

CURRICULUM VITAE

I. PERSONAL DATA:

Name: Ayman A.E. El-Mohandes

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Date and place of birth: 1/30/1952, Guizeh, Egypt

Citizenship: United States

Languages fluency: Fluent in English, Arabic, and French

II. EDUCATION:

Undergraduate Education:

1969 Premedical Science with merit, Cairo University, Egypt.

Graduate/Medical Education:

1974 M.B.B.Ch. with distinction "Cum Laude", Cairo University, Egypt.
1978 M.Sc. Pediatrics "Cum Laude" Cairo University, Egypt.
1981 M.D. Pediatrics "Cum Laude" Cairo University, Egypt.
1991 M.P.H. Epidemiology/Biostatistics, "Suma Cum Laude" George Washington University,
Washington, D.C., U.S.A.

Post-graduate Training:

1975-1976 Rotating Internship, Cairo University Hospitals, Egypt.
1976-1979 Residency in Pediatrics, Children's Hospital, Cairo University, Egypt.
1979-1981 Research Fellowship in Immunology, University of Claude Bernard, Lyon, France.
1982-1984 Fellowship in Neonatology, Children's Hospital National Medical Center, Washington
D.C., U.S.A.
1984-1985 Residency in Pediatrics, Children's Hospital National Medical Center, Washington
D.C., U.S.A.

III. EMPLOYMENT:

Academic Positions Held:

1979 Assistant Lecturer of Pediatrics, Cairo University.
1982 Lecturer of Pediatrics, Cairo University.

- 1985-1986 Instructor in Pediatrics, George Washington University.
1986 Assistant Professor in Pediatrics, George Washington University.
1987 Assistant Professor in Obstetrics & Gynecology, George Washington University.
1993 Director of Maternal and Child Health Track, MPH Program, George Washington University.
1995 Tenured Associate Professor of Pediatrics, and Obstetrics & Gynecology, George Washington University School of Medicine and Health Sciences.
1997 Associate Professor of Prevention and Community Health, & International Health, George Washington School of Public Health and Health Services.
1998-1999 Acting Associate Dean of Research, George Washington University School of Public Health and Health Services.
1999-2001 Associate Dean for Research, George Washington University School of Public Health and Health Services.
2002-Present Tenured Professor of Pediatrics and Obstetrics, George Washington University School of Medicine and Health Sciences
2002-Present Tenured Professor of Prevention and Community Health & Global Health George Washington University School of Public Health and Health Services
2003-2007 Interim Chairman of Prevention and Community Health
2007 Chairman of the Department of Prevention and Community Health

Hospital Appointments Held:

- 1985-Present Attending Neonatologist, George Washington University Hospital.

IV. PROFESSIONAL REGISTRATIONS, LICENSES & CERTIFICATION:

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| 1975 (July) | ECFMG |
| 1984 (December) | FLEX |
| 1987 (April) | American Board of Pediatrics |
| 1987 (September) | American Sub-Board of Neonatal-Perinatal Medicine |
| 1985-Present | D.C. License # 15260 |

V. SOCIETIES AND HONORS:

Membership:

- 1984-Present Member of The American Medical Association.
1987-Present Fellow of The American Academy of Pediatrics.
1989-Present Member of The Section of Perinatal Pediatrics in The American Academy of Pediatrics.
1990-Present Member of The International Society for Technology Assessment in Health Care.
1996-Present Member of The American Public Health Association.
2003-Present Member of The American Pediatric Society.

Honors:

- 1968-1974 Full Academic Scholarship Cairo University School of Medicine.
1974 Medical Bachelor Degree M.B.B.Ch. with First Class Honors "Cum Laude", placed fourth in a class of 500 students.
1979-1980 Awarded the French Government State Scholarship for Clinical Research Scientists with Fellowship located at the Immunology Unit of the INSERM Lyons, France.

1995 Elected to Delta Omega National Public Health Honor Society.

2001 Distinguished Research Award at The George Washington University Medical Center.

VI. ADMINISTRATIVE DUTIES & UNIVERSITY ACTIVITIES:

Department of Pediatrics:

1985-1993 Co-Director of the joint Neonatology Fellowship Training Program GWUMC/Children's National Medical Center.

1987-1991 Member of the AIDS Coordinating Committee at Children's National Medical Center.

1989-1993 Member of the Postgraduate Education Committee at Children's National Medical Center.

1989-1996 Member of the Department of Pediatrics' Curriculum Committee.

2001 Member of the search committee for the Chair of Pediatric Infectious Diseases, Department of Pediatrics, School of Medicine, GWUMC.

SMHS/SPHHS/GWUMC/GWU:

1985-1993 Member of the Blood Bank Advisory Committee, GWUMC.

1990-1995 Member of the Committee on Human Research (IRB), GWUMC.

1990-1993 Chair of the Neonatal Subcommittee for Infection Control, SMHS.

1990-1991 Member of the Faculty Senate Committee on Ethics and Academic Freedom, GWU.

1991-1993 Member of the Infection Control Committee, GWUMC.

1994-1998 Master's in Public Health Admissions Committee, GWU.

1994 Appointed to the Obstetrics Business Plan Task Force, GWU.

1994 Appointed to the Joint Research & Ethics Committee to Review Research in In Vitro Fertilization, GWU.

1995 Appointed to the advisory group to the Dean in the planning of The School of Public Health at The George Washington University.

1995 Appointed to the Committee for the Redesign of The Obstetrical Service, GWUMC.

1995-1998 Elected to the Faculty Senate Committee on Health Sciences Programs. The committee's area of responsibility encompasses all health sciences programs and the students enrolled in those programs. The Committee evaluates curriculum, student performance, and makes recommendation to the Senate.

1997-1998 Member of the APT Committee, SPHHS.

1998-2001 Member of the Advisory Council on Research, GWU.

1999-2001 Member of the Faculty Senate Committee on Research, GWUMC.

1999 Chair of the search committee for an Associate Professor in the Department of Prevention and Community Health, SPHHS.

2001 Member of the Research Task Force at the SPHHS, GWUMC.

2001 Member of the Committee on Patents and Intellectual Property, GWU.

2003-Present Member of the Executive Committee, SPHHS.

