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Nutrition CRSP - Egypt Project
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The objectives of the trip were as follows:

1. To participate in the Egypt CRSP Workshop to be held September 6-14, to summarize Phase I moribidity and anthropometry and to plan for Phase II.

2. To revise moribidity forms and procedures for Phase II, and where necessary assist in the development of new forms.

Itinerary:

September 2	Left Tucson
September 3	Arrived Cairo
September 30	Left Cairo
October 1-3	Enroute (non-CRSP business)
October 4	Arrived Tucson

Summary of Activities:

September 3-9:

9/3: Arrived Cairo, bringing boxes of supplies.

9/4-5: Prepared Anthropometric data for presentation to Workshop; assisted F. Shaheen with preparations for presentation of morbidity data previously analyzed at Arizona and Cairo. Consulted with Daisy Fleita regarding revised core design.

9/6,7,8: Workshop. Gave formal presentation in the first day on the results of the anthropometric assessment of Kalama children; a similar report is provided in the summary volume for Phase I. Discovered that unusual relationships of growth to socioeconomic status were parallel to relationships found between food intake and SES, lending credibility to the growth and food intake data. Discussed Phase I methodology, changes for Phase II, and rationale for the changes. Details of workshop provided by Avanelle Kirksey.

9/9: Weekend

September 10-16:

9/10: Initial meeting with Farouk Shaheen, Otto Sieber, and young doctors regarding morbidity data collection.

9/11: Visit to Kalama with Otto Sieber, Charles Weber, Bernard Liska (Dean of Agriculture at Purdue University), Avanelle Kirksey, and Amin Said. Began development of additional morbidity forms with Otto Sieber.

9/12: Visit to NAMRU #3 with Otto Sieber and Charles Weber. Met with the outgoing Unit Commander and Dr. Moustafa Mounsour to tour new building and laboratories, to ascertain availability of consultation regarding parasitology, availability of equipment which was being decommissioned, availability of assistance if needed in zinc assays.

9/13-15: Meetings with young doctors, Sieber, and Shaheen, regarding development of new forms, rationale for data collection procedures, and revision of old forms.

9/16: Weekend.

September 17-23:

9/17-20: The major feast of the Islamic year. No offices or stores or businesses open; a time for families to have a holiday.

9/21-22: Nutrition Institute at partial strength, as many employees chose this time to take two days vacation. Beginning planning with Shaheen for training of young doctors in anthropometry techniques and Dubowitz assessment. Location and inspection of all anthropometric equipment -- the first such location and inspection since the equipment began arriving in September 1982. Calibration of Heathkit scales carried to Egypt. Dealer (found to be necessary) located and scales delivered.

September 24-30:

9/24: Initiation of anthropometric training for young doctors: rationale for procedures, recording forms, etc., need for quality control and ongoing assessment of technical errors. First experiences of young doctors with Dubowitz assessment.

9/25: First day of anthropometric training in clinic associated with NI -- arm circumference, length, weight. Assessment of level of accuracy of Heathkit scales -- found to be dependent on weight, functioning as a percentage error. Error level acceptable in young children, but unacceptable in adults. Decision to use portable beam balances. Strategies for collecting anthropometric measurements revised to include to stable measurers moving from house to house; young doctors who know families will be partners. Full-time measurers will transport equipment.

9/26: Progress on morbidity forms design (see attached). Continuing work with young doctors on anthropometry (skinfolds). Assisted Farouk Shaheen in making personnel decisions regarding roles of various young doctors. Orientation of a new physician joining the team.

9/27: Trip to Bilbeis and the Epidemiology Unit studying the effects of diarrhea on malnutrition during pregnancy and early childhood -- non-CRSP business.

9/28: Working sessions with young doctors on Dubowitz assessment and other pregnancy and birth related components, including problems of access, approaching the mothers, etc. Consultation with Nell Kirksey and Farouk Shaheen regarding revision of reproduction and lactation forms and integration of some aspects into the morbidity series (i.e., weekly pregnancy questionnaire, initial reproduction history to be done at initial physical exam). Anthropometry component of the monthly pregnancy visit was integrated into the pregnancy form.

9/29: Covering final details of morbidity forms content and design with Farouk Shaheen and Osman Galal. Final discussions with young doctors. Final reproduction discussions with Farouk Shaheen and Avanelle Kirksey. Facilitated location and cataloging of the rest of the equipment for Phase II sent to Egypt in previous year. Assisted in moving equipment to an area controlled by CRSP.

ACCOMPLISHMENTS:

Throughout the visit I provided assistance with interpretation and appropriate implementation of the revised core research design, especially in those areas relating to anthropometry, morbidity, and the scheduling of reproduction, lactation, immunology, and other nutritional status assessment. In addition, I provided interpretation of the core research design to NI field staff (young doctors and others involved in the areas mentioned above), particularly in terms of interpreting other related aspects of the design to individuals in a particular speciality (morbidity to immunologists, anthropometry to physicians, etc.).

The attached forms represent the stage of development of the morbidity forms at the time of my departure from the field. They have subsequently been revised a final time based on field experience with the particular set-up and coding flow, and decisions made in the joint morbidity meeting among the Egypt, Kenya, and Mexico morbidity senior scientists. These final revisions are provided elsewhere. The forms attached represent the combined efforts of myself, Farouk Shaheen, Otto Sieber, and the young doctors.

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