agree to obtain approval of the Review Board on the Use of Human Subjects for any changes wolving the rights and welfare of subjects before making such change.

Principal Investigator

any particular procedure (Yes) No

Shja

80-047(P) Receid. 29.12.80.

SECTION I. - RESEARCH PROTOCOL

1.	Title: Pilot Study on Socio-economic and Mortality Differentials
2.	Principal Investigator: Dr. Stan D'Souza
3.	Co-Investigator: Mr. Abbas U. Bhuiya
4.	Starting Date: 15 January 1981
5.	Completion Date: 15 April 1981
6.	Total Direct Cost: US \$ 2,518.00
7.	Scientific Programme Head:
	This protocol has been approved by the Community Services Research Working Group.
	*Signature of Scientific Programme Head:
	Date: 22 December 1980
	*This signature implies that the Scientific Programme Head takes responsibility for the planning execution and budget for this particular protocol.
8.	Abstract Summary:
	Around the world it has been documented that mortality and socioeconomic status of the household are inversely correlated. By using 1974 SES information from Matlab D'Souza et al. (1980) also found similar inverse relationship. A minor investigation regarding the relevancy of 1974 SES by Huffman et al. (1976) in an ICDDR, B internal note indicated that SES of the households have considerably changed within a two-year period. An updating of Matlab SES data is urgently felt. Before starting the big task of complete SES enumeration in the whole study area a pilot study is essentially needed for many obvious reasons. It would be carried out in five villages for which besides SES we have other relevant information for the last ten years. An attempt will also be made to study the socioeconomic differentials in mortality by different age group and sex.
).	Reviews:
	(a) Ethical Review Committee:
	(b) Research Review Committee:
	(c) Director:

(d) BMRC:

ABSTRACT SUMMARY - PARTICULAR ITEMS

- 1. Not applicable.
- 2. No risks; not applicable.
- 3. Not applicable.
- Data will be analysed and published in aggregate and there is no possibility of identifying individuals.
- A verbal consent form will be approved by the head of household before starting interviewing.
- 6. Interview will take place at respondents house and questions on socio-economic variables will be asked and it will take half an hour.
- 7. No direct benefits to individual; will provide a better understanding of the relationship between mortality and socioeconomic status which may be an aid to the planners for a better health planning.
- 8. Use of death records only, and previous census and Dss records.

Statement about Confidentiality

Verbal consent will be obtained from at least one adult subject in each household — those who will be answering the questions. Implied consent will be assumed for other family members. (See Appendix A).

Identifying information (name, census number) appears on the questionnaire forms (see Appendix B). Because it is necessary to link events using this information which cannot be deleted. However, the staff who have access to these questionnaires is trained and aware of their confidential nature.

After the data is linked, all analysis is done using aggregate information. There is no way that individuals can be identified.

Pilot Protocol on Socio-economic and Mortality Differentials in 5 Villages

A. INTRODUCTION

The DSS protocol No. 80-035 for Matlab covers the large-scale data collection in the two areas relating largely to the registration of vital events for the four year period starting in September 1980. The 1974 census indicated in the protocol included collection of SES data on a variety of characteristics for the entire population. Earlier collection of SES data on a few items was carried out in 1968 for the old trial area and in 1970 for the new trial area. These data sets form an important resource that can throw light on various issues related to health, mortality and morbidity. Infant mortality rates remain high in less-developed countries. Within these countries as well as in affluent ones, demographers and medical professionals have become increasingly aware of the fact that health care is not reaching the various classes of society in an egalitarian manner. Mortality rates tend to be higher in "lower" classes of society. A recent WHO-ESCAP sponsored conference in Mexico (1979) on the socioeconomic determinants of mortality has focused concern in this area. In third-world countries, reliable data do not exist to study the problem of mortality differentials. Indirect estimation procedures.

are resorted to, based on retrospective surveys. The Matlab data set--with special reference to the 1974 census--has provided important information on these differentials. A study has been presented at a WHO-ESCAP Conference in Manila in December 1980 (D'Souza 1980).