2003-Present Member of the Chair's Committee, GWUMC.

2004-Present Member of the Search Committee for the Chair of Global Health, SPHHS.

2004-Present Chair of the Appointment Promotion and Tenure Committee, SPHHS.

2005-Present Member of the Accreditation Committee, SPHHS.

2005-2006 Member of the APT Committee, SMHS.

2005-Present Co-Chair of the Chair's Committee, GWUMC.

2005-Present Chair Of the APT Committee SPHHS

VII. TEACHING ACTIVITIES:

Courses Taught:

1985-Present Teach the 3rd year medical student rotation in neonatal care, this is part of their third year pediatrics clerkship and is designed to cover aspects of neonatal physiology, and clinical care during delivery and in the first days of life

1985-Present Supervise the clinical rotation in well newborn care for PL 1 in Pediatrics. This is the only clinical rotation where the focus is well care of the newly born infant, and the early diagnosis of clinical problems encountered during that period of life.

1985-Present Supervising the clinical rotations in neonatal intensive care for PL 1,2,3. This rotation includes daily clinical, bedside teaching rounds in the morning and daily lectures at noon. The residents are expected, depending on their level of training to acquire cognitive and clinical skills in the area on neonatal intensive care.

1985-Present Supervising the neonatal/perinatal clinical rotations of Neonatal Fellows. Rotations for fellows at GW cover aspects of perinatal/Obstetric care and complications that the fellows do not encounter at Children's Hospital. The rotation includes didactic and bedside teaching as well as mastery of skills in a supervised practice environment.

1991-1993 Participated in teaching "Introduction to Preventive Medicine" Public Health 202. Teach lectures focused on maternal and child focus in public health. The lecture is an introduction to epidemiological benchmarks, and public health interventions in MCH.

1997-2001 (PubH 266) and (PubH 267) Continued to participate in teaching these courses. Lectures given include in-utero growth retardation, perinatal statistics, school-age child health, & childhood injuries.

1998-2001 Participated in teaching "Health and Society" PubH 205. Course director Dr. L. D'Angelo. Delivered a lecture on the cultural context of community health.

1998-2001 Participated in teaching "Comparative Health Systems" HSMP 252. Course director Dr. R. Southby. Deliver a lecture dedicated to Egypt as a case study in health services delivery.

2002-2004 Co-taught the Advanced MCH course PubH 267. Course director Dr. McDonnell

2004 Participate in teaching Biological Basis of Public Health PubH 191. Course director Dr. John Grossman

2005 participate in teaching Biological Basis of Public Health PubH 201. Course director Dr. John Grossman

2005 participate in teaching Advanced Maternal and Child Health PubH 209. Course director Dr. Karen McDonnell

2005 participate in teaching Reproductive Health PubH 372. Course director Dr. Amita Vyas

2006/7 Participated in teaching Biological Basis of Public Health PubH 201. Course director Dr. John Grossman.

2006 Participated in teaching Advanced MCH. Course director Dr. Karen McDonnell

2006/7 Participated in teaching Behavioral Science Methods. Course director Dr. John Grossman

1985 - present Attending Neonatologist supervising clinical training of 3rd year medical students during their Well Newborn Rotation.

New Courses or Programs Developed:

1992-1993 Participated in the development of the academic curriculum for a new track in International Health and Development as a component of the MPH Program at GWU.

1993 Course Director for a new MPH course " Maternal and Child Health, An International Perspective" (PUB H 273) as part of the Master's Program in Public Health, International Health Track.

1994-1997 As Director of the Maternal and Child Health Track MPH Program established the curriculum for the new track and developed syllabi for the introductory and advanced courses in MCH. Also responsible for recruiting faculty for the reproductive health, women's health and adolescent health courses and integrating the various curricula to fulfill the missions and goals of the track. The Track was first offered to the MPH students starting Fall 1994.

1994-1997 Course Director for both newly established courses; the basic and advanced courses in Maternal & Child Health (PubH 266) and (PubH 267).

1994-1995 Course Director of the new Special Projects course in MCH. Supervised all MCH students' special project 1994-1995. The field projects included the areas of perinatal, child, adolescent, and women's health.

1994 Selected as a member of the GWU faculty in Public Health to organize the curriculum for, and teach a unit on Maternal & Child Health as a component of a course on "Child Survival" designed for a group of 12 MOH physicians from Egypt. The course was funded by AID (funding \$100,000). July 1994.

1994 Course Director of the MPH Spring Colloquium "Mothers and Children: An Urban Health Crisis".

1995 Participated in the GW/Egypt Advanced Program in Child Survival. This international academic activity was funded by U.S. A.I.D., and involved a comprehensive program organized by the GW Center for International Health, and designed to fulfill the educational needs of senior and

mid-level officials from the Egyptian Ministry of Public Health. Topics covered by Dr. El-Mohandes included perinatal epidemiology, outcomes evaluation, and technology transfer in health care.

1998 Established a new distance education Certificate in Community Oriented Primary Care in Collaboration with the Hadassah School of Public Health, Hebrew University in Jerusalem. The first work-shop for this international program was attended by 16 international students.

1999 Supervised three community-based physicians in South Africa via distance learning methods towards the completion of their field projects in Community Oriented Primary Care. These projects were presented as a requirement of completion of the Certificate in COPC.

Participated in the second workshop in COPC in Washington DC 1999, and the third in Pretoria SA 2000. Taught "Methods in Rapid Community Assessment", and "Cultural Implication of Community Participatory Programs"

1999 Organized and implemented the first workshop on "Basic Neonatal Care" in Egypt funded by US AID. The workshop was conducted in Cairo and Luxor and attended by 85 neonatologists.

2000 - 2004 Participated in the organization and implementation of a new course on "Advanced Neonatal Care" to Egyptian neonatologists, conducted in DC at GW Hospital and Children's Hospital. This program was funded by US AID.

Students or post-doctoral fellows for whom I played the role of primary advisor:

Neonatology post-doctoral fellows:

As a faculty in the Division of Neonatology I supervised the research projects of six fellows over a period of twelve years. The completion of a research project and its publication are required for board eligibility in this field.

