

CURRICULUM VITAE

Hani Khalil Atrash M.D., M.P.H.

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A. EDUCATION AND TRAINING:

American University of Beirut, Beirut, Lebanon:

Bachelor's Degree in Biology/Chemistry (1972)

Doctor of Medicine (MD) (1975)

Residency in Obstetrics and Gynecology (1976-1979)

Centers for Disease Control (CDC), Atlanta, Ga:

Epidemic Intelligence Service Officer; Training in Reproductive Health Epidemiology and Family Planning Evaluation, 1979-1981

Emory University School of Public Health, Atlanta, GA:

Master of Public Health, Epidemiology Track, 1985

Centers for Disease Control and Prevention, Atlanta, GA:

Preventive Medicine Residency, 1987-1989

Languages: Arabic (Mother language); German: Can read and write well; French and Spanish (Had introductory courses).

B. PROFESSIONAL EXPERIENCE:

1. Health Resources and Services Administration (HRSA), Maternal and Child Health Bureau:

Director, Division of Healthy Start and Perinatal Services: September 2012 to April 2017

In this position, I was responsible for managing the division of 28 staff members and lead the "transformation" and implementation of the National Healthy Start Program with a budget of \$115 million and 100 grants to community based organizations in 37 states and the District of Columbia (grants ranging from \$750,000 to \$2 million). The program works with grantees in high risk communities to identify and recruit high risk women, connect them with the health care system and ensure care coordination and continuity of care. During my 5 years leading the program, we "transformed" the 25-years old program into an evidence-based program. Grantees are held accountable to the content and quality of their work as well as the outcome of their activities. We also expanded services from serving only high-risk pregnant women and infants to serving all women of reproductive age and from focusing on pregnancy through 40 days after delivery to focusing on social determinants of health and working closely with other sectors such as labor, education, social services, housing etc. Grantees are held accountable and are expected

to serve as a backbone organization for their community, identify and implement evidence-based interventions, collect client level data for quality improvement, and evaluate their program on an ongoing basis. During my five years with the program, we also established a "community health worker" training program to ensure that all employees of the grantees are competent and qualified. The EPIC Center (www.healthystartepic.org) was established as a resource center to provide technical assistance to all grantees through multiple mechanisms to assist them in the proper implementation of the program.

In addition to the Healthy Start Program, I led the establishment of several initiatives including the National Maternal Health Initiative, Guidelines for Well Women Care, a Breastfeeding Initiative, a Fatherhood Initiative, and the Inter-conception care Implementation Program which includes developing ICC Implementation toolkits.

2. Centers for disease Control and Prevention (CDC), National Center on Birth defects and Developmental Disabilities:

Director, Division of Blood Disorders: June 2008 to September 2012

In this position, I was responsible for managing a division of 45 staff members with a budget of \$24 million. The main role of the division before I came was to support Hemophilia Treatment Centers. During my five years with the Division, we broadened the role of the Division to include all blood disorders and to expand its activities to focus on public health issues. Thus,

- We developed a strategic plan with the main goal of transitioning into a public health approach to blood disorders
- Promoted blood disorders as a public health priority:
- Co-lead the establishment of Health People 2020 Objectives for blood disorders and blood safety;
- Held 2 National Conferences on Blood Disorders in public Health;
- Published 2 special supplements of the American journal of Preventive Medicine on Blood Disorders in Public Health (38 articles);
- Established new working relationships with state health departments and national and international public health organizations;
- Established the state-based Registry and Surveillance for Hemoglobinopathies (RUSH).
- Initiated a Sickle Cell Disease program
- Initiated a comprehensive public health agenda in deep vein thrombosis

Associate (Center) Director for Program Development: November 2001 to June 2008 **Acting Deputy (Center) Director: July 2006 to July 2007**

Responsible for leading and coordinating the various center level cross cutting activities (the National Center on Birth Defects and Developmental Disabilities) including training and fellowships, global health, women's health, minority health, partnerships, etc. In this role, I,

