

**A. PERSONAL EXPERIENCE****PERSONAL INFORMATION**

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<b>Nationality</b>	U.S. Citizen
<b>Marital Status</b>	Married
<b>Mailing address</b>	American University of Beirut Faculty of Medicine Department of Pediatrics P.O.Box 110236 Riad El Solh Beirut 1107 2020 Beirut – Lebanon
<b>E-mail</b>	<a href="mailto:kayunis@aub.edu.lb">kayunis@aub.edu.lb</a> <a href="mailto:kayunis@hotmail.com">kayunis@hotmail.com</a>
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<b>Languages</b>	English, French and Arabic

**EDUCATION AND POSTGRADUATE TRAINING**

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<b>April 2000 &amp; July 2000</b>	Workshops in Evidence Based Medicine Oxford University England
<b>April 93 &amp; June 93</b>	Training in Extracorporeal life support, E.C.L.S, (E.C.M.O.) Austin, TX
<b>July 86 - June 89</b>	Fellow in Neonatal Perinatal Medicine Women and Infants Hospital of Rhode Island Assistant Instructor in Pediatrics Division of Biology and Medicine Brown University
<b>July 85 - June 86</b>	M. Pollack Fellow in Neonatal Perinatal Medicine Sir Mortimer B. Davis-General Hospital McGill University Neonatology Program Montreal, Canada
<b>July 82 - June 85</b>	Pediatric Residency The Montreal Children's Hospital McGill University Montreal, Canada
<b>July 80 - June 82</b>	Pediatric Residency American University of Beirut Medical Center

	Beirut, Lebanon
<b>July 79 - June 80</b>	Intern in Pediatrics American University of Beirut Medical Center Beirut, Lebanon
<b>1979</b>	Educational Commission for Foreign Medical Graduate ECFMG Certificate No. 310-133-3 (Valid Indefinitely, No. A304) Beirut, Lebanon
<b>1980</b>	Medical Doctor (MD) American University of Beirut Beirut – Lebanon

#### BOARD CERTIFICATION

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<b>September 1991</b>	Neonatal Perinatal Medicine, Re-certified 1997
<b>June 1989</b>	American Board of Pediatrics, Re-certified 1998

#### MEDICAL LICENSURE

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<b>December 1989</b>	Texas License, No. H6755 ( <b>active</b> )
<b>June 1986</b>	FLEX examination, Identification No. 000067176
<b>1986 – 1989</b>	Temporary License, Providence, RI
<b>1982 – 1986</b>	Temporary License, Montreal, Canada
<b>September 1982</b>	Specialist in Pediatrics, Lebanon
<b>1995</b>	Specialist In Neonatology

#### PROFESSIONAL SOCIETY MEMBERSHIPS

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<b>2018</b>	Member American Pediatric Society APS
<b>2016- present</b>	American Academy of Pediatrics
<b>1992 - 1995</b>	Texas Medical Foundation
<b>1992 – 1995</b>	Texas Pediatric Association
<b>1992 – 1995</b>	Greater Dallas Pediatric Society
<b>1990 – 1995</b>	Texas Medical Association and the Dallas County Medical Society
<b>1990 - 2008</b>	Fellow of the American Academy of Pediatrics
<b>1988 – 1994</b>	American Medical Association
<b>1982 - Present</b>	Lebanese Order of Physicians

## CURRENT AND PREVIOUS HOSPITAL AFFILIATION

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- Children's Medical Center, Dallas, TX: Associate Staff
- Presbyterian Hospital, Dallas, TX: Active Staff
- St Paul Medical Center, Dallas, TX: Teaching Staff
- Parkland Memorial Hospital, Dallas, TX: Consulting Staff
- Medical Center of Plano, Plano, TX: Courtesy Staff
- Presbyterian Hospital, Plano, TX: Courtesy Staff
- Irving Community Hospital, Irving, TX: Courtesy Staff
- Richardson Baylor Medical Center, Richardson, TX: Courtesy Staff
- HCA Medical Center, Lewisville, TX: Courtesy Staff
- American University of Beirut Medical Center

## POSITIONS HELD

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<b>2022-2025</b>	Board Designated Professorship, American University of Beirut
<b>2018-2023</b>	Tenured Professor of Pediatrics and Adolescent Medicine American University of Beirut
<b>2014-Present</b>	Core faculty, Department of Pediatrics, American University of Beirut
<b>2011 – August 2013</b>	Vice chair for clinical affairs, Department of Pediatrics, American University of Beirut
<b>2011 – 2012</b>	Vice Chair, Institutional Review board, Biomedical ethics, American University of Beirut
<b>2011- present</b>	Founder and Custodian The Neonate Fund
<b>October 07 – Present</b>	Professor of Pediatrics Head, Division of Neonatology American University of Beirut
<b>October 01 – September 07</b>	Associate Professor of Pediatrics Director of Newborn Services American University of Beirut
<b>April 98 – Present</b>	Founder and Director National Collaborative Perinatal Neonatal Network (NCPNN) American University of Beirut Medical Center
<b>August 95 – July 01</b>	Assistant Professor of Pediatrics Director of Newborn Services American University of Beirut
<b>July 93 - July 95</b>	Clinical Teaching Staff

University of Texas Southwestern Medical Center  
Dallas, TX

<b>October 91 - July 95</b>	Neonatologist Presbyterian Hospital of Dallas and HCA Hospital of Plano, TX
<b>September 90 - October 91</b>	Director Neonatal Nutrition Support Team, Special Care Nursery Parkland Memorial Hospital, University of Texas Southwestern Medical Center Dallas, TX
<b>July 89 - October 91</b>	Assistant Professor of Pediatrics University of Texas Southwestern Medical Center. Dallas, TX

#### COMMITTEES AND TASK FORCES

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<b>2023</b>	Chairperson, Taskforce on perioperative hypothermia
<b>2021-2022</b>	Member, faculty promotion committee, department of pediatrics and adolescent medicine.
<b>2019-2021</b>	FM Representative on the "Tenure and Promotion Appeals Committee", American University of Beirut Medical Center
<b>2017-2018</b>	Co-advisor on the thesis committee of Master's student Ghaliya Noaimi at the faculty of Health Sciences
<b>2017</b>	EPIC program Physician
<b>2015-present</b>	Member, Program evaluation Committee
<b>2015</b>	Member, ED Borders Taskforce, American University of Beirut Medical Center
<b>2015</b>	Member, Patient Attribution Taskforce, American University of Beirut Medical Center
<b>2010 and 2015</b>	Expanded FHS Advisory Committee Faculty of Health Sciences American University of Beirut
<b>2010-2014</b>	Chair, Infant and Baby Identification Taskforce, American University of Beirut Medical Center
<b>2012-2016</b>	Member, Medical Advisory Committee, American University of Beirut Medical Center
<b>2012- 2014</b>	Member, Blood Utilization Committee, American University of Beirut Medical Center

<b>2012-present</b>	Member, Performance Improvement Committee, American University of Beirut Medical Center
<b>2012-August 2013</b>	Team leader, Pediatrics Private Clinics Collaborative Practice Team, American University of Beirut Medical Center
<b>2012-Present</b>	Team leader, NICU Collaborative Practice Team, American University of Beirut Medical Center
<b>2011 – 2013</b>	Member, Search Committee for the chair of the Department of Emergency Medicine, American University of Beirut
<b>2011 – 2012</b>	Member of the Critical Care Committee, American University of Beirut Medical Center

#### DIVISION ACTIVITIES

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<b>2013- present</b>	Coordinator, weekly Case Review, Division of Neonatology, American University of Beirut Medical Center
<b>2013- present</b>	Coordinator, weekly Core Curriculum Lecture, Division of Neonatology, American University of Beirut Medical Center
<b>2008- Present</b>	Coordinator, weekly Perinatal Neonatal Journal Club, Division of Neonatology, American University of Beirut Medical Center

#### JOURNAL EDITORIAL BOARDS

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International advisory board Member for:

- *Neoreviews* by the American Academy of Pediatrics (2010-2020)
- *Maternal and Child Health Journal* by Springer

#### PEER REVIEW

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Asked to review research papers/ commentaries in the following journals:

- Manuscript reviewer Springer Journals
- Abstract Reviewer PAS 2018 Meeting
- Abstract Reviewer PAS 2017 Meeting
- Maternal and Child Health Journal
- BMC Public Health
- The Lancet -Elsevier Publishers
- Journal of Clinical Laboratory Analysis
- British Medical Journal
- Pediatrics
- WHO Reproductive Health Library Journal
- WHO Bulletin

## SIGNIFICANT ACCOMPLISHMENTS

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<b>2011-Present</b>	Founded the Neonate Fund, supported by a volunteer group of mothers, aiming at financially supporting needy newborns admitted to the Neonatal Intensive care unit at the American University of Beirut Medical Center
<b>2011-Present</b>	Supported 500 newborns admitted to the Neonatal Intensive Care Unit at the American University of Beirut Medical Center, financially from the Neonate Fund
<b>2011-Present</b>	Established the first National Birth Defects Surveillance system in Lebanon in Collaboration with the Ministry of Public Health and the Center for Disease Control and Prevention
<b>2011</b>	Overlooked the renovation and expansion of the Neonatal Intensive Care Unit to become a state-of-the-art unit, providing the highest standards of quality care
<b>2006- Present</b>	Established the Regional Bi-Annual meeting of the National Collaborative Perinatal Neonatal Network NCPNN, addressing hot topics in Maternal and Newborn Health, hosting international key stakeholders
<b>2008</b>	Established the first Neonatal Resuscitation Program in Lebanon
<b>2003</b>	Organized KIBARUNA event, honoring for the first time elder AUB doctors, graduate of the faculty of medicine from all over the world. The event featured meeting with the President of the Lebanese republic, and AUB President
<b>2003</b>	Published SCAN: the medical alumni journal, for the first time to commemorate the Kibaruna event
<b>2003</b>	Established the tradition of honoring and celebrating the graduation of the new medical doctors and the honoring of AUBMC physicians who contributed significantly to AUB, the community and the medical alumni chapter
<b>1996- Present</b>	Founded the National Collaborative Perinatal Neonatal Network in Lebanon – NCPNN, the first surveillance system of it's kind in Lebanon and the Region

## HONORS

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<b>2023</b>	<b>Hot topics in Neonatology 2023</b> , CLABSI project publication, recognized among the top 8 publications in quality care, during the session on <b>Neonatal Quality</b>
<b>2023</b>	Exemplary Unit of the Year Award: Neonatal Intensive Care Unit- AUBMC
<b>2023</b>	Outstanding Community Service of the Year Award: Clinical and Professional Development Center & Neonatal Intensive Care Unit-AUBMC

<b>2020</b>	Panelist representing EMRO, LAUNCH OF NEW BIRTH DEFECTS SURVEILLANCE TOOLKIT Webinar, Organized by WHO, CDC, ICBDSR and March of Dimes. December 2, 2020.
<b>2020</b>	Invited Technical expert, to participate in a research prioritization exercise particularly in the prevention and management of preterm birth. NIHR global health research, PRIME.
<b>2019-2021</b>	Elected FM Representative on the “Tenure and Promotion Appeals Committee”, American University of Beirut
<b>2019</b>	Appointed to serve as a technical expert on the Global WHO birth defects technical working group (BD TWG)
<b>2018</b>	Elected member in the American Pediatric Society APS
<b>2016</b>	Board Member “ Step Together Association”
<b>2015</b>	Teacher of the year-Department of Pediatrics, AUBMC
<b>2013 and 2015</b>	Member of the Scientific Committee for the 7th International Conference on Birth Defects and Disabilities, sponsored by the March of Dimes (MOD), Center for Disease Control (CDC), National Institute of Health (NIH)
<b>2015</b>	Member of the Expert Meeting of the OIC Network on Population and Reproductive, Maternal, New-born and Child Health (OIC RMNCH Network), Ankara, Turkey, from 4 - 6 November 2015.
<b>2015</b>	Member of HRP Alliance Regional Research Committee (RRC) for Africa and Eastern Mediterranean Region
<b>2015-present</b>	Reviewer Maternal and Child Health Journal
<b>2014</b>	Nurses Award for Best Patient Advocate Physician
<b>2014</b>	Invited Speaker: Estimating Burden of Disease for Congenital Disorders Increasing the Input Data and Harmonizing Methods School of Hygiene & Tropical Medicine, London.
<b>2012</b>	Member of the Technical Review Team for the landmark report on preterm birth, <i><b>Born Too Soon: A Global Action Report on Preterm Birth.</b></i> Together with the March of Dimes Foundation and Saving Newborn Lives/Save the Children USA
<b>2011</b>	Member Technical steering committee: Global Networks for the prevention of Birth Defects and preterm Birth.5th International Conference on Birth Defects and Disabilites in the Developing World, Poland, Sponsored by the March of Dimes (MOD), Center for Disease Control (CDC), National Institute of Health (NIH)

<b>2011</b>	Member WHO guidelines development
<b>2010</b>	Member Child Health and Nutrition Knowledge Network (CHNKN) Child Health and Nutrition Research Initiative (CHNRI) Finding solutions for global child health-New Delhi
<b>2010</b>	Member of the International Advisory committee “ <i>China population-based surveillance of birth defects and developmental disabilities</i> ” CDC-RFA-DD10-1010: “Surveillance of neural tube defects and other birth defects in low and middle income countries”. Principle Investigator: Nanbert Zhong, MD
<b>2010- 2016</b>	Member of the Technical Steering Committee Department of Maternal, Newborns, Child and Adolescent health, (WHO- Geneva)
<b>2009</b>	Elected faculty representative to the Board of Trustees
<b>2009</b>	Preceptor Associate, Master of Public Health Program, Faculty of Health Sciences, American University of Beirut
<b>2009</b>	Vice president, National Committee to Monitor Maternal and Infant Mortality in Lebanon, Ministry of Public Health (MOPH- Lebanon)
<b>2009</b>	Member, National Committee on Maternal and Newborn health care in Lebanon, Ministry of Public Health (MOPH- Lebanon)
<b>2008</b>	Teacher of the year-Department of Pediatrics, AUBMC
<b>2006</b>	Honored by the Graduating Medical Class of 2006
<b>2006</b>	Received the Lebanese Order of Physicians Gold Shield in recognition of the Medical Alumni Chapter achievement
<b>2006</b>	Member technical steering committee: Strengthening Newborn Screening in the Middle East and North Africa. Sponsored by the National Institute for Child Health and Human Development ( <b>NICHD</b> ), <b>Morocco</b>
<b>2005</b>	Invited Speaker: The National Collaborative Perinatal Neonatal Network: a Multidisciplinary approach to improve perinatal health through surveillance, research and intervention. <i>National Center on Birth Defects and Developmental Disabilities (NCBDD), the Center for Disease control and Prevention (CDC), Atlanta US</i> , December, 2005.
<b>2005</b>	Elected to the <i>Society of Pediatric Research (SPR)</i>
<b>2003</b>	Elected to the <i>Alpha Omega Alpha Honor Medical Society</i>
<b>2002 – 2005</b>	Elected Senator American University of Beirut
<b>2004-2007</b>	Elected President for a second term



Medical Chapter Alumni Association  
American University of Beirut

**2001-2004**

Elected President  
Medical Chapter Alumni Association  
American University of Beirut

#### **PRODUCTIONS:**

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2015-2016	Developed a 35 minutes TVC/Video on preconception care that was aired on local televisions, radios and will be played in clinic waiting areas in collaboration with the Ministry of Public health and the Center for Disease Control and Prevention- CDC
2012-2013	Developed educational materials in English and Arabic on preconception care and distributed to women at child bearing age through health days campaigns across the country in collaboration with the Lebanese Society for Obstetrics and Gynecology-LSOG and the Center for Disease Control and Prevention-CDC
2010-2012	Developed a birth defects manual in English, Arabic and French, distributed to all hospitals in Lebanon and available online in collaboration with the Ministry of Public health, the March of Dimes-MOD and the Center for Disease Control and Prevention- CDC
2007- 2009	Developed NCPNN website. The website contains information on the network, publications and projects.

#### **COLLABORATIONS:**

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### **I. WORLD HEALTH ORGANIZATION - WHO**

#### **A. WHO GUIDELINES:**

<b>2022</b>	Technical Advisory Group for Care for Small or Sick Newborn Course
<b>2022</b>	Guideline Development Group meeting: WHO recommendations on antenatal corticosteroids and tocolytic agents.
<b>2021</b>	GDG-WHO guidelines for care of the preterm or LBW infant.
<b>2021</b>	WHO consultation - Research priorities related to WHO Labour Care Guide.