- 1986 Margaret Chou, MD. Chlamydia colonization in the ICN population.
- 1988 Nancy Williams, MD. Bacterial colonization and the incidence of NEC
- 1990 Margot Ahronovich, MD. Interferon production by neonatal monocytes.
- 1994 Richard Rivas, MD. Breast milk macrophage isolation and characterization.
- 1995 Matthew Piccard, MD. Breast milk feeding protects from sepsis in the ICN
- 1996 Lauren Johnson Robbins, MD. B lymphocyte functions in the newborn
- 1999 Anne Taggart Ph.D. Relationship between sleep and aggressive behavior in preschool children

Pediatric Residents:

Dr. El-Mohandes participates as a mentor/advisor in the newly established Robert G. Parrott REACH training program for residents in pediatrics. The advisor in this program could either be in research, advocacy or advanced clinical care.

2000 Ghassan Atteyeh, MD. Parental attitudes towards preventive health care utilization for infants in underserved populations in Lebanon.

Medical Students:

2005-Present Matthew Wade and Jordan Wallin, 3rd year medical students working on a research project under the supervision of myself to test the safety of iPod devices and hearing loss

in medical students at GWU. The project will also test the efficacy of a behavioral modification intervention on the utilization patterns of these devices.

MPH Fellowship Recipients:

2006-Present Khaled Bouri, MD; NIH Post-Doctoral Fellow. This research program, supported by the NIH Genomics Research Unit, will examine the attitudes and perceptions of Muslim communities in the great DC Metropolitan area as they pertain to participation in genetic research.

Maternal & Child Health Interns:

The NIH funds Dr. El-Mohandes to supervise an MCH Internship training program for minority MPH students at the GW SPHHS. The interns participate in all aspects of the research programs that Dr. El-Mohandes conducts at GW, and funded by NICHD/NIH Office of Minority Health.

1995-1996 Fred Butler, MPH
1996-1997 Tanya Singleton Moore, MPH
1996-1998 Pragathi Katta, MPHsa Walker, MPH
1998-1999 Musa Jan, MPH, Dinali Fernando, MPH
1999-2000 Nsedu Obot, MPH, Nenna Kalu, MPH, Rossana Hernandez, MPH
1999-2001 Moriane Joseph, MPH, Kevin Bates, MPH
2003-Present Olubunmi Sumbly, Caroline Kim, Jennifer Pearson, Folasade Olowude, Meagan Swyers, Andrea Schwartz, Sarah Koslowski, Drissa Toure

Doctoral students:

2003-Present Amy Leader, MPH, DrPH in Health Behavior
2000-Present Pragathi Katta, MPH. DrPH in Health Policy
2001 Doctoral Committee member for the dissertation proposal presented by Anne Taggart at the George Washington University School of Education. Title: An investigation of the relationship between sleep, aggressive behavior and cortisol secretion in preschool-age children. Oct. 2001.
2002 Doctoral Committee member for the dissertation proposal presented by Linnea Axman at the George Washington University School of Public Health and Health Services.

VIII. CONSULTANT APPOINTMENTS:

1995 Served as a consultant to the George Washington University Doctoral Program for the Department of Special Education (Unpaid).

1995 Served on the advisory board to the Medicaid Managed Care contract study funded by the Pew Charitable Trusts and the Annie E. Casey Foundation (Unpaid)
Consultant on "Projecto Luz" a project supported by Fannie Mae \$75,000.00 for a period of three years. This project was one of 10 awarded from 100 applicants, and is focused on empowerment strategies for an underserved Latino population in the Adams Morgan neighborhood of Washington D.C. (Unpaid)

1996 Served as a consultant to the U.S.A.I.D Child Survival Project in Egypt. Participated in the training of mid level management and senior level management physicians from the Egyptian MPH in areas of perinatal epidemiology, and technology transfer in health care (Paid)

1996 Served on the Washington Regional Academic and Community Consortium supported by the W.K. Kellogg Foundation (\$450,000 annually for 5 years). The purpose of this consortium is to promote community based multi-disciplinary training to students and trainees in the fields of medicine and allied health sciences (Unpaid)

1996 Invited as a consultant to the Sultanate of Oman MOH to assist with the development of a strategic plan for emergency medical systems in the country (Travel expenses paid)

1996-2000 Annual visiting professorship to Cairo university Division of Neonatology conducting daily rounds and giving teaching conferences to faculty and residents (Travel expense paid)

1997 Served as a consultant to the Federal Government Receivership to the DC Child & Family Services (Paid)

1997 Consultant to John Snow Inc. on their A.I.D. funded program in Egypt (Healthy Mothers, Healthy Infants). Responsible for evaluating hospital based neonatal care, and investigating its impact on infant survival (Paid)

1997 Invited by the Sultanate of Oman to participate in a comprehensive educational forum on emergency medical services delivery, organized by the George Washington University, Ronald Reagan Institute of Emergency Medicine (Travel expenses paid)

1998 Consultant to the WHO, reviewing training manuals in Maternal and Child Health, Perinatal Care, and Neonatal Care for the purposes of training staff in these fields in the Ministry of Health, Sultanate of Oman (Paid)

1997- 2004 Consultant to JSI on the Healthy Mother/Healthy Child Results Package funded by US AID, Egypt. My participation in this program involved:

- Assisting the MOH in developing a national perinatal regionalization plan
- Developing an evaluation tool for 139 neonatal centers in Egypt
- Designing and implementing a basic and advanced course in neonatal care
- Developing clinical manuals in neonatal care for physicians and nurses
- Developing a strategy for competency-based training and supervised practice in neonatal care, and supervising its implementation
- Developing utilization and quality indicators for the program in Egypt

2003 Consultant to the Asia Development Bank to investigate contributing factors to perinatal morbidity in Kyrgyzstan. Field epidemiological surveys were conducted as well as primary and secondary data analyses. The results of this preliminary investigation were used to develop a regional perinatal intervention program.

