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NEPAL VITAMIN A CHILD SURVIVAL PROJECT

OPERATIONS RESEARCH STUDY ON VITAMIN A
INTERVENTIONS IN NEPALESE CHILDREN,
INCLUDING XEROPHTHALMIA
AND COST-EFFECTIVENESS OF VARIOUS APPROACHES

QUARTERLY REPORT VIII

December 29, 1989 - March 28, 1990

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The University of Michigan
Ann Arbor, Michigan

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This report covers the work and progress on the University of Michigan's School of Public Health contract on improving vitamin A status in Nepalese children at a reasonable cost. The contract is supported by the Asia Near East Bureau, U.S. Agency for International Development and the Public Health Service, U.S. Department of Health and Human Services (Contract No. 282-88-0040).

QUARTERLY GOALS

1. Complete analysis of the first round of monitoring and feedback results to the CHMs.
2. Complete design of forms and data entry programs that will be used in the second round of examinations
3. Finalize the process indicator forms for the second round of monitoring and make any necessary adjustments for data entry procedures.
4. Continue analysis of baseline data into more advanced levels.
5. Begin training plans for the second round of examinations and anthropometric measurements.
6. Finalize collection of data in 2nd program monitoring cycle, and begin descriptive analysis.
7. Review the use of the in-kind ophthalmic materials donated to the project to check if there are being used appropriately.
8. Continue logic checks in data structure of 1st year.

ACTIVITIES UNDERTAKEN:

The program activities were spread between Ann Arbor and Kathmandu during this quarter. The evaluation director, Dr. G.P. Pokharel, spent much of this time in Ann Arbor working with project staff doing the preliminary descriptive data analysis, so that the survey instruments from the 1st year could be modified, and updated. All the basic questions were included in the 2nd years forms, however, some of the categorical responses were modified to reflect the distribution of responses seen during the first year. Copies of the second year's forms are included in appendix A organized by the level they are designed for:

- 1) site level form,
- 2) ward level form,
- 3) household level form (including KAP form), and
- 4) individual level form.

The analysis of the 1st monitoring round showed that in general the interventions were being well accepted. by the community, the problems that were noted, were usually concentrated in a few communities. Increased supervision, a round of refresher training, and the inclusion of additional community health motivators was the response of the vitamin A Child Survival project to these problems. A description of the results of the 1st monitoring cycle is included in appendix B.

The data entry program for the second year of measurement was developed during this quarter. It was worked on both in Ann Arbor, and also in Kathmandu. Data entry staff in Kathmandu were trained in its use. Household list will be generated from the 1st year's household forms for guidance for the teams in the field. The corrections noted on these sheets will then be used in the corrections of the 1st year measurements. The forms, and data entry program documentation is in appendix C.

The 2nd program monitoring exercise took place during this quarter. Initial review of the data indicates that program performance is continuing to improve. A more detailed analysis will be completed during the next quarter.

During this quarter, the data entry for the baseline survey was completed. Preliminary analysis was done for rough counts by sites, intervention, and ocular status. Different types of data problems were identified, and the data entry staff spent this quarter on data cleaning.

The training schedule for the field teams was established, and different potential trainers were contacted for participation. Different team leaders, lab staff, and program managers went to the Center for Research and Development in Nutrition in Bogor, Indonesia for refresher training during February.

PROBLEMS

- 1) Political upheaval in Kathmandu did not directly affect the field portion of the Vitamin A Child Survival Project. However; the central office work (which is primarily data entry/cleaning) schedule was disrupted. The visit of Dr. Hawks, and Dr. Sugar from the University of Michigan was during some the most intense of the political upheavals.
- 2) The Disvi portion of the budget was not yet received during this quarter, which caused some reduction in the intensity of the field activities due to the need to conserve an adequate balance of Unicef funds for supporting field activities.
- 3) Prof Grosse while working over the cost information, found that many of the cost elements had not been correctly attributed to specific interventions, and there is a need to review the cost element files and determine which of the interventions specific cost items should be attributed to.
- 4) Cars and computers have limited spare parts, and to keep all the equipment working correctly is sometimes difficult.

PLANS FOR NEXT QUARTER

In the next (ninth) quarter of the program, we hope to:

- 1) Complete the analysis on the baseline characteristics of the population.
- 2) Check for randomization failure by checking primary populations characteristics by intervention.
- 3) Start training of the enumerators for the 2nd baseline survey.
- 4) Complete the analysis of the second program performance monitoring activity.
- 5) Determine if there is interest in supporting the project through a second year of field work.
- 6) Beta-test the data entry system developed for the 2nd baseline survey.

APPENDIX A

FORM NO. 10
REV 02
18-05-90

WARD FORM

SITE NO.
WARD NO. ..

DATA ENTRY NO.

DATE ENTERED

-
1. Name of respondent : NAME (C-20)
2. Respondent's position in the village : POSITION (1-5)
1. Pradhan Panch
 2. Ward chief
 3. Ward number
 4. Teacher
 5. Other respected person from the ward
3. Do you have a health post from the ward ? HP (1-2)
1. YES or 2. NO
- 3a. IF NOT, how long does it take to reach the nearest health post ? HPDIST (1-5)
1. Less than one hour
 2. 1 hour to 2 hours
 3. 2 hours to 4 hours
 4. 4 hours to 6 hours
 5. more than 6 hours
- 3b. How long this health post has been functioning ? _____ Yrs. HPLONG (1-20)
4. Does nay VHM work in your ward ? VHW (1-2)
1. YES or 2. NO
- 4a. IF YES, how often does the VHM visit your village ? VHWFREQ (1-5)
1. Once a week
 2. Once a fortnight
 3. Once a month
 4. Once in two months
 5. Does not come
5. Does any CHM look in this ward ? CHM (1-2)
1. YES or 2. NO
- 5a. Is the CHM working in this ward helpful ? CHMHELP (1-2)
1. YES or 2. NO
- * Question no. 5 not to be filled for symptomatic treatment
- 6

6. Do you have a motorable road near your village? ROAD (1-2)

1. YES or 2. NO

6a. IF NO, how long does it take to reach this road by walking?

- 1. One half hour to one hour ROADWALK (1-5)
- 2. One to two hours
- 3. Two to four hours
- 4. Four to six hours
- 5. More than six hours

7. Do you have any public transport in your village? PUBLIC (1-2)

1. YES or 2. NO

7a. IF NO, how long does it take to reach the nearest public transport system? PUBLICWALK (1-3)

- 1. One half hour to one hour
- 2. One to two hours
- 3. Two to four hours
- 4. Four to six hours
- 5. More than six hours

8. Is there a primary school in this ward? PSCHOOL (1-2)

1. YES or 2. NO

8a. IF NO, how long does it take to reach the nearest primary school? PSWALK (1-4)

- 1. Less than one half hour
- 2. One half hour to one hour
- 3. One to two hours
- 4. More than two hours

9. Does this ward have electricity in the houses? ELECTRICAL (1-2)

1. YES or 2. NO

10. Which of the following programs have been implemented in your ward?

1. YES or 2. No. 3. Yes but not functioning

a. Drinking water project	_____	WATER	(1-2)
b. JNSP program	_____	JNSP	"
c. Sulabh latrine program	_____	LATRINE	"
d. Women's development program	_____	WOMEN	"
e. Small credit program (Bank or Co-operative agencies)	_____	CREDIT	"
f. Adult literacy program	_____	LITERATE	"



11. Do you think the village people are supporting this program ?

HELP (1-2)

1. YES or 2. NO

11a. IF NO, why ?

NOHELP (1-5)

1. They do not want to get involved
2. They do not trust outsiders
3. Bad experience from other projects
4. They do not understand how project will benefit children
5. Other reason _____

NOHELPS (1-20)

12. In the last three years was there any epidemic due the following ?

1. YES or 2. NO

- | | | |
|------------------------------|---------|-------|
| 12a. Measles | MEASLES | (1-2) |
| 12b. Gastroenteritis | GI | " |
| 12c. Diarrhoea/Dysentry | DIA | " |
| 12d. ARI | ARI | " |
| 12e. Malaria | MALARIA | " |
| 12f. Meningitis/Encephelitis | MEHN | " |

13. Are the following crops grown in your village ?

1. YES or 2. NO

- | | | | | | |
|--------------|---------|-------|----------------|--------|-------|
| 13a. Rice | RICE | (1-2) | 13b. Maize | MAIZE | (1-2) |
| 13c. Barley | BARLEY | " | 13d. Wheat | WHEAT | " |
| 13e. Millet | MILLET | " | 13f. Pulses | PULSES | " |
| 13g. Mustard | MUSTARD | " | 13h. Sugarcane | SUGAR | " |

14. Are the following fruits and vegetables grown in your village ?

1. YES or 2. NO

- | | | | | | |
|-----------------------|--------|-------|-------------------------------|--------|-------|
| 14a. Green vegetables | GLV | (1-2) | 14b. Yellow/orange vegetables | YELL | (1-2) |
| | | | (eg. pumpkin, carrot) | | |
| 14c. Potato | POTATO | " | 14d. Mango | MANGO | " |
| 14e. Papaya | PAPAYA | " | 14f. Orange | ORANGE | " |

15. Does your ward have a permanent or weekly/fortnightly market ?

MARKET (1-2)

15a. IF NO, how much time does it take to reach the nearest permanent or weekly/fortnightly market ?

MARKETWA (1-5)

1. Less than one hour
2. One to two hours
3. Two to four hours
4. Four to six hours
5. More than six hours

OBSERVE THE MARKET AND FILL OUT THE FOLLOWING:

16. How many shop in this market are selling food items ?
 Are the following food items available in the market ?

SHOPS (1-358)

1. YES 2. NO

17. STAPLE FOODS

17a. Rice — RICEI (1-2)
 17b. Maize — MAIZEI "
 17c. Wheat — WHEATI "

18. CEREALS :

18a. Black grams — GBRAINSI (1-2)
 18b. Soya beans — SOYAI "
 18c. Pulses — PULSEI "

19. GREEN VEGETABLES:

19a. Rayo ko saag — RAYOI (1-2)
 19b. Tori ko saag — TOEI "
 19c. Spinach — SPINI "
 19d. Onion leaves — ONONI "
 19e. Other green vegetable GVEGI "

20. OTHER VEGETABLES:

20a. Cauliflower — CAULI (1-2)
 20b. Cabbage — CABB I "
 20c. Pumpkin — PUMPI "
 20d. Cucumber — CUMEI "
 20e. Tomato — TOMI "

Specify : GVEGSP (C-20)

21. MILK AND MILK PRODUCTS

21a. Milk — MILMI (1-2)
 21b. Skimmed Milk powder — SKIMI "
 21c. Butter — BUTTERI "
 21d. Ghee — GHEEI "

22. ROOTS

22a. Potato — POTATOI (1-2)
 22b. Radish — RADISHI "
 22c. Carrot — CARROTI "
 22d. Yam — YAMI "
 22e. Onion — ONONI "

23. FRUITS

23a. Mango — MANGI (1-2)
 23b. Banana — BANANI "
 23c. Papaya — PAPAYI "
 23d. Orange — ORANBEI "
 23e. Apple — APPLEI "
 23f. Peach — PEACHI "
 23g. Guava — GUAVAI "
 23h. Jack fruit — JACKI "
 23i. Apricot — APRICOTI "
 23j. Water Melon — WATMEI "
 23k. Lemon — LEMONI "

24. MEAT

24a. Goat meat — GMEAT (1-2)
 24b. Buffalo Meat — BMEAT "
 24c. Chicken — CHICKI "
 24d. Pig meat — PIGI "
 24e. Fish — FISHI "

25. MISCELLANEOUS

25a. Veg. oil — VOIL (1-2)
 25b. Biscuits — BISC "
 25c. Spices — SPICE "
 25d. Bread — BREAD "
 25e. Specify — OTHERI "

OTHEASPEC (C-20)

FORM NO. 20

REV 04

18-01-90

B/S - 2

HOUSEHOLD FORM

SITE NO.

WARE NO.

HOUSEHOLD NO.

ENUMERATOR NO.

DATA ENTRY NO.

DATE ENTERED

1. Name of respondent : RESPNAME (C-20)

(resident of the House hold)

2. Name of head of household: HHNAME (C-20)

2a. Age _____ Yrs. HHAGE (10-85)

3. Household caste HHCASTE (1-27)

- | | | | |
|--------------|-----------------------|------------------|-----------------|
| 1. Brahmin | 8. Sherpa/Bhutiya | 15. Kumal | 21. Teli |
| 2. Chhetri | 9. Darai | (Padit) | 22. Harijan |
| 3. Newar | 10. Damai | 16. Yadav (Ahir) | 23. Kewat |
| 4. Magar | 11. Tharu (Ohaudhary) | 17. Muslim | 24. Barai |
| 5. Gurung | 12. Sharki | 18. Kalwar | 25. Hajam |
| 6. Tamang | 13. Bishwakarma | 19. Kanu | 26. Lonia |
| 7. Rai/Limbu | 14. Parja | 20. Koiri | 27. Other _____ |

4. Do you have children under 11 years old living in this household ? CASTESP (C-20)

1. YES or 2. NO

UNDER11 (1-2)

IF NO Stop the interview

5. Total No. of mothers with children under eleven ? MOMOMS (1-3)

6. Total No. of children under the age of eleven ? NOHIDS (1-15)

7. Census of mothers and children. (check with the household list)

7a. Mom No.	7b. Name	7c. Enum First time Last year - 1 This year - 2 <u>ENUM (1-2)</u>	7d. No. of children from last year <u>MIDSLST (99)</u>	7e. No. of children this year <u>MIDSTHIS (99)</u>
<u>MOMNO1-7 (9)</u>	<u>MOMNAME1-7 (C-16)</u>	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

8. Has there been any death of child under eleven in this family in the past year after our visit ? DEATHS (0-8)

(Enter the number of child deaths. If none, than enter '0')

If yes fill out mortality, verbal autopsy form for each child.

QUESTIONS REGARDING WATER AND SANITATION

9. Wherer do you fetch your water from ?

FETCH (1-8)

- | | |
|-----------------|-------------------------|
| 1. Tap | 2. Tube Well/Water pump |
| 3. Shallow well | 4. Pond |
| 5. Open spring | 6. Pandero |
| 7. Stream/River | 8. Other |

Specify: FEKHSP (1-20)

10. Is this water source owned by your household ?

WATOWN (1-2)

1. YES or 2. NO

11. How far is the water source from the house ?

FAR (1-4)

- | | |
|---|---------------------------------------|
| 1. Less than 10 minutes walk
(very near) | 2. 10 - 20 minutes
(nearby) |
| 3. 21 - 40 minutes walk
(far away) | 4. More than 40 minutes
(very far) |

12. How many times is the water fetched each day ?

TIMES (1-3)

- | | |
|-----------------------|-----------------|
| 1. Less than 5 times | 2. 6 - 10 times |
| 3. More than 10 times | |

13. What is used to Fetch water ?

CONT (1-5)

- | | |
|----------------------|---------------------------------|
| 1. Pitcher (Gagro) | 4. Dhungro (woodenpot) |
| 2. Bucket | 5. Specify <u>CONTSP (1-20)</u> |
| 3. Bucket with cover | |

14. Is there a drainage problem (stagnant, dirty water) around the water source ?

DRAIN (1-3)

1. YES or 2. NO 3. N.A.

HOUSEHOLD INCOME/EXPENDITURE AND WEALTH

22. Do you own this house ?

DWNH14 (1-2)

1. YES or 2. NO

23. Observe the house. Is it pucca (1) or Kachha (2) ?

TYPE (1-2)

24. Does this family own any land ?

OWNLAND (1-2)

1. YES or 2. NO

24a. IF YES, how much does this family own in total ?

(AMT LAND - 9999)
- Standardized to
units of Bigha
from 24a.

(Fill in one of the following)

ROPANI (1/15)

a. Ropani ROPANI (999) b. Ana ANA (999)

ANA (1/20)

BIGHA (1/1)

a. Bigha BIGHA (999) b. Katha KATHA (99) Dhur DHUR (99)

KATHA (1/20)

DHUR (1/40)

24b. Does the household generate income from the land ?

INCLAND (1-2)

1. YES or 2. NO

24c. If yes, is the income adequate to suppt the family ?

INCLADEQ (1-2)

1. YES or 2. NO

25. Do you, or any other member of the family work outside to increase

WORK (1-2)

income of the family ?

1. YES or 2. NO

IF YES, enter up to three of the following as applies:

25a. _____

25b. _____

25c. _____

WORK1 (1-8)

WORK2 "

WORK3 "

1. Work in other person's land

2. Own a shop

3. Work in the factory

4. Teaching work

5. Government office

6. Skilled laborer

7. Servant of other household

8. Other

Specify WORKSP (1-2)

26. Do you have a kitchen garden ?

GARDEN (1-2)

1. YES or 2. NO

26a. If yes, do you consume all the vegetable grown in the kitchen garden ?

1. All Consumed

2. Consumed as well as sold

CONSUME (1-3)

3. All sold

26b. If 1 or 2, is the vegetable consumed from the garden enough for the family ?

1. YES or 2. NO

CONSIDER (1-2)

13

27. How much money do you spend on buying vegetable from the market in one week ?

MONEY (1-4)

- | | |
|---------------------|---------------------|
| 1. Less than Rs. 10 | 2. Rs. 11 to Rs. 30 |
| 3. Rs. 31 to Rs. 50 | 4. Rs. 51 and above |

28. Does this family own livestock ?

LIVEST (1-2)

1. YES or 2. NO

28a. IF YES enter the number of the following livestock:

- | | |
|-----------------------------|-------------------------------|
| (i) Cow <u>COW</u> (99) | (v) Buffalo <u>BUFF</u> (99) |
| (ii) Goat <u>GOAT</u> " | (vi) Sheep <u>SHEEP</u> " |
| (iii) Pig <u>PIG</u> " | (vii) Ducks <u>DUCKS</u> " |
| (iv) Chicken <u>CHICK</u> " | (viii) Other <u>OTHLIVE</u> " |

Specify LIVESP (1-20)

THANK THE RESPONDENT FOR PARTICIPATING IN THE INTERVIEWS.

FORM NO. 22
REV 01
17-03-90
B/S - 2

MOTHER FORM

SITE NO.
WARD NO.
HH NO.
MOM NO.

DATA ENTRY NO. _____

DATE ENTERED / /

-
1. Name of mothers: MOMNAME (1-20)
2. Was she enumerated last year ? ENUM (1-2)
(check from HH list)
1. YES or 2. NO
2a. IF YES, Mother Number from last year _____
2b.. IF NO, Enter new mother number _____
(enter number above)
3. Age of Mother (in years) AGEMOM (10-80)
4. Is the mother listed above, the respondent ? MOMRESP (1-2)
1. YES or 2. NO
4a. IF NO, why not NGBESP (1-4)
1. Does not stay at house now
2. Not available at present
3. Died
4. Does not want to talk to strangers
5. Is mother literate (knows how to read and write ? LIT (1-2)
1. YES or 2. NO
5a. IF NO, is she attending adult literacy classes ? LITCLASS (1-2)
1. YES or 2. NO

6. List the number of children mother has under 14 years

NONHDS (0-15)

6a. Name	6b. I, D		6c. Sex	6d. Age		
	Last	This		1 = Male 2 = Female	Yrs	Mth
	Year	Year				

- 6e. Status
1. Under 10 yrs
 2. Moved out
 3. Died
 4. Newborn
 5. Moved in
 6. Miscoded
 7. Present

IF THE MOTHER IS THE RESPONDENT, ASK THE FOLLOWING QUESTIONS.

7. Have you heard of Vitamin 'A' ? HEARD (1-2)

1. YES or 2. NO

7a. IF YES, is Vitamin 'A' important for child's health ? IMPORT (1-2)

1. YES or 2. NO

7b. IF YES, is Vitamin 'A' available from usual foods eaten ? FOOD (1-2)

1. YES or 2. NO

7b(i) IF YES, which of the following foods provide Vitamin 'A' ?

1. YES or 2. NO (Answer for all)

- | | |
|---------------------------|---------------------------|
| 1. DGLV <u>DGLV</u> (1-2) | 4. Egg <u>EGG</u> (1-2) |
| 2. Rice <u>RICE</u> " | 5. Meat <u>MEAT</u> " |
| 3. Fruits <u>FRUITS</u> " | 6. Potato <u>POTATO</u> " |

7b(ii). IF YES, do you feed your kids any of the above foods which contain Vitamin 'A' ? FEED (1-2)

1. YES or 2. NO

7b(iii) What is the cheapest and best source of Vitamin 'A' in food ? SOURCE (1-6)

~~1. YES or 2. NO~~ X

- | | |
|---------------------|---------------------|
| 1. DGLV <u> </u> | 4. Egg <u> </u> |
| 2. Rice <u> </u> | 5. Meat <u> </u> |
| 3. Fruits <u> </u> | 6. Potato <u> </u> |

8. Do all of your children eat DGLV ? EATDGLV (1-2)
 1. YES or 2. NO¹
- 8a. IF NO, why do they not eat ? NODGLV (1-4)
 1. They do not like the taste
 2. Not available
 3. Too costly
 4. Specify NODGLVSP (C-20)
9. Are DGLV available in the wild and in the forest ? WILD (1-2)
 1. YES or 2. NO
- 9a. IF YES, Do you gather DGLV from the wild ? GATHER (1-2)
 1. YES or 2. NO
- 9b. IF YES, Do the children eat DGLV from wild ? EATWILD (1-2)
 1. YES or 2. NO
10. Do you breastfeed your child now ? BREAST (1-2)
 1. YES or 2. NO
 (IF YES, answer the following questions, else go to 11)
- 10a. Do you eat more, less or normal when breastfeeding ? EATAMT (1-3)
 1. More 2. Less 3. Normal
- 10b. Do you feed your child anything else when breastfeeding ? EATELSE (1-2)
 1. YES or 2. NO
- 10c. Do you breastfeed your child as usual when she/he ^{has} diarrhoea? FEEDDIA (1-2)
 1. YES or 2. NO
11. Do you feed colostrum to your newborn child ? COLOS (1-2)
 1. YES or 2. NO
- 11a. IF NO, why not ? COLOSNO (1-3)
 1. Not a healthy food
 2. Age old custom/tradition forbids
 3. Specify COLNO5P
12. Do you eat more, less or normal when pregnant ? EATPREB (1-3)
 1. More 2. Less 3. Normal
13. Do you think that weight of your child should increase every month ? WEIGHT (1-2)
 1. YES or 2. NO
- 13a. IF YES, Do you take her/him for weighing each month ? MEASURE (1-2)
 1. YES or 2. NO
- 13a(1) IF NO, why not ? NOMEAS (1-5)
 1. No weighing session held in village
 2. Do not like the CHM
 3. Too busy to attend
 4. Weighing is not important
 5. Specify NOMEASSP (C-20)

DATA ENTRY NO. _____

CHILD FORM

SITE NO. _____

DATE ENTERED / /

HH NO. _____

MOTHER NO. _____

CHILD NO. _____

Statut Code

1. Name of the child: MIDNAME (C-20)

1a. Completed age Yer _____ Month ABEYAS (8-12) ABEMTH (0-11)

2. Respondent's relation to child _____ SEX (1-2)

- | | | |
|------------------------------|------------------|-----------------------|
| 1. Mother | 5. Grand mother | <u>RELATION (1-9)</u> |
| 2. Father | 6. Brother | |
| 3. Uncle | 7. Sister | |
| 4. Grand father | 8. Sister in law | |
| 9. Other <u>RELSB (C-20)</u> | | |

3. Has the child recieved Vitamin 'A' Capsule? VITA (1-3)

1. YES 2. NO 3. Do not know

3a. If yes, how many capsule? _____ VITAND (1-7)

(Write no. of capsule taken in last one year)

4. Has the child recieved deworming tablets. ? WORM (1-3)

1. YES 2. NO 3. Do not know

4a. If yes, How many times the child has been dewormed? DEWORM (1-7)

(Write no. of times in last one year)

5. Did this child ever had severe diarrhoea in last one year ? DIA (1-2)

1. YES 2. NO

5a. If yes, did he take Jeevan Jal? _____ JJ (1-2)

1. YES 2. NO

6. Did the child ever had ARI (Cough with fever) in the last one year ? _____ ARI (1-2)

1. YES 2. NO

6a. If yes, did he take cotrimaxazole tablet as treatment? COTRI (1-2)

1. YES 2. NO

7. Immunisation Status.

DPT (no of dose 1,2 or 3) _____ DPT (1-3)

Polio (no of dose 1,2 or 3) _____ POLIO (1-3)

Measles (1. YES 2. NO) _____ MEAS (1-2)

7a. ^{If do not know enter -9} If not fully immunised why? _____ IMMNO (1-8)

1. Do not know about Immunisation necessary
2. Too busy during immunisation time
3. Did not know that second and third dose necessary
4. Afraid of bad effects
5. Child was ~~sick~~ too young
6. Brought sick child, Immunisation refused
7. Long que and too crowded
8. Others specify IMMNO SP (C-20)

Enum. No. _____

Cross checked by _____

MORTALITY/VERBAL AUTOPSY FORM

SITE NO.

HH NO.

MOM NO. MOMMO

CHILD NO. MIDND

1. Name of respondent _____

2. Relation of respondent to the child ?

- 1. Mother
- 2. Father
- 3. Uncle
- 4. Aunt
- 5. Brother
- 6. Grand mother
- 7. Grand father
- 8. Sister
- 9. Sister in law
- 10. Other specify RELSP (C-20)

RELATION (1-10)

3. Name of the child MIDNAME (C-20)

4. No. assigned last Yr. ?

5. If it was wrongly coded last year, no, assigned this year ?

6. Age at which the child died ? Yrs. YRS DIED (0-12) months. MT DIED (0-11)

7. Date of death

--	--

 Day

--	--

 Mo.

--	--

 Yr. DATEDIED (Date)

(Write whichever they recall)

8. How long the child was sick before death ? SICKDUR (1-3)

- 1. Acute illness (Within 7 days)
- 2. Chronic illness (More than 7 days)
- 3. Trauma (accident)

9. Did the child have any of the following conditions in two months prior to death ? 1. YES. 2. NO (List all)

- | | | |
|---|--|---|
| <p>SEV DIA MEASLE</p> <p>FEVER BLACK</p> <p>DIA NIGHT</p> <p>BREATH TETANUS</p> <p>COUGH OTHER</p> <p>(1-2)</p> | <p>1. Severe diarrhoea ? <input type="checkbox"/> (Loose watery stool)</p> <p>2. High fever ? <input type="checkbox"/></p> <p>3. Diarrhoea vomiting ? <input type="checkbox"/></p> <p>4. Difficulty in Breathing <input type="checkbox"/></p> <p>5. Severe cough with fever ? <input type="checkbox"/></p> | <p>6. Measles? <input type="checkbox"/></p> <p>7. Black of the eye turning white and child unable to open eyes? <input type="checkbox"/></p> <p>8. Night blindness <input type="checkbox"/></p> <p>9. Tetanus signs (Lock Jaw, staff necr. etc.) <input type="checkbox"/></p> <p>10. Other specify <u>SYMPSP (C-20)</u></p> |
|---|--|---|

10. Was treatment sought ? 1. YES 2. NO TREAT (1-2)

10a. If yes, for which of the illness Listed above.

List maximum three 1. TREAT1 ii. TREAT2 iii. TREAT3 (1-10)

FORM NO. 3

REV 02

19-3-90

B/S - 2

AND
DIARRHOEA AND DISEASE KAP

SITE NO.

HH NO.

MOM NO.

DATA ENTRY NO.

DATE / /

1. Whenever your child had diarrhoea do you give the child more water than usual? WATER (1-2)

1. YES 2. NO

1a. If no, why not?

NOWATER (1-5)

- 1. Water will increase diarrhoea
- 2. It is the custom.
- 3. Water will make the child more serious.
- 4. Advice of Dhama/Jhankri.
- 5. Others specify NOWATERSP (C-20)

2. What is the amount of food your child eats when he/she has diarrhoea?

FOOD (1-3)

- 1. Same as usual.
- 2. Less than usual.
- 3. More than usual.

3. Do you give Jeevanjal when the child has severe diarrhoea? JS (1-2)

1. Yes 2. No

3a. If no why?

NOJS (1-4)

- 1. Never heard of Jeevan Jal.
- 2. Jeevan Jal not available.
- 3. Child does not like Jeevan Jal.
- 4. Jeevan Jal too costly.

3b. If yes from where do you get Jeevan Jal? WHEREJS (1-4)

- 1. CIM
- 2. Health post
- 3. Village medical shop.
- 4. Hospital

10b. If yes, who provided treatment ?

1. YES 2. NO

1. CHM CHM (1-2) 5. Hospital Doctor HOSP (1-2)
2. Local practitioner LOCAL " 6. Dharm Jhakri DHAMI "
3. Health post personnel HP " 7. Other specify OTHREAT "
4. Private doctor DOCTOR " TREATSP (1-20)

10c. If yes, where was treatment provided ?

1. YES 2. NO YES

1. Home — HOME (1-2)
2. Hospital — HOSPITAL "

11. Was any diagnosis given ?

(probable cause of death)

1. YES 2. NO

1. Diarrhoea/dehydration DEHY (1-2)
2. Pneumonia PNEU "
3. Gastroenteritis (cholera) GI "
4. Measles MEAS "
5. Tetanus TET "
6. Encephelitis/Meningitis ENC "
7. Other specify _____ OTHDIAG "

DIAGSP (1-20)

Cross checked by

Office use

12. Cause of death ?

CAUSE (1-2)

1. Can be ascertained 2. Can not be ascertained.

12a. If can (List from Q. 11)

CAUSE (1-7)

3c. If yes, how much Jeevan Jal do you give to your child above the age of two, at a time ?

1. One spoon full.
2. Quarter glass (50 ml).
3. Half glass. (100 ml).
4. One glass (200 ml) .

JEEVAN (1-4)

3d. If yes, How frequently do you give ?

1. Once a day.
2. Thrice a day.
3. Four times a day.
4. More than six times.

JJFRQ (1-4)

4. Do you know how to make "Noon, chini, Pani" ?

1. Yes
2. No

NOON (1-2)

5. Has CHM ever demonstrated to you how to make "Noon, Chini, Pani" ?

1. Yes
2. No

NOONDEMO (1-2)

5a. If no, why ?

1. CHM never held any demons.
2. No time to attend the demons.
3. Do not like the CHM.
4. Others specify NODEMASP (1-2)

NODEMO (1-4)

6. What other medication do you give to your child when he/she has diarrhoea ?

1. Doctor's medicine.
2. Dhami / Jhankri, Traditional healers.
3. Household medicine
4. Mantra.
5. Others specify DIAMEDSP (1-2)

DIAMED (1-3)

7. Have you heard about Night Blindness (Enumerator explains Night Blindness due to Vit. 'A' Def. to mothers) ?

1. Yes
2. NO

NIGHT (1-2)

7a. If yes, in your opinion which of the following cures the condition ?