<b>2021</b>	<p><b>WHO recommendation on Routine antibiotic prophylaxis for women undergoing operative vaginal birth.</b>  <a href="https://apps.who.int/iris/bitstream/handle/10665/341862/9789240027992-eng.pdf">https://apps.who.int/iris/bitstream/handle/10665/341862/9789240027992-eng.pdf</a></p> <p><b>WHO recommendation on Prophylactic antibiotics for women undergoing caesarean section.</b>  <a href="https://apps.who.int/iris/bitstream/handle/10665/341865/9789240028012-eng.pdf">https://apps.who.int/iris/bitstream/handle/10665/341865/9789240028012-eng.pdf</a></p> <p><b>WHO recommendations on Choice of antiseptic agent and method of application for preoperative skin preparation for caesarean section.</b>  <a href="https://apps.who.int/iris/bitstream/handle/10665/341864/9789240028036-eng.pdf">https://apps.who.int/iris/bitstream/handle/10665/341864/9789240028036-eng.pdf</a></p> <p><b>WHO recommendation on Vaginal preparation with antiseptic agents for women undergoing caesarean section.</b>  <a href="https://apps.who.int/iris/bitstream/handle/10665/341863/9789240028050-eng.pdf">https://apps.who.int/iris/bitstream/handle/10665/341863/9789240028050-eng.pdf</a></p>
<b>2020</b>	WHO external review group – Guidelines for prevention and treatment of peripartum infections
<b>2020</b>	WHO Scoping meeting for WHO guidelines for care of the preterm and small for gestational age infant
<b>2017 – 2019</b>	Maternal and Perinatal Health (GDG-MPH)
<b>In process</b>	Guidelines on intrapartum care and reduction of caesarean section
<b>2016</b>	Screening, assessment and management of neonates and infants with complications associated with Zika virus exposure in utero
<b>2016</b>	Zika virus-microcephaly Emergency guidelines
<b>2015</b>	WHO recommendations on interventions to improve preterm birth outcomes
<b>2015</b>	Management of possible serious infection in young infants
<b>2011</b>	Vitamin A Supplementation in Infants and Children 6–59 Months of Age

## **B. INVITED COMMITTEE MEMBER/ TEMPORARY ADVISOR/ GUIDELINES DEVELOPMENT**

<b>April 2023</b>	Member, Technical advisory group on norms for small and/or sick newborn care WHO-UNICEF
<b>December 2022</b>	Member, Antenatal Corticosteroids for Improving Outcomes in Preterm Newborns) Action III Trials Advisory Group (TAG) Meeting December 9, 2022. WHO Geneva, Switzerland

<b>September 2022</b>	Member, Experts Care for Small or Sick Newborn Course 1st TAG meeting, September 12, 2022. WHO Geneva, Switzerland
<b>September 2022</b>	Member, Birth Defects Technical Working Group. September 26, 2022. WHO Geneva, Switzerland
<b>March 2022</b>	Scoping meeting for WHO recommendations for serious bacterial infection in infants aged 0-59 months
<b>February 2022</b>	Guideline Development Group meeting: WHO recommendations on antenatal corticosteroids and tocolytic agents. WHO Geneva, Switzerland
<b>November 2021</b>	Guidelines development group member. WHO guidelines for care of the preterm or LBW infant. WHO Geneva, Switzerland
<b>November 2021</b>	Consultant. Research priorities related to WHO Labour Care Guide. WHO Geneva, Switzerland
<b>March 2020</b>	Member, ENAP ACS Indicator working group. Technical Consultation on Development of Every Newborn Action Plan Antenatal Corticosteroid Indicator. WHO Geneva, Switzerland
<b>December 2020</b>	Invited expert, WHO Scoping meeting for WHO guidelines for care of the preterm and small for gestational age infant. WHO Geneva, Switzerland
<b>November 2020</b>	Technical Advisor, Action III- trials: Advice on trial design and analysis strategy. DSMB & TAG meeting – 26th November 2020. WHO Geneva, Switzerland
<b>November 2020</b>	Action 2 trials Analysis report discussion, - 19 November, 2020. WHO Geneva, Switzerland
<b>October 2020</b>	Invited expert to score research questions for the COVID-19 research prioritization exercise in the area of maternal, newborn, child, and adolescent health (MNCAH). WHO-MCA SRH
<b>October 2020</b>	External reviewer, guidelines on prevention and treatment of maternal peripartum infections. WHO Geneva, Switzerland
<b>March 2020</b>	Invited to attend the meeting on ACTION-I Trial Next Steps, March 16-20, 2020. WHO Geneva, Switzerland
<b>March 2020</b>	Invited to attend the meeting on moving the ACTION trials forward, March 19-20, 2020. WHO Geneva, Switzerland
<b>August 2019</b>	Invited to attend the WHO ACTION Trials Workshop in Istanbul, Turkey on August 27-29. The Bill & Melinda Gates Foundation and WHO.

<b>May 2019</b>	Participant, ACTION Trials Steering Group Meeting May 2019, WHO Geneva, Switzerland
<b>June 2018</b>	Participant, Global Maternal Sepsis Study and Awareness Campaign advisory committee meeting, WHO Geneva
<b>January 2018</b>	Temporary advisor, Sepsis Technical Expert Meeting, WHO Geneva
<b>July 2017</b>	Temporary advisor, Odon Device Study: Independent Scientific Advisory Committee Meeting, WHO Geneva
<b>July 2017</b>	Temporary advisor, WHO Global Maternal Sepsis Study and Campaign Meeting, Geneva, Switzerland, WHO Geneva.
<b>July 2017</b>	Participant, Technical meeting on nurturing care for early childhood development, WHO Geneva.
<b>February 2017</b>	Panel discussant and participant, Technical consultation on strengthening capacity to enhance detection, care, support and services for complications associated with Zika virus, WHO Geneva
<b>July 2016</b>	Expert, Expert Meeting on the Prevention of Congenital and Genetic Disorders in the Eastern Mediterranean Region, London
<b>July 2016</b>	Member, WHO ACS Trial Steering Group, WHO Geneva
<b>July 2016</b>	Committee member, WHO ODON Device Study Scientific Advisory Committee Meeting, WHO Geneva
<b>May 2016</b>	Committee member, WHO Regional Research Committee Meeting for Africa and Eastern Mediterranean Regions
<b>April 2016</b>	Temporary Advisor, WHO/UNFPA/UNICEF Joint Intercountry Meeting of The National Managers of Maternal and Child Health: Towards Accelerating The Reduction of Neonatal Mortality in The Region
<b>April 2016</b>	Consultation on setting up a WHO expert group for monitoring maternal and newborn health, WHO Geneva
<b>April 2016</b>	Committee member, WHO next guidelines on intrapartum care and reduction of caesarean section Scoping Meeting, WHO Geneva
<b>March 2016</b>	Committee member, WHO guidelines group, Screening, assessment and management of neonates and infants with complications associated with Zika virus exposure in utero, WHO Geneva
<b>March 2016</b>	Committee member, Technical Steering Committee (TSC) meeting, Department of Maternal, Newborn, Child and Adolescent Health, WHO Geneva

<b>November 2015</b>	Temporary Advisor, WHO technical consultation on a proposed multi-country randomized trial of antenatal corticosteroids for women in preterm labor to improve newborn outcomes, 12-13 November 2015, (WHO - Geneva).
<b>November 2015</b>	Temporary Advisor, Technical Consultation on the WHO Application of ICD-10 to Perinatal Deaths (ICD-PM), 10-11 November 2015, (WHO - Geneva).
<b>January 2011-present</b>	Member of the Data Safety and Monitoring Board(DSMB), Department of Nutrition for Health and Development (NHD) of the World Health Organization (WHO - Geneva)
<b>November, 2010-2016</b>	Member of the Technical Steering Committee Department of Maternal, Newborns, Child and Adolescent health, (WHO- Geneva)
<b>September, 2010</b>	Technical Assistance to the Ministry of Health of Iraq: to conduct a pilot assessment of Congenital Birth Defects in six governorates in Iraq, World Health Organization (WHO - Iraq)
<b>December 2009</b>	Technical Assistance to the United Arab Emirates: evaluation of the Current Newborn Screening Program and meeting with the Minister of Health. World Health Organization (WHO - EMRO)
<b>October 2009</b>	Member of the formal Guideline group to provide advice to WHO and UNICEF in updating recommendations on the effects and safety of Vitamin A Supplementation in various populations. World Health Organization (WHO - Geneva)
<b>November 2009</b>	First Meeting of the Consortium for Evidence to Improve Implementation of Maternal, Newborn and Child Health Interventions, World Health Organization (WHO - Geneva)
<b>March 2009</b>	Temporary Advisor, The Multicounty Study on Maternal and Perinatal Health: Maternal Near miss and Preterm Birth, World Health Organization (WHO - Geneva)
<b>October 2008</b>	Temporary Advisor, Country Cooperation Strategies Mission, World Health Organization (WHO - Lebanon)
<b>November 2006</b>	Temporary Advisor, Inter-country Meeting of the National Managers of Making Pregnancy Safer in the Eastern Mediterranean Region World Health Organization (WHO - EMRO)
<b>May 2005</b>	Temporary Advisor, Technical Consultation to Establish National Birth Defects Registries in Countries of the Eastern Mediterranean Region World Health Organization (WHO - EMRO)

### **C. INVITED MEETING PARTICIPANT AND CONSULTANT:**

1. **Dr Sulaiman Al Habib 4th International Pediatric Conference**, Friday, January 27, 2023, Dubai (Invited speaker)
2. **13<sup>th</sup> International Arab Neonatal Care Conference**, September 23-25, 2022, Dubai .(Invited Speaker)
3. Invited Technical expert, Phase-2 of the research priority setting exercise on preterm birth prevention and management using the CHNRI method. **PRIME, the NIHR Global Health Research Group on Preterm Birth. November 2020.**
4. Invited to attend the Masimo Annual Neonatology Summit; an educational and training event conducted at the **2019 Middle East Neonatology Summit in Istanbul, Turkey on Nov 24-25, 2019.**
5. Invited to attend the WHO ACTION Trials Workshop. **The Bill & Melinda Gates Foundation and WHO, Istanbul Turkey on August 27-29, 2019.**
6. Participant, ACTION Trials Steering Group Meeting. **WHO Geneva, Switzerland May 2019.**
7. Global Maternal Sepsis Study and Awareness Campaign advisory committee meeting, **WHO Geneva, Switzerland, 27–28 June 2018.**
8. Temporary advisor, Sepsis Technical Expert Meeting, **WHO Geneva, 16-17 January 2018.**
9. First International Neonatology Quality Conference, **Muscat, Oman, November 29-30, 2017.** (Invited Speaker)
10. Temporary advisor, Odon Device Study: Independent Scientific Advisory Committee Meeting, **WHO Geneva, 17-18 July.**
11. Temporary advisor, WHO Global Maternal Sepsis Study and Campaign Meeting, **WHO Geneva, 19-20 July 2017.**
12. Participant, Technical meeting on nurturing care for early childhood development, **WHO Geneva, July 31-August 2, 2017.**
13. **Knowledge to Policy (K2P) Center AUB**, Policy Dialogue about Reducing Preventable Preterm Deliveries among Syrian Refugees in Lebanon, Beirut, Lebanon, **April 6, 2017.**
14. **WHO** Technical consultation on strengthening capacity to enhance detection, care, support and services for complications associated with Zika virus, **WHO Headquarters, Geneva 27-28 February 2017**
15. Expert Meeting on the Prevention of Congenital and Genetic Disorders in the Eastern Mediterranean Region, **London 29 to 31 July, 2016**
16. WHO ACS Trial Steering Group Meeting, **WHO Geneva, 26 to 28 July, 2016.**
17. WHO ODON Device Study Scientific Advisory Committee Meeting, **Geneva, July 6-7, 2016.**
18. WHO Regional Research Committee Meeting for Africa and Eastern Mediterranean Regions, **Casablanca, Morocco, 10 and 11 May 2016**

19. **WHO/UNFPA/UNICEF Joint Intercountry Meeting of The National Managers of Maternal and Child Health: Towards Accelerating The Reduction of Neonatal Mortality in The Region, Amman, Jordan, 24-27 April 2016 (moderator)**
20. Consultation on setting up a WHO expert group for monitoring maternal and newborn health, **WHO Headquarters, Geneva, April 18-19, 2016**
21. WHO next guidelines on intrapartum care and reduction of caesarean section Scoping Meeting, **WHO Geneva, April 12-14, 2016**
22. WHO Guideline Development Group – nutrition actions 2016-2018, **WHO Geneva, April 11-13, 2016.**
23. Committee member guideline development group, Emergency meeting on Zika Virus, **WHO Geneva, 17-19 March, 2016**
24. Technical Steering Committee (TSC) meeting, Department of Maternal, Newborn, Child and Adolescent Health **WHO Geneva, March, 15-17 2016**
25. Regional Meeting to Enhance Preparedness and Response Capacities to Zika Virus Infection, **WHO EMRO, Cairo, Egypt, 22-23 February 2016. (Invited speaker)**
26. Technical Consultation on the WHO Application of ICD-10 to Perinatal Deaths (ICD-PM), **WHO Geneva, November 10-11, 2015**
27. Technical consultation on use of antenatal corticosteroids in lower-income countries, **WHO Geneva, November 12-13, 2015**
28. 1st Meeting of the HRP Alliance Regional Research Committee (RRC) for Africa and Eastern Mediterranean Region - **Nairobi, Kenya, 9 to 11 June 2015**
29. Odon Device Trial: Independent Scientific Advisory Committee Meeting, **Geneva, Switzerland, 07-08 May 2015**
30. Preterm birth guideline scoping meeting World health organization, **WHO Geneva, May 12-14, 2014**
31. 4th meeting of the technical steering committee of Department of Maternal, Newborn, Child and Adolescent Health (MCA), **WHO/HQ, Geneva, 19-21 March, 2014.**
32. 4th Meeting for the Data Safety and Monitoring Board for trials on the efficacy of Newborn vitamin A supplementation in improving immune function, **WHO, Geneva, 16 August, 2013**
33. Consultation on “Improving Quality of Care for Mothers, Newborn Infants and Children in Health Facilities”, Organized by WHO and PMNCH, **WHO Geneva, December 9-11, 2013.**
34. Management of possible serious infections in young infants where referral is not possible: Scoping meeting to update WHO guidelines, WHO/HQ – Geneva, Switzerland, **7-8 October 2013**
35. 3rd meeting of the technical steering committee of Department of Maternal, Newborn, Child and Adolescent Health (MCA), **WHO/HQ, Geneva, 20-22 March, 2013**

36. The Preterm Birth Collective (PREBIC) meeting. **World health organization, Geneva, April 22-24, 2013.**
37. Preterm birth guideline scoping meeting **World health organization, Geneva, April 24, 2013.**
38. Technical meeting on secondary analyses of the WHO Multicountry Survey on Maternal and Perinatal Health, held at **WHO Headquarters in Geneva, 19-20 March 2013.**
39. The Preterm Birth Collective (PREBIC) meeting. **World health organization, Geneva, April 27-29, 2009.**
40. The Preterm Birth Collective (PREBIC) meeting. **World health organization, Geneva, April 20-23, 2008.**
41. Temporary advisor/consultant to the “Introductory workshop on networking for strengthening of maternal and neonatal health surveillance”, WHO EMRO **Manama, Bahrain, on 21 and 22 September 2013.**
42. WHO High-level Meeting on Saving the lives of Mother and Children, Dubai, **United Arab Emirates, 29-30 January 2013**
43. *World Health Organization meeting of the Regional Advisory Panel (RAP) for the African and Eastern Mediterranean Regions, (WHO - EMRO), Dakar, Senegal, November 2007.* (Invited Speaker)
44. *The First National Workshop for Prevention and Management of Birth Defects and Genetic Disorders in Oman*, World Health Organization (WHO) & march of Dimes Foundation (MOD), **Oman**, January 2007. (Invited speaker)
45. *Inter-country Meeting of the National Managers of Making Pregnancy Safer in the Eastern Mediterranean Region*, World Health Organization (WHO - EMRO), **Yemen**, November 2006. (Invited Speaker & Temporary Advisor)
46. *World Health Organization meeting of the Regional Advisory Panel (RAP) for the African and Eastern Mediterranean Regions, (WHO -EMRO), Alexandria, Egypt*, November 2006. (Invited Speaker)
47. **Yunis KA.** Neonatal screening programme in Lebanon. **WHO - CDC** collaborative Technical Consultation to *Establish National Birth Defects Registries in Countries of the Eastern Mediterranean Region*, **Cairo**, May 2005. (Invited Speaker)
48. Moderator, *The First National Workshop for Prevention and Management of Birth Defects and Genetic Disorders in Oman*, World Health Organization (WHO) & march of Dimes Foundation (MOD), **Oman**, January 2007.
49. NCPNN Site visit by WHO EMRO for evaluation and consultancy on regional collaborations, March 2010

## **II. CENTER FOR DISEASE CONTROL AND PREVENTION – CDC 2012-2015**



1. Establishing a National Birth Defect Surveillance in Lebanon in partnership with the Center for Disease Control and Prevention and Lebanese Ministry of Public Health – CDC, 2011-2015
2. Reverse site visit as principle investigator for the project: “Birth Defects Surveillance System in a Middle Income Country: Successes and Challenges” **Center for Disease Control and Prevention** CDC ,July 21-23, 2015
3. Invited Speaker:
  - A. *National Birth Defects Prevention Network Annual Meeting. CDC, Atlanta*, February 2013
  - B. *National Birth Defects Prevention Network Annual Meeting. Virginia*, February 2012
  - C. The National Collaborative Perinatal Neonatal Network: a Multidisciplinary approach to improve perinatal health through surveillance, research and intervention. *National Center on Birth Defects and Developmental Disabilities (NCBDD), the Center for Disease control and Prevention (CDC), Atlanta US*, December, 2005.
4. Total support nears \$800,000.

### III. MARCH OF DIMES FOUNDATION 2008-2021

#### 1. GLOBAL NETWORK FOR MATERNAL AND INFANT HEALTH (GNMIH)

Founded by the March of Dimes (MOD) in 2008 and included Brazil, China, Philippines and Lebanon and currently the network includes Lebanon and the Philippines. NCPNN was recognized for the infrastructure in surveillance that it established in Lebanon and the quality of data it produced. The Network was invited to join the global network based on its structure and contribution to the Maternal and Neonatal health. Collaborations included several projects on preconception health including education intervention in high schools and currently worksites through the work wellness program. In addition to publishing several original articles with GHMIH and MOD, I was a member of the technical review team for the 2012 report Born Too soon on Preterm birth. Total support rounds down to \$722,000.

### IV. LONDON SCHOOL OF HYGIENE AND TROPICAL MEDICINE:

VULNERABLE NEWBORNS MEASUREMENT COLLABORATIVE GROUP 2021.  
NCPNN at AUBMC, partner institution from EMRO to contribute data on prematurity and birth weight.