2005 Consultant to JSI to the Health Services Program funded by USAID in Indonesia to reform and upgrade services to pregnant women, infants and children. My participation in this program involves:

- Evaluating neonatal services in target provinces in Indonesia

- Assisting in the designing an intervention plan to upgrade professional and health services in the area of neonatal health
- Implementing a comprehensive training program for physicians and evaluating and upgrading existing training and educational material

2006-2007 Consultant to the Us Department of Health and Human Services on the Pilot Collaborative on Reproductive Health targeting Federally Qualified Health care Centers to improve reproductive health care service delivery.

2007-2008 Consultant to HHS on the "Hispanic Elderly Project" working with 8 national pilot sites to create new collaborative initiatives between aging services and primary health care systems in Los Angeles, San Diego, Houston, San Antonio, Rio Grand, Miami, new York and Chicago. These new collaborative initiatives are intended to reduce the health burden and improve health outcomes among Hispanics 65 years and older.

IX. GRANTS AWARDED OR PENDING:

1982 "Interferon Enhancement of Monocyte Phagocytosis and NK Cell Cytolytic Activity in The Preterm Newborn" Intramural BRSG Award \$12,000.00, George Washington University.

1986 " Chlamydia Trachomatis in Premature Infants and Their Mothers: Relationship to Mortality and Morbidity" Intramural BRSG Award \$12,000.00 George Washington University.

1987 1990 Co-Investigator "Membrane Antigen and Receptor Site Expression in Cord Blood Monocytes". Funded by Easter Seal Foundation \$45,000.00 annually.

1991 "Human Milk Utilization in The ICN Microbiological and Immunological Implications" Funded by Squibb Bristol Myers \$10,000.00.

1992-1997 Co-P.I. The NICHD Initiative To Reduce Infant Mortality in Washington D.C.. Annual Budget \$5,000,000.00. This research program was funded by the Office for Minority Health at the NIH by congressional mandate for five years. The purpose of the project is to investigate the origins of, and propose solutions to the high infant mortality rate in Washington D.C. 1992-1997.

1993-1997 P.I. "Parenting Education Impacts on Health Care Utilization". NICHD awarded \$3,500,000.00. This research project investigated the impact of parenting focused interventions on the ability of high risk mothers (with poor/no prenatal care) to utilize health care delivery systems for their infants, as well as their knowledge, beliefs, behaviors and skills 1993-1997.

1993-1996 Co.I. "The Association of Neonatal Outcomes With The Characteristics of Neonatal Units". NICHD awarded \$1,500,000.00. This multi-institutional collaborative research project examines hospital and unit characteristics' association with risk-adjusted outcomes in eight special care nurseries in Washington D.C. 1993-1996.

1998-2003 P.I. on a successfully submitted application for the second phase of the NICHD DC Initiative to Reduce Infant Mortality. A budget of \$ 5.7 million over five years.

2001-2004 Served as the executive P.I. of DC H.O.P.E. "Healthy Outcomes of Pregnancy Education" a multi-disciplinary, multi-site randomized clinical trial examining the efficacy of an integrated intervention on smoking and psychosocial risk during pregnancy. This project will recruit 1800 pregnant DC residents and includes 12 researchers and 20 field research assistants and associates. This project is funded under the NICHD Initiative to Reduce Infant Mortality, with a total budget of approximately \$16 million over five years. Activities on the project represent 0.75 FTE of my time.

2004-2009 NICHD P.I. Reduction of smoking in pregnant minority women a randomized trial of trans-dermal nicotine replacement therapy, \$3.5 million. A randomized clinical trial is currently underway to evaluate the efficacy of utilization of NRT (Nicotine Skin Patch) in reduction of tobacco smoking in African American pregnant mothers in the District of Columbia.

2004-2006 CDC Co-P.I. Optimization of Risk Scores for Near Miss Maternal Mortality, \$170,000. This research program will evaluate the validity and accuracy of a risk score developed to define mothers at risk for the highest level of acuity of illness during labor and the post-partum period. The program is intended to define this sub-population of women at risk and will assist healthcare providers in identifying women requiring the highest level of care.

2007-2009 P.I. on two minority supplements awarded by the NICHD to mentor the following faculty Patrick Johansson (Native American) Studying infant mortality patterns in native American populations in the US over a period of ten years. \$232,000.00 over two years.
Renaissa Anthony (African American) Studying the variables implicated in the disparity in reproductive outcomes associated with hypertension in African American pregnant women. \$250,000.00 over two years.

X. PUBLICATIONS :

Papers in Refereed Journals:

Touraine JL, Touraine F, El-Mohandes A, Bouteiller O, Salle B. Suppressor T-lymphocyte active on mixed lymphocyte reaction in man. *Transplant Clin Immunol*;12:121, 1980.

Freyria AM, El-Mohandes A, Raffin T, Lamelin JP, Salle B, Touraine JL. Complement levels in infants of diabetic mothers over the first month of life. *INSERM U 80*, 1981.

El-Mohandes A, Touraine JL, Touraine F, Shukry AS, Salle B. Lymphocyte populations and responses to mitogens in infants of diabetic mothers. *J Clin Lab Immunol*;8:25-29, 1982.

El-Mohandes A, Touraine JL, Osman M, Salle B. Neutrophil chemotaxis in infants of diabetic mothers and in preterm infants at birth. *J Clin Lab Immunol*;117:8-11, 1982.

El-Mohandes AE, Brudno DS, Ahronovich MD. Impaired interferon-alpha enhancement of neonatal monocyte phagocytosis. *Biol Neonate*;58:260-263, 1990.

El-Mohandes AE, Keiser JF, Johnson L, Refat M, Jackson BJ. Aerobes isolated in fecal microflora of infants in the intensive care nursery: Relationship to human milk utilization and to systemic sepsis. *AJIC*;21:231-234, 1993.

El-Mohandes AE, Schatz V, Keiser JF, Jackson B. Bacterial contaminants of pre-collected and frozen human milk used in an intensive care nursery. *AJIC*;21:226-30, 1993.

El-Mohandes AE, Keiser JF, Refaat M. Prevalence and toxigenicity of *C. difficile* isolates in fecal microflora of preterm infants in the intensive care nursery. *Biol Neonate*;63:225-29, 1993.