1. Using Eye Ointment.
2. Dhami/Jhankri/Traditional medicine.
3. DGLV.
4. Yellow fruits and Vegetables.
5. Vitamin 'A' Capsule.

NIGHTCA (1-5)

8. Have you seen Bitot spot (Enumerator to explain and shows photographs of white cheesy bubbles occurring in children's eyes) or have you heard about it? BITOT (1-2)

1. Yes 2. No

8a. If yes, which of the following cures the condition?

1. / Using Eye Ointment.
2. Dhami/Jhankri/Traditional Medicine. BITORE (1-5)
3. DGLV
4. Yellow fruits and vegetables.
5. Vitamin 'A' Capsules.

9. Where do you take your child for treatment when he/she becomes ill?

1. Treat at home TREAT1 (1-6)
2. Health post/Hospital
3. Local practitioner
4. Dhami/Jhankri/Traditioner Healer.
5. CHM
6. Other TREAT1SP (1-20)

10. If child does not get better or the condition becomes worse where do you take next? TREAT2 (1-6)

1. Treat at home
2. Health Post/Hospital
3. Local practitioner
4. Dhami/Jhankri/Traditioner Healer.
5. CHM
6. Other TREAT2SP (1-20)

11. In the last one year have you taken any of your children to Hospital or Health Post? HOSP (1-2)

1. Yes 2. No.

FORM NUMBER 42

REV 01

16-03-90

B/S - 2

MORBIDITY FORM

SITE NUMBER _____

HOUSE NO. _____

MOTHER NO. _____

CHILD NO. _____

DATA ENTRY NO. _____

DATE ENTERED _____

1. Name of child: _____

2. Does child have fever? .. YES or 2. NO ARI (1-2)

3. Has the child been coughing in the past two weeks? .. YES or 2. NO COUGH (1-2)

3a. IF YES, does child have a cough now? 1. YES or 2. NO COUGHNOW (1-2)

4. Child's breathing rate: 1. Less than 20 per minute BREATH (1-4) 2. 20 to 50 per minute 3. 51 to 70 per minute 4. Over 70 per minute

5. Does child have indrawing of the chest? 1. YES or 2. NO INDRAW (1-2)

** CHRONIC RESPIRATORY INFECTION **

6. Does child have cough of more than four weeks duration? LONGCOF (1-2)

7. Is there wheezing? WHEEZ (1-2)

8. Is there low grade fever? LGFEVER (1-2)

9. Does child have night sweats? ~~1. YES or 2. NO~~ SWEAT (1-2)

10. Has child had a loss of appetite? APP (1-2)

11. Is there a history of asthma? ASTHMA (1-2)

** MEASLES **

12. Does child have measles? MEASLE (1-2)

1. YES or 2. NO

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**** DIARRHEA ****

13. Is child currently having an episode of diarrhea? DIA (1-2)

1. YES OR 2. NO

**** IF YES, answer 13a - 13f. ****

13a. How long has this episode lasted? DIADUR (1-60)
Number of days

13b. What is the frequency of stools? DIAFREQ (1-20)
Number per day

Does child have:

13c. Sunken eyeballs? SUNKEN (1-2)
1. YES or 2. NO

13d. Dry skin? DRYSKIN (1-2)
1. YES or 2. NO

13e. Loose skin? LOOSE (1-2)
1. YES or 2. NO

13f. Dry tongue? TONGUE (1-2)
1. YES or 2. NO

Form NO - 40
REV 03
19-3-90

CLINICAL FORM

SITE NO. :
HOUSE NO. :
MOTHER NO. :
CHILD NO. :

1. Name of the child: _____

2. Visual Acuity ?
1. Normal
2. Low (Less than 6/60)
3. NPL (blind)
4. Could not determine
RE LE
ACUTYE ACUTYL
(1-4)

3. Signs of xerophthalmia ?
1. YES 2. NO
IF YES, complete Case/control form.
IF NO, go to No. 8
SIGNR SIGNL
(1-2)

4. Bitot's spots ?
1. YES 2. NO
4a. IF YES,
1. Temporal
2. Nasal
3. Both
BITR BITL (1-2)
BITRTN BITLTN (1-3)

5. Corneal xerosis?
1. YES 2. NO
5a. IF YES,
1. All cornea
2. Mainly inferior
XER XEL (1-2)
XEINR XEINL (1-2)

6. Corneal Ulceration?
1. YES 2. NO
CUR COL (1-2)

7. Keratomalacia?
1. YES 2. NO
KER MEL (1-2)

8. Corneal scars?
1. YES 2. NO
SCR SCL (1-2)

IF YES, is there a history of:

8a. Trauma 1 YES 2. NO
TRA TRA (1-2)

(Enquire about history of trauma with finger nails, sand paddy leaf wooden twigs etc.)

8b. Sticky, painful red eyes before scars?
1. YES 2. NO
RED (1-2)

The examiner explains nightblindness:

9. Does this child have history of nightblindness?
1. YES 2. NO
HIS (1-2)

10. Is the child suffering from ARI, diarrhea, or measles now or in last 2 week?
IF: YES, fill out morbidity form.
SUFF (1-2)

XEROPHTHALMIA CASE AND

MATCHED CONTROL

SITE NO. _____
HOUSE NO. _____
MOTHER NO. _____
CHILD NO. _____

FORM NO. 41

DATA ENTRY NO. / /

DATE ENTERED / /

1. Name Not Entered

1a. CHILD'S SEX CLINSEX (1-2)

1. M or 2. F

2. TYPE OF XEROPHTHALMIA 1. X1B 11. X2 111. X3A iv. X3B TYPE (1-4)

3. WEIGHT CLINWT (99.9) KG 4. HEIGHT CLINHT (99.9) CM

1a. YRS CLINYRS (0-12) 4b. MPH CLINMPH (0-11)

5. MEASLES ? CLINMEAS (1-5)

6. SEVERE DIARRHEA? CLINDIA " 1. Never had

7. SEVERE COUGH ? CLINCOUGH " 2. Within week

8. FEVER ? CLINFEN " 3. Past month

9. EXPULSION OF WORMS IN FACES ? CLINWORM " 4. More than one month ago

10. PERIOD OF ACUTE FOOD SHORTAGE IN THE FAMILY CLINFOOD " 5. Cannot remember

11. When did he caregiver first notice the eye signs ? SIGNS (1-8)

- 1. Within past few days
- 2. Within past week
- 3. Within past 2 week
- 4. within past month
- 5. Within past 6 months
- 6. More than 6 months
- 7. Cannot remember
- 8. Has not noticed

12. Does the child eat green leafy vegetable ? CLINDLV (1-2)

1. YES or 2. NO ** IF YES, answer 12a and 12b **

12a. How often ? CLINEAT (1-4)

- 1. Every day
- 2. Almost every day
- 3. Once or twice a week
- 4. Infrequently

12b. Which of the following portion sizes is most like the amount the child eat ? ** SHOW PICTURE ** CLINSIZE (1-6)

- 1. Size 1
- 2. Size 2
- 3. Size 3
- 4. Size 4
- 5. Less than size 1
- 6. More than size 4

DATA FOR WATCHED CONTROL

HOUSE NO. _____

MOTHER NO. _____

CHILD NO. _____

1. NAME Not Entered 1a. CHILD'S SEX CONSEX (1-2) 1. M. or 2. F.

2. WEIGHT CONWT (89.9) KG 2a. HEIGHT CONHT (99.9) CM

3. YRS CONYRS (0-12) WITH CONMTH (0-11)

4. MEASLES ? CONMERS (1-5)

5. SEVERE DIARRHOEA? CONDI4 " 1. Never had

6. SEVERE COUGH ? CONCOUGH " 2. Within week

7. FEVER ? CONFEV " 3. Past month

8. EXPULSION OF WORMS IN FACES ? CONWORM " 4. More than one month ago

9. PERIOD OF ACUTE FOOD SHORTAGE IN THE FAMILY CONFOOD " 5. Cannot remember

10. Does the child eat green leafy vegetables ? CONDLV (1-2)

1. YES or 2. NO ** IF YES, answer 10a. and 10b. **

10a. How often ? CONOFT (1-4)

1. Every day
2. Almost every day
3. Once or twice a week
4. Infrequently

10b. Which of the following portion sizes is most like the amount the child eat ? CONSIZE (1-6) ** SHOW PICTURE ** _____

- | | |
|-----------|---------------------|
| 1. Size 1 | 4. Size 4 |
| 2. Size 2 | 5. Less than size 1 |
| 3. Size 3 | 6. More than size 4 |

FORM NO. 43

BLOOD AND FECAL EXAM

REV 01

16-03-90

B/S - 2

SITE NO.

~~WATER NO.~~

HOUSE NO.

MOTHER NO.

CHILD NO.

DATA ENTRY NO.

DATE OF ENTRY / /

1. Child name MIDNAME (C-20)

2. Desingation of child

1. CASE or 2. CONTROL or 3. RANDOM

DESIG (1-3)

3. ASCARISLUMBRECOIDES COUNT

E P G ASCAR (999)

4. ANCYLOSTOMA DUODENALE COUNT

E P G ANCYL (999)

5. SERUM TEST TUBE NO.

TUBE (9999)

6. SERUM VITANIN 'A' LEVEL

mg/dL. VITA (99.99)

DATE OF SAMPLE COLLECTION

LAB TECHNICIAN NO. LAB (9)

 / / BLOOD DATEBL (Date)

 / / STOOL DATESH "

APPENDIX B



Nepal Vitamin A Child Survival Project
Results Of The First Monitoring

Robert L. Tilden
Jon Fryzek
Ya-Ching Lin

SECTION 7. RESULTS OF THE FIRST MONITORING ROUND FOR
MOTHERS (NOVEMBER 1989-JANUARY 1990)

7.1 Introduction

A monitoring program was initiated to determine the degree of participation in the vitamin A control strategies occurring within the program areas. Monitoring information was gathered by questioning ten percent of the mothers from the original baseline survey on their perception of, their participation in, and their knowledge obtained in the Vitamin A Child Survival Project. Additionally, the community health motivators were interviewed to assess their experiences with the implementation, supervision, training, and logistics of the program. The monitoring system was designed to give early feedback on program performance in order to permit corrective action and improve performance.

The activities of the community health motivators differ substantially for the three interventions. As a result, the maternal behavior targeted for modification in the three interventions varies. The initial portion of the exercise, consisting of the first monitoring cycle, was designed to determine the degree of behavior modification that occurred within the first one to three months after the community health motivator completed training.

The first intervention involves the universal distribution of vitamin A mega-dose capsules. The Community

Health Motivators were interviewed to obtain information on the training received from the program and outside the program, the involvement of the field supervisor in the ward, the presence of a Mother's Association in the village, and the logistics of the vitamin A capsule distribution. The mothers were questioned to determine if their children had received capsules, and if not, the reasons were accessed.

The objective of the second intervention is to estimate the reduction in the children's morbidity by combining vitamin A capsule distribution programs with concurrent deworming, promotion of immunization, promotion of oral rehydration therapy for diarrhea, and acute respiratory infection therapy. The Community Health Motivators were questioned on their training and also on various aspects of their delivery of primary health care to the children. Specifically, they were monitored on the logistics of the administration of the deworming tablets, the recruiting of the mothers, the promotion of the immunization campaign, ORS demonstrations, the arrival of supplies of co-trimoxazole, the prevalence of cases of ARI before the arrival of co-trimoxazole, treatment with co-trimoxazole, and the communities involvement with the project. The mothers were questioned on their knowledge and practice of primary health care in the areas of ORS treatment for diarrhea, of treatment with medicine for worms, of the practice of

immunization for polio, measles, BCG, and DPT for their children, and of their treatment of ARI.

To provide mechanisms whereby program beneficiaries can increase their consumption of vitamin A-rich foods and other nutritious foods is the purpose of the nutrition education intervention. Most of the questions aimed at the Community Health Motivators in the monitoring of the third intervention deal with the implementation and progress of the educational activities. These activities include the promotion, cultivation, purchase, preparation and intrafamilial distribution of vitamin A rich foods through non-formal educational measures. The mothers were assessed on their knowledge of Vitamin A foods, their inclusion of vitamin A in the foods in the child's meals, their knowledge of diseases related to Vitamin A deficiency, and their ability to monitor their children's nutritional status.

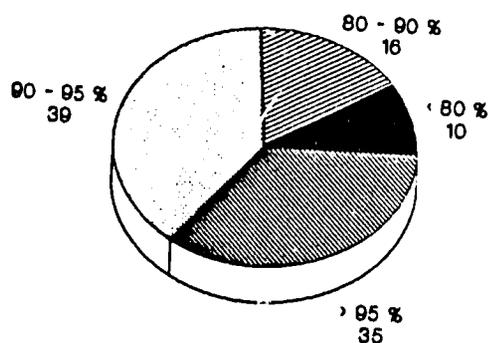
Each intervention is monitored three times a year. The overall information from the sites for each intervention is analyzed to look for average performance. Those sites that present repeated low program performance receive special attention and corrective action. Those sites that represent repeated high program performance receive positive feedback and special recognition.

7.2 Methods and materials

a. Sample

A random ten percent sample was taken from the households in the seventy-five sites that are participating in the three intervention activities. As Figure 1 demonstrates, the number of sites with over ninety percent of the children in the site participating in the study is high.

PARTICIPATION IN BASELINE SURVEY
% of Child Censused in Site Examined



Vit. A Child Survival Project-100 sites
First Monitoring Cycle

Figure 1

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b. Data Entry

Data is received and entered at the Lumbini Eye Hospital computing facility in Bhairawa. Data is entered site-by-site on Proteus AT (286) microcomputers, and preliminary data tabulations are completed on a Zenith 386 personal computer to check the quality and consistency of the data. Data entry diskettes are copied and sent to the University of Michigan where parallel data files are maintained. After a disk has been checked, it is merged with the data base on an identical Zenith 386 personal computer. Routine back-up copies are made of the entire data base and sent to the University of Michigan.

c. Data Analysis

Preliminary analysis consists of marginal frequency tabulations for the data collected. Descriptive analysis was performed and trends were noted for monitoring evaluation.

7.3 Results

I. SURVEY OF MOTHERS

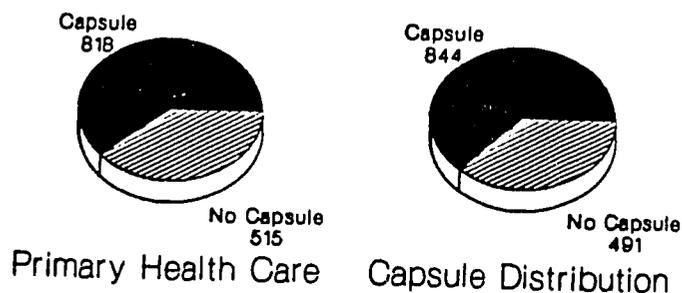
a. Capsule Distribution Intervention

1. Vitamin A Capsule Distribution

Vitamin A megadose capsules were distributed in the Primary Health Care and Capsule Distribution interventions. A sample of mothers in 424 household were interviewed regarding coverage of capsule distribution. Mothers were asked if their children had received a vitamin A capsule, and if less than fifty percent of the children in a site had received a capsule, the coverage rate was unacceptable (Figure 2). Fourteen of the twenty-five sites for the capsule distribution intervention had a low coverage rate for vitamin A capsule distribution (less than fifty percent). In site 8 the coverage of capsule distribution for the first child in each household was about fifty percent while in the households with at least four children coverage for the fourth child was only thirty-three percent. Similar to the coverage pattern in site 8, thirty-three percent of the third children in households with at least

three children received capsule. In sites 44, 46, 48 and 95 fifty, twenty-five, thirty-three, and twenty-five percent, respectively, of the fourth child in households with at least four children received capsules. In site 89 only forty-six percent of the second child and forty percent of the fourth child received capsules. These coverage patterns where children other than the first and second child in a household do not receive a capsule may reflect on the distribution habits of the community health motivator. The community health motivator may not be pursuing all of the eligible children in each household and ensuring that they receive vitamin A capsules. These patterns may also be a result of a small sample size as is often the case for the

Capsule Coverage by Intervention No. of Children Who Received Capsules



Nepal Vit. A Child Survival Project
First Monitoring Cycle

Figure 2

third, fourth, fifth, etc. children within households. For example, a coverage rate of fifty percent may merely mean that in a site where two children were surveyed, only one had received a capsule. In contrast, a site with a fifty percent coverage of sixty children, where thirty had received capsules, would be more reflective of the overall coverage in all sites where capsule distribution is an intervention.

Consistently low coverage for all of the children in a household were seen in the following sites: Site 41 resulted in only fifty percent coverage for the first child in the household. Site 42 resulted in coverage rates of forty-two percent for the first child, thirty-nine percent for the second child, forty-two percent for the third child, and thirty-three percent for the fourth child. Site 59 resulted in zero percent coverage for all children surveyed. Site 71 resulted in coverage rates of thirty-two percent for the first child, forty-four percent for the second child, thirty-three percent for the third child, seventeen percent for the fourth child, and zero percent for the fifth child. Site 78 resulted in coverage rates of forty-six percent for the first child, fifty percent for the second child, forty-four percent for the third child, and thirty-three percent for the fourth child. Site 88 resulted in coverage rates of forty-five percent for the first child, thirty-nine percent for the second child, and fifty percent for the third child. Site 97 resulted in coverage rates of

thirty-three percent for the first child. In these sites the community health motivator has failed to adequately distribute vitamin A capsules to the children. The community health motivator must be contacted so that the support needed to increase her coverage rates can be determined.

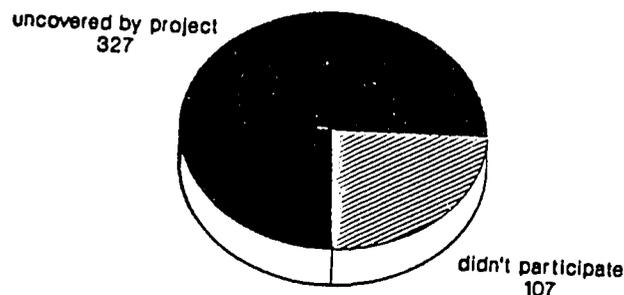
Figure 3 shows that some children did not receive a vitamin A capsule because the project did not reach them. Of those children who were covered and still did not participate in the project, the two reasons most often given for not receiving a vitamin A capsule was that the capsule was not offered or that the mother did not know about the capsule distribution. Both of these responses indicate that a fundamental cause for low coverage is a low contact rate by the community health motivator with mothers from her site. This reflects a need for the community health motivator to make considerable improvements in her rate of contact by emphasizing the importance of providing the capsules to the mothers and by making the capsules available to the mothers.

A small but significant percentage of mothers (5.7 %) also stated that the child was too sick to receive capsules. This reflects a need to educate the community health motivators of the fact that children may still take vitamin A capsules during an illness, and, in fact, this may be the time when the child benefits the most from the capsule.

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Why Caps Not Given to Some Children

No. of children in category



Nepal Vit. A Child Survival Project
First Monitoring Cycle

Figure 3

b. Primary Health Care Intervention

1. Vitamin A Capsule Distribution

The distribution of vitamin A capsules in the primary health care intervention sites was monitored in a manner identical to that done in the capsule distribution intervention sites. Once again, a fifty percent coverage rate was chosen as being an appropriate cut off value to be used in differentiating acceptable and unacceptable levels of community health motivator performance. By this criteria, thirteen of the twenty-five sites in this intervention proved to have unacceptably low rates of coverage for vitamin A capsule distribution. The patterns of coverage are quite similar to those observed in the

capsule distribution intervention, leading us to assume that the dynamics of capsule distribution are similar in the two interventions (Figure 2). The primary health care intervention sites did show one difference in that a greater number of the deficient sites had extremely low coverage rates of less than twenty-five percent (five versus one). This can probably be attributed to the greater responsibilities and time demands of the community health motivators in the primary health care intervention where they are responsible for other activities besides the distribution of capsules.

Of the sites singled out for poor performance, site 34 showed the most marked deficiencies, with zero percent coverage for all groups of children surveyed. Site 15, on the other hand, although presenting only fifty percent of coverage for the fourth children in the households in the site, had an overall coverage rate of ninety-seven percent. In such a case, corrective action is probably not necessary.

The other eleven sites fall somewhere between these two extremes. Sites 3, 25, 67, 75, 76, 81, and 98 showed consistently low coverage rates among all children in each household, with overall coverage rates of ten percent, twenty-two percent, thirty-eight percent, fifty-two percent, fifteen percent, forty-one percent, and seventeen percent, respectively. These are sites that will require contact with the community health motivator in the near future for a more detailed evaluation of performance and provision of

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support for improvement in their coverage. The other sites: 28, 36, 51, and 66, were victims of the same problem as several of the sites in the capsule distribution intervention. Although coverage of the first child in households on the site was adequate with rates corresponding to seventy-three, fifty-seven, sixty-eight, and eighty-nine percent, the rate fell rapidly with the increase in number of children per household, reaching forty, thirty-three, zero, and zero percent, respectively, for the fourth child.

The main reasons given for children not receiving vitamin A capsules were the same as in the capsule distribution intervention (Figure 3). The most common reason given was that a capsule was not offered by the community health motivator while the second most often cited reason was the mother's lack of knowledge about the availability of capsules through the community health motivator. These two reasons alone account for eighty percent of the cases of missed children in the capsule distribution component of the intervention. There appears to be a need for greater effort on the part of the community health motivator in improving their contact rate and disseminating information about the capsules and their availability.

A smaller proportion of mothers in this intervention cited a child's sickness as being the reason for not administering the vitamin A capsules (3.9%). An effort should be made to further decrease this percentage by

emphasizing the importance of educating the community health motivators and, consequently, the mothers in the intervention about the beneficial aspects of the capsules and the proper method to give them to their children.

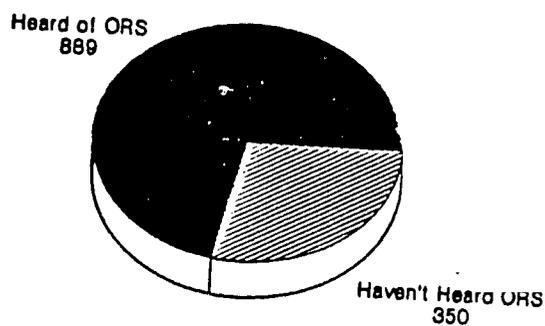
2. Proportion Mothers Contacted

In the primary health care intervention, seventy-three percent of the mothers questioned had been contacted by their local community health motivators. Considering the short time interval between the start of the program and the first monitoring exercise, this can be considered an acceptable rate of contact. Care should be taken, however, to ensure that the remaining twenty-seven percent of mothers are contacted as soon as possible and that the good rates be maintained throughout the program.

3. Knowledge of ORS and its Use

Figure 4 indicates that some of the mothers in the primary health care and nutritional education interventions had heard of oral rehydration salts. Of the mothers surveyed in the Primary Health Care intervention, only seventy-three percent had ever heard of oral rehydration salts, and of these, only thirty-eight percent had heard of it through their local community health motivator. Common sources of ORS knowledge were the radio (34%), health posts (13%), neighbors (7%), and family members (6%) (Figure 5). Obviously the program community health motivator needs to be

No. Mothers Who Have Heard of ORS Mothers in PHC and Nut. Ed. intervention



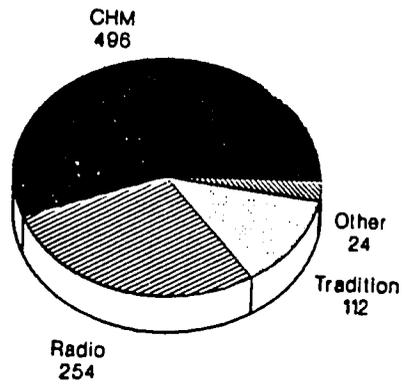
Vit. A Child Survival Project-100 sites
First Monitoring Cycle

Figure 4

making a greater effort in order to ensure that all mothers in their site are properly educated about the use and preparation of oral rehydration salts. The monitoring survey shows that even among the mothers who have heard of ORS, about twelve percent do not use it when indicated (Figure 6). Hence, there still remains a problem of affecting the mother's actual behavior regarding ORS treatment that goes beyond just ensuring that the mothers have heard of ORS.

How Mothers Heard About ORS

Mothers censused in PHC and Nut. Ed.

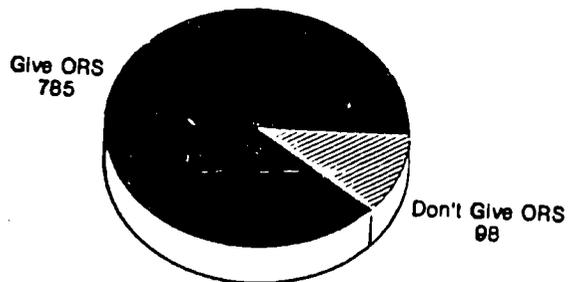


VII. A Child Survival Project
First Monitoring Cycle

Figure 5

Mothers Who Give ORS For Child Diarrhea

Mothers in PHC and Nut. Ed. intervention



VII. A Child Survival Project
First Monitoring Cycle

Figure 6

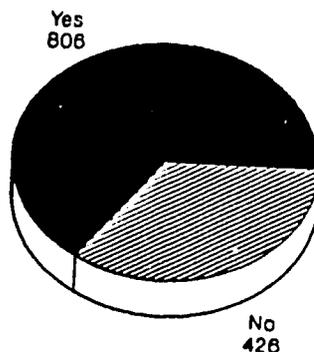
98

4. Diet and Sick Children

Among the mothers surveyed, fifty-nine percent believed in the practice of feeding a child sick with diarrhea, and of these, eighty-nine percent believed in feeding a child a special diet when the child was sick with diarrhea. Of the mothers who were breast-feeding their children, ninety-eight percent believed in feeding their children when they had diarrhea. This difference may be due to the perceived differences in the diet required by children of different ages. Mothers might perceive a sick ten year old as being better able to forgo food during sickness than a young baby. Community health motivators should be encouraged to educate the mothers on the need to properly feed children of all ages when sick with diarrhea.

5. Deworming

Did All Children Receive Deworm Tablets?
Mothers censused across interventions



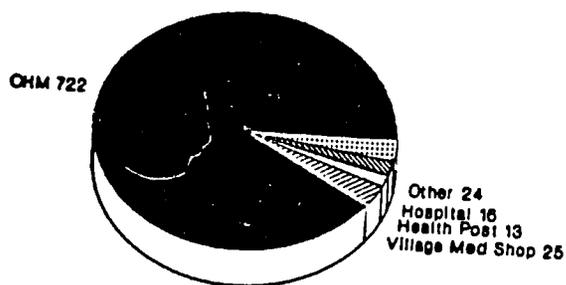
VII. A Child Survival Project
First Monitoring Cycle

Figure 7

4/8

The distribution of deworming tablets among the children in the primary health care intervention follows a pattern that is a bit reminiscent of the distribution of vitamin A capsules. By the date of the first monitoring survey, the majority of the mothers in the primary health care and nutrition education intervention had received deworming tablets for their children (Figure 7). In the primary health care intervention, sixty-nine percent of the mothers had been given deworming tablets for all their children. It is assumed that the remaining thirty-one percent had received either no tablets at all or insufficient tablets for all their children. Sources of deworming tablets can be seen in Figure 8. Once again the most commonly given reason for children not receiving tablets is failure on the part of the community health motivator to provide them (Figure 9). Since ninety-two percent of all deworming tablets given to children in the intervention sites originated from their local community health motivators, the percentage of children being dewormed is directly a result of their effort. Continued monitoring and feedback in this aspect of primary health care are necessary to ensure successful coverage in the long run.

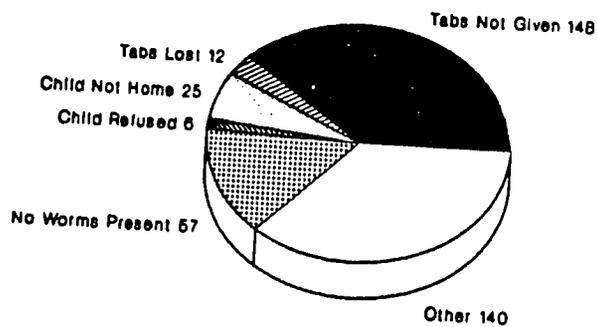
Where Deworming Tablets Were Received
 Mothers censused who gave deworming tabs



VI. A Child Survival Project
 First Monitoring Cycle

Figure 8

Why Child Didn't Receive Deworming Tabs
 Moms in PHC and Nut. Ed. Intervention



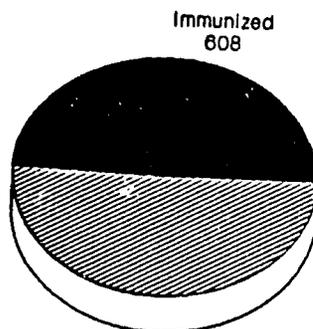
VI. A Child Survival Project
 First Monitoring Cycle

Figure 9

6. EPI

Immunization of the children in the site is probably the most difficult coverage rate to modify of the primary health care interventions, particularly in a short period of time such as that between the start of the program and our first monitoring survey. This is mainly due to the large number of immunizations needed and the spacing required between shots. Almost one half of the children in the primary health care and nutritional education interventions had an EPI card to document their immunization history (Figure 10). Although forty-eight percent of the children in the primary health care intervention had EPI cards to document their immunization history, the number of mothers

Number of Children Immunized Children censused in all districts



Not Immunized
626

Child Survival Project-7 districts
First Monitoring Cycle

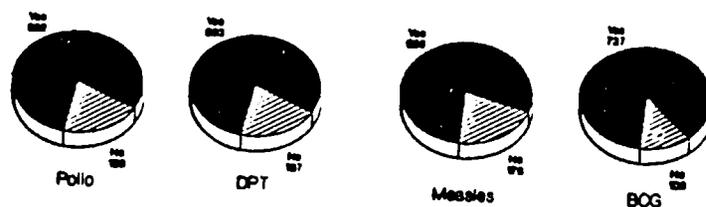
Figure 10

56'

who said that all their children received a specific immunizations tended to be at least eighty percent for all vaccines surveyed. Of those mothers without cards, one would question the ability of the mother to distinguish between and provide information about all of their children for the eight different types of shots. Figure 11 shows the number of children in the primary health care and nutrition education interventions who have received complete vaccinations for polio, DPT, measles, and BCG.

The main reasons given for not taking children to be immunized include lack of knowledge about immunization (45%), lack of time (20%), and lack of awareness about the need for multiple dosages (13%). Figure 12 looks at the reasons offered by the mothers of unimmunized children in the primary health care and nutrition education interventions for their children not being vaccinated.