#### Other Administrative Positions

<b>2003 –2005</b>	Coordinator Neonatal Resuscitation: Animal Laboratory and Workshop
<b>May 98</b>	Coordinator, Neonatal Transport Project American University of Beirut Medical Center
<b>July 96 – 2002</b>	Co-organizer Yearly CPR, for pediatric residents

American University of Beirut

**INSTITUTIONAL POLICIES**

**VOLUME I: PATIENT-CENTERED STANDARDS**

**Access to Care and Continuity of Care**

1. Criteria for discharge from NICU
2. Criteria for admission to NICU
3. Guidelines for the Transport of Neonatal Intensive Care Infants within the Hospital
4. Admission and Discharge Criteria for Newborn Nursery
5. Neonatal Sepsis
6. Guidelines for Attendance at High Risk Deliveries by a Neonatologist
7. Coordination of Care of Prenatally Diagnosed Conditions

**Patient and Family Rights**

8. Visiting Regulations in NICU

**Patient and Family Education**

9. Breastfeeding

**Assessment of Patients**

10. Assessment of Infants on Pulse Oximeter

**Care of Patients**

11. Assist Physicians in Suprapubic Urine Collection in Infants
12. Assist Physicians in Bladder Catheterization (In and Out)
13. Impaired Skin Integrity Predication and Prevention-Neonates
14. Considerations in Chest Tube Handling and Care in Infants
15. Circumcision Care
16. Collection, Storage, and Administration of Expressed Breast Milk
17. Venous Access Devices in ICN: Insertion, Handling, and Care
18. Lumbar Puncture Procedure in Infants
19. Neonatal Hypoglycemia Guidelines
20. Transabdominal Tube Care and Feeding in Infants
21. Initiation of Peripheral Intravenous Access in Infants
22. Initiation of Peripheral Intravenous Access in Infants
23. Pulse Oximetry Screening for Critical Congenital Heart Diseases in Healthy-Appearing Newborns
24. Baby bath
25. Neonatal Therapeutic Hypothermia

- 26. Insertion of Nasogastric or Orogastic Tube and Feeding in Infants
- 27. Administration of Enteral Feeding in Infants
- 28. Endotracheal Suction in Neonates
- 29. Care of Infants on Phototherapy Treatment
- 30. Ventilatory Management in ICN
- 31. Oropharyngeal and Nasopharyngeal Route Suctioning in Infants
- 32. Care of Infants on Nitric Oxide Therapy
- 33. Positioning Infant in NICU

#### Medication Management and Use

- 34. Maternal Medications and Breast Milk
- 35. Double Verification of Medications in ICN

### **VOLUME II: HEALTH CARE ORGANIZATION MANAGEMENT STANDARDS**

#### Management of Communication and Information

- 36. Delivery Room Care of Infants at the Threshold of Viability

#### Prevention and Control of Infections

- 37. Skin Care

#### Governance Leadership and Direction

- 38. Newborn Services Scope of Services and Hours of Operation
- 39. Newborn Services Personnel

#### Facility Management and Safety

- 40. Physical Facilities
- 41. Types of Beds Used in Nursery Units

#### Patient and Family Rights (PFR)

- 42. Visiting Regulation in ICN

## 43. B. RESEARCH

### PUBLICATIONS

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1. Alzaghouh A, Rahimpour-Marnani P, **Yunis K**, Alamgir A, Alghalyini B, Tamim H. Characteristics of Self-Rated Oral Health among Syrian Refugee Parents in Ontario. **Int J Dent.** 2023 Nov 24;2023:4136520. doi: 10.1155/2023/4136520.
2. Okwaraji YB, Suárez-Idueta L, Ohuma EO, Bradley E, Yargawa J, Pingray V, Cormick G, Gordon A, Flenady V, Horváth-Puhó E, Sørensen HT, Sakkeus L, Abuladze L, Heidarzadeh M, Khalili N, **Yunis KA**, Al Bizri A, Karalasingam SD, Jeganathan R, Barranco A, van Dijk AE, Broeders L, Alyafei F, AlQubaisi M, Razaz N, Söderling J, Smith LK, Matthews RJ, Wood R, Monteath K, Pereyra I, Pravia G, Lisonkova S, Wen Q, Lawn JE, Blencowe H; National Vulnerable Newborn Collaborative Group for Stillbirths. Stillbirths: contribution of preterm birth and size-for-gestational age for 125.4 million total births from nationwide records in 13 countries, 2000 to 2020. **BJOG.** 2023 Nov 29. doi: 10.1111/1471-0528.17653.
3. Suárez-Idueta L, Ohuma EO, Chang CJ, Hazel EA, Yargawa J, Okwaraji YB, Bradley E, Gordon A, Sexton J, Lawford HLS, Paixao ES, Falcão IR, Lisonkova S, Wen Q, Velebil P, Jírová J, Horváth-Puhó E, Sørensen HT, Sakkeus L, Abuladze L, **Yunis KA**, Al Bizri A, Alvarez SL, Broeders L, van Dijk AE, Alyafei F, AlQubaisi M, Razaz N, Söderling J, Smith LK, Matthews RJ, Lowry E, Rowland N, Wood R, Monteath K, Pereyra I, Pravia G, Lawn JE, Blencowe H; National Vulnerable Newborn Mortality Collaborative Group and the Vulnerable Newborn Measurement Core Group. Neonatal mortality risk of large-for-gestational-age and macrosomic live births in 15 countries, including 115.6 million nationwide linked records, 2000-2020. **BJOG.** 2023 Nov 27. doi: 10.1111/1471-0528.17706.
4. Care of Preterm or Low Birthweight Infants Group. Gary L. Darmstadt, Nafisa Hamoud Al Jaifi, Shabina Arif, Rajiv Bahl, Mats Blennow, Vanessa Cavallera, Doris Chou, Roger Chou, Liz Comrie-Thomson, Karen Edmond, Qi Feng, Patricia Fernandez Riera, Lawrence Grummer-Strawn, Shuchita Gupta, Zelee Hill, Ayede Adejumoke Idowu, Carole Kenner, Victoria Nakibuuka Kirabira, Reinhard Klinkott, Socorro De Leon-Mendoza, Silke Mader, Karim Manji, Rhonda Marriott, Monica Morgues, Sushma Nangia, Anayda Portela, Suman Rao, Mohammad Shahidullah, Hoang Thi Tran, Andrew D. Weeks, Bogale Worku, **Khalid Yunis**. **EClinicalMedicine.** 2023. (Online ahead of print) <https://doi.org/10.1016/j.eclinm.2023.102155>
5. Care of Preterm or Low Birthweight Infants Group. Gary L. Darmstadt, Nafisa Hamoud Al Jaifi, Shabina Arif, Rajiv Bahl, Mats Blennow, Vanessa Cavallera, Doris Chou, Roger Chou, Liz Comrie-Thomson, Karen Edmond, Qi Feng, Patricia Fernandez Riera, Laurence Grummer-Strawn, Shuchita Gupta, Zelee Hill, Ayede Adejumoke Idowu, Carole Kenner, Victoria Nakibuuka Kirabira, Reinhard Klinkott, Socorro De Leon-Mendoza, Silke Mader, Karim Manji, Rhonda Marriott, Monica Morgues, Sushma Nangia, Suman Rao, Mohammad Shahidullah, Hoang Thi Tran, Andrew D. Weeks, Bogale Worku, **Khalid Yunis**. Research priorities for care of preterm or low birth weight infants: health policy. **EClinicalMedicine.** 2023. (Online ahead of print) <https://doi.org/10.1016/j.eclinm.2023.102126>
6. Ayah Al Bizri, Rima Hanna Wakim, Alaa Obeid, Tania Daaboul, Lama Charafeddine, Nabil Mounla, Pascale Nakad, **Khalid Yunis**. A Quality Improvement Initiative to Reduce Central Line-Associated Bloodstream Infections in a Neonatal Intensive Care

Unit in a Low-Middle-Income Country. **BMJ Open Quality** 2023;12:e002129. doi:10.1136/bmjoq-2022-002129

7. Aseel Alzaghou, Rama Eloulabi, Paniz Fotoohi, **Khalid Yunis**, Hala Tamim. Characteristics Associated with Fear of COVID-19 among Syrian Refugee Parents in Canada. **Medical Research Archives**. July 2023. doi: <https://doi.org/10.18103/mra.v11i7.2.4131>.
8. National Vulnerable Newborn Measurement Group, and the Subnational Vulnerable Newborn Measurement Group. Joy E Lawn, Eric O Ohuma, Ellen Bradley, Lorena Suárez Idueta, Elizabeth Hazel, Yemisrach B Okwaraji, Daniel J Erchick, Judith Yargawa, Joanne Katz, Anne C C Lee, Mike Diaz, Mihretab Salasibew, Jennifer Requejo, Chika Hayashi, Ann-Beth Moller, Elaine Borghi, Robert E Black, Hannah Blencowe, with The Lancet Small Vulnerable Newborn Steering Committee, the WHO/UNICEF Preterm Birth Estimates Group. Small babies, big risks: global estimates of prevalence and mortality for vulnerable newborns to accelerate change and improve counting. **Lancet**. 2023 May 5; S0140-6736(23)00522-6. doi: 10.1016/S0140-6736(23)00522-6
9. National Vulnerable Newborn Mortality Collaborative Group and Vulnerable Newborn Measurement Core Group. Lorena Suárez-Idueta, Hannah Blencowe, Yemisrach B Okwaraji, Judith Yargawa, Ellen Bradley, Adrienne Gordon, Vicki Flenady, Enny S Paixao, Mauricio L Barreto, Sarka Lisonkova, Qi Wen, Petr Velebil, Jitka Jírová, Erzsebet Horváth-Puhó, Henrik Toft Sørensen, Luule Sakkeus, Liili Abuladze, **Khalid A Yunis**, Ayah Al Bizri, Arturo Barranco, Lisa Broeders, Aimée E van Dijk, Fawziya Alyafei, Tawa O Olukade, Neda Razaz, Jonas Söderling, Lucy K Smith, Elizabeth S Draper, Estelle Lowry, Neil Rowland, Rachael Wood, Kirsten Monteath, Isabel Pereyra, Gabriella Pravia, Eric O Ohuma, Joy E Lawn. Neonatal mortality risk for vulnerable newborn types in 15 countries using 125.5 million nationwide birth outcome records, 2000-2020. **BJOG**. 2023 May 8. doi: 10.1111/1471-0528.17506
10. Vulnerable Newborn Prevalence Collaborative Group and Vulnerable Newborn Measurement Core Group. Suárez-Idueta L, Yargawa J, Blencowe H, Bradley E, Okwaraji YB, Pingray V, Gibbons L, Gordon A, Warrilow K, Paixao ES, Falcão IR, Lisonkova S, Wen Q, Mardones F, Caulier-Cisterna R, Velebil P, Jírová J, Horváth-Puhó E, Sørensen HT, Sakkeus L, Abuladze L, Gissler M, Heidarzadeh M, Moradi-Lakeh M, **Yunis KA**, Al Bizri A, Karalasingam SD, Jeganathan R, Barranco A, Broeders L, van Dijk AE, Huicho L, Quezada-Pinedo HG, Cajachagua-Torres KN, Alyafei F, AlQubaisi M, Cho GJ, Kim HY, Razaz N, Söderling J, Smith LK, Kurinczuk J, Lowry E, Rowland N, Wood R, Monteath K, Pereyra I, Pravia G, Ohuma EO, Lawn JE. Vulnerable newborn types: Analysis of population-based registries for 165 million births in 23 countries, 2000-2021. **BJOG**. 2023 May 8. doi: 10.1111/1471-0528.17505
11. World Health Organization Labour Care Guide Research Prioritization Group. Global research priorities related to the World Health Organization Labour Care Guide: results of a global consultation. *Reprod Health*. 2023 Apr 7;20(1):57. doi: 10.1186/s12978-023-01600-4.
12. Zareef R, Anka M, Hatab T, El Rassi I, Yunis K, Bitar F, Arabi M. Tamponade and massive pleural effusions secondary to peripherally inserted central catheter in neonates-A complication to be aware of. **Front Cardiovasc Med**. 2023 Feb 17;10:1092814. doi: 10.3389/fcvm.2023.1092814
13. Maalouf FI, Saad T, Zakhour R, **Yunis K**, Successful Establishment and Five-Year Sustainability of a Neonatal-Specific Antimicrobial Stewardship Program in a Low Middle-Income Country. **Front Pharmacol**. 2023 Jan 4;13:1076392. doi: 10.3389/fphar.2022.1076392.

14. New WHO recommendations for the care of preterm or low birthweight infants have the potential to transform maternal and newborn health-care delivery. **Care of Preterm or Low Birthweight Infants Group. Lancet.** 2022 Nov 26;400(10366):1828-1831. doi: 10.1016/S0140-6736(22)02186-9. Epub 2022 Nov 16. PMID: 36400093
15. Debra A. Goff Pharm.D., FCCP, Timothy P. Gauthier Pharm.D., Bradley J. Langford Pharm.D., Pavel Prusakov Pharm.D., M Ubaka Chukwuemka Ph.D., Benedict C. Nwomeh M.D., **Khalid A. Yunis M.D.**, Therese Saad EMHCL, Dena van den Bergh EngD, Maria Virginia Villegas M.D., NeNela Martinezla Martinez BPharm, Andrew Morris M.D., Diane Ashiru-Oredope Ph.D., Philip Howard FRPharmS, Pablo J. Sanchez M.D. "Global Resilience and New Strategies Needed for Antimicrobial Stewardship during the COVID-19 Pandemic and Beyond". **Journal of the American College of Clinical Pharmacy.** March 2022. doi: 10.1002/jac5.1622
16. COVID-19 Research Prioritization Group on MNCAH. Global research priorities on COVID-19 for maternal, newborn, child and adolescent health. **J Glob Health.** 2021 Nov 20;11:04071. doi: 10.7189/jogh.11.04071. eCollection 2021.
17. Chantal Farra, Johnny Awwad, Lama Hamadeh, Pierre Khoueiry, Zeina Halawi, Nadine Yazbeck, Rose Daher, Mirna Souaid, Layal Hamdar, Tony Yammine, **Khalid Yunis.** CFTR mutational screening by Next Generation Sequencing reveals novel variants and a high carrier rate in a Middle Eastern population. **Annals of Human Genetics Nov. 2021** DOI: 10.1111/ahg.12450.
18. Baguiya A, Bonet M, Cecatti JG, Brizuela V, Curteanu A, Minkauskiene M, Jayaratne K, Ribeiro-do-Valle CC, Budianu MA, Souza JP, Kouanda S; WHO Global Maternal Sepsis Study (GLOSS) Research Group; GLOSS research group. Perinatal outcomes among births to women with infection during pregnancy. **Dis Child.** 2021 Sep 2; archdischild-2021-321865. doi: 10.1136/archdischild-2021-321865. Online ahead of print. PMID: 34475107.
19. Vanessa Brizuela, Cristina Cuesta, Gino Bartolelli, Abdulfetah Abdulkadir Abdosh, Sabina About Malham, Bouchra Assarag, Rigoberto Castro Banegas, Virginia Díaz, Faysal El-Kak, Mohamed El Sheikh, Aquilino M Pérez, João Paulo Souza, Mercedes Bonet, Edgardo Abalos, on behalf of the WHO GLOSS Research Group. Availability of facility resources and services and infection-related maternal outcomes in the WHO Global Maternal Sepsis Study: a cross-sectional study. **Lancet Glob Health** 2021. September 1, Volume 9, Issue 9, Pages e1252-e1261. Published Online, July 14, 2021 [https://doi.org/10.1016/S2214-109X\(21\)00248-5](https://doi.org/10.1016/S2214-109X(21)00248-5)
20. Ghaliya Al Noaimi, **Khalid Yunis**, Khalil El Asmar, Fatima Abu Salem, Charbel Afif, Lilian A. Ghandour, Ahmad Hamandi, Hassan R. Dhaini. Prenatal Exposure to Criteria Air Pollutants and Associations with Congenital Anomalies: A Lebanese National Study. **Environmental Pollution** 2021 Mar 26;281:117022. doi: 10.1016/j.envpol.2021.117022. PMID: 33813197
21. Ayah Al Bizri, Nansi S. Boghossian, Anwar Nassar, Pascale Nakad, Dina Jaber, Rabih Chahine, Gaby Falakha, Ghaith Makhoul, **Khalid Yunis.** Timing of Elective Cesarean Section and adverse neonatal outcomes in a Middle Eastern Country. 2021. **PLoS ONE** 16(4): e0249557. <https://doi.org/10.1371/journal.pone.0249557>

22. Jaafar F, Haddad L, Habanjar D, Charafeddine L, **Yunis K**, Karam PE, Obeid M. Comb-like EEG pattern in maple syrup urine disease: A case report. **Seizure.** **2021** Feb 19;87:21-24. doi: 10.1016/j.seizure.2021.02.022. Online ahead of print. PMID: 33667850
23. Pavel Prusakov, Debra A. Goff, Phillip S. Wozniak, Azraa Cassim, Catherine E.A. Scipion, Soledad Urzua, Andrea Ronchi, Lingkong Zeng, Oluwaseun Ladipo-Ajayi, Noelia Aviles-Otero, Chisom R. Udeigwe-Okeke, Rimma Melamed, Rita C. Silveira, Cinzia Auriti, Claudia Beltran-Arroyave, Elena Zamora-Flores, Maria Sanchez-Codez, Eric S. Donkor, Satu Kekom€aki, Nicoletta Mainini, Rosalba Vivas Trochez, Jamalyn Casey, Juan M. Graus, Mallory Muller, Sara Singh, Yvette Loeffen, María Eulalia Tamayo Perez, Gloria Isabel Ferreyra, Victoria Lima-Rogel, Barbara Perrone, Giannina Izquierdo, María Cernada, Sylvia Stoffella, Sebastian Okwuchukwu Ekenze, Concepcion de Alba-Romero, Chryssoula Tziialla, Jennifer T. Pham, Kenichiro Hosoi, Magdalena Cecilia Calero Consuegra, Pasqua Betta, O. Alvaro Hoyos, Emmanuel Roilides, Gabriela Naranjo-Zu~niga, Makoto Oshiro, Victor Garay, Vito Mondì, Danila Mazzeo, James A. Stahl, Joseph B. Cantey, Juan Gonzalo Mesa Monsalve, Erik Normann, Lindsay C. Landgrave, Ali Mazouri, Claudia Alarcon Avila, Fiammetta Piersigilli, Monica Trujillo, Sonya Kolman, Veronica Delgado, Veronica Guzman, Mohamed Abdellatif, Luis Monterrosa, Lucia Gabriella Tina, **Khalid Yunis**, Marco Antonio Belzu Rodriguez, Nicole Le Saux, Valentina Leonardi, Alessandro Porta, Giuseppe Latorre. A global point prevalence survey of antimicrobial use in neonatal intensive care units: The no-more-antibiotics and resistance (NO-MAS-R) study. **EClinicalMedicine.** **2021** Jan 29;32:100727. doi: 10.1016/j.eclinm.2021.100727. eCollection 2021 Feb. PMID: 33554094
24. WHO ACTION Trials Collaborators, Oladapo OT, Vogel JP, Piaggio G, Nguyen MH, Althabe F, Gülmezoglu AM, Bahl R, Rao SPN, De Costa A, Gupta S, Baqui AH, Khanam R, Shahidullah M, Chowdhury SB, Ahmed S, Begum N, D Roy A, Shahed MA, Jaben IA, Yasmin F, Rahman MM, Ara A, Khatoon S, Ara G, Akter S, Akhter N, Dey PR, Sabur MA, Azad MT, Choudhury SF, Matin MA, Goudar SS, Dhaded SM, Metgud MC, Pujar YV, Somannavar MS, Vernekar SS, Herekar VR, Bidri SR, Mathapati SS, Patil PG, Patil MM, Gudadinni MR, Bijapure HR, Mallapur AA, Katageri GM, Chikkamath SB, Yelamali BC, Pol RR, Misra SS, Das L, Nanda S, Nayak RB, Singh B, Qureshi Z, Were F, Osoti A, Gwako G, Laving A, Kinuthia J, Mohamed H, Aliyan N, Barassa A, Kibaru E, Mbuga M, Thurania L, Githua NJ, Lusweti B, Ayede AI, Falade AG, Adesina OA, Agunloye AM, Iyiola OO, Sanni W, Ejinkeonye IK, Idris HA, Okoli CV, Irinyenikan TA, Olubosede OA, Bello O, Omololu OM, Olutekunbi OA, Akintan AL, Owa OO, Oluwafemi RO, Eniwo IP, Fabamwo AO, Disu EA, Agbara JO, Adejuyigbe EA, Kuti O, Anyabolu HC, Awowole IO, Fehintola AO, Kuti BP, Isah AD, Olateju EK, Abiodun O, Dedeke OF, Akinkunmi FB, Oyeneyin L, Adesiyun O, Raji HO, Ande ABA, Okonkwo I, Ariff S, Soofi SB, Sheikh L, Zulfiqar S, Omer S, Sikandar R, Sheikh S, Giordano D, Gamero H, Carroli G, Carvalho J, Neilson J, Molyneux E, **Yunis K**, Mugerwa K, Chellani HK. Antenatal dexamethasone for early preterm birth in low-resource countries. **N Engl J Med.** **2020** Oct 23. PMID: 33095526, DOI: 10.1056/NEJMoa2022398.
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1. Workplace Wellness across the Lifespan: A Pilot Program for Health Promotion in a Low-Middle Income Country. **Health Promotion International**. 2023
2. "Prevalence and Characteristics of Smoking Cigarette and Narghile Among Syrian Refugee Parents in Ontario, Canada." **Journal of Immigrant and Minority Health**. 2022