El-Mohandes AE, Johnson-Robbins L, Keiser JF, Simmens S. Incidence *Candida parapsilosis* gastrointestinal colonization in an intensive care nursery population and its association with systemic invasive fungal disease. *Ped Inf Dis*;13:520-24, 1994.

Rivas R, El-Mohandes AE, Kiang E, Katona IM. Mononuclear Phagocytic cells in human milk: HLA-DR and FcγR-ligand expression. *Biol Neonate*;66:195-204, 1994.

El-Mohandes AE, Rivas R, Wahl L, Kiang E, Katona IM. Membrane antigen and ligand expression on neonatal monocytes. *Biol Neonate*; 68: 308-17,1995.

Johnson-Robbins, El-Mohandes AE, Keiser JF, Simmens SJ, Jackson B. Colonization patterns and risk for sepsis in an ICN population: Contrasting infants<1000 gm with the entire ICN population. *Biol Neonate*;69:249-256,1996.

El-Mohandes AE, Picard M, Simmens SJ, Keiser JF. Human milk utilization in the ICN is associated with a lower incidence of sepsis. *Am J Perinatology*;17:130-34,1996.

Halista SM, Johnson-Robbins LA, El-Mohandes AE, Lees A, Mond JJ, Katona IM. Characterization of early activation events in cord blood B cells after stimulation with T cell-dependent activators. *Ped Res*;43:496-503, 1998.

Pollack M, Koch MA, Bartel DA, Rappaport I, Dhanireddy R, El-Mohandes AE, Harkavy K, Siva Subramanian S. A comparison of neonatal mortality risk prediction models in very low birth weight infants. *Pediatrics*;105:1051-57,2000.

Jarrett MH, Diamond L, El-Mohandes AE. Group intervention as one facet of a multi-component intervention with high risk mothers and their babies. *Infants and Young Children*;13:15-24,2000.

Katz KS, El-Mohandes AE, McNeely Johnson D, Jarrett M, Rose A, Cober M. Attrition of low income mothers in a parenting intervention study. *J of Community Health*;26:203-218, 2001.

Reigelman R, Verme D, Rochon J, El-Mohandes AE. Interaction and intervention modeling: predicting and extrapolating the impact of multiple interventions. *Annals of Epidemiology*;12:151-56, 2002.

El-Mohandes AE, Herman AA, El-Khorazaty MN, Katta PS, White D, Grylack L, Young M. Prenatal care reduces the impact of illicit substance use during pregnancy on perinatal morbidity. *J Perinat* ;23:345-60,2003.

Milner JD, Aly HZ, Ward LB, El-Mohandes. Does elevated peak bilirubin protect from retinopathy of prematurity in very low birthweight infants. *J Perinat*;23:208-211, 2003.

El-Mohandes AE, Katz K, El-Khorazaty N, McNeely Johnson D, Sharps P, Jarrett MH, Rose A, White D, Young M, Murray K, Katta P, Atteyeh G, Wingrove B, Herman A. The effect of a Parenting intervention on the use of preventive pediatric health care services among low income, minority mothers: a randomized clinical trial. *Pediatrics*;111:1324-32,2003.

Sharps P, El-Mohandes AE, El-Khorazaty MN, Kiely M, Walker T. Health beliefs and parenting attitudes influence breast feeding patterns among low income African American women. *J Perinat*;23:414-19,2003.

Nguyen A, Aly H, Milner J, Patel K, El-Mohandes AE. Partial pressure of carbon dioxide in extremely low birth weight infant supported by nasal prongs continuous positive airway pressure. *Pediatrics*;112:E208, 2003.

Aly H, Milner JD, Patel K, El-Mohandes AE. Does the experience with the use of nasal continuous positive airway pressure (NCPAP) improve over time in extremely low birth weight (ELBW) infants? *Pediatrics*;114:697-702, 2004.

Campbell O, Gipson R, El Mohandes A , Issa AH, Matta N , Mohsen L , El Zanaty F, Esmat Mansour E. The Egypt national perinatal/neonatal mortality study 2000. *J Perinat* ;24:284-289, 2004.

Atiyeh GN, El-Mohandes AE. Preventive health care of infants: Parental beliefs attitudes and behaviors. *Mat Child Health*;9:83-90,2005.

Tioseco JA, Aly H, Milner J, Patel K, El-Mohandes A. Does gender affect neonatal hyperbilirubinemia in low birth weight infants. *Ped Crit Care* 6:171-74, 2005

Gipson R, El-Mohandes A, Campbell O, Issa AH, Matta N , El Deeb B , Mansour E. Review article: The trend of maternal mortality in Egypt from 1992–2000: an emphasis on regional differences. *J of MCH*;9:71-82,2005.

Aly H, Massaro AN, Patel K, El-Mohandes AE. Is it safer to intubate premature infants in the delivery room? *Pediatrics*;115:1660-65, 2005.

Gipson R, El-Mohandes A, Campbell Olssa AH, Matta N , El Deeb B , Mansour E. The trend of maternal mortality in Egypt from 1992–2000: an emphasis on regional differences. *Matern Child Health J*;9:71-82, 2005.

Aly H, Herson V, Dunkan A, Herr J, Bender J, Patel K, El-Mohandes A. Is blood stream infection preventable in premature infants: a tale of two cities. *Pediatrics*;115:1513-18, 2005.

Campbell O, Gipson R, Issa AH, Matta N, El-Deeb B, El-Mohandes A, Alwen A, Mansour E. National maternal mortality ratio in Egypt halved between 1992-93 and 2000. *Bulletin of the World Health Organization*;83:2005.

Tioseco JA, Aly H, Milner J, Patel K, El-Mohandes A. Does gender affect neonatal hyperbilirubinemia in low birth weight infants. *Pediatr Crit Care Med*;6:171-4, 2005.

Atiyeh GN, El-Mohandes AE. Preventive health care of infants: parental beliefs attitudes and behaviors. *Matern Child Health J*;9:83-89:2005.

