Houston, TX, March 28th, 2009.
43. "Meningitis and influenza update, 2009", Houston Pediatric Society meeting, Houston, TX, February 24th, 2009.
44. "Translating and adopting prevention guidelines in the clinical setting" Workshop presented at the 9th annual Health Services & Outcomes Research Conference, Houston, TX, December 3, 2008.
45. "Influenza vaccines" Harris County Health Department Annual Meeting, Houston, TX, June 6th, 2008.
46. "Pediatric Immunization Update and New Perspectives: An Interactive Discussion" 30th Annual Pediatric Postgraduate Symposium, Houston, TX, April 17, 2008.
47. "Respiratory infections with Mycoplasma and other atypical bacteria" Pediatric Grand Rounds, Texas Children's Hospital, February 15, 2008.
48. "Immunization schedule in flux – practical review of new recommendations: An interactive session" 29th Annual Pediatric Postgraduate Symposium, Houston, TX, April 19-21, 2007.
49. "Latest developments in the prevention of HPV and cervical cancer" Pediatric Rounds. Memorial City Hermann Hospital, Houston, TX, February 13, 2007.
50. "Prevention of rotavirus gastroenteritis" Pediatric Rounds. Memorial City Hermann Hospital, Houston, TX October 11, 2006.
51. "Immunization Administration Controversies: An Interactive Discussion". 29th Annual Pediatric Postgraduate Symposium, Houston, TX, March 30 - April 1, 2006.
52. "Tuberculosis and skin testing". Nursing and Allied Health Professional Distance Education and CNE/CEU Offerings activity. Texas Children's Hospital, Houston, TX, March 21, 2006.
53. "Pertussis: current epidemiology and new vaccines." Texas Vaccines for Children Program, Fall 2005 Provider Workshop. October 5th, 2005. Harris County Public Health & Environmental Services.
54. "Pertussis in children and adolescents: current epidemiology and prevention strategies." Pediatric Rounds, Memorial City Hermann Hospital. September 13th, 2005.

55. "Pertussis in children and adolescents: current epidemiology and prevention strategies." Pediatric Grand Rounds, Texas Children's Hospital. September 9th, 2005.
56. "Immunization administration controversies". 27th Annual Pediatrics Postgraduate Symposium, Houston, Texas, April 21-23, 2005.
57. "Meningococcal meningitis and meningococcal vaccines". Pediatric Rounds, Memorial Hermann Memorial City Hospital, Houston TX, January 11, 2005.
58. "Viral Infections of the fetus and newborn", Neonatology-CME conference, Department of Pediatrics, Section Neonatology, Texas Children's Hospital, Houston, TX, September 3, 2004.
59. "Neonatal Meningitis". Neonatology-CME conference, Department of Pediatrics, Section Neonatology, Texas Children's Hospital, Houston, TX, March 19th, 2004.
60. "Old and New Influenza Vaccines". National Campaign for Influenza Prevention - Saturday Seminar. Houston, Texas, September 20th, 2003.
61. "Vaccine delivery decisions: Challenges for the pediatrician". 25th Annual Pediatric Postgraduate Symposium. Houston, Texas, March 28th, 2003.
62. "Influenza Vaccination" 24th Annual Pediatric Postgraduate Symposium and Texas Children's Hospital International Colloquium. Houston, Texas, April 26th, 2002.
63. "Central Nervous System Infections in the Neonate". Neonatology-Neurology-Pathology CME conference, Department of Pediatrics, Section Neonatology, Texas Children's Hospital, Houston, TX, April 20th, 2001.
64. "Influenza Breakthroughs" Grand Rounds Department of Medicine and Family Practice, January 11, 2000; Saint Joseph's Hospital, Houston, Texas.
65. "Influenza Update" Grand Rounds Department of Pediatrics, November 5, 1999; Texas Children's Hospital and Baylor College of Medicine, Houston, Texas.
66. "New Strategies for the Management of Influenza" Local Host for Houston, TX. Simulcast via Internet and Live Video Conference; Postgraduate Institute for Medicine and The Center for Professional Distance Learning, August 1999.
67. "TORCH/Viral Infections of the Central Nervous System in the Newborn" Neonatology-Neurology-Pathology CME Conference, January 1999; Texas Children's Hospital, Section Neonatology, Houston, Texas.

E. VISITING PROFESSORSHIPS

"Maternal immunization as a Public Health Intervention", Infectious Diseases Rounds, St. Jude's Hospital, Memphis, TN, August 28-29, 2024.

"Prevention of RSV in Pediatrics: The beginning of a new era" Invited Speaker, Pediatric Grand Rounds, University of Pittsburgh Medical Center, Children's Hospital of Pittsburgh, Pittsburgh, Pennsylvania, 28 March, 2024.