CHILDHOOD IMMUNIZATIONS Number of Children Immunized

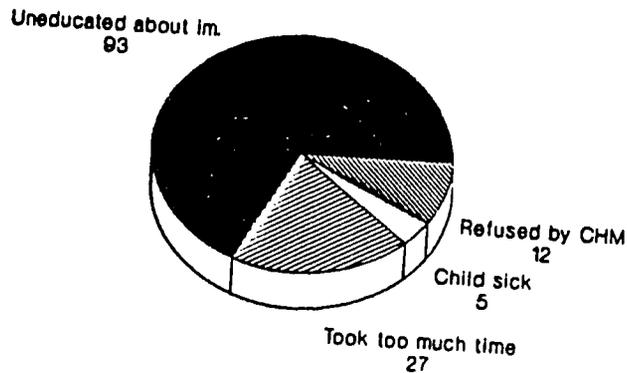


Nepal Vitamin A Child Survival Project
First Monitoring Cycle

Figure 11

3

Why Child Did Not Receive Immunization Moms in PHC and Nut. Ed. interventions

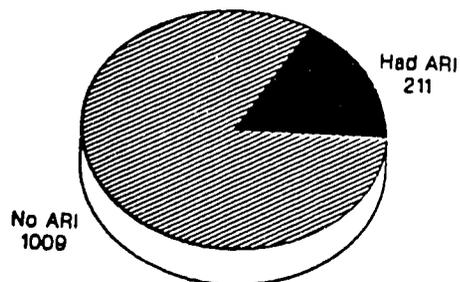


Vit. A Child Survival Project
First Monitoring Cycle

Figure 12

7. Acute Respiratory Infections

No. Of Child Who Have Had ARI Children in PHC and Nut. Ed intervention

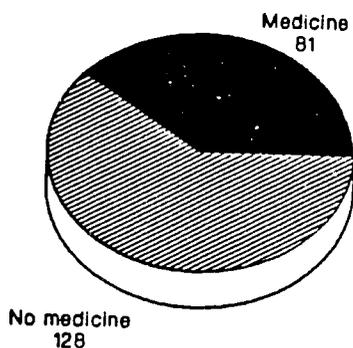


Vit. A Child Survival Project
First Monitoring Cycle

Figure 13

A significant number of children have had ARI within the two weeks prior to the survey (Figure 13). In the primary health care intervention, fifteen percent of the mothers surveyed had a child with some form of respiratory infection within this time period. This would indicate a common problem among the sites in the intervention. Of the mothers surveyed in the primary health care and nutrition education interventions less than one half had given their children medicine for an acute respiratory infection (Figure 14). Reasons for not treating an acute respiratory infection with medicine are given in figure 15. In the primary health care intervention, thirty-seven percent

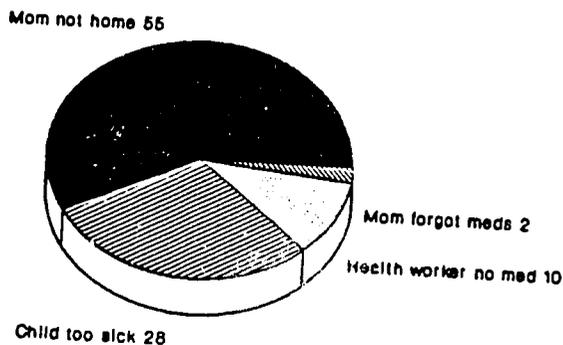
No. Of Children With ARI Given Medicine
Child in PHC or Nut. Ed. intervention



Vit. A Child Survival Project
First Monitoring Cycle

Figure 14

Why Medicine Not Given to Child With ARI Child in PHC or Nut. Ed. Intervention



Vit. A Child Survival Project
First Monitoring Cycle

Figure 15

reported receiving co-trimoxazole for their children when symptoms of respiratory infections were present. Of this proportion, sixty-six percent had obtained the medication from their community health care motivators. Popular alternative sources of the medication were the local medical shop, hospitals, and health posts. There appears to be a need for increasing the use of this medication among sick children and educating the mothers about its benefits in combating acute respiratory infections.

c. Nutritional Education Intervention

1. Awareness of nutritional messages by the mothers.

The first monitoring cycle of the nutritional education intervention involves the assessment of changes in the cultivation and consumption patterns of vitamin A rich foods in the community. To reduce the risk for vitamin A deficiency in children in the nutritional education interventions, six messages were developed to help promote the benefits of the consumption of vitamin A. If the proportion of the mothers not exposed to the message falls below sixty percent, corrective action must be taken.

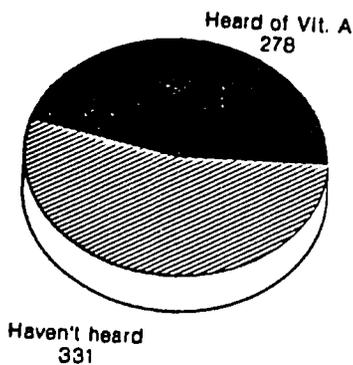
The first message considered the mother's current knowledge on vitamin A. 278 of 609 mothers indicated they had heard of vitamin A and of those who had heard of vitamin A, 277 indicated that it was important for their child's health. Many promotional activities must be undertaken to emphasize not only the existence of vitamin A, but also its health benefits (Figure 16).

The second message concerned the mother's knowledge of vitamin A rich foods found in the forest. Of the 272 mothers interviewed, 74 mothers got food from the forest (Figure 17).

Message three assessed the mothers' dietary habits when they were pregnant. 239 of 628 ate more food when they were pregnant (Figure 18).

Mothers Have Heard of Vit. A

Mother's censused in all 7 districts

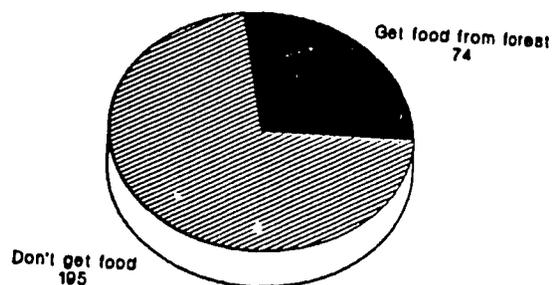


Vit. A Child Survival Project
First Monitoring Cycle

Figure 16

No. Who Get Vit. A Food From Forest

Mothers censused from all 7 districts

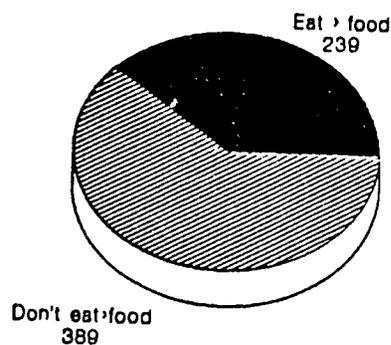


Vit. A Child Survival Project
First Monitoring Cycle

Figure 17

The fourth and fifth messages regarded the mothers' behavior concerning their children's diet and nutritional status. The majority of the mothers' did follow the recommended practice of introducing solid food to the child at four to six months (334 of 621 mothers), but a

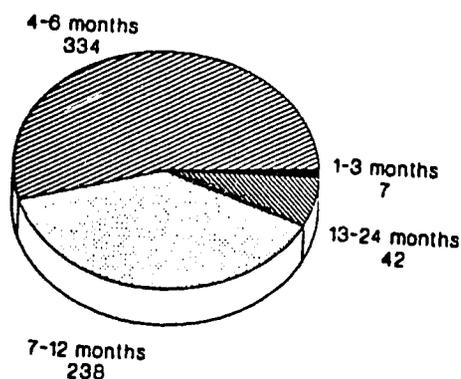
No. Moms Eat > Food When Pregnant
Moms censused in all districts



VII. A Child Survival Project
First Monitoring Cycle

Figure 18

Age Which Solid Foods Introduced Children censused in all districts



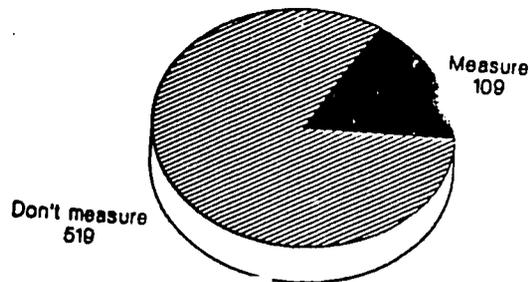
Wit. A Child Survival Project
First Monitoring Cycle

Figure 19

significant portion of the mothers introduced solid food later than six months (Figure 19). A large majority of the mothers did not measure the weight of their children every month. 519 of 628 mothers did not follow this practice which is recommended by message five (Figure 20). The mothers' awareness of night blindness was accessed by the sixth message. Many of the mothers had not yet heard of night blindness (385 out of 612 mothers) (Figure 21).

Except for the fourth message which determined the age that mothers introduced solid food to their children, these messages were heard approximately by sixty percent of the mothers interviewed. Of the mothers who had heard the messages, the majority of them heard the message through the

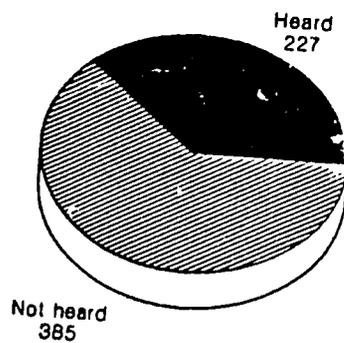
No. Moms Measure Wt. of Child/Month
Mothers censused in all districts



VII. A Child Survival Project
First Monitoring Cycle

Figure 20

No. Moms Heard Of Night Blindness
Moms censused in all districts



VII. A Child Survival Project
First Monitoring Cycle

Figure 21

community health motivator (183) while a few mothers had heard the messages through the radio (87). The low percentage of mothers who have heard the messages may be due to inadequate promotion of the messages. Other means of promotion must be developed to emphasize the importance of these messages. A video cassette recorder will be introduced in July of 1990 to help promote the messages.

2. Proportion of Mothers contacted

In the nutritional health care intervention, sixty-nine percent of the mothers questioned had been contacted by their local community health motivators. Considering the short time interval between the start of the program and the first monitoring exercise, this can be considered an acceptable rate of contact. Care should be taken, however, to ensure that the remaining thirty-one percent of mothers are contacted as soon as possible and that the good rates be maintained through out the program.

3. Knowledge of ORS and its use

Figure 4 indicates that the number of mothers who have heard about oral rehydration salts in the primary health care and nutrition education interventions is approximately the same. Seventy-one percent of the mothers in the nutritional education intervention had heard of oral rehydration salts, and of these, forty-six percent had heard

about it through a source besides the community health motivator. Common sources of ORS knowledge were the radio (23%), the health post (8.4%), neighbors (7.5%), and family members (5.0%) (Figure 5). The community health motivators must be encouraged to educate the mothers about the benefits of oral rehydration salts in the prevention of dehydration of their ill children. Not only must the mothers be aware of ORS, but the mothers' actual practice of administration of ORS to their sick child must be ensured. Often this is not the case. When the mothers who had heard about ORS were questioned on their practice of administration of ORS, eleven percent stated they did not use ORS when their child has diarrhea (Figure 6). A solution must be found which will affect the mothers' actual behavior of ORS usage.

4. Diet and Sick Children

In the nutritional education intervention, seventy-one percent of the mothers indicated they fed their children when they had diarrhea. Similarly, a large portion of the mothers (87%) believed that a special diet should be given to a child when the child has diarrhea. The greater proportion of mothers (98%) who stated they breast-fed their child when the child had diarrhea may be due to the perceived differences in the diet required by children of different ages. A young child less than a year old may be perceived as being unable to forgo food during a sickness unlike a ten year old. The need to properly feed children

of all ages when sick with diarrhea should be emphasized by the community health motivator.

5. Deworming

Sixty-two percent of the children in the nutritional education intervention received deworming tablets. Of these children, eighty-eight percent got the tablets from the community health motivator. Other places where the children got the tablets included the village medical shop (3.7%), the hospital (1.3%), and the health post (1.8%) (Figure 8). Since the vast majority of the mothers received their deworming tablets for their children from the community health motivator, support must be given to the community health motivators to ensure greater coverage of deworming tablets. It seems that the percentage of children being dewormed is directly a result of the community health motivators' effort.

6. EPI

The number of children who had an EPI card in the primary health care intervention and the nutrition education intervention was about equal to the number who did not have an EPI card (Figure 10). In the nutrition education intervention, the number of mothers who had an immunization card to document the vaccines of their children was rather low (51%), but when considering a specific immunization the number of mothers who stated that their children had

received the vaccine tended to be high (around 80%). For the first, second, and third shots of polio the percent of mothers who indicated their child had received the vaccine was eighty-seven, eighty-two, and seventy-nine, respectively. Similarly, the percentage of mothers who said their children had received all three shots for DPT was less than the percentage of mothers who indicated their children had received the first shot of DPT. The percentage of mothers who indicated their children had received the first, second, and third shots of DPT was eighty-six, eighty-two, and seventy-nine, respectively. The community health motivator must emphasize the need for the child to receive all three shots of DPT and Polio for the vaccine to be effective. The percentage of children who received the measles immunization was seventy-seven and the percentage of children who received the BCG immunization was eighty-eight. One needs to consider the ability of the mothers to distinguish between and provide information about all of their children for the eight different types of shots they were questioned on. The reasons given for the child not receiving the immunizations include: lack of knowledge about immunization (36%), lack of awareness about the need for multiple dosages (15%), lack of time (11%), and lack of acceptance of child by health worker (10%) (Figure 12). The two major reasons concern a lack of knowledge about the immunization and the need for multiple dosages. The community health motivator must increase the awareness about

these issues so that immunizations can become effective in their sites.

7. Acute Respiratory Infections

ARI is a common problem among the sites in this intervention as is evident by the fact that a significant percent of the mothers surveyed in the primary health care and nutrition education interventions indicated their child had ARI in the last two weeks (Figure 13). Nineteen percent of the mothers in the nutrition education interventions indicated their childre had ARI in the last two weeks. Only forty percent of the mothers gave co-trimoxazole to their children affected with ARI, and of these eighty-eight percent got the drug from the community health motivator. Other sources of the medication include the local medical shop (4 %), the hospital (1%), and the health post (2%). The mothers must be educated about the benefits of combating acute respiratory infections with co-trimoxazole to increase its usage in the nutritional education intervention.

II. SURVEY OF COMMUNITY HEALTH MOTIVATORS

a. Capsule Distribution Intervention

1. Training of the Community Health Motivator

The community health motivators in the vitamin A capsule distribution intervention had a background similar to those in the other interventions as far as prior training

CHM Had Training Prior To Program

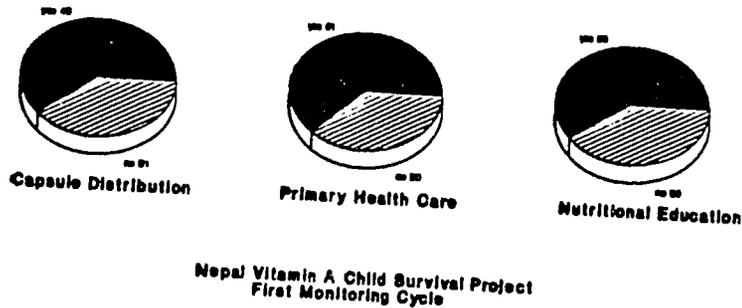


Figure 22

was concerned (Figure 22). Approximately sixty percent of the community health motivators recruited had some type of training before joining the Vitamin A Child Survival Project.

The responsibilities of the community health motivators in the capsule distribution sites are basically restricted to the distribution of vitamin A capsules. As would be anticipated, the length of time required for training in this intervention is shorter than the other interventions where the community workers have more responsibilities (Figure 23). Only six percent of the trainees required more than three days to complete the training program. When questioned in the monitoring survey, however, a substantial portion (25%) of the community health workers considered their training less than adequate (Figure 24). This would

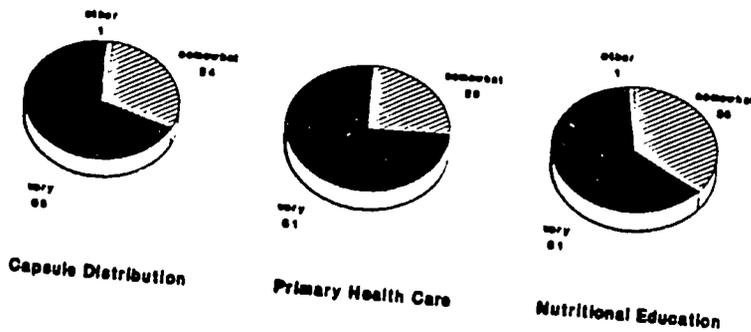
**Length Of CPM Training
No. of days for caps. dist., PHC, and nut. ed.**



Nepal Vitamin A Child Survival Project
First Monitoring Cycle

Figure 23

**How Appropriate Was Training In Preparation
For Work In The Village**



Nepal Vitamin A Child Survival Project
First Monitoring Cycle

Figure 24

indicate a need to improve the composition of the training material for country-wide expansion of the program, using feedback from the community health motivators.

2. Field Supervisor Support

The performance of the community health motivators in the intervention is acceptable considering the fact that seventy-one percent of them had received a visit from their field supervisor within the last two months (Figure 25). The start of a program is a vital period when the appropriate motivation and supervision must be maintained in order to ensure good performance in the future.

Field Supervisor Visited Ward In The Last 2 Months



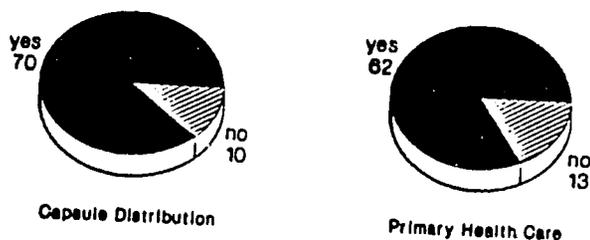
Nepal Vitamin A Child Survival Project
First Monitoring Cycle

Figure 25

3. Vitamin A Distribution

Among the sites chosen for this intervention, twelve percent of the community health motivators reported not having received sufficient supplies of vitamin A capsules for the children in their sites. This is similar to the reported reception of vitamin A capsules in the primary health care intervention (Figure 26). This may be a problem, considering the fact that all children are included when measuring the effect of the intervention. Of the capsules that were received, the majority were distributed within five days of receipt (Figure 27). The main reason cited (50%) for late distribution of the capsules was lack of cooperation from other villagers in the distribution of capsules (Figure 28). Additional training in techniques to educate and motivate fellow villagers about the importance of the capsules and the program might be indicated.

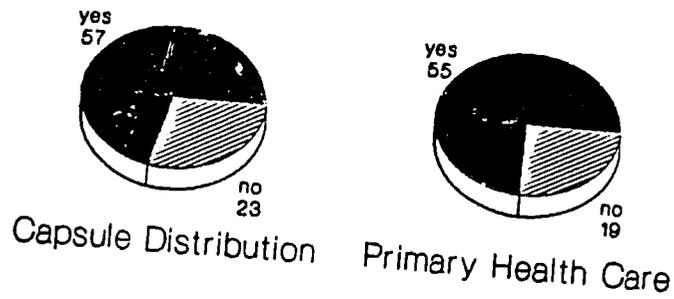
Enough Supplies Of Vit. A Were Received
Censused in Cap Dis and PHC Intervention



Nepal Vit. A Child Survival Project
First Monitoring Cycle

Figure 26

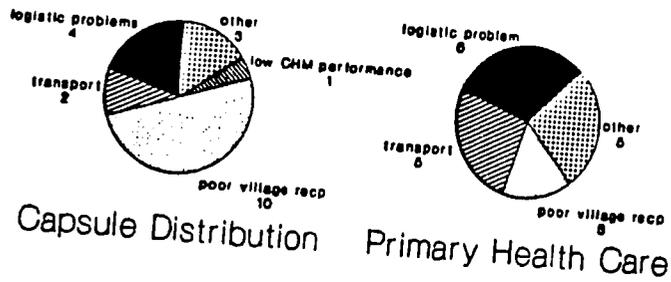
Capsules Were Distributed In 5 Days
 Censused in Cap Dis and PHC intervention



Nepal Vitamin A Child Survival Project
 First Monitoring Cycle

Figure 27

Why Caps Dist. Took Longer Than 5 Days
 Censused in capsule distribution
 and primary health care interventions.



Nepal Vitamin A Child Survival Project
 First Monitoring Cycle

Figure 28

11

b. Primary Health Care

1. Training of the Community Health Motivator

Similar to the community health motivators in the capsule distribution, the percent of community health motivators in the primary health care intervention with training prior to joining the Vitamin A Child Survival Project was sixty-three (Figure 22). However, the amount of training required for this intervention is longer than the amount of training required for the capsule distribution training. Only eleven percent of the community health motivators needed less than three days to complete their training while eighty-nine percent needed more than three days (Figure 23). Due to the fact that twenty-five percent of the community health motivators found the training somewhat appropriate for their work in the village (Figure 24), the training material for country-wide expansion of the program must be improved, perhaps with the help of the current community health motivators.

2. Field Supervisor Support

The field supervisor had visited seventy-four percent of the community health motivators in the last two months (Figure 25). The start of a program is a vital period when the appropriate motivation and supervision must be maintained in order to ensure good performance in the future

1/18

so field supervisors must be encouraged to visit the community health motivators in their ward.

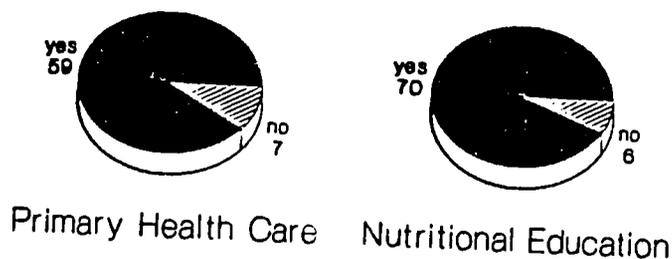
3. Vitamin A Capsule Distribution

Obviously, preference was given to the capsule distribution intervention in providing capsules for the vitamin A capsule distribution. Seventy-seven percent of the sites received an adequate supply of vitamin A (Figure 26). This may have serious consequences when the effects of this intervention are measured as all of the children in the sites are included. The majority of the capsules (68%) were distributed in five days (Figure 27). The main reason for late distribution was logistic problems (32%). Other reasons cited as excuses for late distribution of the capsules include lack of cooperation from other villagers in the distribution of the capsules (16%) and transport problems (26%) (Figure 28). The fact that the reasons for late distribution cited most often are managerial in nature would again point to the preference in support for the capsule distribution intervention in supplying vitamin A capsules.

4. Support From Community

The majority of the community health motivators (89%) indicated that the community was willing to assist with the primary health care intervention (Figure 29). Of the eleven percent of the community health motivators who indicated

Community Is Willing To Assist Censused in PHC and Nut Ed interventions

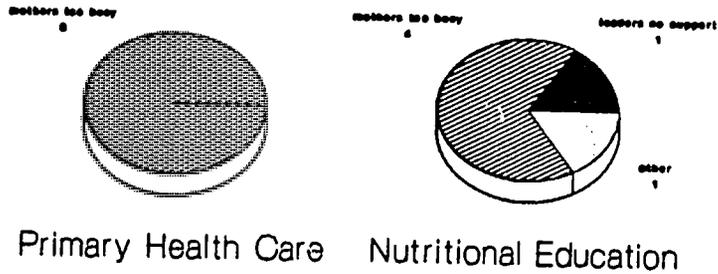


Nepal Vitamin A Child Survival Project
First Monitoring Cycle

Figure 29

that the community was unwilling to assist, the only reason presented was that the mothers in the community were too busy to participate (Figure 30). In sixty-five percent of the sites censused in the primary health care intervention, a mothers' association was present (Figure 31). The majority of the sites had recruited more than three mothers to help with the intervention with most sites reporting more than six mothers recruited (Figure 32). The two reasons mothers were not recruited were that they were too busy to participate and that customs prevented them from participating (Figure 33). Overall, the recruitment of mothers in the primary health intervention has been good.

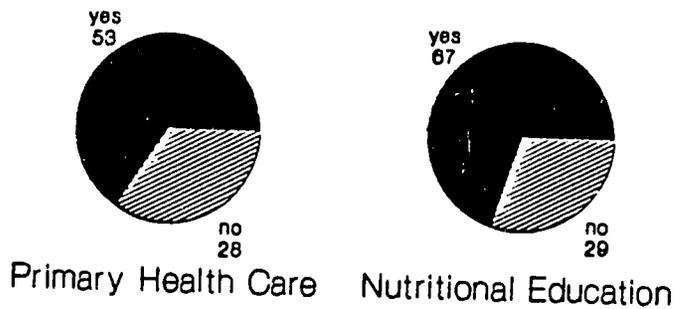
Reasons Community Unwilling To Assist Censused in PHC and Nut Ed interventions



Nepal Vitamin A Child Survival Project
First Monitoring Cycle

Figure 30

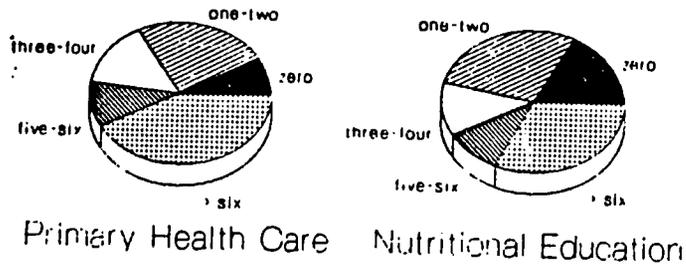
Mothers' Association Is In Village Censused in PHC and Nut Ed intervention



Nepal Vitamin A Child Survival Project
First Monitoring Cycle

Figure 31

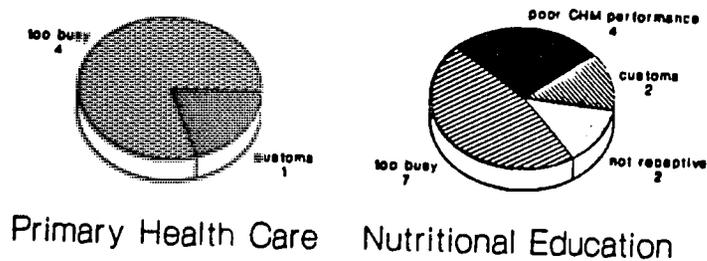
No. Of Mothers Recruited Mothers in PHC and Nut. Ed. interventions



Nepal Vitamin A Child Survival Project
First Monitoring Cycle

Figure 32

Reasons Moms Not Recruited Censused in PHC and Nut Ed interventions



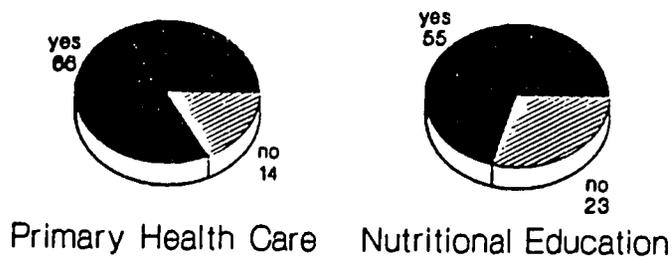
Nepal Vitamin A Child Survival Project
First Monitoring Cycle

Figure 33

5. Deworming Tablets

The majority of the sites (83%) had finished the distribution of deworming tablets one week before the distribution of the vitamin A capsules began (Figure 34). Managerial problems were cited as the main reasons for the failure of the distribution. Fifty-seven percent of the community health motivators reported that due to logistic problems the tablet distribution was delayed. Twenty-nine percent reported that transport problems contributed to the delay. Fourteen percent reported that poor village cooperation contributed to the delay (Figure 35).

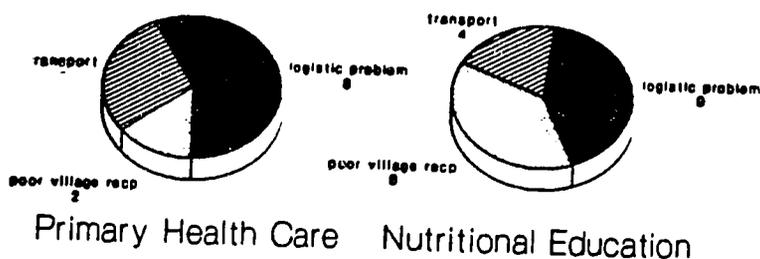
Deworming Tablets Distribution Finished
Deworming tablets distributed one week
before Vit. A capsule distribution.



Nepal Vitamin A Child Survival Project
First Monitoring Cycle

Figure 34

Reasons Deworming Tablet Distribution Was Delayed



Nepal Vitamin A Child Survival Project
First Monitoring Cycle

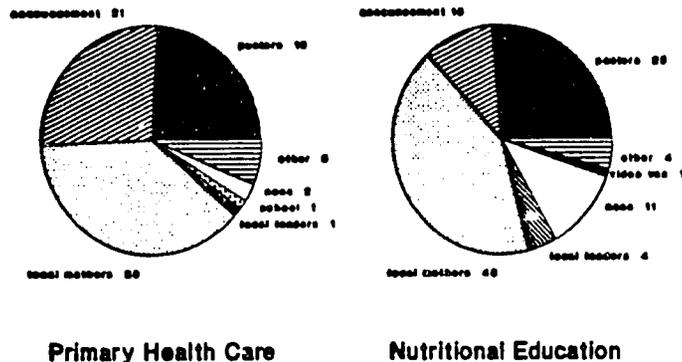
Figure 35

6. Immunization Campaigns

A variety of techniques were utilized to promote the immunization campaign. Thirty-seven percent of the community health motivators used local mothers to promote the immunization campaign. Public announcements on the radio were used by twenty-six percent of the community health motivators. Other campaigns include: posters (24%), advertisement at schools (1%), promotion by local leaders (1%), and other campaigns 8%). Only three percent of the community health motivators had not promoted the immunization campaign (Figure 36).

13

Campaigns Utilized To Publicize EPI



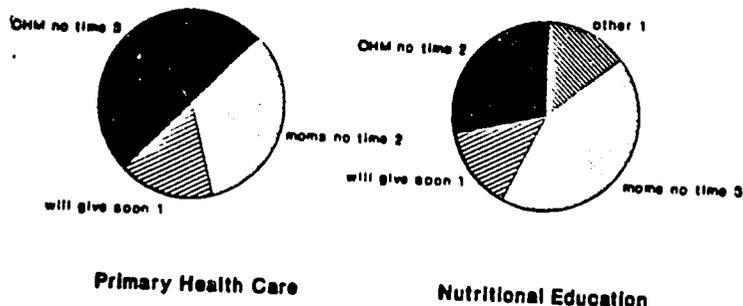
Nepal Vitamin A Child Survival Project
First Monitoring Cycle

Figure 36

7. Oral rehydration salt demonstration

The use of demonstrations in the preparation of oral rehydration salts seems to be an agreeable tool for the community health motivators in the promotion of oral rehydration salts for the treatment of diarrhea. Eight percent of the community health motivators had not given an oral rehydration salt demonstration. Fifty percent of the community health motivators who had not given an oral rehydration salt demonstration felt they had no time to give the demonstration. Thirty-three percent stated that the mothers in their site did not have time for the demonstration. The remaining seventeen percent promised that soon they would give a demonstration (Figure 37).