The ICDDR,B has made an efficial request for UNFPA regional funds in a project entitled - Matlab Demographic and Operational Research and Training (Project No. INT/79/P29). This project was committed by the UNFPA to ICDDR,B at the interim international committee meeting in Geneva in February 1979, was submitted after approval by the Director and Management Committee to the UNFPA in March 1979, and revised in June 1979. At the Board of Trustees meeting in July 1979, the Trustees approved and accepted the commitment of funds. Under this project the ICDDR,B contracted to do research on various items including "Policy and Programme applications of medical and socioeconomic causes of fertility and mortality." UNFPA approval of this project has now been granted (Oct. 1980).

Some of the applications of socioeconomic differentials in mortality for the health systems have been well developed by Antonovsky (1979) who states "it is incumbent upon us to urge the establishment of a systematic, continuous monitoring programme to assemble appropriate data". He points out that socioeconomic differentials in mortality mean that success has been achieved in one section of the community

which is not available to other segments.

As regard the criteria for socioeconomic classification, a paper by Bradley and Johnston (1979) reviews the situation for several countries. The following are considered to have special relevance to mortality studies:

- a) Occupation and status in employment
- b) Income
- c) Education
- d) Industry
- e) Housing Condition
- f) Urban and rural residence
- g) National and ethnic groups

However, the authors note that obtaining such data is difficult.

Kitagawa and Havser (1973) consider education as the most satisfactory of the several indices of socioeconomic status. Education defined by years of schooling is generally reliably reported. In the case of India, Vaidyanathan (1972) has reported mortality differentials by geographical location, rural-urban habitat, religion and caste, occupation, education, type of housing and lighting, landholding and income. SES data were collected in the 1974 Census. The "education of mother" proved to be the index showing the highest statistical significance with regard to mortality differentials (D'Souza, 1980).

In India, Vaidyanathan (1972) has collected data from various surveys showing an inverse relationship between occupational class and mortality. Owners and tenant cultivators have lower mortality than agricultural labourers. White-collar workers have lower mortality rates than blue-collar workers. The UN Mysore Population Study (1961) uses the type of housing and type of lighting as a proxy for socioeconomic status in urban areas and landholding in rural areas. Mortality differentials are as described above, with labourers and tenants having an infant mortality rate 59 percent above the rural rate. In the urban area of Bangalore City, the infant mortality rate for the population living in huts or mud houses with thatched roofs and for those without electric lighting was about 11 percent higher than the rate for the whole city population.

In Nigerian data, Caldwell has shown that education, especially that of the mother, is correlated negatively with child mortality rates (Caldwell, 1979). Preston has studied the changing relation between mortality and economic development (Preston, 1975). The Mexico Conference (1979) set of papers include background papers for regions such as Latin America (Behm), Asia and the Pacific (Hashmi) and tropical Africa (Gaisie).

.2. Bangladesh

Since Independence in 1971, Bangladesh has suffered two severe crisis periods, one linked to the liberation struggle and the other to the

1974 famine. Death rates have been higher during these periods, particularly among poorer groups (Chowdhury and Chen 1977). The 1975 crude death rate among landless families was three times that of families with 3 or more acres (McCord 1980).

The Bangladesh Retrospective Survey on Fertility and Mortality (1974) has documented mortality differentials in childhood by socioeconomic status. Children of women who live in houses with walls of brick had a higher chance of survival than children whose mothers live in houses of mud. Infant and child mortality decreased with the educational level of both husband and wife. These data are based on indirect estimation procedures, which have their own particular limitations. Vital registration is practically non-existent in Bangladesh and hence the main data sources on mortality differentials have been obtained from small area surveys. Companigonj thana has been the scene of innovative health interventions, and survey data on mortality rates for a 10% sample exist (Langsten 1976).