« Maternal Immunization Research: A story of determination, advocacy, and collaborative work”, Invited Lecture at the ESPID Masterclass, May 14, 2022, Athens, Greece.

“Influenza in Children: Are we ready for the next decade?” Grand Rounds and Visiting Professor at University of Alabama Department of Pediatrics, Birmingham, AL, December 02, 2019.

“Maternal Immunization”, Grand Rounds and “Options for RSV prevention in infants” presentation to the Section on Infectious Diseases, Visiting Professor at Stanford University, September 18-19, 2019.

“Influenza Prevention and Treatment Recommendations”, Grand Rounds and Visiting Professor at Children’s Hospital of San Antonio, San Antonio, TX, November 30, 2018.

“Maternal Immunization” Invited Lecture and Visiting Professorship at ISGlobal and Universidad de Barcelona, Spain, September 14-15, 2017.

“Hablemos de Infecto: del AIDS al Zika”, Invited Lecture for the 25th Anniversary of the Medical School, Universidad Francisco Marroquin, Guatemala, August 4, 2016.

“Maternal immunization and influenza” and “Neurologic manifestations of influenza virus infection”, Visiting Professor and Faculty Course on Viral infections: Epidemiology, molecular diagnosis and clinical application”, Universidad Autonoma de San Luis Potosi Medical School, February 13, 2009.

“Influenza Update – 2008-2009 season”, Visiting Professor and Grand Rounds presentation, University of Iowa Children’s Hospital, Iowa City, Iowa, September 11-12, 2008.

IV. MEDICAL AND SERVICE INFORMATION

A. Patient Care Responsibilities at BCM and Affiliated Institutions

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|-------------|---|
| 2011-2024 | Director, Transplant Infectious Diseases, Texas Children’s Hospital, Houston, TX. On service monthly and weekends for inpatient and outpatient care of solid organ transplant patients. |
| 2011-2017 | Infectious Diseases Attending, 1-2 months/year inpatient and outpatient service and weekends at Texas Children’s Hospital West Campus, Cypress, TX. |
| 2003-2018 | Infectious Diseases Attending, 1-3 months/year inpatient and outpatient service and weekends at Texas Children’s Hospital, Houston, TX. |
| 2000-2011 | Infectious Diseases Attending: Outpatient clinic ½ day/week (weekly 2000-2008, twice monthly 2008-2011) 2-3 months/year at Ben Taub General Hospital, Houston, TX. |
| 1998-2011 | Infectious Diseases Attending: Inpatient service 1-2 months per year, Ben Taub General Hospital and The Woman’s Hospital of Texas, Houston, TX. |
| 1998-2006 | General Pediatric Attending: 1 month per year at Ben Taub General Hospital, Houston, TX |
| 1995 - 1997 | Emergency Department Extra Hours Physician, Texas Children’s Hospital, Houston, TX |

B. National Education or Voluntary Health Organization Participation

- 2020 Satellite Media Tour –Influenza Prevention and Treatment. Event supported by Families Fighting Flu, Houston, TX, January 2020.
- 2017-2018 Faculty, AAP Practical Pediatrics CME Course. Anaheim CA, May 25-27, 2018
- 2016-2017 Faculty, AAP PREP ID Course, Dallas, Texas, August 2017.
- 2017 Member, Precision Vaccines Program, Harvard Medical School.
- 2014 Satellite Media Tour – “Moms Know Best” Influenza Vaccination in Adolescents Supported by Families Fighting Flu.
- 2014-2015 Shot@life Champion – United Nations Foundation and American Academy of Pediatrics
- 2012-Present Medical Advisor, Families Fighting Flu, an organization funded by parents of victims of influenza to promote awareness and prevention of influenza, particularly in children.
- 2011-2013 Member, Physician’s Advisory Council of the Immunization Partnership, providing medical and public health expertise to the organization, reviewing educational materials, and presenting at conferences.
- 2009-2013 Member of the Advisory Board of the Houston Area Immunization Partnership, an organization committed to inform and protect the community from vaccine preventable diseases.
- 2008-2010 Member, Committee to develop evidence based clinical guidelines for Community Acquired Pneumonia and Septic Arthritis at Texas Children’s Hospital.
- 2004-2010 Faculty, Rush CME Course and National Campaign for Influenza Prevention.
- 1998-2009 Host to visiting physicians from US and Latin America attending the International Colloquium and Pediatric Post Graduate Symposium organized by Texas Children’s Hospital International for one week during the spring.