Reasons ORS Demonstration Not Given Censused in PHC and Nut Ed interventions



Nepal Vitamin A Child Survival Project
First Monitoring Cycle

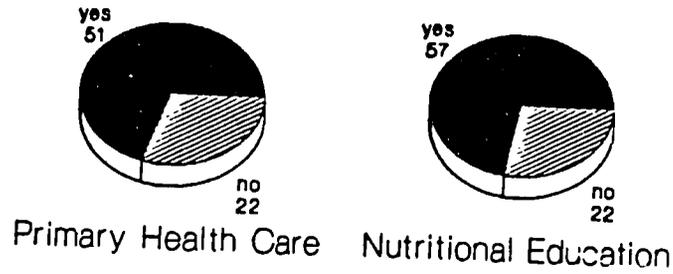
Figure 37

8. Treatment of Acute Respiratory Infections

A significant percent of community health motivators (70%) had seen cases of acute respiratory infections before receiving co-trimoxazole indicating that some form of treatment is needed for its control (Figure 38). All of the sites in the primary health care intervention have received their supplies of co-trimoxazole (Figure 39). The community health motivators readily give co-trimoxazole for an acute respiratory infection as is indicated by the very large percent (92%) who have used it (Figure 40). The reasons cited for not using co-trimoxazole include: symptoms of an acute respiratory infection not recognized (50%), child too sick to take co-trimoxazole (33%), and other reasons not



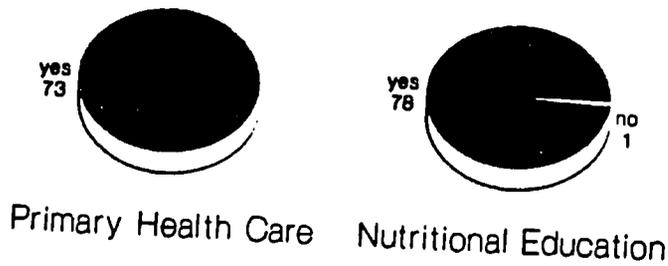
**ARI Cases Seen Before
Receiving Co-trimoxazole**
Censused in PHC and Nut Ed interventions



Nepal Vitamin A Child Survival Project
First Monitoring Cycle

Figure 38

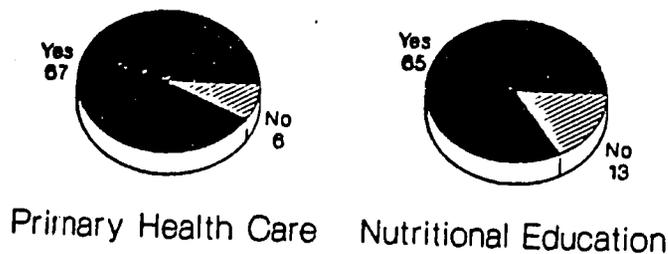
Co-trimoxazole Has Been Received
Censused in PHC and Nut Ed interventions



Nepal Vitamin A Child Survival Project
First Monitoring Cycle

Figure 39

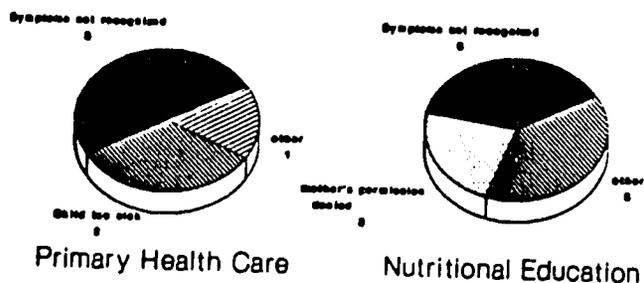
Children Treated With Co-trimoxazole Censused in PHC and Nut Ed interventions



Nepal Vitamin A Child Survival Project
First Monitoring Cycle

Figure 40

Reasons Co-trimoxazole Not Given Censused in PHC and Nut Ed interventions



Nepal Vitamin A Child Survival Project
First Monitoring Cycle

Figure 41

specified (17%) (Figure 41). Continued encouragement for the use of co-trimoxazole in the treatment of acute respiratory infections must be maintained, and for those who do not use co-trimoxazole instruction must be given on the diagnosis of acute respiratory infections and on the usage of co-trimoxazole.

c. Nutritional Education

1. Training of the Community Health Motivator

The percent of community health motivators with training prior to joining the Vitamin A Child Survival Project was similar to the previous interventions with a value of sixty percent (Figure 22). The training period of more than three days required for the majority of the community health care motivators (90%) was similar to the training period of the majority of the community health motivators in the primary health care intervention (89%) (Figure 23). However, thirty-eight percent felt the training was not adequate in preparing them for work in the village (Figure 24). This was the lowest satisfaction percentage for the three interventions. It should be stressed that for country-wide expansion of the program the training material must be improved with assistance from the community health motivators.

2. Field Supervisor Support

A very low percentage of field supervisors have visited the wards in the nutritional education intervention in the last two months. Sixty-one percent of the community health motivators indicated that the field supervisor had visited their ward (Figure 25). Field supervisors must be strongly encouraged to visit the community health motivators as the first part of a program is a vital period for instilling motivation which will ensure good performance from the community health motivators.

3. Support From Community

The support from the community in the nutritional education intervention is good. Ninety-two percent of the community health motivators stated the community was willing to assist them in the nutritional education intervention (Figure 29). The busy schedule of the mother was the reason most often cited for the community's unwillingness to assist the community health motivators (Figure 30). Seventy percent of the community health motivators indicated that a mothers' association was in the village (Figure 31). More than three mothers were recruited in the majority of the sites (Figure 32). The community health motivators who had

not recruited any mothers reported the following reasons: mothers were too busy to help (47%), the community health motivators performance in recruiting the mothers was poor (27%), local customs prevented the mothers from being recruited (13%), and the mothers were not receptive to the idea of helping with the intervention (13%) (Figure 33).

4. Deworming tablets

Fewer community health motivators in the nutritional education intervention than in the primary health care intervention had finished the distribution of deworming tablets in the time allotted (Figure 34). The main reasons cited were managerial in nature. Forty-three percent of the community health motivators indicated that a logistic problem was the cause. Thirty-eight percent indicated that the poor village reception was the cause. Nineteen percent indicated that transport problems were the cause (Figure 35). The distribution of the deworming tablets may take longer in this intervention because the community health motivators do not need to finish quickly in order to distribute vitamin A capsules.

5. Immunization Campaigns

The majority of the community health motivators had developed some type of campaign to promote the immunization of children. Forty-two percent used local mothers to promote the campaign; twenty-six percent used posters;

eleven percent used announcements on the radio; four percent used local leaders; one percent used a video van; and four percent used some other technique to promote immunizations. Twelve percent of the community health motivators did not promote the immunization campaign (Figure 36). Training must emphasize the reasons for the immunization of children so the community health motivator understands the importance of emphasizing vaccination for children to the mothers.

6. Oral Rehydration Salt Demonstration

Ninety-three percent of the community health motivators had given an oral rehydration salt demonstration. The reasons for not giving a demonstration include: the mothers have no time (43%), the community health motivator does not have time to give the demonstration (29%), and other (14%). Fourteen percent of the community health motivators indicated they would give an oral rehydration salt demonstration soon (Figure 37).

7. Treatment of Acute Respiratory Infections

Seventy-two percent of the community health motivators had seen cases of acute respiratory infections in the last two months indicating the need for a control program (Figure 38). Co-trimoxazole was used for the treatment of acute respiratory infections in the nutritional education intervention. Only 1 of the 79 community health motivators indicated she had not received her supply of co-trimoxazole

(Figure 39). Eighty-seven percent of the community health motivators used co-trimoxazole in the treatment of acute respiratory infections (Figure 40). The reasons cited for not using it include: symptoms not recognized (38%), mother's permission to use the drug was denied (24%), and other reasons not specified (38%) (Figure 41). Instruction must be given on the diagnosis of acute respiratory infections and on the usage of co-trimoxazole to ensure co-trimoxazole use for the treatment of acute respiratory infections.

APPENDIX C

Documentation for the Second Survey Data Entry

The data entry procedures for the second survey are a bit different from those of the first round. The primary, and perhaps most important distinction between the two is in the fact that as data are entered for the second round, the records are 'linked' (or matched) with records from the first round on key (I.D.) fields. This process of 'linking' will be referred to throughout the documentation, but it deserves some mention from the onset.

The Vitamin A Child Survival Study is a prospective, follow-up survey and it is therefore critical to trace, (or follow) as many households, mothers and children as possible over the course of the study. We want to evaluate changes which have occurred over time and assess the impact of the different interventions, i.e. capsule distribution, Primary Health Care, Nutrition Education, etc. on health status of the the population. In turn, households and individuals measured last year should also be measured this year (and in subsequent years of the study).

To accomplish this, in the second year data entry, when an I.D. number (for example, a household I.D.) is entered for a particular site, the programme will 'search' last years data and determine if there is a matched record with the same I.D. information. If this is the case, the two records, one from this year and one from last are considered to be 'linked' and this information will greatly facilitate the analysis of the data. There are a number of built-in checks within the data entry system which are used to ensure that the 'linked' records are in fact matches, but more on this later.

A second, and also very important change between this years and last years programmes is the 'hierarchical' progression that this years data entry system follows. What that fancy word means is essentially that this year, when you enter an I.D. number, it will be stored UNTIL you change it, so that for each ward, household, mother and child form you enter, you need not type I.D. info that is shared across forms, i.e. household number for all motheres and children of the same household. For example, once you enter a household number, it will be stored for all mothers and children of the same household, and will only change when the data operator types into the computer a new household number or exits the programme.

This modification should greatly enhance data entry and should limit the number of errors that are made in identification of records. However, it needs to be emphasized that the data clerk must make changes to I.D. codes when necessary, which will come as you familiarize yourselves with the programme.

Because of this structure, it is recommended that you follow a logical progression in the entry of the data forms. A suggestion is as follows:

First, get the subdirectory in which you will be entering data for a new site prepared (follow the steps presented in the section on **SITE LEVEL** below).

Second, Enter all **WARD LEVEL** data, form by form, remembering to change the ward number each time you enter data for a new ward.

Third, **FOR EACH HOUSEHOLD:**

Enter the Household data and then :

1. If there were any deaths in the household in the previous year, enter the corresponding number of **VERBAL MORTALITY AUTOPSY FORM(S)**

2. If the household was part of the 10 % subsample in which the **DIETARY KAP** form was collected from, enter this data

3. Enter data for the first **MOTHER**

4. Enter the **CHILD FORM** for the first child

a) If a clinic exam was taken of the first child, enter the **CLINIC FORM**

b) If the child had any illness in the previous two weeks, enter the **MORBIDITY FORM**

c) If the child is a Case (Signs of Xerophthlamia), enter the matched **XEROPHTHLAMIA CASE-CONTROL FORM**

d) Finally, if the child had a blood/stool exam, enter the **STOOL FORM**

5. Go to the NEXT CHILD OF THE SAME MOTHER and repeat steps a) through d) above, until all children of the same mother have been entered

6. Enter data for the NEXT MOTHER and follow steps 4) and 5) above until all mothers in the SAME HOUSEHOLD and their children have been entered

7. Enter data for the NEXT HOUSEHOLD, being careful to change the household number at the 'header menu' as well as the Ward number whenever this changes. Keep looking at the forms and check your data. Remember the quality and significance of the analysis of the study depends very much upon the quality of the data entry. YOUR WORK IS SO IMPORTANT !! (and we are depending on you)

This years data entry programme uses a series of cursor-controlled menus rather than the numeric option menu system which was used last year. The options from the menus may be selected in either of two ways. First, you may use the right and left cursor keys (arrows) to move back and forth between options (the active option is the one highlighted) and selecting the active option by hitting the <RET> key. Second, you may simply type the capital letter associated with a particular option, WITHOUT hitting the <RET> key and the option will be selected. This will become clearer as you work through the programme a bit.

The rest of this document will now detail the specific programmes and the different data forms to be entered, so grab your seats, get some good music on the radio, hold to your hats, and awwaaayyyyy we go

Getting started

The programme is set up the same way as last year, where all data base files are located in a subdirectory called \DBIII\DATA and the executable programme is in the \DBIII directory. These will be activated by a single batch file in the ROOT (\) directory of the computers which is called VITA.BAT. Thus to enter the programme once the computer is turned on, you need only type:

VITA <RET>

The commands which are executed in this batch file are :

CD \DBIII\DATA
MAINMENU

where MAINMENU.EXE is the programme containing all of the procedures for the data entry programme, and the subdirectory \DBIII\DATA contains all of the .DBF files.

The first menu which will appear presents four options,

Data entry	Copy data	Linking	exit to Dos.
------------	-----------	---------	--------------

You will notice that the first option, Enter data is presently highlighted. To familiarize yourself with the movement of the cursor keys and the process of selecting options, press the right cursor key (arrow) once and observe how the next option (Copy data) is highlighted. Press the right cursor again and see how it moves along to the third option. In a similar way, you may use the left cursor key to move to the left to other options. You may continue moving among the options until you hit the <RET> key to select a highlighted option.

You will also note that for each of the four options there is a single capital letter

(E)nter data, (C)opy data, (L)ink and exit to (D)os.

Instead of moving the cursor keys you may merely hit the letter associated with an option to select it. For example, hit the letter: D and see how the programme exits and brings you back to the DOS (Disk Operating System) prompt.

Type MAINMENU <RET>

This brings you back into the programme.

Site level

We will now go through the data entry procedures, so we will select the first option. Do so by hitting the letter 'E'. Since we are going to be entering data, the first thing the programme needs to know is the site number. A screen will appear requesting you to enter the site number. The default setting for this is '999'. You need to type in a number in order to continue. (If you need to exit, you may simply type '888' which will bring you back to the main menu).

It is assumed that each data entry clerk will be entering data for a single site at a time. Once you type in a site number, you are asked if this is the first time you are entering data for the site. If it is the first time you are entering data for the site, you will need to get last years data and prepare the subdirectory for the site. If it is not the first time you are entering data for the site, which will be the case almost all of the time, you need only type 'N' and return.

an

Set up subdirectory

If you are going to set up data for the first time, you should type 'Y' in response to the question. At this point the programme asks you to insert a diskette containing the data from the first baseline survey for the specified site number. This should be done with great care and, at least initially with the assistance of the data supervisor. To do this, you will need to use the DOUBLE DENSITY BACK-UP diskette which is stored in one of the containers in the data entry room. This is a critical process as the data files from the baseline which are used will determine which records entered for the second survey are linked and those which are not. Once the 'old' data base files from the baseline for a site are copied onto the computer, you will ONLY be able to enter data for this site until all of the forms for the site have been entered.

The process of setting up a subdirectory for a site should only be done once, and only after all data previously entered have been backed up on disk and restored on the main data edit computer (the one Sushila is using).

This is very important, since in the process of placing the first years data files from a diskette onto the computer, the programme will ZAP all data base files on the data entry computer SO MAKE SURE YOU HAVE BACKED UP BEFORE YOU SET UP A SUBDIRECTORY FOR A NEW SITE !!!!!.

Once the data from a site have been set up in the subdirectory, or you are continuing with a site that you have already set up, you will be ready to start to enter the data for the second years survey. If you have been following the above steps, you should be at a new menu which contains five options,

Ward	Household	Mother	Child	Return to menu
------	-----------	--------	-------	----------------

This is called the DATA LEVEL MENU !

If you look up in the upper right corner of the screen, you will observe the site number for which you are presently set up to enter data. You will not be able to change the site number unless you go back to the main menu.

Before starting, lets first go through a few conventions used throughout the data entry programme. For all data variables, you are expected to enter ONLY VALID RESPONSES. If a variable is MISSING (blank on the questionnaire) or the question is not applicable, DO NOT TYPE ANYTHING, but just hit the <RET> key to move to the next question. If you do type in something, it must be a valid response, or else you are told to re-enter the value, and you are informed what the valid range of values or allowable codes are for the question.

3. Health Post in ward (1-2)

3a. If 2=NO, a box will appear asking you to type in a response to IF NO, how long to nearest HP which you should then answer. The valid responses are (1-5)

If the answer to question 3 is 1=YES, then the programme will move to the next question, as 3a) will not be applicable

3b. How long has Health Post been operating (1-20)
(answer number of years HP has been operating)

4. VHW in ward (1-2)

4a. If 1=YES, how often does VHW visit (1-5)

5. CHM in ward (1-2)

5a. If YES, Is CHM helpful (1-2)

5b. , Is CHM popular (1-2)

This will bring you top the bottom of the first page, and the question, 'Is Everything Correct (Y/N) will appear. As indicated above, you can now hit 'N' to go back to the top of the screen and reenter the data (please note that all values already entered will be stored, so these need not be entered again, so that you may change ONLY those values which are incorrect). If you type 'Y', you will move onto the next screen, while if you type 'Q', you will exit to the data level menu and no data will be stored in any data base files.

If you select 'Y' to continue, the screen will clear and you will be presented with the second page of the ward form. Continue to enter data as before.

6. Motorable road near village (1-2)

6a. If NO, how long to reach road (1-5)

7. Public transport in village (1-2)

7a. If NO, mow long to transport (1-5)

8. Primary school in ward (1-2)

8a. If NO, how long to school (1-4)

9. Electricity in houses (1-2)



10. Which of the following programmes have been implemented
(For next six questions, answer (1-3))

1. Drinking water
2. JNSP
3. Sulabh latrine
4. Womens development
5. Small credit
6. Adult literacy

11. Village people supporting project

(1-2)

11a. If NO, why not supporting

(1-5)

11a(i) If 5, specify reason

(Character -20)

12. In last three years was there epidemic due to :
(For next six questions, answer (1-2))

1. Measles
2. Gastroenteritis
3. Diarrhea
4. ARI
5. Malaria
6. Meningitis

13. Are the following crops grown in village :
(For next eight variables, answer (1-2))

- | | |
|------------|---------------|
| 1. Rice | 5. Maize |
| 2. Barley | 6. Wheat |
| 3. Millet | 7. Pulses |
| 4. Mustard | 8. Sugar cane |

14. Are the following fruits and vegies grown in village :
(For next six variables, answer (1-2))

- | | |
|---------------------|-------------------------|
| 1. Green vegetables | 4. Yellow/Orange vegies |
| 2. Potato | 5. Mango |
| 3. Papaya | 6. Orange |

15. Does ward have market (permanent, weekly or fortnightly)

(1-2)

15a. If NO, how long to market

(1-5)

16. Is there a market currently selling food

(1-2)

If the answer to question 16 is 1 = YES, then go on to answer questions 16a-25. Otherwise, the programme will bring you back to the data level menu.

9/6

COPY DATA FROM DATA ENTRY COMPUTERS

In the data entry programme, from the main menu, the second option is to Copy data. When a site has been completed, that is all forms have been entered, you are ready to Copy the data for this site onto a diskette. It is recommended that for this purpose you use a NEW, FORMATTED, DOUBLE DENSITY diskette. Make sure that you know what the site number is for which the data has been entered, as this will determine which subdirectory the data will ultimately be copied into on the EDIT computer.

Insert a diskette in the A: drive of the data entry machine on which the completed site is located. Make sure that you are in the Data Entry Programme and the Main data entry menu appears on the screen.

Select Option 2, by highlighting 'Copy data' and hit the <RET> key. The first question you are asked is the number of the subdirectory for which you would like to Copy data from the hard disk onto the diskette. You should type in the number of the site and <RET>. The computer will then inform you that in copying the data onto a diskette, you will erase all files that were previously on the diskette !! This should not be a problem if the diskette being used is a newly formatted one which contains no data. You will be asked two times to confirm that you would like to copy the data. Type 'Y' both times to confirm and wait for the data files to be copied.

When finished, the data entry screen will appear. Now BEFORE setting up the subdirectory on the data entry machine, please follow the next two steps:

- 1) Take the diskette out of the machine and go to the EDIT computer, and place the diskette into the A: drive. Type:

```
E:           <RET>
CD \TMP      <RET>
EDIT2        <RET>
```

- 2) Select Option '2' (Copy Data). You will then be asked into which subdirectory ON THE HARD DISK you would like to copy the data files from the DISKETTE. Type the site number and <RET>. All data files have been copied onto the hard disk when you will see the names of the different files appearing on the screen, and then the edit menu appears again.

Once completed, you will be ready to Set up the subdirectory on the data entry computer for a new site. Get the questionnaire forms for a new site, as well as the diskette containing the baseline data for the site from the plastic diskette box, and you will be ready. Follow the instructions in the data entry manual to set up the subdirectory.

16a. How many shops selling food items

(1-200)

If the answer to question 16. is 1=YES, there is a market and:

17-25. Observe the market, are the following foods available
(For next 46 variables, enter (1-2)

When you complete the data entry for the ward form, you will be informed that the data record has been saved, and after you hit any key to continue, you will be brought back to the data level menu. If you have other Ward level forms, you should enter these now, remembering always to change the Ward number when presented with the header information after selecting the Ward option from the data level menu. Once these have all been entered, we will be able to move onto the Household data form.

HOUSEHOLD LEVEL

Select the second option from the data level menu, for Household. You will be brought to the header screen again where you will note that the site number has been stored, as well as the data entry number, date of entry and monitor number. The ward number for the last ward entered will also appear, (but this will most probably have to be changed). In addition, you now have the opportunity to enter a household identification number. Once these data have been entered, the household information from the second years survey will be compared with data of the first years survey to determine if the record is linked. This process will now be described as it will also apply to all mother level and child level forms which will be linked.

When you type in the household number, the programme then creates a 'searching' criteria which consists of the site number and the household number. Thus if you are entering data for Site number 1 and household number 10, the programme will store '110' and the 'searches' the data from the baseline Household data file (which was copied to the subdirectory when setting up the new site) for a record which also has the I.D. 10 in Site number 1. There are basically two things that will happen:

- 1) Record Linked with last year
- 2) Record Not Linked with last years data

Each of these will cause the programme to respond in different ways.

db

1) If the record is linked with last years data, you will see a message appear on the screen, and the programme will move to the first data entry screen for the household form. You will note all the header information has been stored and is presented at the top of the screen. The first question on the household form asks the repondants name, which you should fill in and when done, hit the <RET> key.

Next, the programme will place the name of the household head for the household AS IT APPEARS in the LINKED record in the first years data base file. It is assumed that, if in fact the record is matched, the name will not change. If the name is the same, you need only type 'Y' in response to 'Is the name correct' and return, and move on to the rest of the household data entry. If the name is not correct, you should type 'N'. The programme will then give you the option to type in a code for the household :

Is the household :

1. New
2. Old, but miscoded last year

You should only select option '1' for households which were not surveyed last year (most probably because there were no children under 10, or it was not included in the census). Otherwise, type in the code '2'. You are then asked to type in the name of the head of household, and you may continue with the data entry.

2) If the record is NOT LINKED, you will first be asked if you would like to (R)e-enter the identification information, or (C)ontinue with the data entry. It should be pointed out that at this point, you also have the option to (Q)uit and go back to the main menu. If you have entered the identification information incorrectly, you should re-enter the data, and if there is still not a link, then select the option to (C)ontinue.

When you do continue, you are prompted to enter the respondents name, and then you will see the screen asking to provide a code for the household (new, or old and miscoded). Then follow the steps above, providing the name of the household head and prepare to enter the data for the rest of the household form.

2a. Age of the head of household

(10-90)

3. Caste of Household

(1-27)

3 (i) If Caste = 27 , Specify Other

(Character - 20)

df

4. Do you have children < the age of 11 living in HH (1-2)

If this question is NOT answered as 1 = YES , then you are informed that only households with children should have responded to the rest of the form, and the program will write the record to a separate data base file. If you make an error here, you need only re-enter the data and alert the data entry supervisor. This year, we will keep track of BOTH houses with children as well as houses without children.

5. Number of moms with children < 11 yrs (0-9)

6. Number of children < 11 yrs. (1-30)
(again there must be at least 1 child < 11 in the HH)

7. If there is at least 1 mother in the HH, you will next be presented with a Household Census screen which will provide as many spaces as there are mothers in the HH. There are five elements to the household census, and you will need to enter data for four of these:

- | 7. Mother I.D. | Name | Enum First | Number of Children | |
|----------------|------|------------|--------------------|-----------|
| | | | This year | Last year |

The mother numbers will automatically be stored, and you will need to enter the name, whether the mother was enumerated for the first time this year or last year, as well as the number of children the mother had last year and has this year.

When finished, you will be asked if all entries are correct. Type 'N' if there are any data entry errors, or 'Y' to continue on to the next page.

8. Type the number of deaths (0-8)

(if the response to this question is > 1 , the enumerator should have filled out 1 mortality autopsy form for each death and these should be attached to the household form. When you complete the data entry for the Household, you will be asked to enter the data for the child(ren) who died

9. Where do you fetch water from (1-8)
9(i) If 8, specify (Character - 20)

10. Is water source owned by HH (1-2)
11. How far is water source from house (1-4)
12. How many times is water fetched each day (1-3)
13. What is used to fetch water (1-5)
13(i) If 5, Specify (Character - 20)
14. Is there a drainage problem (1-3)
15. Do you own a latrine (1-2)
16. Where do the children of HH defecate (1-6)
16(i) If 6, Specify (Character - 20)
17. Do the children wash hands before eating (1-2)
17a. If YES, what is used for washing (1-4)
17a(i) If 4, Specify (Character - 20)
18. How frequently does child take bath (1-6)
19. How often do children wear slippers (1-5)
20. Where does HH dispose of waste (1-5)
20(i) If 5, Specify (Character - 20)
21. How often do you sweep inside house (1-4)
22. Do you own the house (1-2)
23. Is house Pucca or Kacha (1-2)
24. Does family own any land (1-2)
- 24a. If 1 = YES, one of the two series of land units should be entered, either :
- OR A) Ropani Ana
 B) Bigha Katha Dhur

It is assumed that if land is expressed in terms of Ropani and Ana it is NOT expressed in terms of Bigha, Katha and Dhur, and vice versa. If you enter data for Ropani and/or Ana, you will not be asked to enter data for the other three, while if the first two are missing, you will be prompted to enter data for the last three units of land holdings. In either instance, you should fill in the amount of land owned in each of the different units, and a standardized total will be computed.

Also, if the answer to 21 is 1 (YES)

- 24b. Does HH generate income from the land (1-2)
24c If YES, is income adequate to support family (1-2)
25. Do any household members work to increase income (1-2)
25a., b., c. If YES, enter up to three of following (1-8)
BUT DO NOT ENTER THE SAME VALUE MORE THAN ONCE,
EXCEPT FOR MISSING VALUE OF '9'
25a, b, c If 8 to any of the three, Specify (Character-20)
26. Do you have a kitchen garden (1-2)
26a. If YES, Do you consume all vegies grown (1-3)
26b. If 1 or 2 to 23a. Is amount sufficient (1-2)
27. How much money is spent on vegies each week (1-4)
28. Does family own any livestock (1-2)
28a. If YES, fill in the next eight variables
(i) Cows (v) Buffalo
(ii) Goat (vi) Sheep
(iii) Pig (vii) Ducks
(iv) Chicken (viii) Other
If (viii) Other > 0, then specify (Character - 20)

This will complete data entry for the household form.

MORTALITY FORM

As mentioned above, if there were any deaths which occurred in the family in the previous year, and there was a response of > 0 to question number 9, then you will be asked to go through the data entry of the verbal autopsy form at this point. We will assume that there was at least one death which occurred in order to describe the process.

The first screen that will appear will state that according to the data just entered there were so many deaths in the household, and will present the number entered in question 9, along with the household number. You will be asked to confirm this. If the number of deaths was correct, make sure that there are the mortality forms attached to the household form, type 'Y' and begin the data entry. Otherwise, type 'N' and enter the number of mortality forms which are attached to the household form and make a note to send to Bharatpur that there was a discrepancy between the number entered for question 9 on the household form and the number of mortality forms which were present for the household. In addition, if there were no deaths, or there are no mortality forms present, you may just type 'N' and then the number '0' for the number of deaths in order to exit the procedure and return back to the main menu.

Continuing with the mortality autopsy form

1. Mother I.D. and Child I.D.

You will be asked to enter the identification information for the child who died. Note that the site number and household number have been stored and you need not re-enter these. Be careful here, as in all places where you type the mother I.D. and the kid I.D. that the first digit of the Kid is the same as the mom. In this years programme, you WILL NOT be able to enter such miscoded I.D.'s.

Once entered, you will be asked to confirm. If there was a problem, type 'N' and go back to retype the identification information, or else type 'Y' to confirm.

(You do not need to enter the name of the respondent)

2. Relation of respondent to child
If 10, Specify

(1-10)
(Character - 20)

3. Name of the child

(Character - 20)

DO NOT ENTER RESPONSES TO QUESTIONS 4 and 5

6. Age at which the child died, in years (99)
in months (99)
7. Date of death (Date DD/MM/YY)
8. How long was child ill before death (1-3)
9. Did the child have any of the following conditions prior to death (in two months)
(Answer 1 or 2 for each variable)
- | | | |
|-------------------------|------------------------------|--|
| 1. Severe diarrhea | 6. Measles | |
| 2. High fever | 7. Back of eye turning white | |
| 3. Diarrhea/vomitting | 8. Night blindness | |
| 4. Difficulty breathing | 9. Tetanus signs | |
| 5. Severe cough | 10. Other | |
- If 10, Specify (Character - 20)
10. Was treatment sought (1-2)
- 10a. If YES, list up to three of the above (1-10)
- 10b If YES, who provided treatment (1-7)
If 7, Specify (Character - 20)
- 10c. If YES, was treatment in Home (1-2)
Hospital (1-2)
11. Was any diagnosis given (answer 1 or 2 for all variables)
- | | |
|-----------------------------|--|
| 1. Diarrhea | |
| 2. Pneumonia | |
| 3. Gasroenteritis (cholera) | |
| 4. Measles | |
| 5. Tetanus | |
| 6. Encephalitis/Meningitis | |
| 7. Other | |
- If Other = 1, Specify (Character - 20)..
12. Cause of death (1-2)
- 12a. If ascertainable, list (1-7)

If there was more than 1 death, you will return back to the header requesting Identification information (Child I.D. and Mother I.D.) and will then go through the data entry procedure again for the second death. Repeat this process for all mortality forms.

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Once you have entered data for the household and any mortality forms which were associated with the household, you will be asked if the household was part of the 10 % subsample (1 out of every 10 households for which the Diarrhea/disease KAP form was collected) If there is a Diarrhea KAP for in the household pack, you will answer 'Y' to the question, and continue with the data entry for the form, or else type 'N' and continue the data entry with the Mother level data. We will assume that there is a Diarrhea KAP form in order to describe the data entry process for this form.