- Established working relationships between the center, professional organizations and the public health community: ACOG, ACNM, AMCHP, APHA, CSTE, ASTHO, NACCHO
- Coordinated minority health, global health and women's health activities within the center
- Coordinated professional workforce development activities within the center
- Established and spearheaded the CDC-wide Preconception Care Initiative

3. Centers for disease Control and Prevention (CDC), National Center for Chronic Disease Prevention and Health Promotion, Division of Reproductive Health:

Chief, Pregnancy and Infant Health Branch: May 1988 to November 2001

Medical Epidemiologist and Chief, Pregnancy Morbidity and Mortality Section:

February 1987 to May 1988

Visiting Scientist, Pregnancy Epidemiology Branch: June 1985 to February 1987

In this position, my responsibility was to oversee and lead all maternal and infant health activities at CDC. I established the Maternal and Child Health Epidemiology Program, its annual conference and the national awards; co-led the development of the Pregnancy Risk Assessment Monitoring System (PRAMS); established CDC's Safe Motherhood initiative and its activities; provided consultation and technical assistance to states and national and international organizations; and led research activities in maternal and infant morbidity and mortality with special focus on preterm delivery, sudden infant death syndrome, low birth weight, ectopic pregnancy, pregnancy induced hypertension, placental problems, among others.

Epidemic Intelligence Service Officer: July 1979 to July 1981

- 1979-1980: assigned to the Maternal and Child Health Division at the Tennessee Department of Public Health, Nashville: participated in program planning and evaluation and conducted several studies on fertility, abortions, family planning, and nurse practitioners in Tennessee
- 1980-1981: worked with the Abortion Surveillance Branch at CDC: analyzed and published data on induced abortion, investigated abortion-related deaths and prepared and published abortion and ectopic pregnancy surveillance summaries

4. Emory University Rollins School of Public Health:

Clinical Assistant Professor of Community Health: June 1985 to December 1992

Clinical Associate Professor: January 1992 to 2001

Adjunct Professor: January 2001 to present

- Taught reproductive health epidemiology and International Health to students in the Master of Public Health Program at Emory University
- Assisted and supervised graduate students in conducting their field work through all stages of preparing a research proposal, collecting and analyzing data, interpreting results and preparing final reports

5. American University of Beirut:

Assistant Professor of Epidemiology and Biostatistics, assigned to the State of Bahrain as Public Health Consultant/ Epidemiologist, Bahrain Ministry of Health: July 1981 to August 1984

- Supervised over 20 public health inspectors, conducted epidemiological studies, supervised the investigation of all cases of malaria in Bahrain, and prepared statistical and epidemiological reports for the Directorate of Public Health
- Played an active role in setting strategies for the prevention of endemic and imported infectious disease conditions and in designing studies to look into occupational safety
- Taught epidemiology and biostatistics to students at the College of Health Sciences and residents in the Family Practice Residency Program
- Oversaw all the research and scientific activities of the Directorate of Public Health

Resident, Department of Obstetrics and Gynecology: January 1977 to June 1979

C. PROFESSIONAL MEMBERSHIP:

Associate Fellow, American College of Obstetricians and Gynecologists (1987 to 2012)

Member, American Public Health Association (1979 – present)

- MCH Program Planner (2001 to 2003)
- Governing Council (2006 to 2012)
- Chair, Infant and Child Health Committee (2001 to 2014)
- Member, Science Board (2011 to 2015)

Member, Council for State and Territorial Epidemiologists (1987 to 2012)