#### BOOK CHAPTERS

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1. Rym El Rafei, Ayah Al Bizri, Farah K Moussa, **Khalid Yunis**. Birth defects and preterm births as major contributors to perinatal and neonatal mortality. In: Rahman S, Eason J D, Haque K N, eds. **Neonatal and Perinatal Mortality: Global Challenges, Risk Factors and Interventions**, Nova Science Pub Inc. January 2017.
2. Lilian Ghandour; Ghinwa El Hayek, **Khalid Yunis**. Perinatal and Neonatal Mortality in Conflict settings: Evidence-based Interventions to Reduce Adverse Birth Outcomes. In: Rahman S, Eason J D, Haque K N, eds. **Neonatal and Perinatal Mortality: Global Challenges, Risk Factors and Interventions**, Nova Science Pub Inc. January 2017.
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#### ABSTRACTS/POSTERS/PRESENTATIONS

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1. Faouzi Maalouf, Therese Saad, Pascale Nakad, Dina Jaber, Marie Claude Fadous Khalife, Dany Al Hamod, Ghassan Baasiri, Maha Sabouné, Kamal Kanso, Faysal Tleiss, Pavel Prusakov, Debra A. Goff, Pablo J. Sanchez, **Khalid Yunis**. Successful Implementation of a national NICU Antimicrobial Stewardship Program in a Low-Middle Income Country: It Can be Done! **American Pediatric Academic Societies Meeting April 27-May 1, 2023 (Oral Presentation)**

2. Abi Ghannam, Samer; Al Bizri, Ayah; El Asmar, Khalil; Al Hamod, Dany; Fadous khalife, Mary Claude J.; **Yunis, Khalid A.** Consanguinity as a risk factor for Pregnancy Induced Hypertension. **American Pediatric Academic Societies Meeting, Virtual. April 30-May 4, 2021 (e-Poster with Chat Q&A)**
3. Phillip S. Wozniak, BA, Pavel Prusakov, PharmD, Alexandra K. Medoro, MD, Debbie Goff, PharmD, and Pablo J. Sánchez, MD on behalf of the NO-MAS-R Study Group . A Global Point Prevalence Study of Antimicrobial Use in the Neonatal Intensive Care Unit (NICU): The NO-More-AntibioticS and Resistance (NO-MAS-R) Study. **American Pediatric Academic Societies Meeting, Philadelphia, PA. May 1-5, 2020.** Due to COVID-19 related conference cancellation, this peer-reviewed abstract was disseminated in April 2020 to PAS 2020 Meeting Program Guide.
4. Ambient Air Pollution and Birth Defects (BD) in a Middle Income Country: A Case-Control Study **American Pediatric Academic Societies (PAS) Annual Meeting 2020, Philadelphia, PA. May 1-May 5. (Platform).** Due to COVID-19 related conference cancellation, this peer-reviewed abstract was disseminated in April 2020 to PAS 2020 Meeting Program Guide.
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16. Lakkis, Farah A.; Zaraket, Hassan; El Hayek, Ghinwa Y.; Massaad, Elie; Krayem, Stephanie; Mouhayar, Jessy; Al Hamod, Dany; Charafeddine, Lama; **Yunis, Khalid A.** Viral Respiratory Tract Infections in Preterm Infants Evaluated For Late-Onset Sepsis: A Prospective Cohort. **American Pediatric Academic Societies (PAS) Annual Meeting 2019, April 24 – May 1, Baltimore. (Poster)**
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21. Khalid Yunis, Ayah Al Bizri, Rym El Rafei, Mona Alameh. Rate and predictors of preterm birth among Lebanese compared to Syrian Refugees. **American Pediatric Academic Societies' Annual Meeting 2017 (Poster)**
22. Khalid Yunis, Rym El Rafei, Ghinwa Hayek, Chantal Farra, Anwar Nassar, Pascale Nakad, Hilda Harb, Walid Ammar. Missed birth defects by prenatal ultrasound: what could have been prevented? **American Pediatric Academic Societies' Annual Meeting 2016 (Poster)**

23. Khalid Yunis, Ayah Al Bizri, Alaa Obeid, Jessy Mouhayar, Tania Daaboul, Lama Charafeddine, Nabil Mounla,. A Quality Improvement Initiative to Reduce CLABSI Rate in the Neonatal Intensive Care Unit (NICU) in a middle income country. **American Pediatric Academic Societies' Annual Meeting 2016 (Poster)**
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  49. Mroueh S, Boghossian N, Mumtaz G, Kassir M, Matar M, **Yunis K**. Does iron supplementation in infants increase the risk of wheezing? **American Pediatric Academic Societies' Annual Meeting, Hawaii, May 2008. (Poster)**
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72. **Yunis KA**, Mumtaz G, Khogali M, Tamim H. Networks in developing countries: Experience of the National Collaborative Perinatal Network. *Lebanese Epidemiologic Association meeting*, Beirut, November 2004. (Oral presentation)
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  87. Beydoun H, Boulghourjian C, Aaraj A, Alameh M, Chedid P, Itani M, Melki I, Nassif F, Nassif Y, Rajab M, Shatila F, **Yunis KA**. Crowding Index: a correlate of socioeconomic and fertility characteristics of mothers in an urban developing population. *American Pediatric Academic Societies and American Academy of Pediatrics Joint Meeting, Boston 2000. Pediatr. Res 2000, 47 (4), Supplement Part 2, Pp 143. (Poster)*
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94. **Yunis KA**, Khogali M, Boulghourjian C, Nasr L. Cost of Neonatal Intensive Care Unit (NICU) and Outcome in a tertiary care center in Lebanon: One year experience. *American Pediatric Academic Societies' Annual Meeting, San Francisco 1999. Pediatr. Res 1999, 45 (4), Supplement Part 2, no 1529.*
95. **Yunis KA**, Khogali M, Boulghourjian C, Nasr L. Feasibility of a National Collaborative Neonatal Network in Lebanon: One Year Report. *American Pediatric Academic Societies' Annual Meeting, San Francisco 1999. Pediatr. Res 1999, 45 (4), Supplement Part 2, no 1528.*
96. Shalak L, Perlman J., Boulghourjian CM, **Yunis KA**. Early postnatal pulse steroid therapy in sick very low birth weight infants is associated with significant azotemia. *Section on Perinatal Pediatrics, American Pediatric Academic Societies' Annual Meeting, October 1998. Pediatrics 1998, 102(3) p772. (Poster)*
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98. **Yunis KA**, Tarif S, Haidar R, Berjawi G, Haddad M, Nouridine B, Bitar B, Seoud M, Derkaloustian V. A new syndrome with skeletal, renal and skin anomalies, reminiscent of, but distinct from, Hallerman Streif syndrome. *American Pediatric Academic Societies' Annual Meeting, New Orleans 1998. Pediatr. Res 1998, 43(4), Supplement Part 2, no 386. (Poster)*
99. Ramadan MA, **Yunis KA**, Mroueh SM, Ismail R, Cortas N, Habbal Z. Sensitivity of C-reactive protein(CRP) in predicting neonatal infection. *American Pediatric Academic Societies' Annual Meeting, New Orleans 1998. Pediatr. Res 1998, 43(4), Supplement Part 2, no 1470.*
100. Shalak LF, Boulghourjian CM, **Yunis KA**. Azotemia associated with early postnatal pulse steroid therapy in the very low birth weight infants. *American Pediatric Academic Societies' Annual Meeting, New Orleans 1998. Pediatr. Res 1998, 43(4), Supplement Part 2, no 1133.*

101. **Yunis KA**, Mroueh S., Rashid M, Ismail R, Ghaziri G, Cortas N, Habbal Z, Bitar F, Mikati M. Cord and Early CRP taken within the first six hours of life. *XXIV Congress of the Union of Middle Eastern and Mediterranean Pediatric Societies*, Nice, France, November, 1997. (Poster)
102. **Yunis KA**, Abou Rialy S, Ismail R., Helou M. Computerized data base in a developing country: Results of a pilot study in the Newborn Intensive Care Unit and the Special Care Nursery in a tertiary care center in Lebanon. *XXIV Congress of the Union of Middle Eastern and Mediterranean Pediatric Societies*, Nice, France, November, 1997. (Poster)
103. **Yunis KA**, Tarif , Birjawi G, Hadad M, Nouredine B, Bitar F, Seoud M, Haidar R. Hellerman Streif Syndrome: New associated features. *XXIV Congress of the Union of Middle Eastern and Mediterranean Pediatric Societies*, Nice, France, November 1997. (Poster)
104. **Yunis KA**, Hayek P, Mroueh M, et al. Transient Neonatal Hypertrophic Cardiomyopathy and Antenatal administration of Steroids. *American Pediatric Academic Societies' Annual Meeting*, Washington D.C, 1997. *Pediatr. Res* 1997, 41(4), Supplement Part 2, no 1117. (Poster)
105. **Yunis KA**, Mroueh SA, Rashid R, et al. Early C - reactive protein CRP as Predictor of Neonatal Morbidity. *American Pediatric Academic Societies' Annual Meeting*, Washington D.C, 1997. *Pediatr. Res* 41(4), Supplement Part 2, no 1118. (Poster)
106. **Yunis KA**, Serhal H, Mroueh S, Mikati M. Successful inflation of a collapsed lung using short term high frequency ventilation (HFV). *XXIII Congress of the Union of Middle Eastern and Mediterranean Pediatric Societies*, Cyprus, 1996. (Poster)
107. Carr S, **Yunis KA**, Maguire C, Dorcus B, Kalhan S, Cowett RM. Glucose-glycerol kinetics in gestational diabetes. *Annual Meeting, American Diabetes Association*, 1989.
108. **Yunis KA**, Oh W, Kalhan S, Cowett RM: Mechanism of glucose perturbation following intravenous fat infusion in the low birth weight infants. *American Pediatric Academic Societies' Annual Meeting*, 1989. (Oral presentation)
109. **Yunis KA**, Oh W. Effects of intravenous glucose load on oxygen consumption, carbon dioxide production and resting energy expenditure in infants with bronchopulmonary dysplasia. *American Pediatric Academic Societies' Annual Meeting*, 1988. *Pediatr. Res* 1988, 23(4), Supplement Part 2, no 1376. (Oral presentation)
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112. Cote A, **Yunis KA**, Blanchard PW, Hobbs S, Bureau MA. Respiratory mechanics during hypoxia in newborn lambs. McGill University - Montreal Children's Hospital Research Institute. *American Thoracic Society Meeting*, 1985. *Am. Rev. Resp. Dis* 1985, 131(4): A330.

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## REPORTS

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1. Situational Analysis on Birth Defects Surveillance in the Eastern Mediterranean Region. A collaborative effort between the World Health Organization (WHO), Regional Office for the Eastern Mediterranean (EMRO) and the National Collaborative Perinatal Neonatal Network (NCPNN)

Reports published by the **National Collaborative Perinatal Neonatal Network (NCPNN)**: Founder and Principal Investigator, Khalid Yunis MD

1. NCPNN Annual Report (January 1st 2009-December 31st 2009), June 2010. **General report** and **twenty four individual reports** for each of the network hospitals.
2. NCPNN Annual Report (January 1st 2008-December 31st 2008), March 2010. **General report** and **nineteen individual reports** for each of the network hospitals.
3. NCPNN Annual Report (January 1st 2007-December 31st 2007), November 2008. **General report** and **sixteen individual reports** for each of the network hospitals.
4. NCPNN Annual Report (January 1st 2006-December 31st 2006), October 2007. **General report** and **sixteen individual reports** for each of the network hospitals.
5. NCPNN Annual Report (January 1st 2005-December 31st 2005), June 2006. **General report** and **sixteen individual reports** for each of the network hospitals.
6. NCPNN Annual Report (January 1st 2004-December 31st 2004), December 2005. **General report** and **sixteen individual reports** for each of the network hospitals.
7. NCPNN Annual Report (April 1, 2002-March 31, 2003), September 2004. **General report** and **nine individual reports** for each of the network hospitals.
8. A study on morbidity and mortality among newborn babies, infants and under five year old children in Greater Beirut – Lebanon: The first year of life. **Monograph** publishing final results of the first year follow-up, February 2004.
9. Follow-Up Study: First Year of Life. Third **technical progress report**. Preliminary results. September 2003.
10. NCPNN: **Newsletter**. Follow-up study first year of life, update # 2. August 2002, Vol1 No2
11. NCPNN: Five Year Follow-Up Study: The First Year of Life. Second **technical progress report**. Preliminary results. July 2002
12. NCPNN: **Newsletter**. Follow-up study first year of life, preliminary results. March 2002, Vol1 No1.

13. NCPNN. Five Year Follow-Up Study: The First Year of Life. First **technical progress report**. Preliminary results. February 2002.
14. NCPNN Annual Report (April 1, 2001-March 31, 2002). **General report** and **ten individual reports** for each of the network hospitals.
15. NCPNN Annual Report (April 1, 2000-March 31, 2001), February 2002. **General report** and **nine individual reports** for each of the network hospitals.
16. NCPNN Annual Report (April 1, 1999-March 31, 2000), September 2000. **General report** and **nine individual reports** for each of the network hospitals.
17. NCPNN: Preliminary **Annual Report** of nine NCPNN centers (September 1, 1998-August 31, 1999), February 22, 2000.
18. NCPNN: **Quarterly Report** for eight NCPNN centers (September 1-November 31, 1999), February 12, 2000.
19. NCPNN: **Six-Month Report** for eight NCPNN centers (March 1-August 31, 1999), October 30, 1999.
20. NCPNN: **Quarterly Report** for eight NCPNN centers (March 1-May 31, 1999), September 4, 1999.

## EXTRAMURAL GRANTS

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1. “Establishing Neonatal Specific Antimicrobial Stewardship (AMS) Centre of Excellence in Lebanon and the region”. Awarded the **BSAC Pfizer AMS grants (technical support), 2022-2025**
2. Reducing neonatal mortality & morbidities in peripheral hospitals through an integrated & comprehensive program to improve & sustain quality of care. **UNICEF 299,000\$ 2022-2024.**
3. Establishing a National Neonatal Antimicrobial Stewardship Program in a Low-Middle Income Country: A Pilot Study in Five NICUs in Lebanon. **Pfizer 100,000\$ 2021-2022.**
4. Development of a microRNA-based Diagnostic Platform of Biomarker Panel for Neonatal Sepsis Detection. **Joint AUB/USJ Healthcare Innovation and Technology Stimulus (HITS) Funding Program, in collaboration with Banque Du Liban (BDL) 2021-2022. (Co-Lead Investigator)**
5. Partnerships for Perinatal Health: Building Global Networks of Experts in Lower-Income Countries to Improve the Health of Women, Mothers and Babies. Proposal for Lebanon. **March of Dimes Foundation (MOD);2018-2022. \$72,000 (Principal Investigator)**
6. New country, new parenthood: Syrian refugees in the context of resettlement. **2017 SSHRC Insight Grants: \$321,246 In collaboration with York University (Principle Investigator Lebanon site)**
7. Assessment of Pregnancy and Neonatal Outcomes Syrian Refugees: a case-control study in tertiary care centers in Lebanon. **WHO; \$10,000: 2017(Principal Investigator)**

8. Situational analysis on the surveillance of birth defects in the EMRO region. **WHO; \$24,420: 2017 (Principal Investigator)**
9. Strengthening Maternal Death Surveillance and Response (MDSR) in Lebanon, World Health Organization (WHO); **\$13,200: 2016. (Principal Investigator)**
10. Mothers in Lebanon: Unraveling their Family's Structure, Characteristics, Demands and Resources of Support, OSRA No.: OSRA1-0519-15006, **QNRF 2016-2018; \$49,000 (Principal Investigator)**
11. Partnerships for Perinatal Health: Building Global Networks of Experts in Lower-Income Countries to Improve the Health of Women, Mothers and Babies. Proposal for Lebanon. **March of Dimes Foundation (MOD); \$108,000:2015-2018. (Principal Investigator)**
12. Mother and Child Cohort: Towards Curbing the Epidemic of Noncommunicable Diseases in Qatar and Lebanon, **QNRF, Qatar Foundation, \$1,041,200 , 2015-2018 (Co-Investigator)**
13. **AbbVie, Epidemiological Research Plan – 10101: PONI** - A multi-country, epidemiological study to identify Predictors associated with RSV hospitalization in Non-prophylaxed, premature Infants born between 33 weeks and 0 days and 35 weeks and 6 days of gestation; **\$19,600: 2014. (Principal Investigator)**
14. Partnerships for Perinatal Health: Building Global Networks of Experts in Lower-Income Countries to Improve the Health of Women, Mothers and Babies. Proposal for Lebanon. **March of Dimes Foundation (MOD); \$105,105:2011-2013. (Principal Investigator)**
15. Surveillance of Birth Defects in Low and Middle Income Countries, **Center for Disease Control and Prevention CDC 2011-2014; \$750,000. (Principal Investigator)**
16. National Collaborative Perinatal Neonatal Network. Local expansion **World Health Organization (WHO); \$15,000: 2011. (Principal Investigator)**
17. National Collaborative Perinatal Neonatal Network Collaborative Perinatal Neonatal Networking in Lebanon and the Middle East – The Regional Expansion. **CWS Grant, World Health Organization (WHO) 2010-2011; \$30,000. (Principal Investigator)**
18. WHO Multicountry Survey on Maternal and Newborn Health **World Health Organization (WHO Geneva) 2010-2011; \$43,219. (Principal Investigator)**
19. Consanguinity Factor in the Genetics of Prematurity. **QNRF, Qatar Foundation 2010-2013. \$998,700 for three years. (Principal Investigator)**
20. National Collaborative Perinatal Neonatal Network. Local expansion **World Health Organization (WHO); \$7,000: 2009. (Principal Investigator)**
21. Establishing a neonatal resuscitation program in Lebanon. **UNICEF; \$100,352: 2008-2009 (Principal Investigator)**