DIARRHEA/DISEASE KAP

1. When your child has diarrhea, do you feed more water (1-2)
 - 1a. If NO, why not (1-5)
 - 1a(i) If 5, Specify (Character - 20)

2. What is amount of food child eats with diarrhea (1-3)

3. Do you give Jeevan Jal when child has severe diarrhea (1-2)
 - 3a. IF NO, why not (1-4)
 - 3b. IF YES, where do you get JJ (1-4)
 - 3c. , how much JJ to give a child under 3 (1-2)
 - 3d. , how frequently do you give JJ (1-4)

4. Do you know how to make Noon, Chini, Pani (1-2)

5. Has CHM ever demonstrated how to use Noon (1-2)
 - 5a. IF NO, why not, Specify (Character - 20)

6. What other medication you give when child has diarrhea (1-2)
 - 6(i) Specify (Character - 20)

7. Have you ever heard of night blindness (1-2)
 - 7a. IF YES, how do you cure (1-5)

8. Have you ever heard of Bitot's Spots (1-2)
 - 8a. IF YES, ho do you cure Bitot's Spots (1-5)

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9. Where do you take your child when first becomes ill (1-6)
 9(i) If 6, Specify (Character - 20)
10. If child doesn't improve, where do you go second (1-6)
 10(i) If 6, Specify (Character - 20)
11. Have you taken your child to hospital in past year (1-2)

This will complete the Diarrhea KAP form, and you are returned to the main Data Level menu. It is now possible to move on to the Mother Form, and then later, the child level data that are associated with each mother.

MOTHER LEVEL

After you have entered the household level data, you move to the individual data entry (mothers and kids). The household I.D. will not change until you enter another household form. We will start with the mothers, and enter the data for the first MOTHER FORM, store the mother I.D. number and then move on to enter the child level data for each of her kid(s), starting with the CHILD FORM, then move to the CLINIC FORM (if present), and where applicable, to the MORBIDITY, CASE-CONTROL and STOOL FORMS. Thus, for each mother, you only need to enter her I.D. one time. While in a similar way, once you enter the Childs I.D. you will not need to enter it again for the next forms for the same child. (I think you must be getting the picture by now)

From the data level menu, select option 3, by highlighting Mother level and hitting <RET>, or by typing the letter 'M'.

You will come to the header screen where you will note that in addition to the other fields stored after finishing the Ward level forms, the Household number is now present (since you have just entered this !). In addition, you can now enter an I.D. for the mother.

Once you have entered the I.D., the programme will search the data for site 1 from the baseline for a mother with the same I.D. and Household numbers. As above, it will either find a linked record or it will not. The same procedure will take place. You should answer all questions, until you have a mothers name on the screen and you get to question 2.

2. Was she enumerated last year (1-2)
3. Age of Mother (in years) (10-80)

4. Is the mother the respondent (1-2)
 4a. IF NO, why not (1-4)
 This is an important question, since if the mother IS NOT the respondent, the form should not have been answered beyond question 6. If you answer 'N' to question 4, you will be asked to confirm your answer at the bottom of the screen. Please make sure that this is correct, as the record will be saved in a separate data base file..
5. Is mother literate (1-2)
 5a. If NO, Is she taking literacy classes (1-2)
6. List number of children (1-20)
 (There must be at least 1 child for each mother)
 (Note the number of children listed on the bottom of the mother form, and make sure that the number entered for question 6 corresponds to the number of kids listed. Also check the I.D.'s of the children to make sure there are no duplicates and that the first digit of all the kids I.D.s is the SAME NUMBER as the mother I.D.) IF THERE ARE ANY ENUMERATOR ERRORS, PLEASE NOTE THESE AND SEND TO THE FIELD
 If the MOTHER is the respondent, you will have to enter the data for the next questions, or else
7. Have you heard of Vitamin A (1-2)
 7a. If YES, is Vit. A important for health (1-2)
 7b. , is Vit. A available from foods (1-2)
 7b(i) If YES (to 7b) which of the following foods provide Vitamin A (Answer 1 or 2 for all variables)
 1. DGLV
 2. Rice
 3. Fruits
 4. Egg
 5. Meat
 6. Potato
 7b(ii) If YES (to 7b) do you feed your kids any of the foods in the above list (1-2)
 7b(iii) If YES (to 7b) which of the foods on the above list is the cheapest and best source (1-6)
8. Do all of your children eat DGLV (1-2)
 8a. If NO, why do they not eat (1-4)
 8a(i) If 4, Specify (Character - 20)
9. Are DGLV available from wild and forest (1-2)
 9a. If YES, Do you gather DGLV from wild (1-2)
 9b. , Do kids eat DGLV gathered from wild (1-2)

10. Are you breastfeeding any of your children now (1-2)
 10a. If YES, do you eat more, less, normal (1-3)
 10b. , do you feed your child anything else (1-2)
 10c. , do you breastfeed when child has diarrhea (1-2)
11. Do you feed colostrum to your newborn child (1-2)
 11a. If NO, Why not (1-4)
 11a(i) If 3. Specify (Character- 20)
12. Do you eat more, less, normal when pregnant (1-3)
13. Do you think the weight of child should increase (1-2)
 13a. If YES, Do you take her for weighing each month (1-2)
 13a(i) If (13a) = NO, Why not (1-5)
 13a(ii) If 13a(i) = 5, Specify (Character - 20)

Preparing for data entry of Child Level data

The data entry for the first mother in the household should now be complete, and you can now prepare to enter the data for the first child of this mother. Remember to look at the forms before you enter them. A couple of points could be followed if you choose to :

1. Make sure that each child has a mother, and that the first digit of the child I.D. is the same as the mothers I.D.'s. This year a few additions to the forms should help you out. Every child for every mother is listed on each mother form, along with their I.D. and age. If there is a discrepancy on the child, clinic, morbidity, case-control or stool forms with regards to the I.D., these can be checked on the mother form. Whenever there are any problems, it is recommended that a note be made, with the site number, the team leader and enumerator numbers along with the specific problem, and this should be sent to Bharatpur as soon as possible.
2. Ages are recorded in three places, the Kid form, the Clinic form and the Case-Control form, but in fact they are ONLY COLLECTED ONCE in the field. Ages are only collected on the KID FORM and are then copied by the enumerators to the other forms. Before entering data, please make sure that there are consistencies across forms for the Age data. Similarly, the sex is mentioned on a few forms, and we need to make sure that the same child does not change sex from one form to the next. If she/he does, we should get some of their magic. Finally, for cases and controls, the weights

and heights which are recorded on the MATCHED CASE-CONTROL FORM are copied from the clinic form, so you will need to make sure that these are the same.

With the above said, it should be mentioned that if the forms are entered in the order mentioned above, i.e.

	KID
	CLINIC
and where applicable	MORBIDITY
"	CASE-CONTROL
"	STOOL

certain key fields entered on one form will be stored for the other forms and they need not be entered again. In the first instance, the CHILD I.D. will be entered once, as well as SEX and AGE (both in years and months) on the KID FORM and will automatically be brought up when entering the other forms.

In the same way, once weight and height are entered for the CLINIC form, they will be stored for the CASE-CONTROL form if in fact the latter is entered.

KID FORM

We are now ready to enter the Child level forms. You should be at the data level menu, and you may now move to the fourth option, and hit <RET>, or if you have gotten comfortable with the other method of selecting options, hit the letter 'C'.

You will notice that another menu appears, which we will refer to as the Child Level Menu and has the following six options (with their corresponding capital letters for selection:

Kid	Clinic	Morbidity	Case control	Stool	Return
-----	--------	-----------	--------------	-------	--------

To enter the Kid form, we will select this option (the first) by highlighting it and then hitting the <RET> key. You will come to the header menu once again, and assuming that you have been entering Household and Mother level data, you will note that the I.D.s for these variables (as well as Site) have been stored. At this point you may enter a two digit I.D. for the child.

When you have entered this the programme will now create a search criteria made up of the Site number, the household number and the Child number and look for a record with similar identification codes from the baseline data. And yet once again, the record will either be linked, or not linked.

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You should follow the same process as above. If the record is linked, the kids name as it appears in the baseline data file will be presented, and you should assess if this is the same child. If it is no problem, and you may continue. If it is not the same name, and the problem looks like more that a different spelling, you should answer 'N' to the question, 'Is this the right name' and when the list of codes appears indicate that the child was 'miscoded'. If the record is not linked, the you will be asked to identify the code of this child. This code should appear just under the child number on the kid form, as well as on the Mother form in the child census listing.

Once this is all done, and you have a child name on the screen, you are ready to go though the rest of the questions on the Kid form.

- 1a. Age in completed years (0-12)
 Age in completed months (0-11)

Age data can be entered in terms of completed years and/or months. You cannot enter a month value of greater than 11. Once months is 12, you should add 1 to the year value. When age data are missing, or are not applicable (i.e., months when a child is exactly 2 years old), hit <RET> to accept the missing value of 99. You should ONLY ENTER '0' when a child is newborn, in which case the age should be 0 years and 99 (missing) months. For a child in the first year of life, enter 99 years and the appropriate number of months. Please make sure that when you enter the missing value thast it is 99 and NOT '9' - this was a common error in the first years data

- 1a(i). Sex of the child (1-2)
 1= Male
 2= Female
2. Respondents relation to child (1-9)
 2(i) If 9, Specify (Character - 20)
3. Has child received Vitamin A capsule (1-3)
 3a. If YES, how many received (1-7)
4. Has child been dewormed (1-2)
 4a. If YES, how many times child dewormed (1-7)
5. Has child had severe diarrhea (1-2)
 5a. If YES, did child take Jeevan Jal (1-2)

6. Has child had ARI (1-2)
 6a. If YES, did child take cotrimaxazole (1-2)
7. Immunization status:
- 1) DPT (no. of doses) (0-3)
 2) Polio (no. of doses) (0-3)
 3) Measles (1-2)
- 7a. If not fully immunized, why not (1-8)
 7a(i) if 8, Specify (Character - 20)

CLINIC FORM

It is assumed that almost all children who have a KID form will also have a clinic form, although there are certainly going to be some children who do not have clinical exams for different reasons. It was decided not to go directly into the data entry of the Clinic form following the Kid form, but rather enter the clinic form from the Kid menu. Once you have completed the Kid form, you will return back to this kid menu and will now select the second option, for Clinic.

Once again, the identification information for the child, i.e. the Site number, Household, Mother and Child I.D. will all have been stored. Presuming that none of this has changed, just use the <RET> key to confirm the entries. After doing this, the programme will now search the data file from the baseline to establish if there is a link or not. Follow the procedures as above, although this time, when there is a link, no name will appear (since there was no name in the baseline CLINIC FORM).

Once you decide to (C)ontinue, you will be brought to the first questions on the Clinical form. Please remember that the Age and Sex data from the Kid form will be stored and you will only have to confirm these entries with the <RET> key rather than having to type them a second time and risk the possibility of entry errors. More on this when the time comes.

- 2R. Visual acuity - Right (1-4)
 2L. Visual acuity - Left (1-4)
- 3R. Signs of Xerophthlamia - Right (1-2)
 3L. Signs of Xerophthlamia - Left (1-2)

If 3R OR 3L = YES, answer the next 4 questions about ocular signs and symptoms, otherwise, the programme will jump to question 8 In addition, this child will be a CASE, and a CASE-CONTROL FORM should be filled out and included in the packet of household forms. This should be filled out following completion of the Clinic form data (and morbidity form if the child has been recently ill) entry and PRIOR to moving on to another child !! If the answer to 3R or 3L is YES and there is no form, please make a note and communicate to the field office.

- | | |
|--|-------|
| 4R. Bitot's Spots - Right | (1-2) |
| 4a.(R) If YES, Are Spots temporal, nasal or both | (1-3) |
| 4L. Bitot's Spots - Left | (1-2) |
| 4a.(L) If YES, Are Spots temporal, nasal or both | (1-3) |
| 5R. Corneal Xerosis - Right | (1-2) |
| 5a(R) If YES, is xerosis all cornea or mainly inferior | (1-2) |
| 5L. Corneal Xerosis - Left | (1-2) |
| 5a(L) If YES, is xerosis all cornea or mainly inferior | (1-2) |
| 6R. Corneal Ulceration -Left | (1-2) |
| 6L. Corneal Ulceration -Right | (1-2) |
| 7R. Keratomalacia -Left | (1-2) |
| 7L. Keratomalacia -Right | (1-2) |
| 8R. Corneal scars -Left | (1-2) |
| 8L. Corneal scars -Right | (1-2) |
| If either 8R or 8L = YES, ask next two questions | |
| 8a. Is there history of Trauma | (1-2) |
| 8b. Have eyes been red, sticky before scars | (1-2) |
| 9. Does child have history of nightblindness | (1-2) |
| 10. Is child suffering from ARI, Diarrhea or measles | (1-2) |

11/2

If the answer to 10 = YES, please make sure that there is a morbidity report form for this child and enter this data as soon as you complete the Clinic data entry. If this question is answered YES and there is no form, OR if this question is answered NO and there is a form (enter the data anyway), and please make a note and contact our friends in Bharatpur

Anthropometry

Again, just to emphasize, if the clinic form is being entered IMMEDIATELY after the KID form, the next three fields, for sex , age in years and age in months will be stored. It is assumed that these data will not change (should not) and you can confirm them by hitting the <RET> key to move to question 13. If you are NOT entering the Clinic form after the Kid form, you will see missing values, and you will need to enter these data presently.

- 11. Sex (1-2)
- 12. Age
 - 12a. Age in years (0-12)
 - 12b. Age in years (0-11)
- 13. Weight (in Kgs.) (99.9)
 - 13a. For weight measurement, child was (1-3)
 - 13b. Weight taken by (type of scale) (1-2)
- 14. Height (in cms.) (999.9)
 - 14a. For height measurement, child was (1-3)
- 15. Triceps Skinfold (in mms.) (99.9)
- 16. Mid-arm Cirumference (in cms.) (99.9)
- 17. Elbow breadth (in cms.) (99.9)
- 18. Enter number of 1st anthropometrist (99)
- 19. Enter number of person performing cross checks (99)

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After you have entered all of the data for the CLINIC FORM, there will be an internal calculation of nutritional status which uses the variables age, sex, height and weight. There is special procedure which will identify if any one or more of these variables are errors. For example, if the age is entered too high (a child is older than she really is), the programme will FLAG the record and you will be informed that there 'might' be a problem with the record. At such a point, you should look to the top of the screen and note the different data which have been entered for the four variables. IF THERE IS A DATA ENTRY ERROR, you should hit 'N' in response to the question 'Are all entries correct' and go back to re-enter the data. If the record is not flagged, you will have to hit 'Y' in response to the question and you will be returned to the Kid menu. At this point, you should enter a MORBIDITY FORM, if present, then the CASE-CONTROL FORM if present, and then finally a Fecal/Blood FORM if this is present for the child.

MORBIDITY FORM

If the answer to question 10 on the CLINIC FORM is YES, there should be a morbidity form and this should be filled out presently. If this form is entered just following the clinic form, all identification will be stored.

- | | |
|---|-------|
| 2. Does child have fever | (1-2) |
| 3. Has child been coughing in past two weeks | (1-2) |
| 3a. If YES, does child have cough now | (1-2) |
| 4. Child's breathing rate | (1-4) |
| 5. Does child have indrawing of the chest | (1-2) |
| 6. Child have cough more than four weeks duration | (1-2) |
| 7. Is there wheezing | (1-2) |
| 8. Is there low grade fever | (1-2) |
| 9. Does child have night sweats | (1-2) |

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10. Does child have loss of appetite (1-2)
11. Is there history of asthma (1-2)
12. Does child have measles (1-2)
13. Is child currently having an episode of diarrhea (1-2)
13. If YES, answer 13a. - 13f.
- 13a. How long has episode lasted (1-21)
- 13b. What is frequency of stools (1-15)
- 13c. Does child have: sunken eyeballs (1-2)
- 13d. Dry skin (1-2)
- 13e. Loose skin (1-2)
- 13f. Dry tongue (1-2)

MATCHED XEROPHTHAMIA CASE-CONTROL FORM

If the child for whom you have just entered data is a CASE, that is, showing any of the four ocular signs or symptoms considered to be indicators of xerophthalmia, then there should be a matched case-control form for the child. If there is, enter this now. For this form, you will have stored FOR THE CASE, all identification information, as well as, sex, age, weight and height, so when you get to these fields (assuming no discrepancies across forms), you only have to hit the <RET> to accept the stored values. However, for the Control you will need to enter all of the information. Please remember that the AGE AND SEX of the Case and Control are supposed to be matched (the same), so if you notice that there are substantial differences between the two, for example, the case is 48 months, while the control is only 4 months! you will need to make a note of this, and pass it to the field team.

Data for Case

1. Sex - CASE (1-2)
(Variables 1,3,3a,4a,4b will be stored from Clinic form)
2. Type of Xerophthalmia (1-4)
If child has several signs or symptoms, enter the value for the most severe sign (increase number 2.3.4 expresses severity)

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3. Weight (in kgs.) - CASE	(99.9)
3a. Height (in cms.) - CASE	(999.9)
4. Age - CASE	
4a. Age in years	(0-12)
4b. Age in years	(0-11)
5. Measles - CASE	(1-5)
6. Severe Diarrhea - CASE	(1-5)
7. Severe Cough - CASE	(1-5)
8. Fever - CASE	(1-5)
9. Expulsion of worms - CASE	(1-5)
10. Acute food shortage - CASE	(1-5)
11. When caregiver first noticed signs	(1-8)
12. Does CASE eat GLV	(1-2)
12a. If YES, how often	(1-4)
12b. , what portion size	(1-6)

Data for Matched Control

The first variables you will need to enter are the identification fields. Since the matched control is always from the same Site, the Site number is internally stored and you will not be able to change this. You will, however, be asked to provide the household, mother and child number for the control. The only check built in is to assure that the first digit of the kid I.D. and the Mother I.D. match, so be careful when you enter these data. A good practice is to look at the sheet once before typing 'Y' in response to the question, 'Are you sure these entries are okay?' Once this information has been entered, you will be ready to go through the rest of the matched controls record.

1. Sex - CONTROL	(1-2)
2. Weight (in kgs.) - CONTROL	(99.9)
2a. Height (in cms.) - CONTROL	(999.9)
3. Age - CONTROL	
3a. Age in years	(0-12)
3b. Age in years	(0-11)
4. Measles - CONTROL	(1-5)
5. Severe Diarrhea - CONTROL	(1-5)
6. Severe Cough - CONTROL	(1-5)
7. Fever - CONTROL	(1-5)
8. Expulsion of worms - CONTROL	(1-5)
9. Acute food shortage - CONTROL	(1-5)
10. Does CONTROL eat GLV	(1-2)
10a. If YES, how often	(1-4)
10b. , what portion size	(1-6)

STOOL/BLOOD FORM

This is the final child level form, and if entered for the same child for whom you have entered the Kid, Clinic (and where applicable, the Morbidity and Case-control) forms, the identification information should be stored. When you call this procedure up from the Kid menu, you will only have to confirm the I.D. information, and then you may move on to the other 6 variables which make up the Blood and Fecal Exam Form.

1. Name of the child,	(Character - 20)
2. Designation (Case, control, random)	(1-3)

3. Ascarislumbrecoides Count	(999)
4. Ancylostoma Duodenale Count	(999)
5. Serum testtube number	(1000-9999)
6. Serum Vitamin A (mcg/dl)	(99.9)
Date of the Blood exam	(Date)
Date of the Fecal exam	(Date)
Lab Technician Number	(1-9)

CONTINUING

This should exhaust the data entry for the first child, and will bring you back to the Kid menu. It is now recommended that you repeat the process for all child level forms for all children of the same mother.

When this has been completed, move back one menu further by selecting the option 'Return to menu' and you may now select 'Mother' form if there is a second (or third, or..) mother in the 'active' household. Once you have entered all mother data and the data for their children, you will be ready to go to the next household, entering the household data and initiating a new cycle of data entry.

BACKUP AND COPY PROCEDURES

The copying procedures for the second year survey are almost identical to those of the first year. An important, if not the only difference is that this year's data will be backed up onto the Zenith computer in the Data Entry room on DRIVE E:, while the data from the first year (Baseline) are stored on Drive D:. IN addition, the second year's data will be stored in subdirectories denoted with a '2' at the beginning of the subdirectory name, thus the data for site 1 from the second year will be stored in the subdirectory:

E:\2SITE01,

while the data for site 2 will be located in \2SITE02, and site 3 in subdirectory in \2SITE03.

The disk which is labelled EDIT - Round 2 contains the procedures which are going to be used to copy the data from the data entry machines onto the Zenith 'EDIT' computer, as well as procedures necessary to backup the data from the EDIT computer onto diskettes. The programmes and the format are identical to those used for the baseline data, so the process should be immediately accessible.

First, copy the programme from the diskette onto the Zenith EDIT computer. Place the diskette into the A: drive and follow the next steps:

```
1)  E:                <RET>
2)  CD \TMP          <RET>
3)  COPY A:EDIT2.EXE <RET>
```

This will copy the file, EDIT2.EXE into the \TMP subdirectory on the E: drive and you will be set up. To enter the programme, you only need type : EDIT2 and <RET> from this subdirectory. It is always important to remember to change to the E: drive as this is where all of the subdirectories are located for the second year's survey !!

When you enter the programme, you will note that there are only three options, COPY, BACKUP and BROWSE.

The COPY OPTION IS USED TO COPY DATA FROM DISKETTE ONTO THE HARD DISK

The BACKUP OPTION IS USED TO BACKUP DATA FROM THE EDIT COMPUTER HARD DISK ONTO THE BACKUP DISKETTES (Either High Density or Low Density)

The BROWSE OPTION is to Browse the data.

COPY DATA FROM DATA ENTRY COMPUTERS

In the data entry programme, from the main menu, the second option is to Copy data. When a site has been completed, that is all forms have been entered, you are ready to Copy the data for this site onto a diskette. It is recommended that for this purpose you use a NEW, FORMATTED, DOUBLE DENSITY diskette. Make sure that you know what the site number is for which the data has been entered, as this will determine which subdirectory the data will ultimately be copied into on the EDIT computer.

Insert a diskette in the A: drive of the data entry machine on which the completed site is located. Make sure that you are in the Data Entry Programme and the Main data entry menu appears on the screen.

Select Option 2, by highlighting 'Copy data' and hit the <RET> key. The first question you are asked is the number of the subdirectory for which you would like to Copy data from the hard disk onto the diskette. You should type in the number of the site and <RET>. The computer will then inform you that in copying the data onto a diskette, you will erase all files that were previously on the diskette !! This should not be a problem if the diskette being used is a newly formatted one which contains no data. You will be asked two times to confirm that you would like to copy the data. Type 'Y' both times to confirm and wait for the data files to be copied.

When finished, the data entry screen will appear. Now BEFORE setting up the subdirectory on the data entry machine, please follow the next two steps:

- 1) Take the diskette out of the machine and go to the EDIT computer, and place the diskette into the A: drive. Type:

```
E:           <RET>
CD \TMP      <RET>
EDIT2        <RET>
```

- 2) Select Option '2' (Copy Data). You will then be asked into which subdirectory ON THE HARD DISK you would like to copy the data files from the DISKETTE. Type the site number and <RET>. All data files have been copied onto the hard disk when you will see the names of the different files appearing on the screen, and then the edit menu appears again.

Once completed, you will be ready to Set up the subdirectory on the data entry computer for a new site. Get the questionnaire forms for a new site, as well as the diskette containing the baseline data for the site from the plastic diskette box, and you will be ready. Follow the instructions in the data entry manual to set up the subdirectory.

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for Vitamin A Intervention - Second Survey

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```
1  *:*:*****
2  *:*
3  *:*      Program: ASKOK.PRG
4  *:*
5  *:*      System: Vitamin A Intervention - Second Survey
6  *:*      Author: J.G., B.T., S.P
7  *:*      Copyright (c) 1990, VACSP
8  *:*      Last modified: 04/04/90    20:40
9  *:*
10 *:*      Called by: WARD.PRG
11 *:*          : HH.PRG
12 *:*          : MOM.PRG
13 *:*          : MORTAL.PRG
14 *:*          : DIAKAP.PRG
15 *:*          : KID.PRG
16 *:*          : CLINIC.PRG
17 *:*          : MORBID.PRG
18 *:*          : CASECON.PRG
19 *:*          : SHIT.PRG
20 *:*
21 *:*      Documented: 04/09/90 at 09:32          FoxDoc version 1.0
22 *:*:*****
23
.  STORE 'MOON' TO NIGHT
25 DO WHILE NIGHT='MOON' .and. MQUIT <> 'Y'
26   STORE 'N' TO AN3
27   @ 23,3 SAY MSPACE
28   @ 23,20 SAY 'IS EVERYTHING CORRECT <Y/N> ' GET AN3 PICTURE 'I'
29   READ
30   DO CASE
31   CASE AN3 = 'Y'
32     STORE 'RAIN' TO DAY
33     STORE 'RAIN' TO NIGHT
34   CASE AN3 = 'N'
35     STORE 'RAIN' TO NIGHT
36   CASE AN3 = 'Q'
37     STORE 'RAIN' TO NIGHT
38     STORE 'Y' TO MQUIT
39   OTHERWISE
40     @ 23,3 SAY MSPACE
41     @ 23,20 SAY "PLEASE ENTER EITHER 'Y' OR 'N' OR 'Q' TO QUIT"
42     WAIT
43   ENDCASE
44 ENDDO
45
46 return
47 *:* EOF: ASKOK.PRG
```

122

```
1  *:*****
2  *:
3  *:      Program: CASECON.PRG
4  *:
5  *:      System: Vitamin A Intervention - Second Survey
6  *:      Author: J.G., B.T., S.P
7  *:      Copyright (c) 1990, VACSP
8  *:      Last modified: 04/06/90    19:26
9  *:
10 *:      Procs & Frcts: CASE1
11 *:                : CASE2
12 *:                : APENCASE
13 *:
14 *:      Called by: KIDMENU.PRG
15 *:
16 *:      Calls: CASE1          (procedure in CASECON.PRG)
17 *:                : ASKOK.PRG
18 *:                : CASE2          (procedure in CASECON.PRG)
19 *:                : APENCASE      (procedure in CASECON.PRG)
20 *:
21 *:      Documented: 04/09/90 at 09:33          FoxDoc version 1.0
22 *:*****
23 SET PROCEDURE TO CASECON
24
25 IF CLINDONE <> 'Y'  && If entry of form follows CLINIC FORM
26   STORE 9 TO MCLINSEX
27   STORE 99 TO MCLINYRS,MCLINMTH
28   STORE 99.9 TO MCLINWT
29   STORE 999.9 TO MCLINHNT
30   store 999 to mclinage
31 ELSE      && Stores values for child (Case) from CLINIC FORM
32   MCLINSEX = MSEX
33   MCLINYRS = MAGEYRS
34   MCLINMTH = MAGEMTH
35   MCLINAGE = MAGE
36   MCLINWT = MWT
37   MCLINHNT = MHT
38 ENDIF
39 mclinhh = mhh
40 mclinmom = mmomno
41 mclinkid = mkidno
42
43
44 STORE 9 TO MCLINMEAS, MCLINDIA, MCLINCOUGH, MCLINFEV, MCLINWORM, MCLINFOOD, MSIGNS, MCLINDGLV, MCLINEAT, MCLINSIZE, MTYPE
45 STORE 9 TO MCONSEX,MCONMEAS, MCONDIA, MCONCOUGH, MCONFEV, MCONWORM, MCONFOOD, MCONDGLV, MCONCAT, MCONSIZE, MCONMOM
46 STORE 99 TO MCONYRS,MCONMTH, MCONAGE, MCONKID
47 STORE 999 TO MCONHH
48 STORE 99.9 TO MCONWT
49 STORE 999.9 TO MCONHNT
50 MQUIT = 'N'
51
52
53 DAY = 'SUN'
54 DO WHILE DAY = 'SUN' .AND. MQUIT <> 'Y'
55   DO CASE1
56   DO ASKOK
57 ENDDO
58
59 DAY = 'SUN'
60 DO WHILE DAY = 'SUN' .AND. MQUIT <> 'Y'
61   DO CASE2
62   DO ASKOK
63 ENDDO
64
```

123

```
65 DAY = 'SUN'
66 DO WHILE DAY = 'SUN' .AND. MQUIT <> 'Y'
67   DO APENCASE
68     CLOSE ALL
69     MQUIT = 'Y'
70 ENDDO
71
72 SET PROC TO
73 SET PROC TO MAINMENU
74 RETURN
75
76
77
78 *|*****
79 *|
80 *|   Procedure: CASE1
81 *|
82 *|   Called by: CASECON.PRG
83 *|
84 *|*****
85 PROCEDURE CASE1
86
87 @ 8,05 SAY 'CASE DATA : 1a. SEX'
88   J @ 8,50 SAY '2. TYPE OF XERO '
89 @ 9,20 SAY '3. Weight           Height'
90 @ 10,20 SAY '4. Age in years      months  "'
91 @ 12,10 SAY '5. Measles ?"'
92 @ 13,10 SAY '6. Severe diarrhea ?"'
93 @ 14,10 SAY '7. Severe cough  ?"'
94 @ 15,10 SAY '8. Fever           ?"'
95 @ 16,10 say  "9. Worms in Faeces ?"'
96 @ 17,10 say  "10. Acute food shortage ?"'
97 @ 18,15 say  '11. When caregiver first noticed signs ?'
98 @ 20,10 say  '12. Does child eat DGLV ?'
99 @ 21,15 say  '12a. If YES, how often ?'
100 @ 22,15 say '12b.           , what portion size ?'
101
102 @ 8,30 get mclinsex pict '9' range 1,2
103 @ 8,68 get mtype pict '9' range 1,4
104 @ 9,38 get mclinwt pict '99.9'
105 @ 9,55 get mclinht pict '999.9'
106 @ 10,38 get mclinyrs pict '99' range 0,12
107 @ 10,55 get mclinmth pict '99' range 0,11
108 @ 12,60 get mclinmeas pict '9' range 1,5
109 @ 13,60 get mclindia pict '9' range 1,5
110 @ 14,60 get mclincough pict '9' range 1,5
111 @ 15,60 get mclinfev pict '9' range 1,5
112 @ 16,60 get mclinworm pict '9' range 1,5
113 @ 17,60 get mclinfood pict '9' range 1,5
114 @ 18,60 get msigns pict '9' range 1,8
115 @ 20,60 get mclindglv pict '9' range 1,2
116 read
117 if mclindglv = 1
118   @ 21,65 get mclineat pict '9' range 1,4
119   @ 22,65 get mclinsize pict '9' range 1,6
120   read
121 else
122   mclineat = 8
123   mclinsize = 8
124 endif
125
126
127 *|*****
128 *|
```

124