Using the Matlab data set, D'Souza and Chen (1979) have focused on sex biases of mortality differentials. Earlier work on the same subject has been recorded in the Matlab area (Ruzicka and Chowdhury 1978). Occupation has been correlated with mortality differentials in the Matlab area (Chowdhury and Aziz 1974). Becker (1978) studied relationships between seasonality data of deaths with SES.

Chen et al. (1979) have shown that children under 5 constituted 53.1 percent of all deaths in the period 1975-77. Among infants the most significant cause of deaths was tetanus. Tetanus neonatorum accounted for 26.2 percent of all infant deaths. A significant shift in causes of death occurs for children under 1-4 years. 43.9 percent of deaths were due to diarrheal diseases. Measles was the next cause of death with 13 percent. The paper associated under-5 mortality with socioeconomic and nutrition status; children residing in crowded housing (<242 sq. ft.) had nearly a two-fold higher mortality rates than children residing in less crowded housing (<242 sq.ft.). Children who were below the 63% cut off of the Harvard weight-for-age standard or below 70% of the Harvard weightfor-height standard experience about three-fold higher rates of mortality in comparison to their better-nourished counterparts. D'Souza et al. (1980) have documented mortality differentials and SES characteristics for the 1974 census.

Although malnutrition is known to increase the risk of mortality, past studies have found conflicting results when assessing the relationship between nutrition and socioeconomic status. The national survey of rural Bangladesh, 1975-1976 (Ahmed, 1977) noted significant positive correlations in food and nutrient intake, by income level of the family and landholding but did not observe such an association

with the family education score. Studies among rural women in Matlab noted only minimal correlations between maternal nutritional status (weight, height or arm circumference) and either educational level (comparing, women with no education to those with some education) or a scoring of family wealth based on the ownership of certain household goods (Huffman, 1977). However, data from a small number of families for whom information on landholding was available, indicated that women from landowning families (2 acres) had higher weights than those from landless families (Chen et al, 1979).

In addition to a benefit to finding an association between SES and nutrition, it would also be helpful to be able to correlate morbidity and socioeconomic status. Those groups at higher risk to illness could be selected for more intensified efforts, either in terms of provision of health services, vaccination programs, or health education. At present, we have no such indicator that will detect individuals at higher risk to disease. A parallel study will be set up to collect data specific to nutritional and morbidity variables. In fact the selection of villages for this study have been based on the parallel study requirements. While SES and fertility is extremely important, (Rafiqul H. Chowdhury, 1977) in view of the fact that various other protocols are addressed to fertility issues, no provision is being made

for a study at present.

The choice of villages will assist <u>longitudinal</u> interpretation of nutritional status especially of children over a ten year period. A parallel limited study is being prepared with this end in view. The introduction of morbidity variables in the parallel study will assist the design of more detailed studies on mortality directed at specific age groups.

B. SPECIFIC AIMS

- has indicated that the 1974 SES patterns may have changed since the census was taken (Huffman et al. 1976).
- 2. The limited survey would serve as a pilot for a later SES census for the whole DSS area. The selection of variables, questionnaire development, costs and time involved will thus be assessed more accurately.
- 3. Analysis plans would attempt to link the SES characteristics of the selected villages over a ten year period. Mortality differentials would be studied.

C. METHODS AND MATERIALS

Occupational data were collected for the new trial area in 1968. In 1970, a few SES items were collected for the old trial area (occupation, education of head only, landholding and crops). In the 1974 census SES items—occupation and education were collected for the individual. At

data collection since 1970. These villages will be selected for this pilot study. Table III gives some characteristics of these villages:

The data collection will be done in two phases:

1) Time period:

January 1981

Items:

SES

The list is found in Appendix 3

The present population of the 5 villages is about 12,000 consisting of approximately 2000 households. Using an estimate of 30 minutes per interview 125 man days will be required to do the field work. The budget has been shown to reflect 15 working days.

Time period:

March 1981

Items:

Anthropometric measures and morbidity data For these villages anthropometric measures will be taken for all children under age 5, and for the mothers of these children--since these are the two most vulnerable population groups in terms of poor nutritional status and risk of mortality. In addition, information on morbidity for these subjects will be collected for the period of the preceding two weeks.