D. HONORS and AWARDS:

1. Dean's Honor List, American University of Beirut: 2/71, 6/71, 2/72, 6/72.
2. Bachelor of Science with Distinction, 6/72.
3. Federal Employee of the Year for the Scientific/ Professional category for 1990; Atlanta Federal Executive Board.
4. CDC/ATSDR Honor Award in the area of Research: Epidemiologic and Laboratory, 1990.
5. Public Health Service Superior Work Performance award, February 28, 1991.
6. Unit Commendation: for outstanding contributions toward the development of the Healthy People 2000 Health Promotion and Disease Prevention Objectives, 1991.
7. Unit Commendation: For outstanding performance in providing assistance to state maternal and child health programs, June 3, 1992.
8. Certificate of commendation: awarded to the Pregnancy Risk Assessment Monitoring System team by the Federal Employee of the Year Awards Program, 1992.
9. CDC and ATSDR Group Honor Award - Research - Epidemiology and Laboratory - Ectopic Pregnancy Study group, June 1993.

10. Nominated by NCCDPHP for CDC and ATSDR Award for Contributions to the Advancement of Women, 1993.
11. Nominated by CDC for HHS Secretary's Award for Exceptional Achievement, 1993.
12. Supervisory Equal Opportunity Employment Award for CDC/ATSDR, 1994.
13. Elected as Member of the Upsilon Chapter of the Delta Omega Society as an outstanding alumnus of the Emory University School of Public Health, 1994.
14. Supervisory Equal Opportunity Employment Award for CDC/ATSDR, 1998.
15. CDC Meritorious Service Award, December 1999.
16. CityMatCH's 2000 Ed Ehlinger Award
17. 2001 Effective Practice Award at the National Level awarded by the Coalition for Excellence in MCH Epidemiology (AAP, APHA, AMCHP, ATMCH, CityMatCH, MCH Journal, NACCHO, CDC, ASPH, CSTE, HRSA, MOD, and NAPHSIS).
18. CDC's Meritorious Service Award, July 2004
19. Maternal and Child Health Epidemiology Program Founder's Award, December 2004
20. Emory University Rollins School of Public Health 2004 Distinguished Alumnus Award, May 2005
21. National Perinatal Association's 2009 "National and International Award for Outstanding Contribution to Maternal and Child Health".
22. American Public Health Association Maternal and Child Health Section Distinguished Service Award, 11/2010
23. HRSA Administrator's Citation for Outstanding Group Performance. Text4Baby and New Dads Workgroup. November 18, 2013
24. HRSA Administrator's Citation for Outstanding Group Performance. The Healthy Start Team. November 2014
25. HRSA Administrator's Citation for Outstanding Group Performance. Innovative Approaches to Reduce Infant Mortality Team. November 2014
26. MCHB 2016 Director's Award: In recognition of contributions made to the health of infants, mothers, children, adolescents, and children with special health care needs in the nation
27. APHA's 2016 Martha May Elliott Award

E. SIGNIFICANT ACCOMPLISHMENTS:

1. Established CDC's Maternal and Child Health Epidemiology Program
2. Established the CDC/ACOG Maternal Mortality Study Group in 1987. Chaired the committee through 1996.
3. Established the Annual Maternal and Child Health Epidemiology Conference.
4. Established the National MCH Epidemiology Awards.
5. Co-led the development of the Pregnancy Risk Assessment Monitoring System
6. Established CDC's Preconception Health and Health Care Initiative
7. Served as consultant and technical advisor for several international organizations including the World Health Organization, the Pan American Health Organization, the Ford Foundation, East Mediterranean Regional Office, the United Nations Relief and Work Agency for Palestine Refugees, Rockefeller Foundation, etc. An average of 2 to 3 annual consultations starting in 1990 to develop surveillance systems, train health workers in using data for decision making, and evaluating various public health programs.