22. Partnerships for Perinatal Health: Building Global Networks of Experts in Lower-Income Countries to Improve the Health of Women, Mothers and Babies. Proposal for Lebanon. **March of Dimes Foundation (MOD); \$105,000:2008-2010. (Principal Investigator)**
23. National Collaborative Perinatal Neonatal Network Collaborative Perinatal Neonatal Networking in Lebanon and the Middle East – The Regional Expansion. **CWS Grant, World Health Organization (WHO); \$56,000: 2008. (Principal Investigator)**
24. National Collaborative Perinatal Neonatal Network. Collaborative Perinatal Neonatal Networking in Lebanon and the Middle-East. **World Health Organization (WHO); \$24,000: 2006. (Principal Investigator)**
25. National Collaborative Perinatal Neonatal Network. Collaborative Perinatal Neonatal Networking in Lebanon and the Middle-East. **March of Dimes Foundation (MOD) & Center for Diseases Control (CDC); \$40,000: 2006-2008. (Principal Investigator)**
26. National Collaborative Perinatal Neonatal Network Database Project. **WHO; \$1,500: 2006. (Principal Investigator)**
27. National Collaborative Perinatal Neonatal Network. Implementation of an Intervention to Reduce the Cesarean Section Rate: A collaborative Multicenter Study in Beirut. **Welcome Trust at the Faculty of Health Sciences at the American University of Beirut; \$24,475: 2004-2005. (Principal Investigator)**
28. National Collaborative Perinatal Neonatal Network. Patterns of neonatal, infant, and five year mortality and morbidity in greater Beirut. **World Health Organization (WHO); \$45,600: 2001-2003. (Principal Investigator)**
29. National Collaborative Perinatal Neonatal Network Database Project. **World Health Organization (WHO); \$13,500: 1997. (Principal Investigator)**
30. Respiratory Gaseous Exchange, Pulmonary Function and Growth of B.P.D. Infants receiving Three Enteral Formulas of Different Energy Composition. **Ross Laboratories, University of Texas Southwestern Medical Center Study; \$74,825: 1990-1991.**
31. **UT southwestern medical center: General Clinical Research Center (G.C.R.C.): Support from G.C.R.C. grant, Pediatric Subunit, USPHS Grant #M01-RR00633 for B.P.D. Study, 1990.**
32. BPD Infants Receiving Three Different Enteral Formulas. **Institutional Research Grant at the University of Texas Southwestern Medical Center; \$8,000: 1989-1990.**
33. **National Research Service Award, Women and Infants Hospital of Rhode Island, Brown University; \$47,004: 1987-1989**

## INTRAMURAL GRANTS

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1. Gene-Environment Interactions in Genitourinary & Neural Tube Birth Defects Risk: A Lebanese Case-Control Study. **\$64,686 Medical Practice Plan MPP at the American University of Beirut, 2016-2020. (Principle Investigator)**

2. Incidence of viral infections in preterm infants with late onset sepsis; **\$15,000 RFA at the American University of Beirut; 2016-2017** (Principle Investigator)
3. Incidence of Cystic Fibrosis gene defect in the Lebanese population: A pilot study **Lebanese National Council for Scientific Research; \$ 24,000: 2016-2017.** (Co-Investigator)
4. Incidence of Alpha Globulin Gene Effect in the Lebanese Population: A Pilot Study. **Lebanese National Council for Scientific Research; \$ 23,209: 2011-2013.** (Co-Investigator)
5. Statistics related to Maternal and Neonatal Health. **Ministry of Public Health MOPH \$20,000: 2009-2010** (Principle Investigator)
6. National Collaborative Perinatal Neonatal Network: Towards Improving Maternal Health in Lebanon **Lebanese Society for Obstetrics and Gynaecology (LSObGyn); \$15,000: 2009.** (Principal Investigator)
7. The effect of antenatal steroids for women at risk of late preterm delivery on neonatal respiratory morbidity: a Multicenter Pilot Study. **University Research Board (URB) at the American University of Beirut; Medical Practice Plan (MPP) at the American University of Beirut; \$25,418: 2009-2011.** (Principal Investigator)
8. Improving Maternal and Neonatal Health in Lebanon, National Collaborative Perinatal Neonatal Network. **Medical Practice Plan (MPP) at the American University of Beirut; \$10,000:2009.** (Principal Investigator)
9. National Collaborative Perinatal Neonatal Network. The Epidemiology of Cytomegalovirus in Lebanon: A multicenter study. **University Research Board (URB) at the American University of Beirut; \$10,000: 2006-2007.** (Principal Investigator)
10. National Collaborative Perinatal Neonatal Network. The Epidemiology of Cytomegalovirus in Lebanon: A multicenter study. **Medical Practice Plan (MPP) at the American University of Beirut; \$25,900: 2006-2007.** (Principal Investigator)
11. National Collaborative Perinatal Neonatal Network. Group B streptococcal Colonization of Pregnant Women in Lebanon. **Lebanese National Council for Scientific Research; LBP 19,000,000: 2004-2006.** (Principal Investigator)
12. National Collaborative Perinatal Neonatal Network. Group B streptococcal colonization of Neonates in Lebanon. **Medical Practice Plan (MPP) at the American University of Beirut, \$22,188: 2003-2005.** (Co-Investigator, PI: Nabil Mounla, MD)
13. National Collaborative Perinatal Neonatal Network. Consanguinity and congenital malformation: A study of prevalence and association in the Lebanese population. **Medical Practice Plan (MPP), \$35,000: 2003-2005.** (Principal Investigator)
14. National Collaborative Perinatal Neonatal Network. Consanguinity and congenital malformation: A study of prevalence and association in the Lebanese population. **University Research Board (URB) at the American University of Beirut; \$10,000: 2004-2005.** (Principal Investigator)



15. National Collaborative Perinatal Neonatal Network. Consanguinity and congenital malformation: A study of prevalence and association in the Lebanese population. **Masabki fund at the American University of Beirut; \$15,000:** 2003-2004. (Principal Investigator)
16. National Collaborative Perinatal Neonatal Network. Patterns of neonatal, infant, and five year mortality and morbidity in greater Beirut. **University Research Board (URB) at the American University of Beirut; \$32,460:** 1999-2003. (Principal Investigator)
17. National Collaborative Perinatal Neonatal Network. Patterns of neonatal, infant, and five year mortality and morbidity in greater Beirut. **Medical Practice Plan (MPP) at the American University of Beirut; \$30,000:** 2000-2003. (Principal Investigator)
18. National Collaborative Perinatal Neonatal Network. Patterns of neonatal, infant, and five year mortality and morbidity in greater Beirut. **Lebanese National Council for Scientific Research; LP 30,000 000:** 2001-2003. (Principal Investigator)
19. National Collaborative Perinatal Neonatal Network. **Lebanese Pediatric Society; \$2,000:** 2001-2002. (Principal Investigator)
20. National Collaborative Perinatal Neonatal Network Database. **Lebanese National Council for Scientific Research; LP 15,000 000:** 2000-2001. (Principal Investigator)
21. National Collaborative Perinatal Neonatal Network Database Project. **Medical Practice Plan (MPP) at the American University of Beirut; \$11,000:** 1998-1999. (Principal Investigator)
22. National Collaborative Perinatal Neonatal Network Database Project. **Lebanese National Council for Research and Development; LP 15, 000 000:** 1998-1999. (Principal Investigator)
23. National Collaborative Perinatal Neonatal Network Database Project. **University Research Board (URB) at the American University of Beirut; \$5600:** 1998-1999. (Principal Investigator)
24. Apoptosis in the hypoxic rat heart. **Medical Practice Plan (MPP) at the American University of Beirut; \$12,500:** 1998. (Co-Investigator, PI: Fadi Bitar, MD)
25. National Collaborative Perinatal Neonatal Network Database Project. **Lebanese National Council for Scientific Research; LP 7, 000 000:** 1997. (Principal Investigator)
26. Individualized Developmental Care in a level III Nursery. **Medical Practice Plan (MPP) at the American University of Beirut; \$6,400:** 1997. (Co-Investigator, PI: Rola Choueiri)
27. Unrecognized Hypoglycemia in the Newborn. **Medical Practice Plan (MPP) at the American University of Beirut; \$2,000:** 1997. (Principal Investigator)
28. Effect of Maternal factors on fetal CRP. **Medical Practice Plan (MPP) at the American University of Beirut; \$3,300:** 1996-1997. (Co-Investigator, PI: Salman Mroueh)

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## ADDITIONAL SUPPORT

1. National Collaborative Perinatal Neonatal Network Database Project. **Nestle**; \$10,000: 2015. (Principal Investigator)
2. National Collaborative Perinatal Neonatal Network Database Project. **IYAMED Co.**; \$4,000: 2014. (Principal Investigator)
3. National Collaborative Perinatal Neonatal Network Database Project. **Nestle**; \$10,000: 2014. (Principal Investigator)
4. National Collaborative Perinatal Neonatal Network Database Project. **Abbott Laboratories**; \$14,000: 2014. (Principal Investigator)
5. National Collaborative Perinatal Neonatal Network Database Project. **Nestle**; **\$10,000**: 2013. (Principal Investigator)
6. National Collaborative Perinatal Neonatal Network Database Project. **Abbott Laboratories**; **\$14,000**: 2013. (Principal Investigator)
7. National Collaborative Perinatal Neonatal Network Database Project. **Nestle**; **\$10,000**: 2012. (Principal Investigator)
8. National Collaborative Perinatal Neonatal Network Database Project. **Abbott Laboratories**; **\$7,000**: 2012. (Principal Investigator)
9. National Collaborative Perinatal Neonatal Network Database Project. **Nestle**; **\$10,000**: 2011. (Principal Investigator)
10. National Collaborative Perinatal Neonatal Network Database Project. **Abbott Laboratories**; **\$7,000**: 2011. (Principal Investigator)
11. National Collaborative Perinatal Neonatal Network Database Project. **Abbott Laboratories**; **\$7,000**: 2010. (Principal Investigator)
12. National Collaborative Perinatal Neonatal Network Database Project. **Nestle**; **\$15,000**: 2010. (Principal Investigator)
13. National Collaborative Perinatal Neonatal Network – Neonatal resuscitation course. **MEDICEA LIMITED- Wyeth**; **\$1,750** : 2009
14. National Collaborative Perinatal Neonatal Network – Neonatal resuscitation course. **DROGURIE MERCURY- Wyeth**; **\$1,750** : 2009
15. National Collaborative Perinatal Neonatal Network Database Project. **IYAMED Co.**; **\$3,300**: 2009. (Principal Investigator)
16. National Collaborative Perinatal Neonatal Network Database Project. **Aventis Pasteur**; **\$6,000**: 2008. (Principal Investigator)
17. National Collaborative Perinatal Neonatal Network Database Project. **Interpharma S.A.L**; **\$7,500**: 2008. (Principal Investigator)

18. National Collaborative Perinatal Neonatal Network Database Project. **IYAMED Co.; \$3,300:** 2008. (Principal Investigator)
19. National Collaborative Perinatal Neonatal Network Database Project. **Abella Freres; \$3,000:** 2008. (Principal Investigator)
20. National Collaborative Perinatal Neonatal Network Database Project. **Nestle; \$10,000:** 2008. (Principal Investigator)
21. National Collaborative Perinatal Neonatal Network Database Project. **Abbott Laboratories; \$5,000:** 2008. (Principal Investigator)
22. National Collaborative Perinatal Neonatal Network Database Project. **Nestle; \$10,000:** 2007. (Principal Investigator)
23. National Collaborative Perinatal Neonatal Network Database Project. **Abbott Laboratories; \$5,000:** 2007. (Principal Investigator)
24. National Collaborative Perinatal Neonatal Network Database Project. **Iyamed; 3,300 \$:**2006. (Principal Investigator)
25. National Collaborative Perinatal Neonatal Network Database Project. **Bledina; 1,000 \$:** 2007. (Principal Investigator)
26. National Collaborative Perinatal Neonatal Network Database Project. **Aventis-Pasteur Merieux; 5,000 \$:** 2006. (Principal Investigator)
27. National Collaborative Perinatal Neonatal Network Database Project. **Nestle; \$9,300:** 2006. (Principal Investigator)
28. National Collaborative Perinatal Neonatal Network Database Project. **Abbott Laboratories; \$8,000:** 2006. (Principal Investigator)
29. National Collaborative Perinatal Neonatal Network Database Project. **Iyamed; 6,600 \$:**2005-2006. (Principal Investigator)
30. National Collaborative Perinatal Neonatal Network Database Project. **Bledina; 2,000 \$:** 2005-2006. (Principal Investigator)
31. National Collaborative Perinatal Neonatal Network Database Project. **Mersaco; 1,500 \$:** 2006. (Principal Investigator)
32. National Collaborative Perinatal Neonatal Network Database Project. **GSK; 1,500 \$:** 2006. (Principal Investigator)
33. National Collaborative Perinatal Neonatal Network Database Project. **Bledina; 1,000 \$:** 2005. (Principal Investigator)
34. National Collaborative Perinatal Neonatal Network Database Project. **Nestle; \$5,000:** 2004. (Principal Investigator)

35. National Collaborative Perinatal Neonatal Network Database Project. **Abbott Laboratories; \$12,500**: 2004. (Principal Investigator)
36. National Collaborative Perinatal Neonatal Network Database Project. **Millupa Pharmaceutical; 1,000 \$**: 2004. (Principal Investigator)
37. National Collaborative Perinatal Neonatal Network Database Project. **Aventis-Pasteur Merieux; 3,800 \$**: 2004. (Principal Investigator)
38. National Collaborative Perinatal Neonatal Network Database Project. **GSK; 1,500 \$**: 2004. (Principal Investigator)
39. National Collaborative Perinatal Neonatal Network Database Project. **Abella Freres; 1,500 \$**: 2004. (Principal Investigator)
40. National Collaborative Perinatal Neonatal Network Database Project. **Pfizer Pharmaceutical; 3,000 \$**: 2003. (Principal Investigator)
41. National Collaborative Perinatal Neonatal Network Database Project. **Iyamed Pharmaceutical; 2,500 \$**: 2003. (Principal Investigator)
42. National Collaborative Perinatal Neonatal Network Database Project. **Nestle; \$7,000**: 2002-2003. (Principal Investigator)
43. National Collaborative Perinatal Neonatal Network Database Project. **Abbott Laboratories; \$7,000**: 2002-2003. (Principal Investigator)
44. National Collaborative Perinatal Neonatal Network Database Project. **Bledina; 2,000 \$**: 2001-2002. (Principal Investigator)
45. National Collaborative Perinatal Neonatal Network Database Project. **Nestle; \$3,300**: 2001-2002. (Principal Investigator)
46. National Collaborative Perinatal Neonatal Network Database Project. **Abbott Laboratories; \$3,000**: 2001-2002. (Principal Investigator)
47. National Collaborative Perinatal Neonatal Network. **Abbott Laboratories & Levant Alie Houses; \$4,000**: 1999. (Principal Investigator)

## ONGOING PROJECTS

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1. Establishing Neonatal Specific Antimicrobial Stewardship (AMS) Centre of Excellence in Lebanon and the region. 2022-2025.
2. Reducing neonatal mortality & morbidities in peripheral hospitals through an integrated & comprehensive program to improve & sustain quality of care. 2022-2024.
3. Establishing a National Neonatal Antimicrobial Stewardship Program in a Low-Middle Income Country: A Pilot Study in Five NICUs in Lebanon. 2021-2023.

4. Development of a micro RNA-based Diagnostic Platform of Biomarker Panel for Neonatal Sepsis Detection. 2021-2022
5. Signed a long term arrangement with UNICEF as experts to provide training on EQUIST to other countries. 2017-2019.
6. New country, new parenthood: Syrian refugees in the context of resettlement. 2021-2023
7. Assessment of Pregnancy and Neonatal Outcomes Syrian Refugees: a case-control study in tertiary care centers in Lebanon. 2017
8. Gene-Environment Interactions in Genitourinary & Neural Tube Birth Defects Risk: A Lebanese Case-Control Study. 2016-2019
9. Incidence of viral infections in preterm infants with late onset sepsis. 2016-2017
10. Mothers in Lebanon: Unraveling their Family's Structure, Characteristics, Demands and Resources of Support. 2016-2017
11. Workplace Wellness Across the Lifespan: A Project for Promoting the Health and Birth Outcomes of Young Workers in Low and Middle Income Countries. 2014-
12. Preconception care initiative among university students in Lebanon. 2015-2017
13. CLABSI QI: Reducing the central line associated blood stream infection (CLABSI), rate in the NICU. 2013-
14. National Surveillance of Birth Defects in Lebanon. 2011-
15. Surveillance of Preterm Birth in Lebanon. 2013-2017
16. Consanguinity Factor in the genetics of prematurity. 2010-

## RESEARCH COLLABORATORS

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1. Fatimah Abu Salem, PhD, Associate professor, Department of Computer Sciences, American University of Beirut, Lebanon
2. Rihab Nasr, PhD, Professor, Department of Anatomy, Cell Biology and Physiology, American University of Beirut, Lebanon
3. Massoud Khreish, PhD, Assistant Professor, Biomedical Engineering, American University of Beirut, Lebanon
4. Sawsan Abdel Rahim, PhD, Faculty of Health Sciences, American University of Beirut, Lebanon.
5. Timothy De Ver Dye, MD, Epidemiologist-Anthropologist and Professor of Obstetrics and Gynecology, Pediatrics, Public Health Sciences, and Medical Informatics, University of Rochester, USA.

6. Hasan Dhaini, PhD, Faculty of Health Sciences, American University of Beirut, Lebanon.
7. Ghada Farhat, PhD, Rollins School of Public Health, Emory University, USA.
8. Lilian Ghandour, PhD, Faculty of Health Sciences, American University of Beirut, Lebanon.
9. Elie Abu Jawdeh, MD Assistant Professor of Pediatrics, University of Kentucky Health care, USA
10. Richard Martin, MD, Director, Neonatal Research Programs, UH Cleveland Medical Center  
Professor, Pediatrics, CWRU School of Medicine, USA
11. Jeffery C. Murray, MD, Professor of Neonatology and Genetics University of Iowa, Children's  
Hospital, USA. Deputy director, Discovery and Translational Sciences focuses on preterm birth and  
early childhood growth development, Bill & Melinda Gates Foundation
12. Hala Tamim, PhD, York University, Canada.