Tioseco JA, Aly H, Essers J, Patel K, El-Mohandes AA. Male sex and intraventricular hemorrhage. *Pediatr Crit Care Med*;7(1):40-44:2006

Murray K, El-Mohandes AE, El-Khorazaty MN, Kiely M. A Comparison of Minority Mothers' Reports of Infant Health Care Utilization to Medical Records. *Pediatric and Perinatal Epidemiology* (2007), vol. 21 (3): 274-283.

Aly H, Massaro AN, El-Mohandes AE. Can delivery room management impact length of hospital stay in premature infants? *Journal of Perinatology* (2006): vol. 26 (10): 593-596.

Blake SM, Kiely M, Gard CC, El-Mohandes AE, El-Khorazaty MN. Pregnancy intentions, happiness and their correlates among low-income black women at high risk for adverse infant health outcomes. *Perspectives on Sexual and Reproductive Health* (2007):vol. 39(4): 194-205.

El-Mohandes AE, Kiely M, Joseph JG, Subramanian S, Johnson AA, Blake SM, Gantz MG; El-Khorazaty MN. An n integrated intervention in pregnant African Americans reduces postpartum risk: A randomized trial. *Obstetrics and Gynecology*, Accepted June 2008

Pearson J, Windsor R, El-Mohandes A, Perry D. An evaluation of the immediate impact of the Washington DC smoke-free indoor air policy on bar employee environmental tobacco smoke exposure. Accepted in *public Health reports* August 2008.

Manuscripts Submitted and Under Review:

Joseph JG, El-Mohandes AE, Johnson A, El-Khorazaty MN, Kiely M, Subramanian S. Clinic-based integrated counseling reduces psychosocial/behavioral risk factors: Results of a multi-site intervention randomized trial of high risk pregnant African American women. Resubmitted with modification to *AJPH* August 2008.

Susan M. Blake SM, Murray KD, Best D, El-Khorazaty MN, Gantz M, Kiely M, Joseph JG, El-Mohandes AE. Correlates of environmental tobacco smoke avoidance early in pregnancy among African American non-smokers. Resubmitted with modifications to *American Journal of Preventive Medicine* July 2008.

El-Mohandes AE, Kiely M, Gantz MG, Blake SM, El-Khorazaty MN. Birth weight may be predicted by cotinine levels during pregnancy in a population of African American smokers. Submitted to JAMA August 2008.

Papers in Non-Refereed Journals:

White Cell. Christensen RB, El-Mohandes AE. Audio tape published by Am Soc Ped Hem Onc. (HO-915), 1989.

Pride in Parenting – Training curriculum for lay home visitors: NIH-DC Initiative to reduce infant Mortality in Minority Populations. Published on-line in Resources in Education (RIE) <http://ericeece.org>.1999.

Chapters in Books:

MacDonald MG, El-Mohandes AE. Aseptic Preparation. Chapter in Atlas Of Procedures In Neonatology, 2nd edit. Philadelphia, J.B. Lippincott, 1993.

Books Edited or Written:

El-Mohandes AE Chief Editor: Neonatal Care: Protocols for Physicians, USAID 2001

El-Mohandes AE Chief Editor: Neonatal Care: Protocols for Nurses, USAID 2001

Abstracts:

El-Mohandes A, Carcillo J, Horth L, Katona I. Monocyte surface antigens and interleukin-2 receptor expression in cord blood, and its enhancement with LPS and Interferon gamma. Ped Res 21:4:407A, 1987.

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Blake S, El-Mohandes A, Rossi M, Best D, Murray K, El-Khorazaty N, Rodan M, Joseph J. Factors Associated with Spontaneous Smoking Cessation (SC) and Environmental Tobacco Smoke Avoidance (ETSA) Exposure During the First and Second Trimester of Pregnancy. *Ped Res* 55; 4:605A, 2004

El-Mohandes A, El-Khorazaty N, Murray K, Sharps P, Kiely M. Factors Associated with Intimate Partner Violence During Pregnancy in Minority Populations. *Ped Res* 55; 4:609A, 2004

Blake S, El-Mohandes A, Debbie Schwartz D, El-Khorazaty N, Gantz M, Jill Joseph J, Kiely M. Promptong smoking cessation during pregnancy and preventing postpartum relapse. *Ped Res* 2005

Murray K, El-Mohandes AE, El-Khorazaty N, Kiely M. An evaluation of minority mothers' reporting of infant health care utilization. *Ped Res* 2005

Katz K, Subramanian S, Rodan M, Schwartz D, El-Khorazaty N, El-Mohandes, A, White D, Rossi M, Kiely M. Randomized controlled trial of depression counseling for low income African American women in prenatal care. *Ped Res* 2005

El-Mohandes A, Kiely M, El-Khorazaty N, Gantz M, Blake S, Subramanian S. Reduction of intimate partner violence in pregnancy: the effect of an integrated intervention in an African American low income population. *Ped Res* 2005

Blake S, Joseph J, Schwartz D, El-Khorazaty N, Gantz M, El-Mohandes A, Kiely M. Preventing prenatal and postpartum environmental tobacco smoke exposure. *Ped Res* 2005

Rodan M, Subramanian S, Katz K, Schwartz D, Milligan R, White D, El-Mohandes A, El-Khorazaty N, Kiely M. Maternal risks in infant outcomes associated with short inter-pregnancy interval among urban low income African American women. *Ped Res* 2005

El-Mohandes AE, Gipson R, Mohsen L, Mansour E, Hussein MH. Home neonatal practices during the first week of life in selected Upper Egyptian governorates. *Ped Res* 2005

Massaro AN, Aly H, El-Mohandes AE. Routine oral nystatin prophylaxis for extremely low birth weight infants reduces the risk for fungal sepsis in the neonatal intensive care unit. *Ped Res* 2005

El-Mohandes AE, Aly H, Hammad TA, Urso P, Macri C. Race affects the influence of maternal age on low birth weight and prematurity. *Ped Res* 2005

Massaro AN, Aly H, Patel K, El-Mohandes AE. The use of early nasal continuous airway pressure in very low birth weight infants: does intubation in the delivery room offer any added safety?