8. Planned and presided sessions at the annual meetings of the American Public Health Association, the Association of Maternal and Child Health Programs, the Urban MCH Leadership (CityMatCH), the American College of Obstetricians and Gynecologists, Council of State and Territorial Epidemiologists, and others.
9. Reviewer of articles submitted for publication to: American Journal of Public Health, Journal of the American Medical Association, the New England Journal of Medicine, Obstetrics and Gynecology, Fertility and Sterility, American Journal of Obstetrics and Gynecology, American Journal of Epidemiology, Public Health Reports, International Journal of Obstetrics and Gynecology, and others.
10. Served on multiple committees of several state, national and Federal agencies.
11. Established CDC's Maternal Mortality Surveillance System and the Safe Motherhood Initiative.
12. Program Chair for APHA's Maternal and Child Health Section for the 2001 and 2002 Annual Meeting of the American Public Health Association
13. Member of APHA's Governing Council 2003 to 2011
14. Member of APHA's Science Board 2011 to 2015
15. Chair of APHA's MCH Section Infant and Child Health Committee and plan sessions at the annual meeting for the committee
16. Editorial Board, Maternal and Child Health Journal 2001 to 2011
17. Conceptualized and chaired the planning of two national summits on preconception health and health care
18. Conceptualized and chaired the planning of two national conferences on Blood Disorders in Public Health
19. Initiated and guest edited the following journal supplements:
 - a. Special Supplement on Preconception Care – Maternal and Child Health Journal, Volume 10, Supplement 1 / September, 2006
 - b. Special Supplement on Clinical Guidelines for Preconception Care – American Journal of Obstetrics and Gynecology. 1999(6B),2008.
 - c. Special Supplement on Policy and Finance for Preconception Care – Women's Health Issues.18(S) 2008.
 - d. Special Supplement on Blood Disorders in Public Health – American Journal of Preventive Medicine. 38(4S), 2010.
 - e. Special Supplement on Blood Disorders in Public Health – American Journal of Preventive Medicine. 41(6S4), 2011.

F. SCIENTIFIC PUBLICATIONS:

AUTHORED PUBLICATIONS:

- Atrash HK, Rochat RW, Schultz KF, Allen DT. Family planning and abortion: have they affected fertility in Tennessee? Am J Public Health 1982;72:608-610
- Atrash HK, Allen DT, Rochat RW: Legal abortions in Tennessee 1974-1978. J Tenn Med Assoc 73:855-63, 1980.
- Atrash HK, Allen DT, Rochat RW, Smith L: The role of nurse practitioners as family planning clinicians in Tennessee. J Tenn Med Assoc 74:15-20, 1981.

- Atrash HK, Allen DT, Rochat RW: Fertility trends in Tennessee. J Tenn Med Assoc 74:329-38, 1981.
- Atrash HK, Peterson HB, Cates W Jr, Grimes DA: The risk of death from combined abortion-Sterilization procedures: Can hysterectomy or hysterotomy be justified? Am J Obstet Gynecol 142:269-74, 1982.
- Atrash HK, Hogue CJR, Grimes DA: Epidemiology of Hydatidiform Mole During Early Gestation. Am J Obstet Gynecol 154(4):906-909, 1986.
- Atrash HK: Ectopic Pregnancy, United States, 1981-1983. MMWR 35(18): 289-291, 1986.
- Atrash HK, Hughes J, Hogue CJR: Ectopic pregnancy in the United States- 1970-1983. MMWR Surv Sum 35(2SS):29SS-37SS, 1986.
- Atrash HK, Rhodenhiser EP, Hogue CJR, Smith JC: Abortion surveillance: preliminary analysis--United States, 1982-1983. MMWR Surv Sum 35(2SS):7SS-9SS, 1986.
- Atrash HK, Friede A, Hogue CJR. Abdominal pregnancy in the United States: Frequency and maternal mortality. Obstet Gynecol 69(3):333-337, 1987.
- Atrash HK, MacKay TH, Binkin JN, Hogue CJR: Legal abortion mortality in the United States: 1972-1982. Am J Obstet Gynecol 156(3):605-612, 1987.
- Atrash HK, Friede A, Hogue CJR: Ectopic pregnancy mortality, United States 1970-1983. Obstet Gynecol 70(6):817-822, 1987.
- Atrash HK, Cheek TG, Hogue CJR: Legal abortion mortality and general anesthesia. Am J Obstet Gynecol 158:420-4, 1988.
- Atrash HK, Hogue CJR, Binkin JN, MacKay TH: Legal abortion mortality in the United States (letter reply). Am J Obstet Gynecol 158(6):1477, 1988.
- Atrash HK, Ellerbrock TV, Hogue CJR, Smith JC: The Need for National Pregnancy Mortality Surveillance. Family Planning Perspectives 21(1):25-26, 1989.
- Atrash HK, Lawson H, Smith JC: Legal abortion in the United States. Contemporary OB/GYN 35(2):58-69, 1990.
- Atrash HK, MacKay TH, Hogue CJR: Ectopic pregnancy concurrent with induced abortion: Incidence and mortality. Am J Obstet Gynecol 162:726-30, 1990.
- Atrash HK, Franks A: Causes of the increase in the incidence of ectopic pregnancy. Am J Obstet Gynecol 162:1130-1131, 1990.