## C. TEACHING

### LECTURES DIRECTOR OF A WORKSHOP ON INFANT AND NEONATAL NUTRITION ....

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- Building a Research program” Clinical Research Institute : the Faculty Advancement Program in Clinical Research March 2023
- Lecture on “ Building a Research program” Clinical Research Institute : the Faculty Advancement Program in Clinical Research March 2022
- Lecture on “ Building a Research program” Clinical Research Institute : the Faculty Advancement Program in Clinical Research April 2021
- Lecture on “ Building a Research program” Clinical Research Institute : the Faculty Advancement Program in Clinical Research March 2020
- Lecture on “ Building a Research program” Clinical Research Institute : the Faculty Advancement Program in Clinical Research March 2019
- Lecture on “ Building a Research program” Clinical Research Institute : the Faculty Advancement Program in Clinical Research June 2018
- Lecture on “ Building a Research program” Clinical Research Institute : the Faculty Advancement Program in Clinical Research June 2017
- Core Curriculum lectures for pediatric residents. (Ongoing)
- Pediatrics and adolescent medicine. (Ongoing)
- Epidemiology in Medicine course. Lecture: “Surveillance systems and databases: NCPNN model”. 2001- 2003, (Medicine II) Coordinator Dr. Abla Sibai, Faculty of Health Sciences.
- Physical diagnosis course. Lecture: “Physical Diagnosis in Genetics”. January 2005- 2010 (Medicine II), course coordinator Dr. Kassem Barada, department of Internal medicine.
- Respiratory support of the newborn Med IV medical students, and pediatric house staff

### CLINICAL TEACHING

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- Core Faculty.
- Teaching rounds in the Neonatal Intensive Care Unit (NICU), **four months** of every academic year. (neonatology fellows , residents Med III, , and nurses) since 1995
- Pediatric wards and emergency room patient discussions (Med IV, residents)
- Neonatal Follow up Clinic, Pediatric Outpatient Department -OPD- (Med III and Med IV)
- Residents Continuity Clinic, Pediatric Outpatient Department
- Shadowing by residents during weekdays in clinic
- Shadowing by Med II 2014-2105

### WORKSHOPS ORGANIZED

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- Organizer, 7<sup>th</sup> National Collaborative Perinatal Neonatal Network (NCPNN) meeting: 2019
- Organizer, 6<sup>th</sup> National Collaborative Perinatal Neonatal Network (NCPNN) meeting: 2017
- Organizer, Strengthening Maternal Death Surveillance and Response (MDSR) in Lebanon, Awareness session to Mothers in Bekaa 2016
- Organizer, Health day campaigns on preconception care awareness across the country 2011- 2014
- Organizer, National Collaborative Perinatal Neonatal Network (NCPNN) regional bi-annual meeting: 2014
- Organizer, 6 Birth Defects Classification - Birth Defects Surveillance In Lebanon workshops 2012
- Organizer, National Collaborative Perinatal Neonatal Network (NCPNN) regional bi-annual meeting: March 31, April 1 and 2, 2011
- Co-organizer, CPR, department of pediatrics course, 1996-2002
- Organizer, Neonatal Resuscitation Workshop, Academic year 2004-2005 (Pediatric residents, NICU nursing staff)

- Organizer, Neonatal Resuscitation Course, Academic year 2005-2006 (Pediatric residents, nurses).
- Organizer, evidence-based medicine workshop during the XXXVI Middle East Medical Assembly May 2002, activity by the working group on medical education (WGME), AUB
- Co-organizer Perinatal Neonatal day Middle East Medical Assembly, 2004
- Organizer/moderator, Perinatal and Neonatal Journal club every Tuesday during the academic year 2001-present.
- Co-organizer, workshop on Medical Education: Assessment Methods and Clinical teaching July 2000, activity by the working group on medical education (WGME), AUB
- Co-organizer, Workshop on Evidence based Medicine XXXIV Middle East Medical Assembly, May 1999, activity by the working group on medical education (WGME), AUB
- Organizer, National Workshop on Promoting Maternal and Perinatal Health in Lebanon: Collaborative Networking in Perinatal Neonatal Care, February 20 and 21, 2004
- Organizer, National Collaborative Perinatal Neonatal Network (NCPNN) annual meeting: Surveillance systems, May 12 and 13, 2006

## PEDIATRICS RESIDENTS AND FELLOWS

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- Advisor to Neonatology fellows
- Advisor to pediatric residents
- Advisor to Medical Students

## NEONATOLOGY FELLOWSHIP

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### List of fellows in neonatology at AUBMC supervised by Khalid Yunis:

- Salah Yamout 2023-2026
- Mohammad Hammoud 2022-2025
- Ali Dghaily 2021-2024

### List of former neonatology fellows taught and supervised by Khalid Yunis, MD and currently in various stages of their neonatology careers:

- |                     |  |
|---------------------|--|
| • Dana Arabi        | 2020-2023<br>Currently Neonatologist in the South, Lebanon                       |
| • Stephanie Loubnan | 2019-2022<br>Currently Neonatologist in Beirut, Lebanon                          |
| • Nisrine Ghalayini | 2018-2021<br>Currently Neonatologist in Beirut, Lebanon                          |
| • Mariam Anka       | 2017- 2020<br>Currently Neonatologist in the Bekaa, Lebanon                      |
| • Farah Lakkis      | 2016- 2019<br>Currently Neonatologist in the Bekaa, Lebanon                      |
| • Ghaleb Daoud      | 2015-2018<br>Currently Neonatologist at Sidra Medicine, Doha, Qatar              |
| • Alaa Obeid        | 2014-2017<br>Currently Neonatologist at Sulaymaniyah Al Habib Hospital, Dubai    |
| • Najwa Al Zaghal,  | 2013-2016,<br>Currently Clinical Instructor of Pediatrics (Neonatology) at AUBMC |



- Jessy Mouhayar, 2013-2016  
Currently Pediatrics and Neonatology Specialist at Bareen International Hospital, UAE
- Diala Romani, 2012-2014  
Neonatologist in charge, division of Neonatology, Keserwan Medical Center
- Farah Hajar, 2011-2013  
Currently Neonatologist at Al Mouwasat Hospital, AL Khobar, Saudi Arabia
- David Amandine, 2010-2012  
Currently Clinical Associate Emergency Department AUBMC
- Kawthar Alameddine, 2009-2011  
Currently Clinical Associate Emergency Department AUBMC
- Lina Merjaneh, 2008-2009 (Pediatric residency, University of Texas, Huston)  
Currently Assistant Professor, University of Washington - Seattle Children's Hospital
- Hassan Halawi, 2007-2008 (Pediatric residency, Cook Country Hospital, Chicago)  
Currently Practicing pediatrician in Los Angeles, CA, USA
- Akaber El Khamra, 2006-2007. (Pediatric residency, Syracuse University)  
Currently Practicing pediatrician in Alliance, Ohio, USA
- Hala Chaaban, 2005-2006. (Fellow in Neonatology, Brown University, RI, USA)  
Currently Assistant Professor, University of Oklahoma
- Manal El Sayed, 2004-2005.  
Currently practicing pediatrician and neonatologist at the Hospital for Sick Children, Toronto, Ontario, Canada
- Fadi Chamseddine, 2003-2004.  
Currently Clinical Associate, Department of Pediatrics and Adolescent Medicine, AUB

**List of former pediatric residents taught and supervised by Khalid Yunis, MD and currently in various stages of their neonatology careers in the US:**

- Elie Abu Jawdeh Fellowship in Neonatology, Rainbow Babies, Children's Hospital  
Currently Associate Professor of Pediatrics, UK Health care
- Lina Shalak: Fellowship in Neonatology, UT Southwestern Medical Center  
Currently Tenured Professor, UT Southwestern Medical Center
- Nahed El Hassan: Fellowship in Neonatology, University of Rochester  
Currently Associate Professor, University of Arkansas at Little Rock
- Cherine Abou Turk: Fellowship in Neonatology, University of Texas at Houston  
Currently in private practice, neonatology in Louisiana, USA
- Zahi Zeidan: Fellowship in Neonatology, Cleveland Clinics Metro Hospital  
Currently Assistant Professor, University of Nebraska
- Zahi Haidar: Fellow in Neonatology, University of Rochester  
Currently Assistant Professor, UA College of Medicine-Phoenix
- George Firzli: Fellow in Neonatology, University of Alabama  
Currently Assistant Professor, University of Alabama at Birmingham
- Shadi Malaeb: Fellow in Neonatology, Brown University  
Currently faculty member at Drexel University College of Medicine

- Karim Mroueh: Fellow in Neonatology, Indiana university  
Currently in private practice, neonatologist in Lebanon
- Hala Chaaban Fellow in Neonatology, Brown University  
Currently Associate Professor, University of Oklahoma
- Joseph El Khoury Fellow in Neonatology, University of Buffalo  
Currently Assistant Professor, Virginia Commonwealth University

#### MASTER’S THESIS ON DATA BY THE NATIONAL COLLABORATIVE PERINATAL NEONATAL NETWORK (NCPNN): Principal Investigator Khalid Yunis MD

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1. Aya Bou Fakhreddine, Epidemiology and Biostatistics, Faculty of Health Sciences, American University of Beirut. Risk of Subsequent Preterm Delivery Following C-section Births. Spring 2021-2022. (Co-advisor)
2. May Al Kassar, Master of Science, Epidemiology and Population Health, Faculty of Health Sciences, American University of Beirut. PATERNAL AGE AND MATERNAL COMPLICATIONS DURING PREGNANCY: IS THERE AN ASSOCIATION? April 2014. (Committee member)
3. Ban Al-Sahab. Master of Science, Epidemiology and Population Health, Faculty of Health Sciences, American University of Beirut. Predictors of breastfeeding in greater Beirut area. June 2004. (Co-advisor)
4. Ghina Mumtaz. Master of Science, Epidemiology and Population Health, Faculty of Health Sciences, American University of Beirut. Parental consanguinity and fetal growth in greater Beirut. June 2003. (Co-advisor)
5. Ramzi Saredidine. Master of Science, Population Studies, Faculty of Health Sciences, American University of Beirut. Factors associated with pregnancy complications: a study of cesarean section delivery at AUBMC. February 2003. (Co-advisor)

#### MASTER’S THESIS SUPERVISED

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1. Chireen Assaf. Master of Science, Epidemiology and Population Health, Faculty of Health Sciences, American University of Beirut. Effect of consanguinity on pregnancy outcome in Palestine, 2007. (Committee member)

#### GRADUATE STUDENTS SUPERVISED (PROJECTS AT THE NATIONAL COLLABORATIVE PERINATAL NEONATAL NETWORK (NCPNN))

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1. Razan Makki, Masters of Public Health (Epidemiology and Biostatistics), Faculty of Health Sciences, American University of Beirut, Fall 2022-2023
2. Sarah Farran, Masters of Public Health (Epidemiology and Biostatistics), Faculty of Health Sciences, American University of Beirut, Summer-Fall 2021-2022
3. Samer Abi Ghannam, Masters of Public Health (Epidemiology and Biostatistics), Faculty of Health Sciences, American University of Beirut, Summer-Fall 2020-2021

4. Antonious Faiez Fakhoury Masters of Public Health (Health Promotion and Community Health), Faculty of Health Sciences, American University of Beirut, Spring 2019-2020
5. Reem, Sandid Masters of Public Health (Epidemiology and Biostatistics), Faculty of Health Sciences, American University of Beirut, fall-Spring 2019-2020
6. Alaa Tawil Masters of Public Health (Epidemiology and Biostatistics), Faculty of Health Sciences, American University of Beirut, Spring 2018-2019
7. Taline Demerjian Masters of Public Health (Health Management), Faculty of Health Sciences, American University of Beirut, Fall 2017
8. Farah Sbeity Masters of Public Health (Health Promotion and Community Health), Faculty of Health Sciences, American University of Beirut, Spring 2017
9. Soha Dergham Masters of Public Health (Epidemiology & Population Health stream), Faculty of Health Sciences, American University of Beirut, Fall 2013
10. Riham El Masri Masters of Public Health (Epidemiology & Population Health stream), Faculty of Health Sciences, American University of Beirut, Summer 2013
11. Pamela Mrad Masters of Public Health (Epidemiology & Population Health stream), Faculty of Health Sciences, American University of Beirut, Spring 2012-2013
12. Ayah Al Bizri Masters of Public Health (Epidemiology & Population Health stream), Faculty of Health Sciences, American University of Beirut, January 2012
13. Hind Alameddine Masters of Public Health (Epidemiology & Population Health stream), Faculty of Health Sciences, American University of Beirut, Fall 2012.
14. Georges Assaf Masters of Public Health (Epidemiology & Population Health stream), Faculty of Health Sciences, American University of Beirut, April 2011.
15. Taha Itani Masters of Public Health (Epidemiology & Population Health stream), Faculty of Health Sciences, American University of Beirut, April 2010.
16. Eleine Khoury Masters of Public Health (Epidemiology & Population Health stream), Faculty of Health Sciences, American University of Beirut, February 2010. Best Poster Award
17. Mayssa Saadeh. Masters of Public Health (Epidemiology & Population Health stream), Faculty of Health Sciences, American University of Beirut: *Birth-related injuries and operative vaginal delivery*, February 2008.
18. Zeina Ghantous. Masters of Public Health (Epidemiology & Population Health stream), Faculty of Health Sciences, American University of Beirut: *Consanguinity supporting a genetic predisposition to preterm birth in a middle-income country*, February 2007.
19. Rasha Hamra and Maguy Ghanem. Masters of Public Health (Epidemiology & Population Health stream), Faculty of Health Sciences, American University of Beirut: *Predictors of post-partum depressive feeling among women in Beirut*, June 2006.

20. Nancy Boghossian. Masters of Public Health (Epidemiology & Population Health stream), Faculty of Health Sciences, and American University of Beirut: *Prenatal and neonatal Group B Streptococcus screening and molecular serotyping in Lebanon: Incidence and implications*, February 2006.

#### RESEARCH PROJECTS BY NEONATOLOGY FELLOWS SUPERVISED – AMERICAN UNIVERSITY OF BEIRUT MEDICAL CENTER

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1. Mariama Anka, MD:
  1. Cost reduction in the Neonatal Intensive Care Unit
  2. Quality-Improvement Effort to Reduce Hypothermia Among NICU admissions and post-op patients at AUBMC
2. Ghaleb Daoud, MD. *Gene-Environment Interactions in Genitourinary & Neural Tube Birth Defects Risk: A Lebanese Case-Control Study*, 2016-2018.
3. Farah Lakkis, MD. *Incidence of viral infections in preterm infants with late onset sepsis*. 2016-2017
4. Alaa Obeid, MD. *A Central Line Insertion and Maintenance Bundle Intervention*, 2013-2015.
5. Akaber El Khamra, MD. *Consanguinity supporting a genetic predisposition to preterm birth in a middle-income country*, 2007
6. Hala Chaaban, MD. *Outcomes following Conservative and Medical Treatment of Patent Ductus Arteriosus among newborns less than 33 weeks of gestation*, 2006.
7. Manal El Sayed, MD. *Antibiotic Misuse for Healthy Infants by Pediatricians*, 2005.
8. Fadi Shamseddine, MD. *Consanguineous marriages and congenital heart disease*, 2004.

#### RESEARCH PROJECTS BY PEDIATRIC RESIDENTS SUPERVISED – AMERICAN UNIVERSITY OF BEIRUT MEDICAL CENTER

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1. Carine Anka, MD. *Assessment of Pregnancy and Neonatal Outcomes Syrian Refugees: a case-control study in tertiary care centers in Lebanon*, 2017
2. Marwa Tuffaha, Mothers in Lebanon: *Unraveling their Family's Structure, Characteristics, Demands and Resources of Support*, OSRA, 2017-2018
3. Lina Shalak, MD and Nahed el Hassan, MD. *Asymptomatic Hypoglycemia in exclusively breastfed infants*, 2000.
4. Chirine Abu Turk, MD. *Serial CRP determination in sick neonates*, 1999.
5. Lina Shalak, MD. *Early postnatal pulse steroid therapy in sick very low birth weight infants is associated with significant azotemia*, 1998.
6. Nahed El Hassan, MD. *Theophylline toxicity in a two months old premature infant on Ranitidine*, 1998.
5. Sahar Tarif, MD. *A new syndrome with skeletal, renal and skin anomalies, reminiscent of, but*

distinct from, Hallerman Streif syndrome, 1998.

6. Rima Rashid, MD. *Early C-reactive protein CRP as Predictor of Neonatal Morbidity*, 1997.
7. Paula Hayek, MD. *Transient Neonatal Hypertrophic Cardiomyopathy and Antenatal administration of Steroids*, 1997.
8. Haitham Serhal, MD. *Successful inflation of a collapsed lung using short-term high frequency ventilation*, 1996.

