ETHICAL REVIEW COMMITTEE, ICDDR, B.

cipal Investigator C.M. FILLMORE

Yes

Yes

Yes

Yes

Yes

Yes

Yes (No

No

No

No

No

No

No

No

No

No

Trainee Investigator (if any)

Supporting Agency (if Non-ICDDR,B)

(≻√) New Study

Continuation with change

No change (do not fill out rest of form)

le the appropriate answer to each of the following (If Not Applicable write $\underline{\sf NA}$).

Will signed consent form be required: No (a) From subjects

> (b) From parent or guardian (if subjects are minors) Yes (No) Will precautions be taken to protect

anonymity of subjects Yes Check documents being submitted herewith to

Committee:

Umbrella proposal - Initially submit an overview (all other requirements will be submitted with individual studies) Protocol (Required) Abstract Summary (Required)

Statement given or read to subjects on nature of study, risks, types of questions to be asked, and right to refuse to participate or withdraw (Required

Informed consent form for subjects Informed consent form for parent or guardian Procedure for maintaining confident al-

Questionnaire or interview schedule * If the final instrument is not completed prior to review, the following information should be included in the abstract summary: A description of the areas to be

covered in the questionnaire or

interview which could be considered

either sensitive or which would constitute an invasion of privacy. Examples of the type of specific questions to be asked in the sensitive areas.

An indication as to when the question naire will be presented to the Cttoc. for review.

ication No. 83-510P

e of Study Entry of Sommer/Invenstein Project status:

(Pilot Protocal

Source of Population: (a) Ill subjects

(b) Non-ill subjects

(c) Minors or persons

under guardianship Yes. Does the study involve:

(a) Physical risks to the

subjects Yes Yes

(b) Social Risks (c)

Psychological risks to subjects

Discomfort to subjects (d) (e) Invasion of privacy $(\hat{ })$

Disclosure of information damaging to subject or others

Poes the study involve: Use of records, (hosp-(11) ital, medical, death, birth or other) Yes

Use of fetal tissue or abortus

Use of organs or body (c)

(b)

are subjects clearly informed about: (a) Nature and purposes of study Yes

(b) Procedures to be followed including

alternatives used Yes No (1) Physical risks Yes No (d) Sensitive questions Yes No

′e) Senefits to be derived Yes (f) Right to refuse to participate or to with-

draw from study Confidential handling (g) of data Yes . (n) Compensation 6/or treatment where there are risks or privacy is involved in-

gree to obtain approval of the Ethical Review Committee for any changes lving the rights, and welfare of subjects before making such change.

Principal Investigator

any particular procedure Yes No

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SECTION - I: RESEARCH PROTOCOL

Rud: 22/8/83

			ı		
1.	Title:	Entry of Sommer/Lowenstein Data Analysis	& Freliminary		
2.	Principal Investigator:	Capri Mara Fillmore	1		
3.	Supervisor:	Dr. Stan D'Souza	1		
ά.	Starting Date:	12 January 1983	1 1 1		
5.	Completion Date:	12 April 1983	1 1 1		
6.	Total Direct Cost:	us\$ 750	 		
7.	Scientific Program Head:		1		
	This protocol has been approved Group.	d by the Community Services Resea	rch Working		
	*Signature of the Scienti	fic Program Head:			
		Date: 15 Fcb	1983.		
		e Scientific Program Head takes r d budget for this particular prot			
8.	Abstract Summary:		1		
	Data collected by Sommer and Lowenstein December 1970 to January 1971 needs to be entered onto the computer and edited. This data contains the height, arm circumference, sex, and birthdate or approximate birthdate of about 9000 children under 11 years of age. Once this is done the data set will be analysed utilizing the NCHS anthropometric reference, utilizing Z+scores and percentiles and breaking down by specific age group and sex. The data will also be analysed in terms the distribution curve of the data and proportion of children below an arbitrary lower-limit indicator value. Then there will be an attempt to link these children with the 1970 SES data on their families				
9.	Reviews:		1		
	(a) Ethical Review Committee_		1 1		
	(b) Research Review Committee		I I		
	(a) Director		1		

ABSTRACT SUMMARY

None of the questions for the Ethical Review Committee apply because this study involves only old data sets, and will not involve contact with any patient or population surveyed.

SECTION - II: RESEARCH PLAN

A. INTRODUCTION

0bjective

The data of Sommer and Lowenstein are the oldest tracable anthropometric data from Matlab. By entering this data on the computer and doing this preliminary analysis, it will be possible to use the data as a baseline by which to compare more recent anthropometric studies and then relate changes in anthropometry to economic development. A secondary objective will be to work out a mid-arm circumference reference program for ICDDR, B.

2. Background

December 1970 to January 1971 Sommer and Lowenstein collected data on arm circumference and height for 0-10 year old children in 27 Matlab villages. They later analysed this "QUAC Stick" data in terms of its mortality prediction potential (Sommer and Lowenstein, 1975). The only record of this data in Bangladesh is the 1970 Matlab Census Books. A thorough investigation of Matlab anthropometric data (see "Abthropometric Data Collected in Matlab") made it clear that the Sommer and Lowenstein study is the earliest anthropometric study in Matlab for which data is still available.