```
129 *| Procedure: CASE2
130 *|
131 *| Called by: CASECON.PRG
132 *|
133 *|*****
134 PROCEDURE CASE2
135
136 CLEAR
137 @ 2,05 SAY 'CONTROL DATA '
138 @ 2,40 say 'Site number '
139 @ 2,65 say msite pict '999'
140 @ 4,40 say 'Household number '
141 @ 4,65 get mconhh pict '999'
142 @ 5,40 say 'Mother number '
143 @ 5,65 get mconmom pict '9'
144 @ 6,40 say 'Child number '
145 @ 6,65 get mconkid pict '99'
146 @ 0,1 to 24,79 double
147 @ 1,3 TO 7,77 DOUBLE
148 read
149
150 @ 8,25 SAY '1a. Sex'
151 @ 9,20 SAY '2. Weight Height'
152 @ 11,20 SAY '3. Age in years months ''
153 @ 13,10 SAY '4. Measles ?'
154 @ 14,10 SAY '5. Severe diarrhea ?'
155 @ 15,10 SAY '6. Severe cough ?'
156 @ 16,10 SAY '7. Fever ?'
157 @ 17,10 say '8. Worms in Faeces ?'
158 @ 18,10 say '9. Acute food shortage ?'
159 @ 20,10 say '10. Does child eat DGLV ?'
160 @ 21,15 say '10a. If YES, how often ?'
161 @ 22,15 say '10b. , what portion size ?'
162
163 @ 8,40 get mconsex pict '9' range 1,2
164 @ 9,38 get mconwt pict '99.9'
165 @ 9,55 get mconht pict '999.9'
166 @ 11,38 get mconyrs pict '99' range 0,12
167 @ 11,55 get mconmth pict '99' range 0,11
168 @ 13,60 get mconmeas pict '9' range 1,5
169 @ 14,60 get mcondia pict '9' range 1,5
170 @ 15,60 get mconcough pict '9' range 1,5
171 @ 16,60 get mconfev pict '9' range 1,5
172 @ 17,60 get mconworm pict '9' range 1,5
173 @ 18,60 get mconfood pict '9' range 1,5
174 @ 20,60 get mcondglv pict '9' range 1,2
175 read
176 if mcondglv = 1
177     @ 21,65 get mconeat pict '9' range 1,4
178     @ 22,65 get mconsize pict '9' range 1,6
179 read
180 else
181     mconeat = 8
182     mconsize = 8
183 endif
184
185
186
187
188 *|*****
189 *|
190 *| Procedure: APENCASE
191 *|
192 *| Called by: CASECON.PRG
```

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```
193 *|
194 *|           Uses: CASECON.DBF
195 *|
196 *|*****
197 PROCEDURE APENCASE
198
199
200 CLOSE ALL
201 use casecon
202 append blank
203 replace site with msite, clinhh with mclinhh, clinmom with mclinmom, clinkid with mclinkid, clinsex with mclinsex
204 replace clinyrs with mclinyrs, clinmth with mclinmth, type with mtype, clinwt with mclinwt, clinht with mclinht
205 replace clinmeas with mclinmeas, clindia with mclindia, clincough with mclincough, clinfev with mclinfev, clinworm with m
206 clinworm
207 replace clinfood with mclinfood, signs with msigns, clindglv with mclindglv, clineat with mclineat, clinsize with mclinsi
208 ze
209 replace conhh with mconhh, conmom with mconmom, conkid with mconkid, consex with mconsex
210 replace conyrs with mconyrs, conmth with mconmth, conwt with mconwt, conht with mconht
211 replace conmeas with mconmeas, condia with mcondia, concough with mconconcough, confev with mconfev, conworm with mconworm
212 clear
213 @ 10,10 say "Data Record has been entered "
214 wait
215 ; close data
216 return
217 *: EOF: CASECON.PRG
```

126

```
1 *:*****
2 *:
3 *:      Program: CLINIC.PRG
4 *:
5 *:      System: Vitamin A Intervention - Second Survey
6 *:      Author: J.G., B.T., S.P
7 *:      Copyright (c) 1990, VACSP
8 *:      Last modified: 04/04/90      21:03
9 *:
10 *: Proc & Fncts: CLINIC1
11 *:                : CLINIC2
12 *:                : CLINIC3
13 *:                : APENCLIN
14 *:                : AGEALC2
15 *:                : ANTHRO
16 *:                : ZTOPCT
17 *:
18 *:      Called by: KIDMENU.PRG
19 *:
20 *:      Calls: CLINIC1      (procedure in CLINIC.PRG)
21 *:            : ASKOK.PRG
22 *:            : CLINIC2      (procedure in CLINIC.PRG)
23 *:            : CLINIC3      (procedure in CLINIC.PRG)
24 *:            : APENCLIN      (procedure in CLINIC.PRG)
25 *:
26 *:      Documented: 04/09/90 at 09:33      FoxDoc version 1.0
27 *:*****
28 SET PROCEDURE TO CLINIC
29
30 PUBLIC WHTZ, WTAGEZ, HTAGEZ, MWT, MHT
31 STORE 9 TO MACUITYR, MACUITYL, MSIGNR, MSIGNL, MBITR, MBITL, MBITRTN, MBITLTN, ;
32   MXER, MXEL, MXEINR, MXEINL, MCUR, MCUL, MKER, MKEL, MSCR, MSCL, MTRAUMA, ;
33   MRED, MHIST, MSUFF, MWTMEAS, MSCALE, MHTMEAS, MCHECK
34 STORE 99 TO MANTNO
35 STORE 99.9 TO MWT, MTS, MMUAC, MEB
36 STORE 999.9 TO MHT
37 IF KIDDONE <> 'Y'  && STORE VALUES ONLY IF NOT AFTER KID FORM
38   STORE 9 TO MSEX
39   STORE SPACE(20) TO MKIDNAME
40   STORE 99 TO MAGEYRS, MAGEMTH
41   STORE 999 TO MAGE
42 ENDIF
43 MQUIT = 'N'
44
45
46 CLINDONE = 'Y'  && IF OTHER FORMS FOLLOW CLINIC, VALUES ARE STORED
47
48 DAY = 'SUN'
49 DO WHILE DAY = 'SUN' .AND. MQUIT <> 'Y'
50   DO CLINIC1
51   DO ASKOK
52 ENDDO
53
54 DAY = 'SUN'
55 DO WHILE DAY = 'SUN' .AND. MQUIT <> 'Y'
56   DO CLINIC2
57   DO ASKOK
58 ENDDO
59
60 DAY = 'SUN'
61 DO WHILE DAY = 'SUN' .AND. MQUIT <> 'Y'
62   DO CLINIC3
63   DO ASKOK
64 ENDDO
```

127

```
65
66 DAY = 'SUN'
67 DO WHILE DAY = 'SUN' .AND. MQUIT <> 'Y'
68   DO APENCLIN
69   CLOSE ALL
70   MQUIT = 'Y'
71 ENDDO
72
73 CLOSE ALL
74 SET PROC TO
75 SET PROC TO MAINMENU
76 RETURN
77
78
79
80 *|*****
81 *|
82 *|   Procedure: CLINIC1
83 *|
84 *|   Called by: CLINIC.PRG
85 *|
86 *|*****
87 PROCEDURE CLINIC1
;
89 @ 8,48 say 'Right'
90 @ 8,68 say 'Left'
91 @ 10,10 SAY '2. Visual acuity '
92 @ 12,10 say '3. Signs of Xerophthlamia'
93 @ 14,10 say '4. Bitots Spots'
94 @ 15,15 say '4a. If YES, temporal, nasal, both'
95 @ 17,10 say '5. Corneal xerosis'
96 @ 18,15 say '5a. If YES, cornea or inferior'
97 @ 20,10 say '6. Corneal ulceration'
98 @ 22,10 say '7. Keratomalacia'
99
100 @ 10,50 GET MACUITYR PICT '9' RANGE 1,4
101 @ 10,70 GET MACUITYL PICT '9' RANGE 1,4
102 @ 12,50 GET MSIGNR PICT '9' RANGE 1,2
103 @ 12,70 GET MSIGNL PICT '9' RANGE 1,2
104 READ
105 IF MSIGNR = 1 .OR. MSIGNL = 1
106   @ 14,50 GET MBITR PICT '9' RANGE 1,2
107   @ 14,70 GET MBITL PICT '9' RANGE 1,2
108   READ
109   IF MBITR = 1
110     @ 15,50 GET MBITRTM PICT '9' RANGE 1,3
111     READ
112   ENDIF
113   IF MBITL = 1
114     @ 15,70 GET MBITLTM PICT '9' RANGE 1,3
115     READ
116   ENDIF
117   @ 17,50 GET MXER PICT '9' RANGE 1,2
118   @ 17,70 GET MXEL PICT '9' RANGE 1,2
119   READ
120   IF MXER = 1
121     @ 18,50 GET MXEINR PICT '9' RANGE 1,2
122     READ
123   ENDIF
124   IF MXEL = 1
125     @ 18,70 GET MXEINL PICT '9' RANGE 1,2
126     READ
127   ENDIF
128   @ 20,50 GET MCUR PICT '9' RANGE 1,2
```

108

```
129 @ 20,70 GET MCUL PICT '9' RANGE 1,2
130 @ 22,50 GET MKER PICT '9' RANGE 1,2
131 @ 22,70 GET MKEL PICT '9' RANGE 1,2
132 READ
133 ENDIF
134
135
136
137 *|*****
138 *|
139 *| Procedure: CLINIC2
140 *|
141 *| Called by: CLINIC.PRG
142 *|
143 *|*****
144 PROCEDURE CLINIC2
145
146 CLEAR
147 @ 0,1 TO 24,79 DOUBLE
148 @ 4,48 say 'Right'
149 @ 4,68 say 'Left'
150 @ 6,10 say '8. Corneal scarring '
151 @ 8,15 say '8a. If YES, is there history of trauma ?'
152 @ 9,15 say '8b. If YES, are eyes sticky and red ?'
153 @ 11,10 say '9. History of nightblindness ? '
154 @ 13,10 say '10. Child have any diseases in last 2 weeks ?'
155
156 @ 6,50 GET MSCR PICT '9' RANGE 1,2
157 @ 6,70 GET MSCL PICT '9' RANGE 1,2
158 READ
159 IF MSCR = 1 .OR. MSCL = 1
160 @ 8,62 GET MTRAUMA PICT '9' RANGE 1,2
161 @ 9,62 GET MRED PICT '9' RANGE 1,2
162 READ
163 ELSE
164 MTRAUMA = 8
165 MRED = 8
166 ENDIF
167 @ 11,58 GET MHIST PICT '9' RANGE 1,2
168 @ 13,58 GET MSUFF PICT '9' RANGE 1,2
169 READ
170
171
172
173 *|*****
174 *|
175 *| Procedure: CLINIC3
176 *|
177 *| Called by: CLINIC.PRG
178 *|
179 *| Calls: AGECALC2 (procedure in CLINIC.PRG)
180 *| : ANTHRO (procedure in CLINIC.PRG)
181 *|
182 *|*****
183 PROCEDURE CLINIC3
184
185 CLEAR
186 @ 0,1 TO 24,79 DOUBLE
187 @ 2,10 SAY '11. Sex '
188 @ 3,10 say '12. Age in years months'
189 @ 5,10 say '13. Weight in kgs. '
190 @ 6,15 say '13a. For weight measurement ?'
191 @ 7,15 say '13b. Weight taken by what scale ?'
192 @ 9,10 say '14. Height in cms. '
```

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```
193 @ 10,15 say '14a. Height measurement by '  
194 @ 12,10 say '15. Triceps skinfold '  
195 @ 14,10 say '16. Mid arm circumference'  
196 @ 16,10 say '17. Elbow breadth'  
197 @ 18,10 say 'Anthro number '  
198 @ 18,50 say 'Cross check'  
199  
200 @ 2,40 GET MSEX PICT '9' RANGE 1,2  
201 DO CASE  
202 CASE MSEX = 1  
203 @ 2,50 say 'Male'  
204 CASE MSEX = 2  
205 @ 2,50 say 'Female'  
206 ENDCASE  
207 @ 3,29 GET MAGEYRS PICT '99' RANGE 0,12  
208 @ 3,47 GET MAGENTH PICT '99' RANGE 0,11  
209 READ  
210 DO AGEALC2  
211 @ 5,50 GET MWT PICT '99.9'  
212 @ 6,65 GET MWTMEAS PICT '9' RANGE 1,3  
213 @ 7,65 GET MSCALE PICT '9' RANGE 1,2  
214 @ 9,50 GET MHT PICT '999.9'  
215 @ 10,65 GET MHTMEAS PICT '9' RANGE 1,3  
216 @ 12,50 GET MTS PICT '99.9'  
217 @ 14,50 GET MEB PICT '99.9'  
218 @ 16,50 GET MEB PICT '99.9'  
219 @ 18,40 GET MANTNO PICT '99'  
220 @ 18,70 GET MCHECK PICT '9'  
221 READ  
222  
223 FELS36=2  
224 HTAGEZ=9.99  
225 HTAGEP=99.9  
226 HTAGEM=999.9  
227 WTAGEZ=9.99  
228 WTAGEP=99.9  
229 WTAGEM=999.9  
230 WTHYZ=9.99  
231 WTHTP=99.9  
232 WTHYM=999.9  
233 MNAGE=MAGE  
234 MNSEX=MSEX  
235 MNWT=MWT  
236 MNHT=MHT  
237 CLEAR  
238 DO ANTHRO WITH MNAGE,MNSEX,MNWT,MNHT,FELS36,HTAGEZ,HTAGEP,HTAGEM,WTAGEZ,WTAGEP,WTAGEM,WTHYZ,WTHTP,WTHYM  
239  
240 @ 1,1 say "These are the anthropometric calculations "  
241 @ 2,1 SAY 'Age in mths. ' + str(mnage,6,2)  
242 @ 3,1 SAY 'Sex: 1=male 2=female ' + str(mnsex,6)  
243 @ 4,1 SAY 'Weight in kg. ' + str(mnwt,6,2)  
244 @ 5,1 SAY 'Height in cm. ' + str(mnht,6,2)  
245 @ 7,0  
246 TEXT  
247  
248  
249 HT. /AGE  
250  
251 WT. /AGE  
252  
253 WT. /HT.  
254 ENDTEXT  
255 @ 7,10 TO 15,60  
256 @ 10,30 SAY STR(HTAGEZ,5,2)
```

```
257 @ 12,30 SAY STR(WTAGEZ,5,2)
258 @ 14,30 SAY STR(WHTTZ,5,2)
259 IF (WTAGEZ < -6 .OR. WTAGEZ > 6) .OR. (WHTTZ < -4 .OR. WHTTZ > 6) .OR. ;
260     (WHTTZ < -4 .OR. WHTTZ > 6)
261 @ 16,10 SAY 'FLAG - THERE IS SOMETHING POSSIBLY WRONG WITH THIS'
262 @ 17,10 SAY 'RECORD - PLEASE GO BACK AND MAKE SURE THAT THE DATA'
263 @ 18,10 SAY 'ENTRY WAS CORRECT, IF NOT MAKE NECESSARY CHANGES !'
264 @ 20,12 SAY "CHECK SEX, AGE, HEIGHT AND WEIGHT FIELDS"
265     WAIT
266 ENDIF
267
268
269 *|*****
270 *|
271 *|     Procedure: AGECALC2
272 *|
273 *|     Called by: CLINIC3             (procedure in CLINIC.PRG)
274 *|
275 *|*****
276 PROCEDURE AGECALC2
277
278
279 * THIS IS WHERE THE KIDS AGE IS CALCULATED FROM AGESON MONTHS AND YEARS
280 | MAGE= 999
281 DO CASE
282 CASE MAGEYRS <> 99 .AND. MAGEMTH = 99
283     MAGE=(MAGEYRS*12)
284 CASE MAGEYRS <> 99 .AND. MAGEMTH <> 99
285     MAGE=(MAGEYRS*12)+ MAGEMTH
286 CASE MAGEYRS = 99 .AND. MAGEMTH <> 99
287     MAGE=(MAGEMTH)
288 ENDCASE
289 @ 3, 10 SAY '12. Age in years           months           Calculated Age'
290 @ 3,29 SAY LTRIM(STR(MAGEYRS))
291 @ 3,46 SAY LTRIM(STR(MAGEMTH))
292 IF MAGE <> 999
293     @ 3,69 SAY LTRIM(STR(MAGE))
294 ELSE
295     @ 3,69 say 'Missing'
296 ENDIF
297
298
299 *|*****
300 *|
301 *|     Procedure: ANTHRO
302 *|
303 *|     Called by: CLINIC3             (procedure in CLINIC.PRG)
304 *|
305 *|     Calls: ZTOPCT                 (procedure in CLINIC.PRG)
306 *|
307 *|*****
308 PROCEDURE ANTHRO
309
310
311 PARAMETERS MAGE,MSEX,W_T,H_T,FELS36,H_TMAGEZ,H_TMAGEP,H_TMAGEM,W_TMAGEZ,W_TMAGEP,W_TMAGEM,W_TH_TZ,W_TH_TP,W_TH_TM
312 MAGEKNOWN=.F.
313 W_TKNOWN=.F.
314 H_TKNOWN=.F.
315
316 * ALL ANTHROPOMETRIC INDICIES ARE INITIALLY SET TO MISSING/OUTSIDE OF
317 * RANGE VALUES
318
319 H_TMAGEZ=9.99
320 H_TMAGEP=99.9
```

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321 H_TMAGEN=999.9
322 W_TMAGEZ=9.99
323 W_TMAGEP=99.9
324 W_TMAGEN=999.9
325 W_TH_TZ=9.99
326 W_TH_TP=99.9
327 W_TH_TM=999.9
328
329 * Determine if the age is known or within range of appropriate values
330
331 IF MAGE>=0 .AND. MAGE<216
332     MAGEKNOWN=.T.
333 ENDIF
334
335 * Determine if weight is known
336
337 IF W_T>0 .AND. W_T<99.9    && GET VALID VALUES
338     W_TKNOWN=.T.
339 ENDIF
340
341 * Determine if height is known
342
343 IF H_T>0 .AND. H_T<999.9 &&.AND. H_T<=99.9    && GET GOOD NUMBERS
344     H_TKNOWN=.T.
345 ENDIF
346
347 * If sex is not known or improperly coded, if age is greater than 18 years,
348 * or if height and weight are unknown, return to calling program
349
350
351 IF MSEX < 1 .OR. MSEX > 2 .OR. (MAGE > 215.99 .AND. MAGE <= 999.99) .OR. (.NOT. W_TKNOWN .AND. .NOT. H_TKNOWN)
352     RETURN
353 ENDIF
354
355 * Curves for males - Check out dem curves .....
356
357 IF MSEX=1
358     IF MAGEKNOWN
359         IF H_TKNOWN            && Height for Age calculations
360             DO CASE
361                 CASE MAGE<9    && Age less than 9 months, FELS data
362                     KMAGE=MAGE
363                     H_TMAGE50= 50.4849000 + ( 4.3815500 * KMAGE)+( -0.3120880 * KMAGE^2)+( 0.0105514 * KMAGE^3)    && 21
364                     IF H_T<H_TMAGE50
365                         H_TMAGE03= 46.1824000 + ( 4.0125700 * KMAGE)+( -0.2554490 * KMAGE^2)+( 0.00789966 * KMAGE^3) && 1
366                     ELSE
367                         H_TMAGE97= 54.7862000 + ( 4.7522000 * KMAGE)+( -0.3688450 * KMAGE^2)+( 0.0132042 * KMAGE^3) && 41
368                     ENDIF
369                 CASE MAGE>=9 .AND. MAGE<24    && Age 9-24 months, FELS data
370                     KMAGE=MAGE-9
371                     H_TMAGE50= 72.3318000 + ( 1.3279700 * KMAGE)+( -0.0271990 * KMAGE^2)+( 0.000448522 * KMAGE^3)    && 22
372                     IF H_T<H_TMAGE50
373                         H_TMAGE03= 67.3630000 + ( 1.3341000 * KMAGE)+( -0.0421583 * KMAGE^2)+( 0.00101581 * KMAGE^3) && 2
374                     ELSE
375                         H_TMAGE97= 77.3055000 + ( 1.3216300 * KMAGE)+( -0.0123304 * KMAGE^2)+( -0.000113662 * KMAGE^3) && 42
376                     ENDIF
377                 CASE MAGE>=24 .AND. MAGE<36 .AND. FELS36=1    && FELS DATA
378                     KMAGE=MAGE-24
379                     H_TMAGE50= 87.6453000 + ( 0.8147520 * KMAGE)+( -0.00701552 * KMAGE^2)+( 0.0000609604 * KMAGE^3)    && 23
380                     IF H_T<H_TMAGE50
381                         H_TMAGE03= 81.3173000 + ( 0.7550230 * KMAGE)+( -0.00355289 * KMAGE^2)+( -0.000590137 * KMAGE^3) && 3
382                     ELSE
383                         H_TMAGE97= 93.9720000 + ( 0.8749970 * KMAGE)+( -0.0174451 * KMAGE^2)+( 0.000693745 * KMAGE^3) && 43
384                     ENDIF

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385 CASE MAGE>=24 .AND. MAGE<138 &&NCHS/CDC
386 KIMAGE=MAGE-24
387 H_TIMAGE50= 85.5931000 + ( 0.8377950 * KIMAGE)+( -0.00533792 * KIMAGE^2)+( 0.0000233837 * KIMAGE^3) && 30
388 IF H_T<H_TIMAGE50
389 H_TIMAGE03= 79.6017000 + ( 0.7250050 * KIMAGE)+( -0.00394565 * KIMAGE^2)+( 0.0000149043 * KIMAGE^3) && 10
390 ELSE
391 H_TIMAGE97= 91.5767000 + ( 0.9508950 * KIMAGE)+( -0.00673349 * KIMAGE^2)+( 0.0000318732 * KIMAGE^3) && 50
392 ENDIF
393 CASE MAGE>=138 .AND. MAGE<168
394 KIMAGE=MAGE-138
395 H_TIMAGE50= 146.3740000 + ( 0.5324320 * KIMAGE)+( 0.0026593 * KIMAGE^2)+( -0.0000599481 * KIMAGE^3) && 31
396 IF H_T<H_TIMAGE50
397 H_TIMAGE03= 133.0560000 + ( 0.4064850 * KIMAGE)+( 0.00115162 * KIMAGE^2)+( 0.0000272229 * KIMAGE^3) && 11
398 ELSE
399 H_TIMAGE97= 159.6920000 + ( 0.6583320 * KIMAGE)+( 0.00416714 * KIMAGE^2)+( -0.000147054 * KIMAGE^3) && 51
400 ENDIF
401 CASE MAGE>=168 .AND. MAGE<204
402 KIMAGE=MAGE-168
403 H_TIMAGE50= 163.1220000 + ( 0.5301310 * KIMAGE)+( -0.00273603 * KIMAGE^2)+( -0.0000522267 * KIMAGE^3) && 32
404 IF H_T<H_TIMAGE50
405 H_TIMAGE03= 147.0220000 + ( 0.5490840 * KIMAGE)+( 0.00360168 * KIMAGE^2)+( -0.000162614 * KIMAGE^3) && 12
406 ELSE
407 H_TIMAGE97= 179.2220000 + ( 0.5113160 * KIMAGE)+( -0.00906767 * KIMAGE^2)+( 0.0000577848 * KIMAGE^3) && 52
408 ENDIF
409 CASE MAGE>=204 .AND. MAGE<216
410 KIMAGE=MAGE-204
411 H_TIMAGE50= 176.2220000 + ( 0.1299240 * KIMAGE)+( -0.00838083 * KIMAGE^2)+( 0.00014343 * KIMAGE^3) && 33
412 IF H_T<H_TIMAGE50
413 H_TIMAGE03= 163.8700000 + ( 0.1761610 * KIMAGE)+( -0.0139606 * KIMAGE^2)+( 0.000257402 * KIMAGE^3) && 13
414 ELSE
415 H_TIMAGE97= 188.5740000 + ( 0.0831110 * KIMAGE)+( -0.00282691 * KIMAGE^2)+( 0.0000382714 * KIMAGE^3) && 53
416 ENDIF
417 ENDCASE
418
419 * Compute Z scores
420
421 IF H_T<H_TIMAGE50
422 H_TIMAGEZ=((H_TIMAGE50-H_T)/(H_TIMAGE50-H_TIMAGE03))*(-1.8807936)
423 ELSE
424 H_TIMAGEZ=((H_T-H_TIMAGE50)/(H_TIMAGE97-H_TIMAGE50))*(1.8807936)
425 ENDIF
426
427 * Compute percent of median
428
429 H_TIMAGEH=(H_T/H_TIMAGE50)*100
430
431 * Call up procedure ZTOPCT to convert a Z score to a percentile
432
433 DO ZTOPCT WITH H_TIMAGEZ,H_TIMAGEH
434 ENDF
435 IF W_TKNOWN
436 DO CASE
437 CASE MAGE<6
438 KIMAGE=MAGE
439 W_TIMAGE50= 3.2680400 + ( 1.0879500 * KIMAGE)+( -0.0677657 * KIMAGE^2)+( 0.00226565 * KIMAGE^3) && 24
440 IF W_T<W_TIMAGE50
441 W_TIMAGE03= 2.4974000 + ( 0.4620560 * KIMAGE)+( 0.0481125 * KIMAGE^2)+( -0.00458894 * KIMAGE^3) && 4
442 ELSE
443 W_TIMAGE97= 4.2091500 + ( 1.4591000 * KIMAGE)+( -0.1242120 * KIMAGE^2)+( 0.005466698 * KIMAGE^3) && 44
444 ENDIF
445 CASE MAGE>=6 .AND. MAGE<18
446 KIMAGE=MAGE-6
447 W_TIMAGE50= 7.8455400 + ( 0.5194500 * KIMAGE)+( -0.0269840 * KIMAGE^2)+( 0.000738014 * KIMAGE^3) && 25
448 IF W_T<W_TIMAGE50
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135

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449     W_TIMAGE03= 6.0105800 + ( 0.5438000 * KMAGE)+( -0.0344885 * KMAGE^2)+( 0.000973626 * KMAGE^3) && 5
450     ELSE
451     W_TIMAGE97= 9.6729900 + ( 0.5589890 * KMAGE)+( -0.0258067 * KMAGE^2)+( 0.000644479 * KMAGE^3) && 45
452     ENDIF
453     CASE (MAGE>=18 .AND. MAGE<36 .AND. FEL36=1) .OR. (MAGE>=18 .AND. MAGE<24 .AND. FEL36=2)
454     KMAGE=MAGE-18
455     W_TIMAGE50= 11.4685000 + ( 0.1906550 * KMAGE)+( -0.000415541 * KMAGE^2)+( -0.0000133747 * KMAGE^3) && 26
456     IF W_T<W_TIMAGE50
457     W_TIMAGE03= 9.2522700 + ( 0.1366840 * KMAGE)+( 0.000562077 * KMAGE^2)+( -0.0000236327 * KMAGE^3) && 6
458     ELSE
459     W_TIMAGE97= 13.7784000 + ( 0.2180430 * KMAGE)+( -0.00260545 * KMAGE^2)+( 0.000106811 * KMAGE^3) && 46
460     ENDIF
461     CASE MAGE>=24 .AND. MAGE<96      &&NCHS/CDC
462     KMAGE=MAGE-24
463     W_TIMAGE50= 12.3424000 + ( 0.2024450 * KMAGE)+( -0.00116412 * KMAGE^2)+( 0.0000118225 * KMAGE^3) && 34
464     IF W_T<W_TIMAGE50
465     W_TIMAGE03= 10.2271000 + ( 0.1106050 * KMAGE)+( 0.000502728 * KMAGE^2)+( -0.00000356088 * KMAGE^3) && 14
466     ELSE
467     W_TIMAGE97= 15.4874000 + ( 0.2199860 * KMAGE)+( -0.000841307 * KMAGE^2)+( 0.0000189821 * KMAGE^3) && 54
468     ENDIF
469     CASE MAGE>=96 .AND. MAGE<156    &&NCHS/CDC
470     KMAGE=MAGE-96
471     W_TIMAGE50= 25.2764000 + ( 0.2186760 * KMAGE)+( 0.00138954 * KMAGE^2)+( 0.00000709375 * KMAGE^3) && 35
472     IF W_T<W_TIMAGE50
473     W_TIMAGE03= 19.4677000 + ( 0.1276190 * KMAGE)+( -0.000266421 * KMAGE^2)+( 0.0000234381 * KMAGE^3) && 15
474     ELSE
475     W_TIMAGE97= 34.0501000 + ( 0.3940480 * KMAGE)+( 0.00325883 * KMAGE^2)+( -0.0000164077 * KMAGE^3) && 55
476     ENDIF
477     CASE MAGE>=156 .AND. MAGE<204  &&NCHS/CDC
478     KMAGE=MAGE-156
479     W_TIMAGE50= 44.9515000 + ( 0.4620320 * KMAGE)+( 0.00266641 * KMAGE^2)+( -0.0000629917 * KMAGE^3) && 36
480     IF W_T<W_TIMAGE50
481     W_TIMAGE03= 31.2284000 + ( 0.3487800 * KMAGE)+( 0.00395244 * KMAGE^2)+( -0.0000674519 * KMAGE^3) && 16
482     ELSE
483     W_TIMAGE97= 65.8807000 + ( 0.6079040 * KMAGE)+( 0.000305441 * KMAGE^2)+( -0.000037818 * KMAGE^3) && 56
484     ENDIF
485     CASE MAGE>=204 .AND. MAGE<216  &&NCHS/CDC
486     KMAGE=MAGE-204
487     W_TIMAGE50= 66.3061000 + ( 0.2826100 * KMAGE)+( -0.00640439 * KMAGE^2)+( 0.0000619515 * KMAGE^3) && 37
488     IF W_T<W_TIMAGE50
489     W_TIMAGE03= 49.6166000 + ( 0.2619860 * KMAGE)+( -0.00576064 * KMAGE^2)+( 0.0000333672 * KMAGE^3) && 17
490     ELSE
491     W_TIMAGE97= 91.5854000 + ( 0.3760780 * KMAGE)+( -0.00513514 * KMAGE^2)+( -0.0000177567 * KMAGE^3) && 57
492     ENDIF
493     ENDCASE
494     IF W_T<W_TIMAGE50
495     W_TIMAGEZ=((W_TIMAGE50-W_T)/(W_TIMAGE50-W_TIMAGE03))*(-1.8807936)
496     ELSE
497     W_TIMAGEZ=((W_T-W_TIMAGE50)/(W_TIMAGE97-W_TIMAGE50))*(1.8807936)
498     ENDIF
499     W_TIMAGEH=(W_T/W_TIMAGE50)*100
500     DO ZTOPCT WITH W_TIMAGEZ,W_TIMAGEH
501     ENDIF
502     ENDIF
503     IF FEL36=1
504     MAGECUT=36
505     ELSE
506     MAGECUT=24
507     ENDIF
508     *THE FOLLOWING IS NOT LINED UP CORRECTLY BECAUSE IT IS A LONG LINE
509     IF (H_T>48.99 .AND. H_T<=145 .AND. W_TKNOWN .AND. MAGE<138) .OR.;
510     (H_T>48.99 .AND. H_T<=145 .AND. W_TKNOWN .AND. .NOT. MAGEKNOWN);
511     .AND. .NOT. (MAGE<MAGECUT .AND. H_T>=103 .AND. MAGEKNOWN);
512     .AND. .NOT. (MAGE>=MAGECUT .AND. H_T<55 .AND. MAGEKNOWN)
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513 IF (MAGE<MAGECUT .and. h_t < 103) .OR. (.NOT. MAGEKNOWN .AND. H_T<85)
514 DO CASE
515 CASE (H_T>48.99 .AND. H_T<72 .AND. MAGEKNOWN) .OR. (.NOT. MAGEKNOWN .AND. H_T<72)
516 KH_T=H_T-49
517 W_TH_T50= 3.1498600 + ( 0.1485920 * KH_T)+( 0.0094768 * KH_T^2)+( -0.0002056 * KH_T^3) && 27
518 IF W_T<W_TH_T50
519 W_TH_T03= 2.5083600 + ( 0.0681768 * KH_T)+( 0.0126871 * KH_T^2)+( -0.000259413 * KH_T^3) && 7
520 ELSE
521 W_TH_T97= 4.0935400 + ( 0.1889630 * KH_T)+( 0.00873912 * KH_T^2)+( -0.000193446 * KH_T^3) && 47
522 ENDIF
523 CASE (H_T>=72 .AND. H_T<90 .AND. MAGEKNOWN) .OR. (.NOT. MAGEKNOWN .AND. H_T>=72 .AND. H_T<85)
524 KH_T=H_T-72
525 W_TH_T50= 9.0790500 + ( 0.2582230 * KH_T)+( -0.00471024 * KH_T^2)+( 0.000132953 * KH_T^3) && 28
526 IF W_T<W_TH_T50
527 W_TH_T03= 7.6316000 + ( 0.2400940 * KH_T)+( -0.00521241 * KH_T^2)+( 0.000150006 * KH_T^3) && 8
528 ELSE
529 W_TH_T97= 10.7090000 + ( 0.2839630 * KH_T)+( -0.00460866 * KH_T^2)+( 0.000113211 * KH_T^3) && 48
530 ENDIF
531 CASE H_T>=90 .AND. H_T<103 .AND. MAGEKNOWN &&FELS
532 KH_T=H_T-90
533 W_TH_T50= 12.9763000 + ( 0.2178850 * KH_T)+( 0.00246924 * KH_T^2)+( 0.000104389 * KH_T^3) && 29
534 IF W_T<W_TH_T50
535 W_TH_T03= 11.1393000 + ( 0.1982520 * KH_T)+( 0.0028879 * KH_T^2)+( -0.0000207356 * KH_T^3) && 9
536 ELSE
537 W_TH_T97= 14.9874000 + ( 0.2280930 * KH_T)+( 0.00150476 * KH_T^2)+( 0.00013349 * KH_T^3) && 49
538 ENDIF
539 ENDCASE
540 ELSE
541 DO CASE
542 CASE H_T>=50 .AND. H_T<80 .AND. MAGEKNOWN &&NCHS/CDC
543 KH_T=H_T-55
544 W_TH_T50= 4.3126000 + ( 0.3714470 * KH_T)+( -0.00633119 * KH_T^2)+( 0.0000877037 * KH_T^3) && 38
545 IF W_T<W_TH_T50
546 W_TH_T03= 2.8822100 + ( 0.3117570 * KH_T)+( -0.00339993 * KH_T^2)+( 0.0000332712 * KH_T^3) && 18
547 ELSE
548 W_TH_T97= 6.5868700 + ( 0.3526370 * KH_T)+( -0.0034583 * KH_T^2)+( 0.0000293354 * KH_T^3) && 58
549 ENDIF
550 CASE (H_T>=80 .AND. H_T<=115 .AND. MAGEKNOWN) .OR. (.NOT. MAGEKNOWN .AND. H_T>=85 .AND. H_T<115)
551 KH_T=H_T-80
552 W_TH_T50= 11.0122000 + ( 0.2193330 * KH_T)+( 0.000246595 * KH_T^2)+( 0.0000313171 * KH_T^3) && 39
553 IF W_T<W_TH_T50
554 W_TH_T03= 9.0710400 + ( 0.2041440 * KH_T)+( -0.000904587 * KH_T^2)+( 0.0000465496 * KH_T^3) && 19
555 ELSE
556 W_TH_T97= 13.6997000 + ( 0.2347260 * KH_T)+( -0.00125814 * KH_T^2)+( 0.0000889698 * KH_T^3) && 59
557 ENDIF
558 CASE (H_T>=115 .AND. H_T<=145 .AND. MAGEKNOWN) .OR. (.NOT. MAGEKNOWN .AND. H_T>=115 .AND. H_T<145)
559 KH_T=H_T-115
560 W_TH_T50= 20.3336000 + ( 0.3516850 * KH_T)+( 0.00353489 * KH_T^2)+( 0.000104383 * KH_T^3) && 40
561 IF W_T<W_TH_T50
562 W_TH_T03= 17.1038000 + ( 0.3118930 * KH_T)+( 0.00398312 * KH_T^2)+( -0.0000276662 * KH_T^3) && 20
563 ELSE
564 W_TH_T97= 24.1885000 + ( 0.4736200 * KH_T)+( 0.00808368 * KH_T^2)+( 0.000103298 * KH_T^3) && 60
565 ENDIF
566 ENDCASE
567 ENDIF
568 IF W_T<W_TH_T50 && COMPUTES 2
569 W_TH_TZ=((W_TH_T50-W_T)/(W_TH_T50-W_TH_T03))*(-1.8807936) && SCORES
570 ELSE
571 W_TH_TZ=((W_T-W_TH_T50)/(W_TH_T97-W_TH_T50))*(1.8807936)
572 ENDIF
573 W_TH_TM=(W_T/W_TH_T50)*100 && PERCENT MEDIAN
574 DO ZTOPCT WITH W_TH_TZ,W_TH_TP
575 ENDIF
576 ELSE
```

```
577
578 * curves for females
579
580 IF MAGEKNOWN
581   IF H_TKNOWN           && Height for Age calculations
582     DO CASE
583       CASE MAGE<9      && Age less than 9 months, FELS data
584         KMAGE=MAGE
585         H_TIMAGE50= 49.8644000 + ( 3.9374600 * KMAGE)+( -0.2629990 * KMAGE^2)+( 0.008847779 * KMAGE^3)  && 82
586         IF H_T<H_TIMAGE50
587           H_TIMAGE03= 45.7829000 + ( 3.6732300 * KMAGE)+( -0.2372120 * KMAGE^2)+( 0.00779334 * KMAGE^3) && 61
588         ELSE
589           H_TIMAGE97= 53.9292000 + ( 4.2110200 * KMAGE)+( -0.2900550 * KMAGE^2)+( 0.00995372 * KMAGE^3) &&103
590         ENDIF
591       CASE MAGE>=9 .AND. MAGE<24  && Age 9-24 months, FELS data
592         KMAGE=MAGE-9
593         H_TIMAGE50= 70.4487000 + ( 1.3535000 * KMAGE)+( -0.0241086 * KMAGE^2)+( 0.000339627 * KMAGE^3)  && 83
594         IF H_T<H_TIMAGE50
595           H_TIMAGE03= 65.3091000 + ( 1.2971900 * KMAGE)+( -0.0267922 * KMAGE^2)+( 0.00046601 * KMAGE^3) && 62
596         ELSE
597           H_TIMAGE97= 75.5903000 + ( 1.4088000 * KMAGE)+( -0.0213041 * KMAGE^2)+( 0.00021055 * KMAGE^3) &&104
598         ENDIF
599       CASE MAGE>=24 .AND. MAGE<36 .AND. FELS36=1      && FELS DATA
600         KMAGE=MAGE-24
601         H_TIMAGE50= 86.4730000 + ( 0.8594880 * KMAGE)+( -0.00882537 * KMAGE^2)+( 0.000032249 * KMAGE^3)  && 84
602         IF H_T<H_TIMAGE50
603           H_TIMAGE03= 80.3115000 + ( 0.8079800 * KMAGE)+( -0.00582173 * KMAGE^2)+( -0.000184636 * KMAGE^3) && 63
604         ELSE
605           H_TIMAGE97= 92.6378000 + ( 0.9114610 * KMAGE)+( -0.0118516 * KMAGE^2)+( 0.00024296 * KMAGE^3) &&105
606         ENDIF
607       CASE MAGE>=24 .AND. MAGE<54      &&NCHS/CDC
608         KMAGE=MAGE-24
609         H_TIMAGE50= 84.4872000 + ( 0.8773850 * KMAGE)+( -0.00854191 * KMAGE^2)+( 0.0000726632 * KMAGE^3)  && 91
610         IF H_T<H_TIMAGE50
611           H_TIMAGE03= 78.4609000 + ( 0.7699690 * KMAGE)+( -0.00579056 * KMAGE^2)+( 0.00002992 * KMAGE^3) && 70
612         ELSE
613           H_TIMAGE97= 90.5784000 + ( 0.9735260 * KMAGE)+( -0.0108372 * KMAGE^2)+( 0.000109954 * KMAGE^3) &&112
614         ENDIF
615       CASE MAGE>=54 .AND. MAGE<132
616         KMAGE=MAGE-54
617         H_TIMAGE50= 105.0830000 + ( 0.5610610 * KMAGE)+( -0.00200222 * KMAGE^2)+( 0.0000171075 * KMAGE^3)  && 92
618         IF H_T<H_TIMAGE50
619           IF MAGE<60
620             KMAGE=MAGE-24
621             H_TIMAGE03= 78.4609000 + ( 0.7699690 * KMAGE)+( -0.00579066 * KMAGE^2)+( 0.00002992 * KMAGE^3) && 70
622           ELSE
623             KMAGE=MAGE-60
624             H_TIMAGE03= 100.0710000 + ( 0.4693700 * KMAGE)+( -0.0025593 * KMAGE^2)+( 0.0000298134 * KMAGE^3) && 71
625           ENDIF
626         ELSE
627           H_TIMAGE97= 112.9990000 + ( 0.6201690 * KMAGE)+( -0.00094133 * KMAGE^2)+( 0.00000461746 * KMAGE^3) &&113
628         ENDIF
629       CASE MAGE>=132 .AND. MAGE<156
630         KMAGE=MAGE-132
631         H_TIMAGE50= 144.7830000 + ( 0.5609610 * KMAGE)+( 0.00200094 * KMAGE^2)+( -0.00016424 * KMAGE^3)  && 93
632         IF H_T<H_TIMAGE50
633           H_TIMAGE03= 131.7260000 + ( 0.5644900 * KMAGE)+( 0.0038804 * KMAGE^2)+( -0.00021173 * KMAGE^3) && 72
634         ELSE
635           H_TIMAGE97= 157.8370000 + ( 0.5576000 * KMAGE)+( 0.000139156 * KMAGE^2)+( -0.000117406 * KMAGE^3) &&114
636         ENDIF
637       CASE MAGE>=156 .AND. MAGE<192
638         KMAGE=MAGE-156
639         H_TIMAGE50= 157.1280000 + ( 0.3732000 * KMAGE)+( -0.00982432 * KMAGE^2)+( 0.0000982153 * KMAGE^3)  && 94
640         IF H_T<H_TIMAGE50
```