- Atrash HK, Ellerbrock TV, Koonin LM, Smith JC, Hogue CJR: A new national pregnancy mortality surveillance in the United States. *World Health Forum* 11:92-93, 1990.
- Atrash HK, Hogue CJR: The effect of pregnancy termination on future reproduction. Chapter in Medical Induction of Abortion, Marc Bygdeman (ed), Baillaire's Clinics in Obstetrics and Gynecology vol 4(2):391-405, 1990.
- Atrash HK, Koonin LM, Lawson HW, Franks AL, Smith JC: Maternal mortality in the United States, 1979-1986. *Obstet Gynecol* 76:155-160, 1990.
- Atrash HK, Hogue CJR, Becerra JW: Birth weight-specific infant mortality risk in cesarean section. *Am J Prev Med* 7:227-31, 1991.
- Atrash HK, Rowley DL, Hogue CJR: Maternal and perinatal mortality. *Current Opinion in Obstetrics and Gynecology* 4:61-71, 1992.
- Atrash HK, Hogue CJR: The Care Connection: Comprehensive Reproductive Health For Women. Book Chapter: Proceedings of the International Planned Parenthood Federation Family Planning Congress, "Meeting Challenges: Promoting Choices." Delhi, India, October 1992. Edited by Pramilla Senanayake and Ronald L. Kleinman. The Parthenon Publishing Group, 1993, pp. 313-321, 1993.
- Atrash HK, Fry AA, Hogue CJR: Incidence of morbidity and mortality with IUD in situ. In: Proceedings from the Fourth International Conference on IUDs. Edited by C. Wayne Bardin and Daniel R. Mishell, Jr. Butterworth-Heinemann, 1994.
- Atrash HK, Lawson HW, Ellerbrock TV, Rowley DL, Koonin L: Pregnancy-related mortality. From Data to Action: CDC's Public Health Surveillance for Women, Infants and Children. Editors: Lynne S. Wilcox and James S. Marks. U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control and Prevention, pages 141-154.
- Atrash HK, Alexander S, Berg CJ: Maternal mortality in developed countries: not just a concern of the past. *Obstet Gynecol* 86:700-5, 1995.
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- Atrash, HK, Strauss LT, Kendrick JS, Skjeldestad FE, Ahn YW: The Relationship Between Induced Abortion and Ectopic Pregnancy. *Obstet Gynecol* 89:512-8, 1997.
- Atrash HK, Saftlas A: Induced abortion. Chapter in: *Women and Health*. Edited by: Marlene R. Goldman and Maureen C. Hatch. Academic Press 2000. Library of Congress Catalog Card Number 99-61535. Pages 160-70.
- Atrash, HK and Hunter, M: Health disparities in the United States: a Continuing Challenge. In: *Multicultural Medicine and Health Disparities*. Edited by David Satcher, Rubens J. Pamies, New York, McGraw-Hill, 2005. pp 3-31