El-Mohandes AE, Aly H, Hammad AT, Mohamed M, Urso P, Bathgate S. Does anemia persist as a potent predictor of LBW? *Ped Res* 2005

Tioseco J, Aly H, Essers J, Patel K, El-Mohandes AE. Male gender influences the incidence of intra-ventricular hemorrhage in low birth weight infants. *Ped Res* 2005

El-Mohandes AE. An integrated psycho-behavioral intervention during pregnancy has significant effects in African American women. *Ped Res* 2005

El-Mohandes AE. An Integrated Behavioral intervention Reduces Rates of Moderate and Extreme Prematurity in African American Mothers with a History of Smoking During Pregnancy. *Ped Res* 2006.

El-Mohandes AE. A Psycho-Behavioral Intervention on African American Pregnant Women with a History of Intimate Partner Violence (IPV) Improves Birth Weight Distribution of Their Newborns. *Ped Res* 2006.

Letters:

Commentary on "R.W. Coombs et al, Plasma viremia in human immunodeficiency virus infection. *N Engl J Med* 321:626, 1989". *Ped AIDS and HIV Infect*;1:25, 1990.

Commentary on "A. Plebani et al, Prenatal immune status of fetuses of HIV-seropositive mothers. *Gynecol Obstet Invest* 29:108, 1990". *Ped AIDS and HIV Infect*;1:47, 1991.

Other Publications:

Assessment of Care in the Neonatal Units of Luxor and Aswan, Egypt. Langsten R, El-Mohandes A.E. A technical report presented to the U.S. Agency for International Development (A.I.D.) Cairo Office December 1998.

Neonatal services at Centers are linked with comprehensive perinatal programs in 25 target districts. Technical report presented to US AID September 2001.

Perinatal Risk in Kyrgyzstan. Technical report presented to the Asia Development Bank July 2004.

Reduction of neonatal and perinatal Mortality in Indonesia, Situation Analysis, and Policy Implementation. Presented to USAID, Jakarta March 2006.

XI. PRESENTATIONS:

Regional Presentation:

El-Mohandes AE, Brudno DS. Interferon enhancement of monocyte phagocytosis in the newborn. *Southern Perinatal Association* 1984.

Neonatal Hematology: An In Depth Review And Update For The Neonatologist Washington DC 1989. Guest speaker. Presentation entitled "Functional Deficiencies of Leukocytes in Neonates".

Seminars In Neonatology: Infectious Diseases 1990. Guest speaker. Presentation entitled "Clostridium, a Pathogen or Not".

Invited presentation at the University of Maryland, Department of Neonatology 1992. The presentation was entitled " Ontogeny of the Mononuclear Phagocytic System".

Chaired a seminar entitled " Cardiac Diseases in Infancy and Early Childhood" as part of the George Washington University's Participation in The World Health Day, 1992.

Member of a round table panel in "The International Health And Development Forum" organized by The George Washington University Center for International Health, GWU Dept. of International Health 1992.

Mothers and Children 1994: An Urban Health Crisis. Course director and mediator for the perinatal segment. Presented a paper at the meeting entitled " Access and Coverage: An Incomplete Answer".

Guest lecturer at the 1994 Early Intervention Summer Institute. Presentation entitled : " Vulnerability and Health Perspectives in At-Risk Families and their Children", GWU GSEHD 1994.

Invited speaker at the Department of Neonatology, USUHS 1994;
"Access and Coverage an Incomplete Answer to Health Care Utilization in Women and Children".

Invited speaker to the Lactation Consultant Association of Greater Washington quarterly meeting. Title of the Lecture "Use of Human Milk in the Intensive Care Nursery Decreases the Incidence of Nosocomial Sepsis" Dec. 1997.

National Presentations:

Revenis M, El-Mohandes A, Miller M, Powell J, Engler A, Short B. Analysis of histamine, total protein and albumen in tracheal aspirates from bronchopulmonary dysplasia patients. American Society of Allergy and Immunology 1987.

El-Mohandes A, Carcillo J, Horth L, Katona I. Monocyte surface antigens and interleukin-2 receptor expression in cord blood, and its enhancement with LPS and Interferon gamma. American Pediatric Society and Society of Pediatric Research 21:4:407A, 1987.

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Schatz V, El-Mohandes AE, Keiser JF. Bacterial count in pre-collected and pre-frozen human milk used in the intensive care nursery. Human Milk Banking Association of North America 1991.

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Invited speaker to the Head Start National Conference 1996, presented a symposium entitled Community Collaborative Research Strategies.

El-Mohandes AE, Sharps PW, Katz KS, Rose A, El-Khorazaty N. Adolescent Pregnancy is Associated with Improved Outcomes in a Population of African American Women with Inadequate Prenatal Care in Washington DC. The American Public Health Association, Proceedings of 124th Annual Meeting & Exposition, 427, 1996.

Katz SK, El-Mohandes AE, Jarrett M, McNeely Johnson D, Diamond L, El-Khorazaty NM. Does Maternal Education Impact on Parenting Attitudes in a Population of African American Mothers with Inadequate Prenatal Care in Washington DC. The Society for Research on Child Development. January 1997.

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Katz K, El-Mohandes AE, Sharps P, Jarrett M, El-Khorazaty MN. Predicting retention rates in a community-based intervention for mothers and infants. *APHA February 1998*.

Invited lecturer to Child Trends USA. "High Risk Characteristics of a Population Recruited to a Community Based Study". March, 1998

El-Mohandes AE, Sharps P, White, El-Khorazaty MN, Katta PSR, Jarrett MH. prenatal care utilization in an African American population is influenced by the health beliefs model. *Ped Res*, 45;4:123A, 1999.

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Gomez M, Yengo J, Katta PSR, Jan MA, Walker TA, Sharps PW, El-Mohandes AE. Healthy families DC evaluation a cohort analysis. *APHA meetings 1999*.

El-Mohandes AE, Jarrett M, White D, El-Khorazaty NM. Impact of a community based intervention on mothers' perception of benefits from formal and informal sources of social support. *Ped Res*, 47;4: 187 A, 2000.