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641     H_TIMAGE03= 144.5820000 + ( 0.3848790 * KMAGE)+( -0.0113642 * KMAGE^2)+( 0.000132304 * KMAGE^3) && 73
642     ELSE
643     H_TIMAGE97= 169.6760000 + ( 0.3614010 * KMAGE)+( -0.00831408 * KMAGE^2)+( 0.0000648912 * KMAGE^3) &&115
644     ENDIF
645     CASE MAGE>=192 .AND. MAGE<216
646     KMAGE=MAGE-192
647     H_TIMAGE50= 162.4130000 + ( 0.0477105 * KMAGE)+( 0.000782933 * KMAGE^2)+( -0.0000217939 * KMAGE^3) && 95
648     IF H_T<H_TIMAGE50
649     H_TIMAGE03= 149.8820000 + ( 0.0810578 * KMAGE)+( 0.00292469 * KMAGE^2)+( -0.0000738429 * KMAGE^3) && 74
650     ELSE
651     H_TIMAGE97= 174.9390000 + ( 0.0150850 * KMAGE)+( -0.00130583 * KMAGE^2)+( 0.0000268575 * KMAGE^3) &&116
652     ENDIF
653     ENDCASE
654
655     *   Compute Z scores
656
657     IF H_T<H_TIMAGE50
658     H_TIMAGEZ=((H_TIMAGE50-H_T)/(H_TIMAGE50-H_TIMAGE03))*(-1.8807936)
659     ELSE
660     H_TIMAGEZ=((H_T-H_TIMAGE50)/(H_TIMAGE97-H_TIMAGE50))*(1.8807936)
661     ENDIF
662
663     *   Compute percent of median
664
665     H_TIMAGEH=(H_T/H_TIMAGE50)*100
666
667     *   Call up procedure ZTOPCT to convert a Z score to a percentile
668
669     DO ZTOPCT WITH H_TIMAGEZ,H_TIMAGEH
670     ENDIF
671     IF W_TKNOWN
672     DO CASE
673     CASE MAGE<6
674     KMAGE=MAGE
675     W_TIMAGE50= 3.2275100 + ( 0.7688170 * KMAGE)+( -0.0124130 * KMAGE^2)+( -0.000857452 * KMAGE^3) && 85
676     IF W_T<W_TIMAGE50
677     W_TIMAGE03= 2.3023500 + ( 0.5457150 * KMAGE)+( 0.0131161 * KMAGE^2)+( -0.00221402 * KMAGE^3) && 64
678     ELSE
679     W_TIMAGE97= 3.9194500 + ( 1.1542600 * KMAGE)+( -0.0635733 * KMAGE^2)+( 0.00176581 * KMAGE^3) &&106
680     ENDIF
681     CASE MAGE>=6 .AND. MAGE<18
682     KMAGE=MAGE-6
683     W_TIMAGE50= 7.2083400 + ( 0.5272560 * KMAGE)+( -0.0278471 * KMAGE^2)+( 0.000752199 * KMAGE^3) && 86
684     IF W_T<W_TIMAGE50
685     W_TIMAGE03= 5.5705900 + ( 0.4639940 * KMAGE)+( -0.0267363 * KMAGE^2)+( 0.000773006 * KMAGE^3) && 65
686     ELSE
687     W_TIMAGE97= 8.9378100 + ( 0.5820920 * KMAGE)+( -0.0317886 * KMAGE^2)+( 0.000930288 * KMAGE^3) &&107
688     ENDIF
689     CASE (MAGE>=18 .AND. MAGE<36 .AND. FEL36=1) .OR. (MAGE>=18 .AND. MAGE<24 .AND. FEL36=2)
690     KMAGE=MAGE-18
691     W_TIMAGE50= 10.8252000 + ( 0.1838750 * KMAGE)+( -0.000767982 * KMAGE^2)+( 0.00000714597 * KMAGE^3) && 87
692     IF W_T<W_TIMAGE50
693     W_TIMAGE03= 8.6242500 + ( 0.1562610 * KMAGE)+( 0.0010919 * KMAGE^2)+( -0.000089838 * KMAGE^3) && 66
694     ELSE
695     W_TIMAGE97= 12.9529000 + ( 0.2210490 * KMAGE)+( 0.00170173 * KMAGE^2)+( -0.0000906913 * KMAGE^3) &&108
696     ENDIF
697     CASE MAGE>=24 .AND. MAGE<84 &&NCHS/CDC
698     KMAGE=MAGE-24
699     W_TIMAGE50= 11.7963000 + ( 0.2196620 * KMAGE)+( -0.00262788 * KMAGE^2)+( 0.0000292835 * KMAGE^3) && 96
700     IF W_T<W_TIMAGE50
701     W_TIMAGE03= 9.5887800 + ( 0.1621680 * KMAGE)+( -0.00158785 * KMAGE^2)+( 0.0000141728 * KMAGE^3) && 75
702     ELSE
703     W_TIMAGE97= 14.4385000 + ( 0.3228350 * KMAGE)+( -0.00438366 * KMAGE^2)+( 0.0000540144 * KMAGE^3) &&117
704     ENDIF
```

137

```
705 CASE MAGE>=84 .AND. MAGE<144      &&NCHS/CDC
706   KMAGE=MAGE-84
707   W_TMAGE50= 21.8409000 + ( 0.2205780 * KMAGE)+( 0.00264314 * KMAGE^2)+( -0.0000141618 * KMAGE^3)  && 97
708   IF W_T<W_TMAGE50
709     W_TMAGE03= 16.6639000 + ( 0.1246910 * KMAGE)+( 0.000963245 * KMAGE^2)+( 0.0000307446 * KMAGE^3) && 76
710   ELSE
711     W_TMAGE97= 29.6945000 + ( 0.3801520 * KMAGE)+( 0.00533894 * KMAGE^2)+( -0.0000449181 * KMAGE^3) &&118
712   ENDIF
713 CASE MAGE>=144 .AND. MAGE<192      &&NCHS/CDC
714   KMAGE=MAGE-144
715   W_TMAGE50= 41.5319000 + ( 0.3848080 * KMAGE)+( 0.0000940228 * KMAGE^2)+( -0.0000391686 * KMAGE^3)  && 98
716   IF W_T<W_TMAGE50
717     W_TMAGE03= 28.2771000 + ( 0.2734850 * KMAGE)+( 0.00151665 * KMAGE^2)+( -0.000037024 * KMAGE^3) && 77
718   ELSE
719     W_TMAGE97= 62.0215000 + ( 0.5357090 * KMAGE)+( -0.00274632 * KMAGE^2)+( -0.000020617 * KMAGE^3) &&119
720   ENDIF
721 CASE MAGE>=192 .AND. MAGE<216      &&NCHS/CDC
722   KMAGE=MAGE-192
723   W_TMAGE50= 55.8876000 + ( 0.1231010 * KMAGE)+( -0.00554625 * KMAGE^2)+( 0.0000702252 * KMAGE^3)  && 99
724   IF W_T<W_TMAGE50
725     W_TMAGE03= 40.8042000 + ( 0.1631730 * KMAGE)+( -0.00381481 * KMAGE^2)+( 0.0000315956 * KMAGE^3) && 78
726   ELSE
727     W_TMAGE97= 79.1280000 + ( 0.1295580 * KMAGE)+( -0.00571516 * KMAGE^2)+( 0.0000648512 * KMAGE^3) &&120
728   ENDIF
729 ENDCASE
730 IF W_T<W_TMAGE50
731   W_TMAGEZ=((W_TMAGE50-W_T)/(W_TMAGE50-W_TMAGE03))*(-1.8807936)
732 ELSE
733   W_TMAGEZ=((W_T-W_TMAGE50)/(W_TMAGE97-W_TMAGE50))*(1.8807936)
734 ENDIF
735 W_TMAGEM=(W_T/W_TMAGE50)*100
736 DO ZTOPCT WITH W_TMAGEZ,W_TMAGEP
737 ENDIF
738 ENDIF
739 IF FEL36=1
740   MAGECUT=36
741 ELSE
742   MAGECUT=24
743 ENDIF
744 *THE FOLLOWING IS NOT LINED UP CORRECTLY
745 IF (H_T>48.99 .AND. H_T<=137 .AND. W_TKNOWN .AND. MAGE<120) .OR.;
746   (H_T>48.99 .AND. H_T<=137 .AND. W_TKNOWN .AND. .NOT. MAGEKNOWN);
747   .AND. .NOT. (MAGE<MAGECUT .AND. H_T>=101 .AND. MAGEKNOWN);
748   .AND. .NOT. (MAGE>=MAGECUT .AND. H_T<55 .AND. MAGEKNOWN)
749 IF MAGE<MAGECUT .AND. H_T<101 .OR. (.NOT. MAGEKNOWN .AND. H_T<85)
750 DO CASE
751 CASE (H_T>48.99 .AND. H_T<72 .AND. MAGEKNOWN) .OR. (.NOT. MAGEKNOWN .AND. H_T<72)
752   KH_T=H_T-49
753   W_TH_T50= 3.2954500 + ( 0.1036510 * KH_T)+( 0.0119637 * KH_T^2)+( -0.000255793 * KH_T^3)  && 88
754   IF W_T<W_TH_T50
755     W_TH_T03= 2.6098800 + ( 0.0630037 * KH_T)+( 0.0115431 * KH_T^2)+( -0.000231559 * KH_T^3) && 67
756   ELSE
757     W_TH_T97= 3.9390200 + ( 0.2019260 * KH_T)+( 0.0074638 * KH_T^2)+( -0.000178154 * KH_T^3) && 109
758   ENDIF
759 CASE (H_T>=72 .AND. H_T<90 .AND. MAGEKNOWN) .OR. (.NOT. MAGEKNOWN .AND. H_T>=72 .AND. H_T<85)
760   KH_T=H_T-72
761   W_TH_T50= 8.8959800 + ( 0.2480360 * KH_T)+( -0.00568606 * KH_T^2)+( 0.000181276 * KH_T^3)  && 89
762   IF W_T<W_TH_T50
763     W_TH_T03= 7.3479000 + ( 0.2265030 * KH_T)+( -0.00443447 * KH_T^2)+( 0.000137357 * KH_T^3) && 68
764   ELSE
765     W_TH_T97= 10.3641000 + ( 0.2625300 * KH_T)+( -0.00482882 * KH_T^2)+( 0.000154783 * KH_T^3) && 110
766   ENDIF
767 CASE H_T>=90 .AND. H_T<101 .AND. MAGEKNOWN      &&FELS
768   KH_T=H_T-90
```

```
769      W_TH_T50= 12.5756000 + ( 0.2195390 * KH_T)+( 0.00410286 * KH_T^2)+( -0.0000204386 * KH_T^3)  && 90
770      IF W_T<W_TH_T50
771          W_TH_T03= 10.7892000 + ( 0.2003730 * KH_T)+( 0.0029828 * KH_T^2)+( 0.00008911 * KH_T^3) && 69
772      ELSE
773          W_TH_T97= 14.4278000 + ( 0.2391420 * KH_T)+( 0.00352948 * KH_T^2)+( 0.000139341 * KH_T^3) && 111
774      ENDIF
775      ENDCASE
776      ELSE
777      DO CASE
778      CASE H_T>=48 .AND. H_T<85 .AND. MAGEKNOWN      &&NCHS/CDC
779          KH_T=H_T-55
780          W_TH_T50= 4.3020800 + ( 0.3646670 * KH_T)+( -0.00629446 * KH_T^2)+( 0.0000835936 * KH_T^3)  && 100
781          IF W_T<W_TH_T50
782              W_TH_T03= 3.0389600 + ( 0.2760980 * KH_T)+( -0.0022693 * KH_T^2)+( 0.0000201 * KH_T^3) && 79
783          ELSE
784              W_TH_T97= 6.5820600 + ( 0.3639700 * KH_T)+( -0.00609859 * KH_T^2)+( 0.0000885250 * KH_T^3) && 121
785          ENDIF
786      CASE (H_T>=85 .AND. H_T<108 .AND. MAGEKNOWN) .OR. (.NOT. MAGEKNOWN .AND. H_T>=85 .AND. H_T<115)
787          KH_T=H_T-85
788          W_TH_T50= 11.8341000 + ( 0.2127020 * KH_T)+( 0.00122896 * KH_T^2)+( 0.0000201561 * KH_T^3)  && 101
789          IF W_T<W_TH_T50
790              W_TH_T03= 9.8230100 + ( 0.1942860 * KH_T)+( -0.0004578 * KH_T^2)+( 0.0000538 * KH_T^3) && 80
791          ELSE
792              W_TH_T97= 14.4027000 + ( 0.2370720 * KH_T)+( 0.00186866 * KH_T^2)+( 0.0000269321 * KH_T^3) && 122
793          ENDIF
794      CASE (H_T>=108 .AND. H_T<=137 .AND. MAGEKNOWN) .OR. (.NOT. MAGEKNOWN .AND. H_T>=115 .AND. H_T<145)
795          KH_T=H_T-108
796          W_TH_T50= 17.6216000 + ( 0.3012220 * KH_T)+( 0.00261973 * KH_T^2)+( 0.000121334 * KH_T^3)  && 102
797          IF W_T<W_TH_T50
798              W_TH_T03= 14.7037000 + ( 0.2585730 * KH_T)+( 0.0032529 * KH_T^2)+( 0.0000169 * KH_T^3) && 81
799          ELSE
800              W_TH_T97= 21.1715000 + ( 0.3657720 * KH_T)+( 0.00372698 * KH_T^2)+( 0.000332188 * KH_T^3) && 123
801          ENDIF
802      ENDCASE
803      ENDIF
804      IF W_T<W_TH_T50
805          W_TH_TZ=((W_TH_T50-W_T)/(W_TH_T50-W_TH_T03))*(-1.8807936)  && COMPUTES Z
806      ELSE
807          W_TH_TZ=((W_T-W_TH_T50)/(W_TH_T97-W_TH_T50))*(1.8807936)
808      ENDIF
809      W_TH_TM=(W_T/W_TH_T50)*100
810      DO ZTOPCT WITH W_TH_TZ,W_TH_TP
811      ENDIF
812
813  ENDIF
814
815  * If the anthropometric indicies fall outside of range, convert to X.98 or X.8
816
817  IF MAGEKNOWN
818      IF H_TKNOWN
819          IF H_TMAGEZ>=9.98
820              H_TMAGEZ=9.98
821          ENDIF
822          IF H_TMAGEP>=99.8
823              H_TMAGEP=99.8
824          ENDIF
825          IF H_TMAGEN>=999.8
826              H_TMAGEN=999.8
827          ENDIF
828          IF H_TMAGEZ<=-9.98
829              H_TMAGEZ=-9.98
830          ENDIF
831          IF H_TMAGEN<=-999.8
832              H_TMAGEN=-999.8
```

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```
833     ENDIF
834     ENDIF
835     IF W_TKNOWN
836         IF W_TMAGEZ>=9.98
837             W_TMAGEZ=9.98
838         ENDIF
839         IF W_TMAGEP>=99.8
840             W_TMAGEP=99.8
841         ENDIF
842         IF W_TMAGEM>=999.8
843             W_TMAGEM=999.8
844         ENDIF
845         IF W_TMAGEZ<=-9.98
846             W_TMAGEZ=-9.98
847         ENDIF
848         IF W_TMAGEM<=-999.98
849             W_TMAGEM=-999.8
850         ENDIF
851     ENDIF
852 ENDIF
853 DO CASE
854 CASE .NOT. W_TKNOWN .OR. (.NOT. H_TKNOWN .OR. H_T<49)
855     RETURN
856 CASE MSEX=1 .AND. (MAGE<138 .AND. H_T<=145) .OR. (.NOT. MAGEKNOWN .AND. H_T<145) .AND.;
857     .NOT. (MAGE<MAGECUT .AND. H_T>=103) .AND. .NOT. (MAGE>=MAGECUT .AND. H_T<55)
858 CASE MSEX=2 .AND. (MAGE<120 .AND. H_T<=137) .OR. (.NOT. MAGEKNOWN .AND. H_T<137) .AND.;
859     .NOT. (MAGE<MAGECUT .AND. H_T>=101) .AND. .NOT. (MAGE>=MAGECUT .AND. H_T<55)
860 OTHERWISE
861     RETURN
862 ENDCASE
863
864 IF W_TH_TZ>=9.98
865     W_TH_TZ=9.98
866 ENDIF
867 IF W_TH_TP>=99.8
868     W_TH_TP=99.8
869 ENDIF
870 IF W_TH_TM>=999.8
871     W_TH_TM=999.8
872 ENDIF
873 IF W_TH_TZ<=-9.98
874     W_TH_TZ=-9.98
875 ENDIF
876 IF W_TH_TM<=-999.8
877     W_TH_TM=-999.8
878 ENDIF
879 *ENDIF
880
881 *|*****
882 *|
883 *| Procedure: ZTOPCT
884 *|
885 *| Called by: ANTHRO (procedure in CLINIC.PRG)
886 *|
887 *|*****
888 *|*****
889 PROCEDURE ZTOPCT
890 PARAMETERS Z, ZPCT2
891 IF Z>=9.99
892     ZPCT2=99.99
893     RETURN
894 ENDIF
895 x=abs(z)
896 zpct2=(1/sqrt(2*(3.14159265359)))*exp(-(x^2/2))*((.31938153*(1/(1+.2316419*x))) ;
```

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```
897 +(-.356563782*(1/(1+.2316419*x)^2))+(1.781477937*(1/(1+.2316419*x)^3)) ;
898 +(-1.821255978*(1/(1+.2316419*x)^4))+(1.330274429*(1/(1+.2316419*x)^5))) *100
899 if z>0
900 zpct2=100-zpct2
901 endif
902
903
904 *|*****
905 *|
906 *| Procedure: APENCLIN
907 *|
908 *| Called by: CLINIC.PRG
909 *|
910 *| Uses: CLINIC.DBF
911 *|
912 *|*****
913 PROCEDURE APENCLIN
914
915
916 CLOSE ALL
917 USE CLINIC
918 APPEND BLANK
919 REPLACE SITE WITH MSITE, WARD WITH MWARD, HH WITH MHH
REPLACE MOMNO WITH MMOMNO, KIDNO WITH MKIDNO, ACUITYR WITH MACUITYR, ACUITYL WITH MACUITYL, SIGNR WITH MSIGNR, SIGNAL WITH
920 MSIGNL
921 REPLACE BITR WITH MBITR, BITL WITH MBITL, BITRTN WITH MBITRTN, BITLTN WITH MBITLTN, XER WITH MXER, XEL WITH MXEL, XEINR W
921 ITH MXEINR
922 REPLACE XEINL WITH MXEINL, CUR WITH MCUR, CUL WITH MCUL, KER WITH MKER, KEL WITH MKEL
923 REPLACE SCR WITH MSCR, SCL WITH MSCL, TRAUMA WITH MTRAUMA, RED WITH MRED, HIST WITH MHIST, SUFF WITH MSUFF, SEX WITH MSEX
924 REPLACE AGEYRS WITH MAGEYRS, AGENTH WITH MAGENTH, AGE WITH MAGE, WT WITH MWT, WTMEAS WITH MWTMEAS, SCALE WITH MSCALE, HT
924 WITH MHT
925 REPLACE HTMEAS WITH MHTMEAS, TS WITH MTS, MUAC WITH MMUAC, EB WITH MEB, ANTNO WITH MANTNO, CHECK WITH MCHECK
926 REPLACE WAZ WITH WTAGEZ , HAZ WITH HTAGEZ, WHZ WITH WHTZ, LINK WITH MLINK
927 CLEAR
928 @ 10,10 SAY "DATA RECORD HAS BEEN ENTERED "
929 WAIT
930 CLOSE DATA
931 RETURN
932
933 *: EOF: CLINIC.PRG
```

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```
1 *:*****
2 *:
3 *:      Program: DIAKAP.PRG
4 *:
5 *:      System: Vitamin A Intervention - Second Survey
6 *:      Author: J.G., B.T., S.P
7 *:      Copyright (c) 1990, VACSP
8 *:      Last modified: 04/04/90    23:27
9 *:
10 *:     Called by: HH.PRG
11 *:
12 *:     Calls: ASKOK.PRG
13 *:
14 *:     Uses: DIAKAP.DBF
15 *:           : DIAKAPSP.DBF
16 *:
17 *:     Documented: 04/09/90 at 09:32          FoxDoc version 1.0
18 *:*****
19 store 9 to mwater, mnowater, mfood, mjj, mnoj, mwherejj, mjjquen, mjjfreq, ;
20 mnoon, mnoondemo, mmodemo, mdiamed, mnight, mnightcur, mbitot, mbitcure ;
21 store 9 to mtreat1, mtreat2, mhosp
22 store space(20) to mnowatersp, mmodemosp, mdiamedsp, mtreat1sp, mtreat2sp
23 mquit = 'N'

25 day = 'SUN'
26 do while day = 'SUN' .and. mquit <> 'Y'
27   clear
28   @ 1,1 to 24,79 double
29   @ 2,10 say 'Site number      ' + ltrim(str(msite))
30   @ 3,10 say 'Household number '
31   @ 3,50 get mhh pict '999'
32   @ 5,10 say 'Mother number'
33   @ 5,50 get mmomno pict '9'
34   @ 6,2 to 6,78
35   read
36   SURE = ' '
37   DO WHILE .NOT. SURE $ 'YNO'
38     @ 10,10 SAY 'Are you sure about these entries (Y/N) or (Q)uit' GET SURE PICT '1'
39     READ
40   ENDDO
41   DO CASE
42     CASE SURE = 'N'
43       SURE = ' '
44     LOOP
45     CASE SURE = 'Q'
46       DAY='SLEET'
47       SET PROC TO MAINMENU
48     RETURN
49   ENDCASE
50   @ 10,4 say mspace
51   @ 9 ,10 say '1. When child has diarrhea, do you feed more water ?'
52   @ 10,15 say '1a. If NO, why not ?'
53   @ 11,18 say '1a(i). Specify'
54   @ 13,10 say '2. Amount of food eaten when child has diarrhea ?'
55   @ 15,10 say '3. Give Jeevan Jal when child has diarrhea ?'
56   @ 16,15 say '3a. If NO, why not ?'
57   @ 17,15 say '3b. If YES, where do you get ?'
58   @ 18,15 say '3c.           , how much to give a child above 2 ?'
59   @ 19,15 say '3d.           , how frequently do you give ?'
60   @ 9,65 get mwater pict '9' range 1,2
61   read
62   if mwater = 2
63     @ 10,68 get mnowater pict '9' range 1,5
64     read
```