As of today, there is no mid-arm circumference reference program at ICDDR, B. This program will have to be developed in order to fully analyse; the data from ICDDR, B studies which included arm circumference measurements, as well as the Sommer and Lowenstein study discussed in this protocol.

The Cholera Laboratory's SES (Socio-economic Status) 1970 survey included information on occupation and education of head of household, marital status,

land holding, crop yield, and income of land leasers. Since this survey involved at least some of the families in the Sommer and Lowenstein study, it may be possible to make some linkage of the two surveys.

Rationale

The Sommer and Lowenstein study has the earliest available anthropometric data from Matlab, it can therefore be used as a baseline by which to compare more recent studies. This will be necessary for my FAO Research Fellowship on the "Rapidity of Response of Nutritional Status Indicators' to Economic Development Efforts" which will attempt to link changes in anthropometry to economic development over the years in Matlab.

B. SPECIFIC AIM

The goal of this exercise is to put the data into a workable form which will facilitate its comparison with more recent anthropometric data. The secondary goal is to begin development of an ICDDR, B anthropometric data bank.

C. METHODS OF PROCEDURE

As of today, data from 26 of the villages have been entered on the computer from the Matlab Census Books, and I personally, randomly spotchecked about 30 of these entries to see that they were properly entered. The code sheet for this data entry is attached.

If this protocol is approved it would entail my going to Matlab to record the data from the 1970 Census Book of the 27th survey village and

bringing it to Dhaka for entry onto the computer, adding it to the data from the other 26 villages that have already been entered.

Once the data is all entered it will be edited by use of Z-scores of the NCHS anthropometric reference. The data will then be analysed by breaking down into age and sex groups and determining: 1) proportion of children below a specified and arbitrary lower-limit of the anthropometric indicator, and 2) the specified populations' distribution range of the anthropometric indicator (as recommended by WHO, 1979).

The above should be done for arm circumference as well as height, but as of yet ICDDR, B has not program for an arm circumference reference. Information providing the reference values for the arm circumference program has been requested from FAO, Rome. As a part of this protocol that program will be developed.

If it is possible, the families of the Sommer and Lowenstein anthropometric study will be linked to the 1970 Socio-Economic Status (SES) data on these same families, and again the WHO recommended determinations (1979) will be made using SES population breakdowns.

SIGNIFICANCE

It is not expected that this study in itself will represent any significant finding, as it is meant to be a baseline for the analysis of changes in anthropometric findings over the years. In order to do the Andre Mayer Fellowship research all anthropometry studies need to be analysed in the same manner so that studies done one year can be compared with studies done

another year in order for anthropometric changes to be linked to economic development.

An additional advantage in this study is that it will be the first step in establishing a documented nutritional anthropometry data bank, with easy access to any interested ICDDR, B researcher.

E. FACILITIES REQUIRED

Use of ICDDR, B computer services.

F. COLLABORATIVE ARRANGEMENT

NIL

REFERENCES

- Sommer, A. and M.S. Lowenstein (1975) "Nutritional status and mortality:

 a prospective validation of QUAC stick" Am. J. Clin. Nutr., 28: 287-292.
- World Health Organization (1979) A Guideline for the Measurement of Nutritional Impact of Supplementary Feeding Programmes Aimed at Vulnerable Groups (WHO/FAP/79.1, Geneva).

Attached:

11 January 1983 Memo on Entry of Sommer's 1970 Nutrition Data.

Available on Request:

Fillmore, C.M. (1983) "Anthropometric Data Collected in Matlab" Final Draft.

SECTION - III: BUDGET

A. DETAILED BUDGET

As Capri Mara Fillmore receives a stipend for her fellowship from FAO, there will no budget money allocated for her salary.

PERSONNEL SERVICES (Computer Services)

Position	% Effort	Man Months	Annual Salary	Requirement Taka
Data Entry Technician	100	2	Tk. 32,400	6,000
Programmer (National)	100	2	47,600	8,000
MISCELLANEOUS Computer Time				; 1 3,000
Computer Stationery & Diske	1,000			

B. BUDGET SUMMARY

Category	•	Takas
Personnel Services		14,000
Miscellaneous		4,000
	Total:	18,000

Total in Dollars (Taka 24.00/\$1.00) = \$750

Mr. Mohd. Mohsin

Capri Mara Fillmore ()

11.1.1983

Entry of Sommer's 1970 Hutrition Data

As we discussed I would like the column position as follows:

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1-4 Village code
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5-8 Family code

9-10 Individual code

11-16 Birth date

17-22 Date of Measurement (always to be 010171)

23-25 Arm circumference

26-29 Height

30 Male = 2, Females = 1

Some of the children have age (y.o) but no birth date list their birth dates as follows:

2 y.o. = 011168

3 y.o. = 011167

4 y.o. = 011166

5 y.o. = 011165

6 y.o. = 011164

7 y.o. = 011163

8 y.o. = 011162

9 y.o. = 011161

10 y.o. = 011160

If you have any problems, please note down the I.D., number and as me when I return on 19 January,

cc: Mr. A.H. Mostafa, Computer Manager

S D'Sonza M. Chowding