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El-Mohandes A, Aly, H, Hammad T, Mohamed M, Janosy N, Urso P. Does Pre-Pregnancy Maternal Obesity Influence Length of Gestation and Birth Weight (BW)?: A Multivariate Analysis. *Ped Res* 55; 4:594A, 2004

Blake S, El-Mohandes A, Rossi M, Best D, Murray K, El-Khorazaty N, Rodan M, Joseph J. Factors Associated with Spontaneous Smoking Cessation (SC) and Environmental Tobacco Smoke Avoidance (ETSA) Exposure During the First and Second Trimester of Pregnancy. *Ped Res* 55; 4:605A, 2004

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El-Mohandes A, Gipson R, Mansour E, Mohsen L, El-Hawary I. Innovative methodology in monitoring utilization of neonatal care units in Egypt. APHA, Washington DC 2004.

Mohsen L, Mansour E, Gipson R, El-Mohandes A. Survival of neonates of preterm low birth weight and very low birth weight categories in response to the institution of nasal continuous airway pressure (NCPAP) in seven units in Egypt. APHA, Washington DC 2004.

Johnson A, El-Khorazaty MN, El-Mohandes AE, Joseph JG, Kiely M, Laryea H, Kennan M, Subramanian S. Recruitment and retention of minority women in an intervention to reduce depression, partner abuse and smoking during pregnancy. APHA, Washington DC 2004.

El-Mohandes AE. An Integrated Behavioral intervention Reduces Rates of Moderate and Extreme Prematurity in African American Mothers with a History of Smoking During Pregnancy. *Ped Res* 2006.

El-Mohandes AE. A Psycho-Behavioral Intervention on African American Pregnant Women with a History of Intimate Partner Violence (IPV) Improves Birth Weight Distribution of Their Newborns. *Ped Res* 2006.

International Presentations

Guest speaker at the "Journee de Biologie Neonatale" Lyon, France 1980. Presentation entitled "The Immune State of the Premature Infant".

Invited speaker to the Danish Cancer Society, 1994. Presentation entitled: " Ontogeny of the mononuclear Phagocytic System".

El-Mohandes AE, Baily MA. Health state utility evaluation in extremely low birth weight infants. International Society for Technology Assessment in Health Care, 1994.

Moderator of a symposium entitled " Breastfeeding The Key Intervention For Health and Survival" in the 21st International Congress in Pediatrics held in Cairo 1995.

Invited speaker to the 21st International Congress in Pediatrics 1995, topic of presentation: The Protective Effect of Breast Milk Consumption in Sepsis.

Featured guest on "Global Exchange", a program sponsored by the US Information Agency, televised live and carried on WORLDNET's international satellite to Africa, Asia and the Middle East. The topic discussed was 'Family and Health'. May 1998.

Invited speaker at the first conference of the Egyptian Neonatal Association. Neonatal Care in Egypt what role can it play in reducing infant mortality. October 1999.

Invited speaker at the first conference of the Egyptian Neonatal Association. Basic principles of infection control in the intensive care nursery. October 1999.

Invited speaker to the International federation of Obstetrics and Gynecology (FIGO) in their annual conference in Washington DC. Ethics of Neonatal Care: International Perspectives. September 2000.

Invited Speaker to Mount Sinai Medical School International Health Symposium 2003.

Invited Speaker to Mount Sinai Medical School International Health Symposium 2004.

Invited Speaker PAHO on WHO day 2005. Neonatal Survival in Developing Economies: Will there be Consequences in Care Delivery to Children with Special Needs in the Future?

Invited presentation to USAID Jakarta 2006.

XII. SERVICE TO THE COMMUNITY:

1990-1991 Participated in writing questions for the American Board of Pediatrics.

1990 Article reviewer for Pediatrics.

1993 –present Member of the NICHD Steering Committee on Reducing Infant Mortality in Washington D.C.

1993-1994 Scientific reviewer for two protocols presented to the NICHD Steering Committee on Reducing Infant Mortality in Washington D.C.

1995 Acted as a Liaison Officer for the Organizing Committee of The International Conference of Pediatrics.

1996-1999 Member of the District Chapter of the American Academy of Pediatrics Committee to Promote Breast Feeding.

1996-2004 Appointed to the District of Columbia Child Fatality Review Committee.

1996-2004 Elected to the Board of Directors of Mary's Center for Maternal and Child Health in Adams Morgan. This is a non-for-profit organization that delivers comprehensive health and social services to underserved minority women and children, including undocumented immigrants, diverse in cultural background but mainly Latino in origin.

1997-1999 Appointed to the Mayoral Committee on Reducing Teenage Pregnancy and Out-Of-Wedlock births in D.C.

1997 Elected to the Board of Directors of Healthy Start DC Inc.

2000 Elected to the Board of Directors of the Ronald Reagan Institute of Emergency Medicine.

2002 Elected as the president of The Association for Egyptian American Scholars.

2002-2003 Served on the Interagency Agreement advisory panel. Helped coordinate MCH/Neonatal activities conducted by WHO, UNICEF, USAID, PAHO, the World Bank, Asia Dev. Bank.

2004- 2005 Appointed to the Bureau of Primary Health Care advisory panel on the Collaborative to improve Reproductive Health Outcomes in Primary Health care Centers.

2005 Reviewer for the Journal of Health Care for the Poor and Underserved.

2005 Interim project evaluator for the State of Pennsylvania Reproductive Health Interventions funded by the Tobacco Settlement Funds.

2006 Protocol reviewer (Global Perinatal Health) for the CDC.

2006 Protocol reviewer for the State of California Tobacco-Related Disease Research Program.

2006 Study section participant for the NICHD Global Health Network.

2006 Article reviewer for The Journal of Health Psychology.

2006 Article reviewer for The Journal of Pediatrics.

2007 Elected on the APHA Committee on Women's Rights.

2007 Article reviewer for The Journal of Maternal and Child Health.

2008 Article reviewer for The Journal of Women's Health.

2008 Appointed as Chair of the DC Department of Health's Advisory Committee on Perinatal and Inter-conceptional Health.

2008 Invited participant at the Surgeon General's Conference on Prevention of Preterm Birth.