- Atrash HK, Johnson K, Adams M, Cordero J, Howse J: Preconception care for improving perinatal outcomes: The time to act. *Maternal and Child Health J* 10: S1-S11, 2006.
- Atrash HK: Health Disparities in the United States – a 2004 Update. In: *Monitoring health status and vulnerable groups in Europe: past and present*. Laurenda Abreu and Janos Sandor, editors. Printed by Bocz Nyomda, Pecs, Hungary. Proceedings of the conference on Health Disparities in Europe, Pécs, Hungary, July 2004. Published March 2007. Pages 308-332.
- Atrash H, Jack B, Johnson K. Preconception care: a 2008 update. *Curr Opin Obstet Gynecol* 20:581–589.
- Atrash H, Jack B, Johnson K, Coonrod DV, Moos M-K, Stubblefield P, Cefalo R, Damus K, Reddy U. Where is the “W”oman in MCH? *American Journal of Obstetrics and Gynecology* 199(6B):S259-S265, 2008
- Atrash HK. North American program for newborn screening for sickle cell disease. *Revista Brasileira De Hematologia E Hemoterapia* 31;Supplement 4:49, 2009
- Atrash HK. Sickle cell disease and public health (abstract). *Revista Brasileira De Hematologia E Hemoterapia* 31;Supplement 4:50-51, 2009
- Atrash HK and Parker C. The Public Health Response to Blood Disorders. *Am J Prev Med* 2010; 38(4S):S451-S455
- Atrash HK, Carpentier R. The evolving role of public health in the delivery of health care. *Journal of Human Growth and Development*. 22(3): 396-399, 2012
- Atrash HK. Childhood mortality: still a global priority. *Journal of Human Growth and Development*. 23(2): 257-260. 2013;

COAUTHORED PUBLICATIONS:

- Issa PY, Salem PA, Brihi EB, Azoury RS, Atrash HK: Eosinophilic Granuloma of the female genitalia. *Am J Obstet Gynecol* 137:608-12, 1980.
- Campbell B, Atrash HK, Allen DT, Roach RW: Statewide Family Planning Programs in Tennessee, a 1980 update. *J Tenn Med Assoc* 73:629-34, 1980.
- Suidan F, Ataya K, Atrash HK: Shirodkar procedure on the already dilated cervix. *Leb Med J* 33(1):85-102, 1983.
- Ameen F, Atrash HK, Armenian HK: Compliance and its determinants at a primary health care center in Bahrain. *J Arab Med* 2(4):10-14, 1984.

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- Ameen F, Atrash HK, Armenian HK: Compliance and its determinants. Bahrain Medical Bulletin 5(2):40-7, 1984.
- Salameh A, Atrash HK, Matar A: Familial trends of nocturnal enuresis in Bahrain. J Arab Med 2(8):17-20, 1984.
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- Dutta SR, Atrash HK, Mathew L, Mathew PP, Mahmood RA: Seroepidemiology of Rubella in Bahrain. International Journal of Epidemiology 14(4):618-623, 1985.
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- Starzyk P, Frost F, Ellerbrock T, Atrash HK, Hogue CJR, Smith JC: Misclassification of maternal deaths-Washington. MMWR 35(39):621-624, 1986.
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- Ellerbrock TV, Atrash HK, Rhodenhiser EP, Hogue CJR, Smith JC: Abortion Surveillance, 1982-1983. MMWR Surv Sum 36(1SS): 11SS-36SS, 1987.
- Ellerbrock TV, Atrash HK, Hogue CJR, Hughes J: Years of potential life lost before age 65 due to perinatal conditions -- United States 1980-1983. MMWR 36(12): 179-187, 1987.
- Ellerbrock TV, Atrash HK, Hogue CJR, Hughes J: Premature mortality due to Sudden infant death syndrome -- United States 1980-1983. MMWR 36(15): 236-8, 1987.
- Ellerbrock TV, Atrash HK, Hogue CJR, Smith JC: Pregnancy Mortality Surveillance: A new initiative. Contemporary Ob/Gyn 31(6): 23-34, 1988.
- Rochat RW, Koonin LM, Atrash HK, et al: Maternal mortality in the United States: Report from the Maternal Mortality Collaborative. Obstet Gynecol 72(1):91-97, 1988.
- Saftlas AF, Atrash HK, Franks A, Smith J: Abortion surveillance: preliminary analysis - United States 1984-1985. MMWR 37;41:637-639, 1988.