## INVITED SPEAKER/DISCUSSANT/ATTENDEE

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### *International Meetings*

1. *Hot Topics in Neonatology, December 2023*
2. *Hot Topics in Neonatology, December 2022*
3. *The Mednax Center for Research, Education, Quality and Safety, Internet Live activity titled, “What Have We Learned About Perinatal COVID-19? Webinar” held at GoToWebinar on February 2, 2022.*
4. *Virtual Hot Topics in Neonatology, December 2021.*
5. *Virtual Frontiers Editor’s summit, December 2, 2020 (Editorial Board Member)*
6. *Children in armed conflict “Rights, Health and Wellbeing”, International Society for Social Pediatrics and Child Health in collaboration with the American University of Beirut, and St. Joseph University in Beirut September 25-28, 2019 (Invited Speaker)*
7. *10<sup>th</sup> International Arab Neonatal Care Conference September 26-28, 2019, Dubai, UAE. (Invited Speaker)*
8. *Global Networks for the prevention of Birth Defects and preterm Birth. 8<sup>th</sup> International Conference on Birth Defects and Disabilities in the Developing World, Bogota, Columbia, Sponsored by the March of Dimes (MOD), Center for Disease Control (CDC), National Institute of Health (NIH) November, 2017 (Invited Speaker)*
9. *Hot Topics in Neonatology. Washington DC, December 5-7, 2016*
10. *Global Networks for the prevention of Birth Defects and preterm Birth. 7<sup>th</sup> International Conference on Birth Defects and Disabilities in the Developing World, Dar Es Salam, Tanzania, Sponsored by the March of Dimes (MOD), Center for Disease Control (CDC), National Institute of Health (NIH) September, 2015 (Invited Speaker)*
11. *1st Meeting of the HRP Alliance Regional Research Committee (RRC) for Africa and Eastern Mediterranean Region - Nairobi, Kenya, 9 to 11 June 2015*
12. *Global Experts' Meeting (GEM) 2014, Greece, October 22-23, 2014*

13. *Estimating Burden of Disease for Congenital Disorders Increasing the Input Data and Harmonising Methods* **School of Hygiene & Tropical Medicine, London, 7-9th April 2014.**
14. *National Birth Defects Prevention Network Annual Meeting.* **CDC,Atlanta,** February 2013
15. *Hot Topics in Neonatology.* **Washington DC,** December 2012
16. *Vermont Oxford Network Annual Meeting & Quality Congress.* **Chicago,** October 2012
17. *Multicountry Survey/Maternal and Perinatal Health Meeting 2012 : 08-10 May 2012,* **Hua Hin, Thailand**
18. *National Birth Defects Prevention Network Annual Meeting.* **Virginia,** February 2012
19. *Vermont Oxford Network Annual Meeting and Hot topics in Neonatology.* **Washington DC,** December 2011
20. *Global Networks for the prevention of Birth Defects and preterm Birth.5th International Conference on Birth Defects and Disabilites in the Developing World,* Poland, Sponsored by the March of Dimes (**MOD**), Center for Disease Control (**CDC**), National Institute of Health (**NIH**) September, 2011(Member of the steering committee)
21. *Vermont Oxford Network Annual Meeting and Hot topics in Neonatology.* **Washington DC,** December 2009
22. *Use of Birth Defects Surveillance for Research and Prevention.4th International Conference on Birth Defects and Disabilities in the Developing World, New Delhi,* Sponsored by the March of Dimes (**MOD**), Center for Disease Control (**CDC**), National Institute of Health (**NIH**) *October, 2009 (Invited Speaker)*
23. *Global Networks for the prevention of Birth Defects and preterm Birth.4th International Conference on Birth Defects and Disabilites in the Developing World,* New Delhi, Sponsored by the March of Dimes (**MOD**), Center for Disease Control (**CDC**), National Institute of Health (**NIH**) *October, 2009 (Invited Speaker)*
24. **Yunis KA.** First Annual Meeting of the March of Dimes Partnerships for Perinatal Health Network (PPHN). *March of Dimes Foundation, White Plains, New York, December 2007.* (Invited Speaker and partner).
25. *Vermont Oxford Network Annual Meeting and Hot topics in Neonatology.* **Washington DC,** December 2007
26. *The Third International Conference on Birth Defects and Disabilities in the Developing World.* Sponsored by the March of Dimes (**MOD**), Center for Disease Control (**CDC**), National Institute of Health (**NIH**). **Brazil,** September 2007. (Invited Speaker & Member of Scientific Committee)
27. **Yunis KA.** The National Collaborative Perinatal Neonatal Network research model. Research seminar, *University of Texas, Southwestern University Center,* December 2006
28. *Vermont Oxford Network Annual Meeting and Hot topics in Neonatology.* **Washington DC,** December 2006. (Invited Discussant)

29. *Strengthening Newborn Screening in the Middle East and North Africa*. Sponsored by the National Institute for Child Health and Human Development (**NICHD**), **Morocco**, November 2006. (Invited Speaker & Member of Steering Committee)
30. **Yunis KA**. The National Collaborative Perinatal Neonatal Network - NCPNN, A multidisciplinary approach to improve perinatal & neonatal health through research, surveillance and intervention. *National Institute for Child Health and Human Development (NICHD) Neonatal Network annual meeting*, October 2006, **Bethesda, Maryland**. (Invited Speaker)
31. **Yunis KA**. The National Collaborative Perinatal Neonatal Network: a Multidisciplinary approach to improve perinatal health through surveillance, research and intervention. *National Institute of Health (NIH)*, **Bethesda, Maryland**, December, 2005. (Invited Speaker)
32. **Yunis KA**. Hospital-based registries for monitoring birth defects: The National Collaborative Perinatal Neonatal Network. *The Second International Conference on Birth Defects and Disabilities in the Developing World*. Sponsored by the March of Dimes (**MOD**), Center for Disease Control (**CDC**), National Institute of Health (**NIH**). **Beijing, China**, September 2005. (Invited Speaker)
33. *International Pediatric Association meeting*, **Washington DC**, July 2005. (Invited Discussant)
34. **Yunis KA**. Nutrition and Lung disease. *National Association of Neonatal nurses*, **North TX chapter, Dallas, TX**, October 1992. (Invited Speaker)
35. **Yunis KA**, Cowett RM, Kalhan S and Oh W. Ontogeny of glucose homeostasis following intravenous fat emulsion in low birth weight infants. *Fourteenth Annual New England Conference on Perinatal Research*, **Chatham, MA**, October, 1988. (Invited Speaker)
36. Ardila R, **Yunis KA**, Bureau MA. Relationship between infantile sheep apnea and preceding hyperventilation events. *Canadian Society for Clinical Investigation Meetings*, September, 1986.

### **Regional Meetings**

37. **Nestle Nutrition Educational Meeting on Neonatal Care**. Lebanon. May 11, 2023 (Activity Coordinator and Speaker)
38. **ABBOTT Pediatric Summit regional standalone**. Nutritional challenges in preterm infants. Lebanon. March 3 – 4, 2023. (Invited Speaker)
39. **Obstetric & Neonatal Guideline Updates**. Hammoud Hospital University Medical Center, Saida, Lebanon. July 10, 2021. (Invited Speaker)
40. **First Gulf International Neonatology Quality conference**. Muscat, Oman Nov 30 - Dec 2 2017. (Invited Speaker)
41. Fluid and Electrolyte Controversies First Few Days of Life. **The7th International Arab Neonatal Care Conference**, Intercontinental Dubai Festival City, 27-30 September 2017. (Invited Speaker)
42. Strategies to Prevent Health Care Associated Infection In NICU. **The7th International Arab Neonatal Care Conference**, Intercontinental Dubai Festival City, 27-30 September 2017. (Invited Speaker)

43. Meeting of the Advisory board on highlighting and sharing the experiences of the challenge facing the Neonates across the MEAP "Middle East, Africa & Pakistan" Region. Dubai, April 13 and 14, 2011 (Representative of the Levant area in neonatology)
44. Annual meeting of the **Syrian Association of Neonatology Conference, Syria, October 2010.** (Invited Speaker)
45. *Prevention, Screening and Treatment of Developmental Disorders in the Middle East and North Africa (MENA) Region.NIH sponsored Qatar, April 2010.* (Invited speaker)
46. *Improving the Maternal and Neonatal Health care in Lebanon. Syrian Association of Neonatology Conference , Syria, October 2009.*(Invited Speaker)
47. **Pan Arab Congress in Pediatrics and the 6th Arab Neonatology Forum Conference, Amman, Jordan, May 2009.** (Invited Speaker)
48. Perinatal Neonatal Health Research Networks: Experience of the National Collaborative Perinatal Neonatal Network. **5<sup>th</sup> Arab Neonatology Forum Conference, Bahrain, January 2008.** (Invited Speaker)
49. **Yunis KA.** Respiratory distress in the newborn. *Ministry of Health Pediatric Annual Meeting, Jordan, November 2006.* (Invited Speaker)
50. **Yunis KA.** Regional perinatal networking: The need for collaboration. *Jordan Hospital Continuous Medical Education Program, December 22, 2004.* (Invited Speaker)
51. **Yunis KA.** Update on surfactant. The *Annual Meeting of the Syrian Association of Neonatology, Damascus, November 2004.* (Invited Speaker)
52. **Yunis KA.** National Collaborative Perinatal Neonatal Network: The network model and concept. The *Jordanian Society of Obstetricians and Gynecologists, Amman, Jordan, April 2004.* (Invited Speaker)
53. **Yunis KA.** National Collaborative Perinatal Neonatal Network: The network model and concept. The *Annual meeting of the Syrian Pediatric Society, Ladkieh, Syria, October 2003.* (Invited Speaker)
54. **Yunis KA.** Congenital anomalies in Lebanon: a survey of live births admitted to nine hospitals in greater Beirut. *Cairo International Workshop, November 2001.* (Invited Speaker)
55. **Yunis KA.** Hypoxic Ischemic Brain Injury in the Newborn. *Pediatric Grand Rounds: King Faisal Specialist Hospital and Research Center, Riyadh, Kingdom of Saudi Arabia, June 24, 1998.* (Invited Speaker)

#### ***Local Meetings***

56. **Yunis KA.** Preconception care: the life cycle. *6<sup>th</sup> National Collaborative Perinatal Neonatal Network (NCPNN) meeting February 2-4, 2017, Beirut – Lebanon* (Invited Speaker)
57. **Yunis KA.** International Annual Congress of The Lebanese Society of Obstetrics & Gynecology,



Identifying High Risks in Maternal Healthcare Under Conflict (NCPNN Session), Panel Discussion  
October 27 - 29, 2016, Beirut – Lebanon (Chairperson)

58. **Yunis KA.** Expert consultation meeting on guideline adaptation, Methodology for Adapting the World Health Organization (WHO) Guidelines, American University of Beirut (AUB) GRADE Center. Beirut, Lebanon 30-31 May 2016. (Invited discussant)
59. **Yunis KA.** Regional Pan Arab Congress by the Lebanese Society for Obstetrics and Gynecology, November 2012 (Invited Key Note Speaker)
60. **Yunis KA.** Xth Makassed Medical Congress, July 2012 (Invited speaker)
61. **Yunis KA.** IXth Makassed Medical Congress , October 2010 (Invited speaker)
62. **Yunis KA.** Ain wa zein Hospital, Neonatology day, June 2010. (Invited speaker)
63. **Yunis KA.** “ A newborn with cyanosis” Makassed general hospital, **Grand Round**, May 2010 (Invited speaker)
64. **Yunis KA.** *The National Collaborative Perinatal Neonatal Network NCPNN. 17th Congress of the Lebanese order of Pharmacists, Lebanon, October 2009.*(Invited Speaker)
65. **Yunis KA.** Antenatal Steroids in Lebanon: Data from the National Collaborative Perinatal Network. *Lebanese Society of Obstetrics and Gynecology: The Annual meeting of Obstetrics and Gynecology*, Beirut, November 2007.
66. **Yunis KA.** Networks in developing countries: Experience of the National Collaborative Perinatal Network. *Lebanese Epidemiologic Association meeting*, Beirut, November 2004. (Invited Speaker)
67. **Yunis KA.** Infants born to HBsAg positive mothers. *St Joseph University, Hotel Dieu de France Hospital*, October 2005. Pediatric Grand Round (Invited Speaker)
68. **Yunis KA.** Enteral Nutrition for the Very Low Birth Weight Infant. *St Joseph University, Hotel Dieu de France Hospital*, October 2004. Pediatric Grand Round (Invited Speaker)
69. **Yunis KA.** Scientific Days. *Notre Dame de la Paix Hospital*, Byblos, 4-6 march 2004. (Invited discussant)
70. **Yunis KA.** National Collaborative Perinatal Neonatal Network: The network model and concept. *Ain wa Zain Hospital Pediatric Conference*, Ain wa Zain, November 15, 2003. (Invited Speaker)
71. **Yunis KA.** Update in the treatment of persistent pulmonary hypertension in the newborn. *Pediatric Grand Round, Lebanese University*, March 2003. (Invited Speaker)
72. **Yunis K.** Early enteral support of the very low birth weight infant. *First Joint Lebanese Italian Symposium*, organized by the Faculty of Medical Sciences Lebanese University and the Faculty of Medicine - University of Perugia, April 2001. (Invited Speaker)
73. **Yunis K.** Postnatal steroids administration. The VIII<sup>th</sup> Congress of the *Union of the Arab Pediatric societies*, UNSECO Palace, Beirut, Lebanon, 2000. (Invited Speaker)

74. **Yunis K.** *National Collaborative Perinatal Neonatal Network, New Directions in Health Care Reform. Lebanese Society for Perinatal Medicine Monthly Scientific Meeting*, Middle-East Hospital, Beirut Lebanon, February 23, 1999. (Invited Speaker)
75. **Yunis KA.** Parenteral Nutrition, principles, practice, and surveillance. *Advances in Neonatology for the Developing Countries*, Neonatal Nutrition and Gastroenterology Session. The McGill University Continuing Medical Education, Montreal Canada and the Faculty of Medical Sciences Lebanese University, Beirut Lebanon, October 3, 1998. (Invited Speaker)
76. **Yunis KA.** Breast feeding, milk bank and formula. *Advances in Neonatology for the Developing Countries*, Neonatal Nutrition and Gastroenterology Session. The McGill University Continuing Medical Education, Montreal Canada and the Faculty of Medical Sciences Lebanese University, Beirut Lebanon, October 3, 1998. (Invited Speaker)
77. **Yunis KA.** Transient Hypertrophic cardiomyopathy and antenatal administration of steroids. *Regional symposium of Perinatal Medicine*, Sidon, Lebanon, May 1997. (Invited Speaker)
78. **Yunis KA.** Principles and advances in the respiratory support of the critically ill neonate. *The XXXI<sup>th</sup> Middle East Medical Assembly*, Beirut, Lebanon, May 9-12, 1996. (Invited Speaker)

#### MODERATOR/ORGANIZER

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1. Moderator, Annual Pediatrics Update Symposium, February 2018
2. Co-Organizer, Press Conference: National campaign to prevent birth defects among newborns Birth Defects awareness day, Ministry of Public Health, Lebanon, February 2017
3. Moderator, Safe Start: Early Childhood Mental Health Updates 4th conference of the Division of Child and Adolescent Psychiatry, Lebanon, February 2017
4. Organizer, 6<sup>th</sup> National Collaborative Perinatal Neonatal Network (NCPNN) meeting February 2-4, 2017
5. Organizer, National Collaborative Perinatal Neonatal Network (NCPNN) 5<sup>th</sup> Bi-annual meeting November 6-8, 2014
6. Moderator Second Annual Vascular Medicine Program Research Retreat August 24, 2013
7. Member Scientific committee of the 6<sup>th</sup> International Conference on Birth Defects and Disabilities in the Developing World, November 10-13 Shangri-La Mactan Cebu, Philippines
8. Organizer Regional Training Workshop in collaboration with WHO, April 5 and 6, 2011.
9. Organizer, National Collaborative Perinatal Neonatal Network (NCPNN) Regional Bi-annual meeting March 31, April 1 and 2, 2011.
10. Co-Organizer, Consultative Meeting For Strengthening Maternal, Perinatal and Neonatal Health Surveillance Systems in the EMR, BEIRUT, LEBANON, 28-30 OCTOBER 2010 in collaboration with WHO and AUB.
11. Moderator, *The 5th Eastern European and Mediterranean Cerebral Palsy and Developmental*

*Medicine conference Lebanon, May 2010.*

12. Organizer, 43<sup>rd</sup> MEMA Pediatric day, April, 2010.
13. Member, Scientific Committee of the 43<sup>rd</sup> *Middle East Medical Assembly*, Beirut, Lebanon, April 2010.
14. Member, Organizing Committee of the 43<sup>rd</sup> *Middle East Medical Assembly*, Beirut, Lebanon, April 2010.
15. Workshop on surveillance systems and electronic data submission system, Ministry of Health Abu Dhabi, in collaboration with WHO EMRO, December 2009
16. Organizer, training workshop for regional collaboration, August ,2009
17. Organizer, 42<sup>nd</sup> MEMA Pediatric day, April, 2009
18. Member, Scientific Committee of the 42<sup>nd</sup> *Middle East Medical Assembly*, Beirut, Lebanon, April 2009.
19. Member, Organizing Committee of the 42<sup>nd</sup> *Middle East Medical Assembly*, Beirut, Lebanon, April 2009.
20. Co-Organizer. Dissemination workshop in collaboration with the MOH and UNICEF, April 28, 2009.
21. Organizer, training workshop for regional collaboration, February 20 -21,2009
22. Organizer, National Collaborative Perinatal Neonatal Network (NCPNN) annual meeting and regional workshop, Nov 21 and 22, 2008
23. Member, *Scientific Committee of the 30<sup>th</sup> Congress of the Union of Middle-Eastern and Mediterranean Pediatric Societies*, Damascus, Syria, September 2006.
24. Organizer, *National Collaborative Perinatal Neonatal Network (NCPNN) annual meeting*, Beirut, May 12 and 13, 2006.
25. Chairperson, Neonatology Session, *Makassed General Hospital VIII<sup>th</sup> Congress in Pediatrics*, November 2005.
26. Co-organizer, Perinatal and Neonatal Day during the *XVIII<sup>th</sup> Middle East Medical Assembly*, Beirut, Lebanon, May 2004.
27. Organizer, *National Workshop on Promoting Maternal and Perinatal Health in Lebanon: Collaborative Networking in Perinatal Neonatal Care*. National Collaborative perinatal Neonatal Network (NCPNN), Beirut, February 20 and 21, 2004.
28. Member, Scientific Committee of the *XXVII<sup>th</sup> Middle East Medical Assembly*, Beirut, Lebanon, May 2004.
29. Member, Organizing Committee of the *XXVII<sup>th</sup> Middle East Medical Assembly*, Beirut, Lebanon, May 2004.

