

MEMORANDUM

DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE
PUBLIC HEALTH SERVICE
CENTER FOR DISEASE CONTROL

TO William H. Foege, M.D.
Director, Center for Disease Control (CDC)
Through: Philip S. Brachman, M.D.
Director, Bureau of Epidemiology (BE) *PAS*

DATE: April 2, 1979

FROM : John E. Anderson, Ph.D.

SUBJECT: Foreign Trip Report (AID RSSA): Seminar on Intermediate Variables Affecting Fertility, Institute of Statistical Studies and Research, Cairo University, Cairo, Egypt, March 7-13, 1979

- I. PLACES, DATES, AND PURPOSE OF TRAVEL
 - II. PRINCIPAL CONTACTS
 - III. SEMINAR ON INTERMEDIATE VARIABLES AFFECTING FERTILITY
- ATTACHMENT: PARTIAL LIST OF PAPERS, CONFERENCE ON INTERMEDIATE VARIABLES, CAIRO, EGYPT, MARCH 10-11, 1979

I. PLACES, DATES, AND PURPOSE OF TRAVEL

Cairo, Arab Republic of Egypt, at the invitation of Dr. Atef M. Khalifa, Institute of Statistical Studies and Research (ISSR), Cairo University, to participate in the Seminar on Intermediate Variables Affecting Fertility, March 10 and 11, 1979. This travel was funded by the ISSR and the Population Council. Analysis of data presented at the seminar was supported by the FPED/CDC Resource Support Service Agreement (RSSA) with the AID Office of Population.

II. PRINCIPAL CONTACTS

A. Egyptian Participants

1. Atef M. Khalifa, ISSR
2. Hamed Abou-Gamrah, Population and Family Planning Board (PFPB)
3. Olfat A. Darwish, High Institute of Public Health, Alexandria University
4. Nadia H. Dollman, National Center for Social and Criminological Research
5. Sarah F. Loza, PFPB
6. Nazek Nasseir, Social Research Center, American University, Cairo
7. Hoda Rashad, ISSR
8. Hussein A.A. Sayed, PFPB

B. International Participants

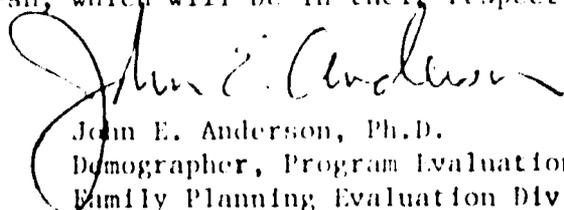
1. Frederic Shorter, Population Council Senior Representative, Cairo
2. James Allman, Battelle Institute, Washington, D.C.
3. Yolande Jemai, Tunisia
4. Cynthia Myntti, London School of Economics
5. Hilary Page, Vrije Universitet, Brussels
6. Thomas Walsh, International Canadian Development Council

III. SEMINAR ON INTERMEDIATE VARIABLES AFFECTING FERTILITY

The Seminar was held as part of the Institute's Annual Conference on Statistics, Computer Science, and Operations Research. In addition to presenting a paper at the Seminar, I served as discussant on a General Demographic Session, which was part of the main Conference. The paper which I presented was entitled, "Measuring the Relationship Between Child Health and Fertility: Results of a Nutrition Survey in the Arab Republic of Egypt." It was based on an analysis of the 1978 Nutrition Survey conducted by the Nutrition Institute, Ministry of Health, Arab Republic of Egypt, and the Nutrition Division, Bureau of Smallpox Eradication, Center for Disease Control.

The Seminar was based on a method developed by John Bongaarts for measuring the effect of "intermediate" variables that affect fertility: nuptiality, contraceptive use, induced abortion, lactational infecundibility, coital frequency, sterility, spontaneous intra-uterine mortality, and duration of the fertile period. (John Bongaarts, "A Framework for Analyzing the Proximate Determinants of Fertility," Population and Development Review, March 1978, pages 105-132) Bongaarts draws on the well-known work of Davis and Blake and proposes a mathematically quantifiable model of how these factors are related. The method appears promising as a means of decomposing changes or differences in fertility rates using commonly available data in a way that is closely related to the causal relationships involved. This method could be applied to demographic data now being collected in the Program Evaluation Branch as part of contraceptive prevalence surveys. The Seminar also provided many suggestions on how to improve fertility-related questions in future surveys in order to specify the determinants of fertility more fully and to improve demographic analysis.

Session papers and discussions with Egyptians indicate that there is a large body of demographic data accumulating for Egypt. This should increase as data becomes available from the 1976 Census, from recently completed surveys, and from surveys in progress. A listing of titles and authors of Seminar papers is attached. These papers will be filed in the Egypt Country file of the FPED Reference Collection for the access of anyone interested in them, with the exception of the papers concerning Ethiopia, Tunisia, and Bangladesh, which will be in their respective country file.



John E. Anderson, Ph.D.
Demographer, Program Evaluation Branch
Family Planning, Evaluation Division
Bureau of Epidemiology

ATTACHMENT

PARTIAL LIST OF PAPERS
CONFERENCE ON INTERMEDIATE VARIABLES
CAIRO, ARAB REPUBLIC OF EGYPT
MARCH 10-11, 1979

1. Hamed Abou-Gamrah, Effects of Nuptiality and Family Planning of Fertility
2. Mahbur Ahmed, Breastfeeding in Some Developing Countries
3. James Allman, Natural Fertility and Associated Intermediate Variables in Some Arab Countries
4. John E. Anderson, Measuring the Relationship Between Fertility, Contraceptive Use, and Child Health: Results from a 1978 Nutrition Survey, Arab Republic of Egypt
5. Hadgu Bariagaber, Population Dynamics of Rural Ethiopia
6. Olfat A. Darwish, M. El-Nagar, Emad E. Eid, and A.F. El-Sherbini, Inter-Relationships Between Anemia and Fertility Patterns in Rural Egyptian Women
7. Nadia H. Doliman, Abortion in Egypt
8. Mostafa El Guindy, The Impact of Divorce and Widowhood
9. Allan G. Hill, Frederic C. Shorter, Intermediate Variables in Fertility Analysis: A Practical Guide
10. Mohamed H. Husein, Critical Analysis of Egyptian Causes of Death Statistics
11. Yolande Jemal, Abortion in Tunisia: A Realistic Approach?
12. R. Lesthaeghe and H.J. Page, The Postpartum Non-Susceptible Period: Development and Application of Model Schedules
13. Sarah F. Loza, Nabil El-Khorazaty, Causes of Fertility Differences in Egypt: Intermediate Variable Analysis
14. Nazek Nousseir, Measurement of Intermediate Variables Affecting Fertility in Rural Egypt
15. Mervet El Rafei, Iman M. Mourad, Some Intermediate of Fertility in Egypt.
16. Hoda Rashad, The Estimation of Crude Death Rate When the Data Are Affected by Different Under-Registration

17. Hussein A.A. Sayed, Hesham Makhlouf, Changes in Egyptian Fertility (1960-1970) An Intermediate Analysis
18. Hussein A.A. Sayed, A Model for the Study of Nuptiality
19. M. Sivamurthy, Sultan Ahmed, Path Analysis for Explaining Fertility Differentials: Illustrated with Bangladesh Data