- Ellerbrock TV, Atrash HK, Hogue CJR, Smith JC: Tracking pregnancy mortality too long? (letter reply). *Contemporary Ob/Gyn* 32:206-07, 1988.
- Peterson HB, Chow WH, Atrash HK: The epidemiology of ectopic pregnancy in the United States. In: *Ectopic pregnancy: pathophysiology and clinical management*. Ed. Christopher M. Fredricks, John D. Paulson, and Gary Holtz. *Hempshire Publishing Corporation*, pp 1-19, 1989.
- Entman SS, Atrash HK, Koonin LM, Smith JC. Maternal mortality Surveillance (Letter). *Am J Publ Health* 78;11:1499-1500, 1988.
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- Koonin LM, Atrash HK, Rochat RW: Maternal mortality surveillance, United States 1980-1985. *MMWR Surv. Sum.* 37(SS-5):19-29, 1989.
- Lawson H, Atrash HK, Saftlas A, Franks A, Finch E: Ectopic pregnancy surveillance, United States 1984-1985. *MMWR Surv. Sum.* 37(SS-5):9-18, 1989.
- Lawson H, Atrash HK, Finch E: Ectopic pregnancy: preliminary analysis - United States 1986. *MMWR* 38(27): 481-484, 1989.
- Lawson H, Atrash HK, Finch E: Ectopic pregnancy surveillance, United States 1970-1986. *MMWR Surv. Sum.* 38(SS-2):1-10, 1989.
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- Young P, Saftlas AF, Atrash HK, Koonin L, Smith J: Abortion surveillance: preliminary analysis - United States 1986-1987. *MMWR* 37;41:637-639, 1989.
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- Franks AL, Atrash HK, Lawson HW, Colberg KS: Obstetrical pulmonary embolism mortality, United States, 1970-1985. *Am J Public Health* 80:720-722, 1990.
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- Koonin LM, Atrash HK, Lawson LW, Smith JC: Maternal mortality surveillance, United States, 1979-1986. *MMWR Surv Sum* 40(SS2):1-13, 1991.
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G. OTHER SCIENTIFIC WORK:

- 1985 to 2017: 5 to 10 Presentations at meetings of national organizations annually, including: American Public Health Association; American College of Obstetricians and Gynecologists; Association of Reproductive Health Professionals; National Abortion Federation, Minneapolis; New Jersey Obstetrical and Gynecological Society, Atlantic City; Society for Epidemiologic Research; Safe Motherhood South Asia Conference; Public Health Conference on Records and

Statistics; American College of Epidemiology; Planned Parenthood Federation of America; Association of Maternal and Child Health Programs; Urban Maternal and Child Health Leadership (CityMatCH); ACOG District IV Advisory Council; Indian Health Service Research Conference; the Population Council's Conference on "Problems of IUD use and their management"; The World Health Organization's Conference on Safe Motherhood; The Eastern Mediterranean Regional Office Conference on Safe Motherhood; Brazil National Forum on Maternal Mortality; Guatemala College of Obstetrics and Gynecology; etc.

- Annual lectures on the subjects of maternal morbidity and mortality, abortion morbidity and mortality and ectopic pregnancy at Emory University, Harvard University, UCLA, and University of Illinois Schools of Public Health, and others.
- Between 10 and 20 annual invited presentations during the last 20 years to speak at national, state and local conferences on the subjects of maternal and infant health, safe motherhood, birth defects, health disparities, preconception care, and blood disorders.

H. REFERENCES: available on request