Details of this study will be set up in a separate limited study protocol.

The following tables will be prepared for the analysis for the year 1970-73, related to 1970 SES data, 1974 through 1977 linked to the 1974 SES data, 1978-1980 linked to 1980 data for relevant items for the 5 villages:

- 1. Mortality rates by age, sex and education of household head
- 2. Mortality rates by age, sex and education of mother
- Mortality rates by age, sex and highest education in the family
- 4. Mortality rates by age, sex and religion
- 5. Mortality rates by age, sex and occupation of household head
- 6. Mortality rates by age, sex and occupation of individual
- 7. Mortality rates by age, sex and area of dwellings in household
- 8. Mortality rates by age, sex and family size
- Mortality rates by age, sex and number of boats owned by the household
- 10. Mortality rates by age, sex and number of cows owned by the household
- 11. Mortality rates by age, sex and articles possessed by the family
- 12. Mortality rates by age, sex and sources of drinking water
- 13. Mortality rates by age, sex and use of fixed latrine
- 14. Mortality rates by education of household head and occupation
- 15. Mortality rates by education of household head and area of dwellings
- 16. Mertality rates by education of household head and number of cows owned
- 17. Mortality rates by education of household head and use of fixed latrine

The SES profile of the five villages at three points in time 1970, 1974 and 1980 will be compared using an index "education of head of household". The tables will assist in the confirmation of earlier results indicating mortality differentials and SES from the 1974 data. An assessment of the time for the questionnaire to be filled in, costs and logistic problems will be documented as well as reliability of information obtained. The field work should be terminated within a three week period. The tabulation of the results and some analysis should be terminated by the end of March 1981. This will provide the required insight necessary for Phase II of the study. Dr. Sandra Huffman will be associated with the second phase.

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SECTION III

DETAILED BUDGET

1.	PERSONNEL	SERVICES
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PERSONNEL SERVICES	•	No.of	Annual	ŗ	Requirements	}
Position	% Effort	days	Salary	TAKA	anneger er men med fortrægelikk syger men er et speriope (Majolis på Milly der refer	DOLLARS
1 Research Associate	100	30	Tk. 48,776.00	5,682		•
Field Surveillance Branch			•		. •	
1 Field Research Officer Gr-I	10	15	Tk. 48,776.00	281		-
10 Health Assistants (F.A)	100.	15	Tk. 22,529.00	13,000		
Sub-total		•			•	
Data Management Branch		- * · .				
1 Statistical Officer Gr-	I 10	30	Tk. 48,776.00	563		~*
2 Coding Assistants	100	5	Tk. 22,529.00	866		-
Sub-total						
Computer Services						
1 Programmer(National)	50	15	Tk. 48,776.00	1,407		
2 Data Entry Technician Gr-I	100	10	Tk. 27,105.00	2,085		
Sub-total				23,884		į.

2.	SUPPLIES AND MATERIALS		No.of	Annual	Project Re	equirements
		% Effort	days	Salary	TAKA	DOLLARS
	Stationary 4 Disketts (2D)				1,500	- 64
3.	EQUIPMENT					
	None					
4.	PATIENT HOSPITALISATION				S.	
	None				-	
5.	OUTPATIENT CARE	•	·			
	None				<i>;</i>	
6.	ICDDR, B TRANSPORT	·				
	Dacca-Matlab-Dacca 4 trips Matlab speedboat (one boat two hours daily for 15 days)				1,420 5,716 7,136	
7.	TRAVEL AND TRANSPORTATION OF PERSONS				* *	
	None			•	•	•••
	LOCAL TRAVEL	· · · · · · · · · · · · · · · · · · ·				
	None				•	