C. Administrative Assignments at BCM

- 2021-Present Member, the **Vaccine Initiative**, Texas Children’s Hospital and Baylor College of Medicine
- 2020-2023 Member, **COVID-19 Response Task Force**, Texas Children’s Hospital
- 2016-Present **Chair, Institutional Review Board (IRB 3 and 6), Baylor College of Medicine**
- 2015 Texas Children’s Hospital Nominating Committee
- 2014-2019, 2022-2024 - Reviewer for the Department of Pediatrics Pediatric Pilot Award, Texas Children’s Hospital
- 2014-2024 Member, Transplant Quality Council, Texas Children’s Hospital, Houston, TX

- 2013-Present Member, Organ Donation and Transplantation Sub-Committee, Texas Children’s Hospital, Houston, TX
- 2013-2016 Member, BCM Communications and Governance Workgroup, Houston, TX.
- 2007-2020 Member, Infection Control Committee, Texas Children’s Hospital, Houston, TX
- 2005-2015 Member Institutional Review Board (IRB 5), Baylor College of Medicine, Houston, TX.
- 2003-2004 Member, International Activities Committee, Baylor College of Medicine, Houston, TX.
- 2002-2005 Member, Pharmacy and Therapeutics Committee, The Woman’s Hospital of Texas, Houston, TX.
- 2002-2011 Member, Antimicrobials Sub-Committee, Pharmacy and Therapeutics Committee, Ben Taub General Hospital, Houston, TX.
- 2001-2011 Clinic Director, Pediatric Outpatient Infectious Diseases Clinic, Ben Taub General Hospital, Houston, TX.

D. Other pertinent information not given above

Enduring Materials

- 2020-2022 Evidence Based Practice guidelines for management of hospitalized pediatric patients with COVID-19 at Texas Children’s Hospital
- 2019, 2020 Content Expert – Development and review of Online Provider Education “Immunization Module” of the Texas Health Steps course
- 2017 Messaging patients around RSV, Maternal Immunization and the Prepare Trial. Informational video. Hospicom.
- 2017 Content Expert – Development and review of Online Provider Education “Immunization Module” of the Texas Health Steps course.
- 2016 Author, AST/PIDS Pediatric Transplant Infectious Diseases Interactive Educational Modules.
- 2015 – Present MOOC –Maternal Immunization, Vaccinology Course, Institut Pasteur, Paris, France
- 2014 Septic Arthritis Content Expert Team – Evidence Based Guidelines, Texas Children’s Hospital, Houston, TX.
- 2013-2024 Management Guidelines for Solid Organ Transplant Patients at TCH and Quality improvement projects on: CMV, Adenovirus, HHV-6, influenza vaccination; up to date vaccinations; post-transplant infections; prevention and management of COVID-19; Assessment of donors and recipients with COVID-19
- 2009-Present Author “Maternal Immunization” module, Pasteur Institute Vaccinology course website.

2009 Author CME course, Teleconference and CD on “Pertussis Disease and Prevention Strategies”, Distance Education Series, Teleconference Network of Texas, University of Texas Health Science Center San Antonio, TX.

2009 Co-Author, Integrated Problem Solving Case Spring 2009, CASE #Jorge Ortega “Hot toddler”; Case Authors: Marianna Sockrider, MD, DrPH, Flor M. Munoz, MD.

January 2009 Author, Web based Grand Rounds on Influenza and interactive blog – www.sermo.com, SERMO.

2008 Author, Evidence Based Guidelines on Community Acquired Pneumonia content expert team – Texas Children’s Hospital, Houston, TX.

2008-2009 Expert Physician “Pertussis” Educational DVD in English and Spanish – A program designed for Hispanic families to encourage prevention of pertussis, especially for infants, sponsored by the American Academy of Pediatrics, the League of United Latin American Citizens and developed by Conrad productions, New York, NY.

September 2008 Author, CME course, Teleconference and CD on “Influenza”, Distance Education Series, Teleconference Network of Texas, University of Texas Health Science Center San Antonio, TX.

November 2008 Chairperson CME activity "Nothing To Sneeze At: Antivirals in the Treatment and Prevention of Seasonal Influenza." Hosted on Medscape, developed by DIME, Chicago, IL.

2008 Author, Webinar on Influenza Management, Prevention, and Control Strategies Webinar, <http://influenzawebinar.stream57.com/>; sponsored by Roche Laboratories and developed by Medical Decision Point, Monvale, NJ

2007-2024 Author, “Bordetella and Neisseria” “Diphtheria, Listeria, Bacillus”, syllabus chapter, Block 5 Infectious Disease Module, Microbiology course, Baylor College of Medicine Undergraduate Medical Education, Houston, TX.