30. Organizer, *Graduating Medical Doctors class of 2003 honoring ceremony and gala dinner*, American University of Beirut, Beirut, Lebanon, June 2003.
31. Organizer, the *Golden Anniversary of American University of Beirut Doctors: The Kibaruna ceremony*, Beirut, Lebanon, March 2003.
32. Organizer and facilitator, Introduction and Implementation of Evidence-Based Medicine, Regional Workshop on Evidence-Based Medicine, The XXXVI<sup>th</sup> Middle East Medical Assembly, Beirut, May, 2002. Working Group on Medical Education AUB
33. Member, Organizing Committee of the XXXVI<sup>th</sup> Middle East Medical Assembly, Beirut, Lebanon, May, 2002.
34. Workshop on maternal and infant health. Organized by the Lebanese Ministry of Public Health. Beirut, Lebanon July 2001.
35. Facilitator, Workshop in Medical Education: Assessment Methods and Clinical Teaching. American University of Beirut, Faculty of Medicine, Beirut, October 14-15, 2000.
36. Co-organizer, *Workshop on Medical Education: Effective Teaching*. The XXXV<sup>th</sup> Middle East Medical Assembly, Beirut, Lebanon, May 2000.
37. Co-organizer, Evidence-Based Medicine Workshop, XXXIV<sup>th</sup> Middle East Medical Assembly, Beirut, Lebanon, May 6-9, 1999. Working Group on Medical Education AUB
38. Moderator, *Second Congress of the Lebanese Society of Pediatric Surgery*, Beirut, Lebanon, November 7, 1998.
39. Member, Scientific Organizing Committee of the XXV<sup>th</sup> Congress of the Union of the Middle-Eastern and Mediterranean Pediatric Societies, Beirut-Lebanon, April 15-17, 1999.
40. Member, Publication Committee of the XXXIII<sup>th</sup> Middle East Medical Assembly, Beirut, Lebanon, May 7-10, 1998.
41. Moderator, Pediatric Update Symposium at the XXXIII<sup>th</sup> Middle East Medical Assembly, Beirut, Lebanon, May 7-10, 1998.
42. Workshop on National Policies and Strategies in Health Research organized by the National Council for Scientific Research, Ministry of Public Health and the World Health Organization, Beirut, Lebanon, November 28-30, 1997.
43. Moderator, Pulmonary Session at the *Second European-Lebanese Symposium in Perinatal Medicine*. St. Georges Hospital, Beirut, Lebanon, October 13-16, 1996.
44. Moderator, Pediatric Pulmonary Session at the *Third Makassed Medical Congress*. Makassed General Hospital, October 7-10, 1996.

## C. SERVICE

Data from the NCPNN provided to other investigators/health care providers in Lebanon as part of the network's collaborative concept and mission

<b>Data requested by</b>	<b>Description of the data provided</b>
Dr. Muhieddine Seoud, AUBMC	Prevalence of total cesarean sections in selected NCPNN network hospitals among nulliparous women 2001-2014
Dr. Taleb Jammal, Rassoul Azam Hospital	Hospital Data, 2012-2015
Dr Georges Abi Tayeh and Christelle Younes, Hotel Dieu de France	The effect of smoking and maternal nutritional status on maternal weight gain and anthropometric parameters of the baby at delivery, 2012-2013 HDF Data
Samer Maalouf, Hotel Dieu de France	Maternal obesity and neonatal macrosomia, 2001-2011
Elie Chalhoub, ob-GYN Fellow, Hotel Dieu de France	2008-2015 HDF data
Lydia Karam, Intern, Hotel Dieu de France	Neonatal infections, NICU admission, 2004-2007, Hotel Dieu de France data
Chrissy Hage, Hotel Dieu de France	HDF data on Preterm births and complications. 2010-2012
Nadine Zahar, Hotel Dieu de France	Mortality and morbidity data, 2008-2012
Dr. Kassem Barada, Department of Internal Medicine, AUBMC	The consanguinity effect among different religious sects at AUBMC, 2001-Sept. 2003
Dr. Rima Wakim, Department of Pediatrics, AUBMC	Rate of multiple pregnancies at AUBMC, Sept 1 <sup>st</sup> , 1997-Aug 31 <sup>st</sup> , 1998
Sahel General Hospital, Department of Obstetrics & Gynecology	Characteristics of infants admitted to Sahel General Hospital, Jan-May 2000
Dr. Alia Aaraj, Department of Pediatrics, Rassoul Azam Hospital	Survival rates of preterm infants admitted to Rassoul Azam Hospital
Dr. Hala Taha, Department of Dentistry, St-Joseph University	Rates of cleft lip / Cleft palate at nine NCPNN centers, Apr 1999-Sept 2000
Mrs. Mary Salameh, Universite Paris V, France (Thesis requirement)	Perinatal characteristics of the Greater Beirut population
Dr. Nabil Mounla, Department of Pediatrics, AUBMC	Incidence of hypospadias at AUBMC, Apr 1999-Mar 2001

Rizk Hospital Administration	Maternal breast feeding patterns at Rizk Hospital , Aug 2001-Feb 2002
Dr. Hanane Masri, Department of Pediatrics, Rassoul Azam Hospital	Patterns of BCG vaccination at Rassoul Azam Hospital, Aug 1 <sup>st</sup> 2001-Aug 6 <sup>th</sup> 2002)
Dr. Ghassan Chehab, Pediatric Cardiologist, Hotel Dieu de France Hospital	Rates of consanguinity at four NCPNN centers, 2000-2001.
Dr. Maryam Rajab, Department of Pediatrics, Makassed General Hospital	NCPNN general annual report, 2000-2001
Dr. Majd Ariss, Department of Pediatrics, AUBMC	NCPNN general annual report, 1999-2000
Dr. Imad Chami, Department of Pediatrics, Sahel General Hospital	Mean birthweight of full-term babies, 10 NCPNN centers, 2001-2002
Dr. Nabil Hokayem, Department of Plastic Surgery, Hotel Dieu de France Hospital	Incidence and sex distribution of cleft lip/palate, 10 NCPNN centers, 2000-1
Mrs. Najat Hatab, Head Nurse, Hotel Dieu de France Hospital	Rates of prematurity, 10 NCPNN centers, 2002
Dr. Lina Badr, Professor of Nursing, Balamand University	Neonatal mortality rates by night versus day shifts of nurses, Hotel Dieu de France Hospital,
Dr. Nada Souccar, Department of ENT, AUBMC	Average yearly number of preterm births at AUH
Ms. Viviane Maroun Khoury, Hotel Dieu de France Hospital , Department of Pediatrics, Dr. Imad Melki	Breastfeeding rates, at Hotel Dieu de France Hospital 2003-2005
Dr. Pierre Zalloua, AUBMC	Premature newborns, AUBMC, 2001-2005
Dr. Mohamad Mikati, Department of Pediatrics, AUBMC	Rate of seizures and list of patients with seizures admitted to AUBMC, 2001-2005
Dr. Joe Suidan, Hotel Dieu de France Hospital	Antidepressants use, HDF & NCPNN population, Sept 03- Dec. 05
Dr. Ghada Fuleihan, AUBMC	Number of deliveries, anthropometrics, SES indicators, AUBMC 2004-2006
Dr. Anwar Nassar, AUBMC	Early neonatal death, AUBMC, Mar-Dec 2006
Dr. Mohammad Khalifeh, MOPH	Perinatal neonatal report, NCPNN population, 2005
Dr. Mona Nabulsi, AUBMC	In-hospital breastfeeding rates, 3 hospitals, 2005.Breastfeeding patters 1 <sup>st</sup> year FUP study
Dr. Tamar Kabakian, FHS, AUB	Neonatal statistics, NCPNN, 2005
Dr. Lama Charafeddine, CMC	Nosocomial infections, NCPNN population
Ms. Souraya Kassem, MPH student, FHS, AUB	Birth rate, In-hospital mortality rate & Milk feeding patterns, AUBMC, 2005

Ms. Randala Berro, MPH student, Southampton University	Rates of NTD, NCPNN population, 2004-6 Rate of folic acid intake
Dr. Walid Ammar, Director General MOPH	Neonatal Mortality NCPNN population 2001-2006.
Mrs. Rawan Shayboub, FHS, AUB	Stillbirth rate, NCPNN population 2006
Ms. Grace Jrad, HDF	HDF population 2005-2007
Dr. Leila Dirani, AUBMC	Rates of IVF, NCPNN population 2004-2007
Dr. Yolla Nassif, St. Georges Hospital	St. Georges NICU population 2008
Dr. Joseph Ghafari, AUBMC	Cleft rates NCPNN population 2004-2008
Dr. Jocelyn DeJong, FHS, AUB	Mode of delivery rates NCPNN Population 2008

## COMMITTEES

<b>2019</b>	Promotion/Tenure Committee member, Faculty of Arts and Sciences, American University of Beirut
<b>2018-2019</b>	Promotion/Tenure Committee member, Faculty of Health Sciences, American University of Beirut
<b>2015-present</b>	Program Evaluation Committee
<b>2015</b>	ED Borders Taskforce, American University of Beirut Medical Center
<b>2015</b>	Patient Attribution Taskforce, American University of Beirut Medical Center
<b>2010 and 2015</b>	Expanded FHS Advisory Committee, Faculty of Health Sciences, American University of Beirut
<b>2010-2014</b>	Chair, Infant and Baby Identification Taskforce, American University of Beirut Medical Center
<b>2012-present</b>	Medical Advisory Committee, American University of Beirut Medical Center
<b>2012- 2014</b>	Blood Utilization Committee, American University of Beirut Medical Center
<b>2012-present</b>	Performance Improvement Committee, American University of Beirut Medical Center
<b>2012-August 2013</b>	Team leader, Pediatrics Private Clinics Collaborative Practice Team, American University of Beirut Medical Center
<b>2012-Present</b>	Team leader, NICU Collaborative Practice Team, American University of Beirut Medical Center
<b>2011 – 2013</b>	Search Committee for the chair of the Department of Emergency Medicine, American University of Beirut
<b>2011 – 2012</b>	Critical Care Committee, American University of Beirut Medical Center
<b>November 2009</b>	Committee on Research Policies and Procedures chaired by Dr. Ali Bazarbachi
<b>August 2009</b>	Elected as a faculty representative to the Board of Trustees
<b>July 2009</b>	Committee on conflict of interest chaired by Dr. Mounir Obeid
<b>March 2009</b>	Committee for faculty member's appraisal at the Faculty of Health Sciences at AUB.
<b>June 2008</b>	Committee for faculty member's appraisal at the Faculty of Health Sciences at AUB.
<b>2008</b>	Appointed to the Board of Deans promotion meeting 2008.
<b>2006 - present</b>	Committee on the Rights of the Child – Republic of Lebanon, Ministry of Social Affairs, Higher Council for Childhood
<b>2006 – 2008</b>	Infection Control Program, American University of Beirut Medical Center
<b>2005 - 2009</b>	Research Committee, Faculty of Medicine, American University of Beirut
<b>2005 - 2006</b>	Co-chair Strategic Committee for Critical Care, American University of Beirut Medical Center
<b>2002</b>	Task Force on Constructions and Activities
<b>2002</b>	Accreditation: Task Force on Integrity, American University of Beirut
<b>2001- 2002</b>	Chairperson Nutrition Committee, American University of Beirut Medical Center
<b>2001- 2007</b>	President, Medical Alumni Chapter American University of Beirut Medical Center
<b>2000</b>	Committee on Public Health, the Higher Council for Health Reform, Ministry of Public Health
<b>1999 – 2007</b>	Hospital Bioethics Committee, American University of Beirut Medical Center
<b>1999</b>	Hospital Marketing Audit Group, American University of Beirut Medical Center
<b>1999</b>	Task force on medications errors
<b>1998 – 2000</b>	Executive Committee of the Medical Alumni Chapter American University of Beirut Medical Center
<b>1998</b>	Technology Review Committee, American University of Beirut Medical Center
<b>1998-present</b>	Publications Committee, Organizing Committee, Scientific Committee, Middle East Medical Assembly
<b>1997 – 1999</b>	Medical Practice Plan Committee



<b>1996 – 1997</b>	Medical Library Committee, American University of Beirut Medical Center
<b>1996 - Present</b>	Nutrition Committee American University of Beirut Medical Center
<b>1995 - 2004</b>	Intensive Care Committee, American University of Beirut Medical Center
<b>1995 - 1996</b>	Quality Assurance Committee American University of Beirut Medical Center

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#### **DIRECTOR NEWBORN SERVICES: Neonatal Intensive Care Unit & Normal Newborn Unit**

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**Newborn services:** Largest pediatric service with over 1,400 admissions per year with about 200 admissions to the NICU

- Currently spends four months of the year as attending of the month in the neonatal intensive care unit, and consultant on difficult neonatal cases throughout the year
- Administration of both units
- Strong collaboration with obstetric and perinatal service at AUBMC

#### **Fellowship:**

- 3 years fellowship program approved as of June 2010
- In 2015exceptionally, four neonatology fellows to improve care and outcome
- As of 2013, three neonatology fellows to improve care and outcome
- As of 2003, one fellow per year in neonatology to improve care and outcome.

#### **Activities & Achievements:**

- Review of all Normal Nursery and Neonatal Intensive Care Unit policies for JCI visit 2017
- Working on having a point of care Blood Gas machine in the unit in 2016
- performed the first ECMO case in the country in collaboration with the divisions of pediatric cardiology, cardiovascular surgery and pediatric intensive care 2016
- Introduced the first Hypothermia machine as a standard of care in the unit in 2015
- Overlooked the establishment of a new neonatal intensive care unit at Keserwan Medical Center KMC in 2015
- Core curriculum lectures every Thursday attended by pediatricians, pediatric residents and fellows, and neonatology fellows.
- Case reviews every Tuesday attended by the division neonatologists, fellows, and invited consultants who were involved in the care provided from different departments.
- Established with the initiative and support of volunteer mothers “The Neonate Fund” to financially support needy patients admitted the NICU at AUBMC.
- Inaugurated a new state of the art highly equipped NICU capable of accommodating up to 23 newborns, with a highly specialized medical and nursing team, and in 2011
- Pioneered infection control measures as per CDC guidelines years ago including the presence of alcohol based solutions for hand sterilization next to each patient.
- NICU chosen as the unit with the most impressive achievement in infection control
- New normal newborn unit opened in 2004
- New NCIU project to replace the old NCIU under way. NICU moved temporarily to 7 south
- Neonatal Intensive care unit booklet written, printed and distributed to families of NICU patients
- Neonatology manual for the staff prepared with the neonatal fellows
- Neonatal resuscitation course for the pediatric and obstetric residents, neonatal and obstetric nurses with the neonatal fellows
- Perinatal Neonatal journal club every Wednesday attended by pediatricians, neonatologists from different Beirut hospitals, members of the NICU staff, medical students rotating in the NICU, along with inhalation therapists, and perinatologists.

- Monthly joint Pediatric Obstetric conference to discuss high risk pregnancies and their outcomes
- Established the first weekly multidisciplinary collaborative practice meeting in the hospital
- NICU team provides strong support to parents and families of sick newborn
- Newborn nursery team supports mothers of healthy newborns specifically in encouraging breast feeding
- Comprehensive follow up clinic available to all NICU graduates either in the outpatient department or private clinics
- Currently the NICU at AUBMC provides the best state of the art neonatal service in the country and arguably the region.
- Raised close to \$ 500, 000 for the NICU and the pediatric department in addition to :
  - Securing funds for Normal newborn nursery decoration provided by own patient
  - Securing funds for private pediatric clinics decoration provided by own patient
  - Securing funds from Happi foundation for building conference room on 6<sup>th</sup> floor
  - Securing funds for TV's placed in third class rooms provided by own patient
  - Securing funds for the new private pediatric clinics in building 23, provided by own patient
  - Securing funds for research in neonatology "Maymouna-Souad Sawwaf fund" provided by own patient

## **NATIONAL COLLABORATIVE PERINATAL NEONATAL NETWORK (NCPNN)**

- Founded the NCPNN in 1998 as a collaborative surveillance network for perinatal and neonatal health (first of its kind in the region)
- Network coordinating center at the American University of Beirut.
- Currently composed of 30 hospitals covering 30% of all deliveries in Lebanon. Currently data on > 250,000 newborn and pregnant mothers in the network database.
- Objective to reach at least 50% of deliveries all over Lebanon.
- Work in Collaboration with the Center for Disease Control and Prevention (CDC)
- Work in Collaboration with the March of Dimes foundation (MOD)
- Work in collaboration with the World Health Organization (WHO)
- Work in collaboration with the Ministry of Public Health
- Established the first national Birth defects surveillance system in the country in collaboration with the Ministry of public health and the center for disease control and prevention in 2012
- Network developed software for electronic submission of data via the internet. Software available in three languages: English, French and Arabic. Last stages of testing. Grant support from UNICEF
- Network established Neonatal Resuscitation program in the Network Hospitals to achieve millennium goal 4 set by the United Nations to decrease neonatal mortality.
- Summary on the network activities, goals and achievements was presented in a page and half among other AUB programs in the letter submitted by President Dorman to the US Government in June 2009 as follow up on President Obama Speech on June 4, 2009, to encourage Arab countries.

### **Collaborations and Consultancies:**

- Collaboration with Hatem El-Shanti, MD, Managing Director , Shafallah Medical Genetics Center, Doha, Qatar, Adjunct Associate Professor of Pediatrics, University of Iowa, Iowa City, USA.
- Collaboration with Jeffery C. Murray Professor of Neonatology and Genetics University of Iowa, Children's Hospital , 2010
- Collaboration with Dr. Richard Martin and Dr. Elie Abu Jawdeh, Case Western University, 2010
- NCPNN Site visit by WHO EMRO for evaluation and consultancy on regional collaborations, March 2010
- Consultancy visit to NCPNN by Dr. Timothy De Ver Dye, Public health and preventive medicine, SUNY Upstate Medical University, March 2010
- Visit to NIH, Dr. James Hanson, and Ms. Judy Levine, December 2009

## **GLOBAL NETWORK FOR MATERNAL AND INFANT HEALTH (GNMIH)**

Founded by the march of dimes (MOD) and includes Brazil, China, Philippines and Lebanon. NCPNN was recognized for the infrastructure in surveillance that it established in Lebanon and the quality of data it produced. The Network was invited to join the global network based on its structure and contribution to the Maternal and Neonatal health in 2008 for an ongoing collaboration to date

## **PRESIDENT MEDICAL ALUMNI CHAPTER**

- Elected President of the Medical Alumni Chapter of the AUB alumni association 2001- 2007
- Re-elected for a second term 2003-2006

Organized **Kibaruna**: a two day event honoring for the first time our elders: AUB doctors graduate of the faculty of medicine from all over the world. The event included meeting with the President of the Lebanese republic, a meeting with AUB President Dr. John Waterbury, and a fund raising event to honor and celebrate the Golden anniversary of the graduation of our medical doctors.

Published **SCAN**: the medical alumni newsletter, for the first time in many years to commemorate the Kibaruna event

**Medical Student financial aid**: \$ 17,000 were donated by the medical alumni chapter in financial support of AUB medical students

Member of the organizing committee of the Middle East Medical Assembly **MEMA**, the annual scientific meeting organized in coordination with the faculty of medicine and MEMA and the Medical Alumni Chapter

**Annual Graduating class** and honoring of outstanding AUBMC doctors: Established the tradition of honoring and celebrating the graduation of the new medical doctors and the honoring of AUBMC physicians who contributed significantly to AUB, the community and the medical alumni chapter

**Annual Alumni Lunch**: held during MEMA for all AUB medical alumni and honoring outstanding AUB medical graduate for their academic achievement.

**Received the Lebanese Order of Physicians Gold Shield**: recognition of the Medical Alumni Chapter achievement

**Honored by the Graduating Class** of 2006