None

INTERNATIONAL TRAVEL

-		% Effort *			Project R	t Requirement	
		\$	days	Salary	TAKA	DOLLARS	
•		,		•			
8.	TRANSPORTATION OF THINGS			•			
9.	RENT, COMMUNICATION AND						
	UTILITIES	•		•		•	
•	Communications				1,500		
10.	PRINTING AND REPRODUCTION	<u>N</u>					
	Questionnaire cyclostylin (2,500 copies)	ıg	•		1,260		
,	Other printing and Reproduction Sub-total				2,750 4,010		

11. OTHER CONTRACTUAL SERVICES

None

12. RONATRUCTION, RENOVATION, ALTERATION

None

13. MISCELLANEOUS COMPONENTS

B. BUDGET SUMMARY

CATEGORY	TAKAS	DOLLARS
1. Personnel	23,884	-
2. Supplies	1,500	64
3-5 Nil items	NA**	-
6. ICDDR,B Transport	7,136	•
7-8 Nil items	Heli	-
9. Rent/Communication	1,500	* ,
10. Printing/Reproduction	4,010	-
11-12 Nil items	· ••	ngt.
13. Miscellaneous	••	.
Total	38,030	54
Total (in Dollars) \$	2454*	64
- Grand Total (in dollars) \$	2518	
*Calculated at Tk. 15.50/\$	1.00	· ·

Table 1
SES data collection by year of census

Census ye	ar	<u>OTA</u>	<u>NTA</u>
1966		No SES data	No census
1968		No census	Occupation of individuals
1970		Occupation and	individuals
	,	Education of head and ever married individual	No census
•		THAT'A TAGGET	
	•	Landholding	
	•	Crop yield/	
		Income of land leasers	
1974	Individual	- Education Occupation	
	Family	- House structure	
		House-space	
		Land yield (5%)	
	Receive remi	ttance f radio;watch	,
		uilt, cow, boat,	
1980	Same as 1974		

Table II

Year	Study	Type of subjects	Age	Villages
1968	Census/Some SES	All	All	NTA
1970	Census/Some SES	A11 ·	A11	OTA
1970	Quak Stik	Children	1 - 9	21 (B,C,H,S,U,W V3,V5,V6,V10 V12,V22,V24,V25, V27,V28,V29,V30, V35,VB3,DO)
1974	Census/SES	A11	A11	A11
1976	Postpartum	Lactating mothers	15-44	80 (Control villages in contraceptive Distribution Program)
	Amenorrhea	Children	1 - , 2	
1978/ 1979	Oral Rehydration	Children	1 - 4	
	- Labon gur			9(\$,V18,V19,V20, V22,V52,V55,V83, VB12)
	- Packet	· · · · · · · · · · · · · · · · · · ·		11(M,N,O,V10,V28, V31,V39,V59,V62, V88,D101)
	- Control		•	S(A.J.U.V8,V51, VB9,VB10).

Table III

Some characteristics of selected pilot study villages

Village	No.c	No.of subjects in study				
	Total popu- lation "79	Percent Muslim	Distance for hos- pital			
s hs	1024	39.4	7 miles			
U	6342	80.1	Within 1 mile			
V 10 HS	1261	100.0	2 miles			
V 24 HS	2212	92.3	6 miles			
V 28 HS	1095	72.0	7 miles			

Verbal Consent Statement

The International Centre for Diarrhoeal Disease Research, Bangladesh (formerly Cholera Research Laboratory) is planning to collect information on socio-economic status of nouseholds of Matlab DSS area. We will collect information on education, occupation and ownership of household members. You will be asked some questions relating to the above variables and it will be treated as confidential. Please note that you will not be paid. You may, at any time, refuse to answer questions. If you have any questions we will try to answer them.

Do you have any questions now?

Do you agree to participate?

মেখিক ব্যমাতি প্র

च्यामुक्रां िक देवान्य जातकमा क्रम् (धान्य कल्यून व्यां भाष्यवृद्धि।) आक्रमा क्रिक्र केर्यु प्राथित क्रिक्र क्र क्रिक्र क्र क्रिक्र क्र क्रिक्र क्रिक्र क्र क्र क्र क