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```
65     if mnowater = 5
66         @ 11,52 get mnowatersp pict '!!!!!!!!!!!!!!!!!!!!!!'
67         read
68     endif
69     else
70         mnowater = 8
71     endif
72     @ 13,65 get mfood pict '9' range 1,3
73     @ 15,65 get mjj pict '9' range 1,2
74     read
75     if mjj = 2
76         @ 16,68 get mnojj pict '9' range 1,4
77         read
78         store 8 to mwherej, mjjquan, mjjfreq
79     else
80         mnojj=8
81     endif
82     if mjj = 1
83         @ 17,68 get mwherejj pict '9' range 1,4
84         @ 18,68 get mjjquan pict '9' range 1,4
85         @ 19,68 get mjjfreq pict '9' range 1,4
86         read
87     endif
88     do askok
89 enddo
90
91
92 day = 'SUN'
93 do while day = 'SUN' .and. mquit <> 'Y'
94     clear
95     @ 1,1 to 24,79 double
96     @ 2 ,10 say '4. Do you know how to make Noon Chini Pani ?'
97     @ 4 ,10 say '5. Has CHM ever demonstrated how to make MCP ?'
98     @ 5 ,15 say '5a. If NO, why not ?'
99     @ 6 ,18 say '5a(i). Specify '
100    @ 8 ,10 say '6. What other medication do you give for diarrhea ?'
101    @ 9 ,18 say '6(i). Specify '
102    @ 11,10 say '7. Have you heard of Night Blindness ?'
103    @ 12,15 say '7a. If YES, what cures night blindness ?'
104    @ 14,10 say '8. Have you heard of Bitots Spots ?'
105    @ 15,15 say '8a. If YES, what cures bitots spots ?'
106    @ 17,10 say '9. Where is first place you take child when sick ?'
107    @ 18,18 say '9(i) Specify'
108    @ 19,10 say '10. Where is second place you take child ?'
109    @ 20,18 say '10(i). Specify '
110    @ 22,10 say '11. Has child been to hospital in last year ?'
111    @ 2, 60 get mnoon pict '9' range 1,2
112    @ 4, 60 get mnoondemo pict '9' range 1,2
113    read
114    if mnoondemo = 2
115        @ 5,68 get mnodemo pict '9' range 1,4
116        read
117        if mnodemo = 4
118            @ 6,52 get mnodemosp pict '!!!!!!!!!!!!!!!!!!!!!!'
119            read
120        endif
121    else
122        mnodemo = 8
123    endif
124    @ 8,65 get mdiamed pict '9' range 1,5
125    read
126    if mdiamed = 5
127        @ 9,52 get mdiamedsp pict '!!!!!!!!!!!!!!!!!!!!!!'
128        read
```

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```
129     endif
130     @ 11,65 get mnight pict '9' range 1,2
131     read
132     if mnight = 1
133         @ 12,68 get mnightcur pict '9' range 1,5
134         read
135     else
136         mnightcur = 8
137     endif
138     @ 14,65 get mbitot pict '9' range 1,2
139     read
140     if mbitot = 1
141         @ 15,68 get mbitcure pict '9' range 1,5
142         read
143     else
144         mbitcure = 8
145     endif
146     @ 17,65 get mtreat1 pict '9' range 1,6
147     read
148     if mtreat1 = 6
149         @ 18,52 get mtreat1sp pict '!!!!!!!!!!!!!!!!!!!!!!'
150         read
151     endif
152     @ 19,65 get mtreat2 pict '9' range 1,6
153     read
154     if mtreat2 = 6
155         @ 20,52 get mtreat2sp pict '!!!!!!!!!!!!!!!!!!!!!!'
156         read
157     endif
158     @ 22,65 get mhosp pict '9' range 1,2
159     read
160     do askok
161 enddo
162
163
164 day = 'SUN'
165 do while day = 'SUN' .and. mquit <> 'Y'
166     clear
167     select 1
168     use diakap
169     appen blank
170     replace site with msite, hh with mhh, momno with mmomno, water with mwater, food with mfood, jj with mjj, nojj with m
171     nojj, wherejj with mwherejj
172     replace jjquan with mjjquan, jjfreq with mjjfreq, noon with mnoon, nodemo with mnodemo, noondemo with mnoondemo, diame
173     d with mdiamed, night with mnight
174     replace nightcur with mnightcur, bitot with mbitot, bitcure with mbitcure, treat1 with mtreat1, treat2 with mtreat2, h
175     osp with mhosp
176     if mnowatersp <> ' ' .or. mnodemosp <> ' ' .or. mdiamedsp <> ' ' .or. mtreat1sp <> ' ' .or. mtreat2sp <> '
177         select 2
178         use diakapsp
179         appen blank
180         replace site with msite, hh with mhh, momno with mmomno, nowatersp with mnowatersp, nodemosp with mnodemosp, diamed
181         sp with mdiamedsp,;
182         treat1sp with mtreat1sp, treat2sp with mtreat2sp
183     endif
184     close data
185     clear
186     @ 10,10 say 'DATA RECORD HAS BEEN ENTERED ...'
187     wait
188     mquit = 'Y'
189 enddo
190 return
191
```

144

04/09/90
09:37

DIAKAP.PRG
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Vitamin A Intervention - Second Survey

188 *: EOF: DIAKAP.PRG

12

148

```
1 *:*****
2 *:
3 *:      Program: HEAD.PRG
4 *:
5 *:      System: Vitamin A Intervention - Second Survey
6 *:      Author: J.G., B.T., S.P
7 *:      Copyright (c) 1990, VACSP
8 *:      Last modified: 03/20/90    22:24
9 *:
10 *:      Called by: MENU.PRG
11 *:                : KIDMENU.PRG
12 *:
13 *:      Documented: 04/09/90 at 09:31          FoxDoc version 1.0
14 *:*****
15 CLEAR
16 @ 2, 5 say 'Data Entry number '
17 @ 2,25 say mdatano pict '9'
18 @ 4, 5 say 'Date of Entry '
19 @ 4,25 say mdateen pict ' / / '
20 @ 6, 5 say 'Monitor number '
21 @ 6,25 say mmonitor pict '9'
22 @ 2,40 say 'Site number '
23 @ 2,65 say msite pict '999'
24 @ 3,40 say 'Ward number '
25 @ 3,65 say mward pict '99'
26 do case
27 case head = 'H'
28 @ 4,40 say 'Household number '
29 @ 4,65 say mhh pict '999'
30 case head = 'M'
31 @ 4,40 say 'Household number '
32 @ 4,65 say mhh pict '999'
33 @ 5,40 say 'Mother number '
34 @ 5,65 say mmomno pict '9'
35 case head = 'K' .or. head = 'C' .or. head = ' '
36 @ 4,40 say 'Household number '
37 @ 4,65 say mhh pict '999'
38 @ 5,40 say 'Mother number '
39 @ 5,65 say mmomno pict '9'
40 @ 6,40 say 'Child number '
41 @ 6,65 say mkidno pict '99'
42 endcase
43 @ 0,1 to 24,79 double
44 @ 1,3 TO 7,77 DOUBLE
45
46
47
48
51 *: EOF: HEAD.PRG
```

146

```
1 *.:*****
2 *.:
3 *.:      Program: HEADER.PRG
4 *.:
5 *.:      System: Vitamin A Intervention - Second Survey
6 *.:      Author: J.G., B.T., S.P
7 *.:      Copyright (c) 1990, VACSP
8 *.:      Last modified: 03/25/90      15:06
9 *.:
10 *.: Proc & Fncts: WHATTODO
11 *.:
12 *.:      Called by: MENU.PRG
13 *.:                : KIDMENU.PRG
14 *.:
15 *.:      Calls: WHATTODO      (procedure in HEADER.PRG)
16 *.:
17 *.:      Uses: MH.DBF
18 *.:                : OLDHH.DBF
19 *.:                : MOM.DBF
20 *.:                : OLDMOM.DBF
21 *.:                : KID.DBF
22 *.:                : OLDKID.DBF
23 *.:                : CLINIC.DBF
24 *.:                : OLDCLIN.DBF
25 *.:
26 *.:      Documented: 04/09/90 at 09:31      FoxDoc version 1.0
27 *.:*****
28
29 SET PROCEDURE TO HEADER
30
31 PUBLIC MWHAT,MCHILDREN, MOHHNAME, MOLDNAME, MOLDYRS,MOLDMTH, MOLDMOM
32 STORE SPACE(20) TO MOLDNAME ,MOLDMOM, MOHHNAME
33 STORE 99 TO MOLDYRS,MCHILDREN
34 STORE 999 TO MOLDMTH
35
36 MWHAT = 'C'
37 MQUIT = 'N'
38 DAY = 'NICE'
39 DO WHILE DAY = 'NICE'
40   CLEAR
41   @ 2, 5 say 'Data Entry number ' get mdatano pict '9'
42   @ 4, 5 say 'Date of Entry '
43   @ 4,24 say mdateen pict ' / / '
44   IF HEAD = 'W'
45     @ 6, 5 say 'Monitor number ' get mmonitor pict '9'
46   ENDIF
47   @ 2,40 say 'Site number '
48   @ 2,60 SAY msite pict '999'
49   @ 3,40 say 'Ward number ' get mward pict '99'
50   @ 1,3 TO 7,77 DOUBLE
51   @ 8,1 TO 8,79
52
53
54 DO CASE
55
56   * WARD.DBF
57
58 CASE HEAD = 'W'
59   READ
60   SURE = ' '
61   DO WHILE .NOT. SURE $ 'Y/NQ'
62     @ 10,10 SAY 'Are you sure about these entries (Y/N) or (Q)uit' GET SURE PICT '!'
63     READ
64   ENDDO
```

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```
65 DO CASE
66 CASE SURE = 'M'
67 SURE = ' '
68 LOOP
69 CASE SURE = 'Q'
70 DAY='SLEET'
71 SET PROC TO MAINMENU
72 RETURN
73 ENDCASE
74 DAY = 'SNOWY'
75
76 * HOUSEHOLD.DBF
77
78 CASE HEAD = 'H'
79 @ 4,40 say 'Household number ' get mhh pict '999'
80 READ
81 SELECT 2
82 USE HH
83 GO BOTT
84 IF RECNO() > 0
85 IF (STR(MSITE,10,0) + STR(MHH,10,0) = STR(SITE,10,0) + STR(HH,10,0))
86 @ 15,20 SAY 'THIS I.D. INFORMATION HAS ALREADY BEEN ENTERED'
87 @ 16,20 SAY 'PLEASE CHECK ID INFO AND RE-ENTER THE DATA'
88 @ 17,20 SAY 'IF I.D. IS NOT IN ERROR, ENTER 999 AND NOTE 1'
89 WAIT
90 LOOP
91 ENDIF
92 ENDIF
93 STORE SUBSTR(STR(MSITE,10,0),8,3) + SUBSTR(STR(MHH,10,0),8,3) TO MHOUSE
94 SELECT 1
95 USE OLDHH
96 LOCATE FOR SUBSTR(STR(SITE,10,0),8,3) + SUBSTR(STR(HH,10,0),8,3) = MHOUSE
97 DO WHAT%TODD
98 DO CASE
99 CASE MWHAT = 'Q'
100 DAY='SLEET'
101 SET PROC TO MAINMENU
102 RETURN
103 CASE MWHAT = 'R'
104 LOOP
105 CASE MWHAT = 'C'
106 DAY='SNOWY'
107 CLOSE DATA
108 ENDCASE
109
110 CASE HEAD = 'M'
111 @ 4,40 say 'Household number ' get mhh pict '999'
112 @ 5,40 say 'Mother number ' get mmomno pict '9'
... READ
115 SELECT 2
116 USE MOM
117 GO BOTT
118 IF RECNO() > 0
119 IF (STR(MSITE,10,0) + STR(MHH,10,0) + STR(MMOMNO,10,0) = STR(SITE,10,0) + STR(HH,10,0) + STR(MOMNO,10,0))
120 @ 15,20 SAY 'THIS I.D. INFORMATION HAS ALREADY BEEN ENTERED'
121 @ 16,20 SAY 'PLEASE CHECK ID INFO AND RE-ENTER THE DATA'
122 @ 17,20 SAY 'IF I.D. IS NOT IN ERROR, ENTER 9 FOR MOM AND NOTE 1'
123 WAIT
124 LOOP
125 ENDIF
126 STORE SUBSTR(STR(MSITE,10,0),8,3) + SUBSTR(STR(MHH,10,0),8,3) +;
127 SUBSTR(STR(MMOMNO,10,0),10,1) TO MMOMMY
128 SELECT 1
```

148

```
129 USE OLDHOM
130 LOCATE FOR SUBSTR(STR(SITE,10,0),8,3) + SUBSTR(STR(HH,10,0),8,3) +;
131 SUBSTR(STR(MOMNO,10,0),10,1) = MMOMNY
132 DO WHATTODO
133 DO CASE
134 CASE MWHAT = 'Q'
135 DAY='SLEET'
136 SET PROC TO MAINMENU
137 RETURN
138 CASE MWHAT = 'R'
139 LOOP
140 CASE MWHAT = 'C'
141 DAY='SNOWY'
142 CLOSE DATA
143 ENDCASE
144
145 * KID.DBF
146
147 CASE HEAD = 'K'
148 @ 4,40 SAY 'Household number ' GET MHH PICT '999'
149 @ 5,40 SAY 'Mother number ' GET MMOMNO PICT '9'
150 @ 6,40 SAY 'Child number ' GET MKIDNO PICT '99'
151 READ
152 SELECT 2
153 USE KID
154 GO BOTT
155 IF RECNO() > 0
156 IF (STR(MSITE,10,0) + STR(MHH,10,0) + STR(MMOMNO,10,0) + STR(MKIDNO,10,0) = STR(SITE,10,0) + STR(HH,10,0) + STR
156 (MOMNO,10,0) + STR(KIDNO,10,0)) .AND. MKIDNO <> 99
157 @ 15,20 SAY 'THIS I.D. INFORMATION HAS ALREADY BEEN ENTERED'
158 @ 16,20 SAY 'PLEASE CHECK ID INFO AND RE-ENTER THE DATA'
159 @ 17,20 SAY 'IF I.D. IS NOT IN ERROR, ENTER 99 FOR KID AND NOTE 1'
160 WAIT
161 LOOP
162 ENDF
163 ENDF
164 STORE SUBSTR(STR(MSITE,10,0),8,3) + SUBSTR(STR(MHH,10,0),8,3) + ;
165 SUBSTR(STR(MMOMNO,10,0),10,1) + SUBSTR(STR(MKIDNO,10,0),9,2) TO MKIDDIE
166 IF SUBSTR(STR(MMOMNO,10,0),10,1) <> SUBSTR(STR(MKIDNO,10,0),9,1) .AND. MKIDNO <> 99
167 @ 10,10 SAY 'Mother I.D. must be same as first digit of Child I.D.'
168 DAY = 'NICE'
169 WAIT
170 LOOP
171 ENDF
172 SELECT 1
173 USE OLDKID
174 LOCATE FOR SUBSTR(STR(SITE,10,0),8,3) + SUBSTR(STR(HH,10,0),8,3) + ;
175 SUBSTR(STR(MOMNO,10,0),10,1) + SUBSTR(STR(KIDNO,10,0),9,2) = MKIDDIE
176 DO WHATTODO
177 DO CASE
178 CASE MWHAT = 'Q'
179 DAY='SLEET'
180 SET PROC TO MAINMENU
181 RETURN
182 CASE MWHAT = 'R'
183 LOOP
184 CASE MWHAT = 'C'
185 DAY='SNOWY'
186 CLOSE DATA
187 ENDCASE
188
189 * CLINIC.DBF
190
191 CASE HEAD = 'C'
```

```

192 @ 4,40 say 'Household number ' get mhh pict '999'
193 @ 5,40 say 'Mother number ' get mmomno pict '9'
194 @ 6,40 say 'Child number ' get mkidno pict '99'
195 READ
196 SELECT 2
197 USE CLINIC
198 GO BOTT
199 IF RECNO() > 0
200 IF (STR(MSITE,10,0) + STR(MHH,10,0) + STR(MMOMNO,10,0) + STR(MKIDNO,10,0) = STR(SITE,10,0) + STR(HH,10,0) + STR
200 (MOMNO,10,0) + STR(KIDNO,10,0)) .AND. MKIDNO <> 99
201 @ 15,20 SAY 'THIS I.D. INFORMATION HAS ALREADY BEEN ENTERED'
202 @ 16,20 SAY 'PLEASE CHECK ID INFO AND RE-ENTER THE DATA'
203 @ 17,20 SAY 'IF I.D. IS NOT IN ERROR, ENTER 99 FOR KID AND NOTE 1'
204 WAIT
205 LOOP
206 ENDF
207 ENDF
208 IF SUBSTR(STR(MMOMNO,10,0),10,1) <> SUBSTR(STR(MKIDNO,10,0),9,1) .AND. MKIDNO <> 99
209 @ 10,10 SAY 'Mother I.D. must be same as first digit of Child I.D.'
210 DAY = 'NICE'
211 WAIT
212 LOOP
213 ENDF
214 STORE SUBSTR(STR(MSITE,10,0),8,3) + SUBSTR(STR(MHH,10,0),8,3) + ;
215 SUBSTR(STR(MMOMNO,10,0),10,1) + SUBSTR(STR(MKIDNO,10,0),9,2) TO MCLINNIE
216 SELECT 1
217 USE OLDCLIN
218 LOCATE FOR SUBSTR(STR(SITE,10,0),8,3) + SUBSTR(STR(HH,10,0),8,3) + ;
219 SUBSTR(STR(MOMNO,10,0),10,1) + SUBSTR(STR(KIDNO,10,0),9,2) = MCLINNIE
220 DO WHATTODO
221 DO CASE
222 CASE MWHAT = 'Q'
223 DAY='SLEET'
224 SET PROC TO MAINMENU
225 RETURN
226 CASE MWHAT = 'R'
227 LOOP
228 CASE MWHAT = 'C'
229 DAY='SNOWY'
230 CLOSE DATA
231 ENDCASE
232
233 * MORBID.DBF and CASECON.DBF and BLOOD.DBF
234
235 CASE HEAD = ' ' .OR. HEAD = 'X'
236 IF HEAD = 'X'
237 @ 12,13 SAY 'IDENTIFICATION INFORMATION FOR CASE'
238 ENDF
239 @ 4,40 say 'Household number ' get mhh pict '999'
240 @ 5,40 say 'Mother number ' get mmomno pict '9'
241 @ 6,40 say 'Child number ' get mkidno pict '99'
242 READ
243 IF SUBSTR(STR(MMOMNO,10,0),10,1) <> SUBSTR(STR(MKIDNO,10,0),9,1)
244 @ 10,10 SAY 'Mother I.D. must be same as first digit of Child I.D.'
245 DAY = 'NICE'
246 WAIT
247 LOOP
248 ENDF
249 SURE = ' '
250 DO WHILE .NOT. SURE $ 'YNO'
251 @ 10,10 SAY 'Are you sure about these entries (Y/N) or (Q)uit' GET SURE PICT '!'
252 READ
253 ENDDO
254 DO CASE

```

```
255     CASE SURE = 'N'
256     SURE = ' '
257     LOOP
258     CASE SURE = 'Q'
259     DAY='SLEET'
260     SET PROC TO MAINMENU
261     RETURN
262     ENDCASE
263     DAY = 'SNOWY'
264     ENDCASE
265 ENDDO
266
267
268 *|*****
269 *|
270 *|     Procedure: WHATTODO
271 *|
272 *|     Called by: HEADER.PRG
273 *|
274 *|*****
275 PROCEDURE WHATTODO
276
277
278 } IF .NOT. EOF()
279 @ 10,10 SAY 'RECORD LINKED WITH LAST YEARS DATA ...'
280 STORE 'C' TO MWHAT
281 MLINK = 'Y'
282 DO CASE
283 CASE HEAD = 'H'
284     STORE HHNAME TO MOHNAME
285     STORE NOCHILD TO MCHILDREN
286 CASE HEAD = 'M'
287     STORE MOMNAME TO MOLDMOM
288 CASE HEAD = 'K'
289     STORE KIDNAME TO MOLDNAME
290 ENDCASE
291 WAIT
292 ELSE
293 @ 10,10 SAY 'RECORD IS NOT LINKED - CHECK THE INFO...'
294 STORE 'N' TO MLINK
295 MWHAT = ' '
296 DO WHILE .NOT. MWHAT $ 'QRC'
297 @ 14,10 SAY 'DO YOU WANT TO (R)E-ENTER I.D. INFO OR (C)ONTINUE 'GET MWHAT PICT '!'
298 READ
299 ENDDO
300 ENDIF
301
302 *: EOF: HEADER.PRG
```

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```
1 *:*****
2 *:
3 *:   Program: HH.PRG
4 *:
5 *:   System: Vitamin A Intervention - Second Survey
6 *:   Author: J.G., B.T., S.P
7 *:   Copyright (c) 1990, VACSP
8 *:   Last modified: 04/06/90   21:34
9 *:
10 *: Proc & Frcts: HH1
11 *:                : HH2
12 *:                : HH3
13 *:                : HH4
14 *:                : HH5
15 *:                : HH6
16 *:                : APENHH
17 *:                : CLEAN
18 *:
19 *:   Called by: MENU.PRG
20 *:
21 *:   Calls: HH1      (procedure in HH.PRG)
22 *:          : ASKOK.PRG
23 *:          : HH2      (procedure in HH.PRG)
24 *:          : HH3      (procedure in HH.PRG)
25 *:          : HH4      (procedure in HH.PRG)
26 *:          : HH5      (procedure in HH.PRG)
27 *:          : HH6      (procedure in HH.PRG)
28 *:          : APENHH
29 *:          : MORTAL.PRG (procedure in HH.PRG)
30 *:          : DIAKAP.PRG
31 *:
32 *:   Documented: 04/09/90 at 09:32   FoxDoc version 1.0
33 *:*****
34
35 SET PROC TO HH
36 PUBLIC MDEATHS,SWEETIE
37 STORE SPACE (20) TO MHHNAME,MRESPNAME, MCASTESP, MFETCHSP, MCONTSP, MKIDGOSP, ;
38 MUSESP, MDISPSP, MWORKSP, MLIVESP
39 STORE SPACE (10) TO MMOMNAME1, MMOMNAME2, MMOMNAME3,MMOMNAME4,MMOMNAME5,MMOMNAME6,MMOMNAME7
40 STORE 99 TO MNOLAST1,MNOLAST2,MNOLAST3,MNOLAST4,MNOLAST5,MNOLAST6,MNOLAST7
41 STORE 99 TO MNOTHIS1,MNOTHIS2,MNOTHIS3,MNOTHIS4,MNOTHIS5,MNOTHIS6,MNOTHIS7
42 STORE 9 TO MENU1,MENU2,MENU3,MENUM4,MENUM5,MENUM6,MENUM7, MAPP
43 MMOMNO1=1
44 MMOMNO2=2
45 MMOMNO3=3
46 MMOMNO4=4
47 MMOMNO5=5
48 MMOMNO6=6
49 MMOMNO7=7
50 STORE 99 TO MNOKIDS, MHHAGE, MCASTE, MCOV, MGOAT, MPIG, MCHICK, MBUFF, ;
51 MSHEEP, MDUCKS, MOTH LIVE
52 STORE 9 TO MUNDER11, MNOMOMS, MDEATHS, MFETCH, MWATOWN, MFAR, MTIME, MCONT, ;
53 MDRAIN, MLATRINE, MKIDGO, MWASH, MUSEWASH, MBATH, MSHOES, MDISPOSE, MSWEEP
54 STORE 9 TO MOWNHH, MTYPE, MOWNLAND, MINCLAND, MINCADEQ, MWORK, MWORK1,;
55 MWORK2, MWORK3, MGARDEN, MCONSUME, MCONSADEQ, MMONEY, MLIVEST
56 STORE 999 TO MROPANI, MANA, MBIGHA
57 STORE 99 TO MKATHA, MDHUR
58 STORE 9999 TO MAMTLAND
59 STORE ' ' TO MRIGHT, MCODE, SWEETIE
60
61
62 DAY = 'SUN'
63 DO WHILE DAY = 'SUN' .AND. MQUIT <> 'Y'
64   DO HH1
```

132

```
65 IF SWEETIE <> 'CAKE'  
66 DO ASKOK  
67 ENDIF  
68 ENDDO  
69  
70 DAY = 'SUN'  
71 DO WHILE DAY = 'SUN' .AND. MQUIT <> 'Y'  
72 DO HH2  
73 DO ASKOK  
74 ENDDO  
75  
76 DAY = 'SUN'  
77 DO WHILE DAY = 'SUN' .AND. MQUIT <> 'Y'  
78 DO HH3  
79 DO ASKOK  
80 ENDDO  
81  
82 DAY = 'SUN'  
83 DO WHILE DAY = 'SUN' .AND. MQUIT <> 'Y'  
84 DO HH4  
85 DO ASKOK  
86 ENDDO  
87  
; DAY = 'SUN'  
89 DO WHILE DAY = 'SUN' .AND. MQUIT <> 'Y'  
90 DO HH5  
91 DO ASKOK  
92 ENDDO  
93  
94 DAY = 'SUN'  
95 DO WHILE DAY = 'SUN' .AND. MQUIT <> 'Y'  
96 DO HH6  
97 DO ASKOK  
98 ENDDO  
99  
100 DAY = 'SUN'  
101 DO WHILE DAY = 'SUN' .AND. MQUIT <> 'Y'  
102 DO APENHH  
103 DAY = 'RAIN'  
104 ENDDO  
105  
106 DO WHILE MDEATHS > 0 .AND. MDEATHS <> 9 .AND. MQUIT <> 'Y'  
107 DO MORTAL  
108 MDEATHS = 9  
109 ENDDO  
110  
111  
112 DAY = 'SUN'  
DO WHILE DAY = 'SUN' .AND. MQUIT <> 'Y'  
... CLEAR  
115 menter = ' '  
116 do while .not. menter $ 'YN'  
117 @ 10,10 SAY 'Would you like to enter a diarrhea KAP form'  
118 @ 11,10 say 'for this household (Y/N) ' get menter pict '1'  
119 @ 8,5 to 13,75 double  
120 read  
121 enddo  
122 if menter = 'Y'  
123 DO DIAKAP  
124 ENDIF  
125 MQUIT = 'Y'  
126 ENDDO  
127  
128 CLOSE ALL
```

153

```
129 SET PROC TO
130 SET PROC TO MAINMENU
131
132
133 *|*****
134 *|
135 *| Procedure: HH1
136 *|
137 *| Called by: HH.PRG
138 *|
139 *| Calls: CLEAN (procedure in HH.PRG)
140 *|
141 *| Uses: MHNOKID.DBF
142 *|
143 *|*****
144 PROCEDURE HH1
145
146 DO CLEAN
147 @ 9,10 say '1. Name of respondent ' get mrespname pict '!!!!!!!!!!!!!!'
148 READ
149 DO CLEAN
150 !F MOHNAME <> ' '
151 @ 13,10 SAY '2. Household Head name '
152 @ 13,40 SAY MOHNAME PICT '!!!!!!!!!!!!!!'
153 DO WHILE .NOT. MRIGHT $ 'YN'
154 @ 15,10 say 'Is this the correct name (Y/N)...' get mright pict '!'
155 READ
156 ENDDO
157 ENDIF
158 IF MRIGHT = 'N' .OR. MOHNAME = ' '
159 MCODE = ' '
160 DO WHILE .NOT. MCODE $ '12'
161 @ 17,10 say 'You should enter a code now for this household' get mcode pict '9'
162 @ 18,14 say 'Enter '1' - New household '
163 @ 19,20 say '2' - Household last year - miscoded'
164 @ 16,8 TO 20,72
165 READ
166 ENDDO
167 DO CLEAN
168 @ 13,10 say 'Now enter the correct name as it appears on form'
169 @ 14,10 SAY 'Household head name ' get mhhname pict '!!!!!!!!!!!!!!'
170 READ
171 ELSE && OLD NAME IS CORRECT
172 MHHNAME = MOHNAME
173 MCODE = '0'
174 ENDIF
175 MRIGHT = ' '
176 @ 10,10 SAY '2. Household Head name '
177 @ 10,40 SAY MHHNAME PICT '!!!!!!!!!!!!!!'
178 DO CLEAN
179 @ 13,10 say '2a. Age of household head ' get mhhage pict '99' range 10,85
180 @ 15,10 say '3. Household caste ' get mcaste pict '99' range 1,27
181 READ
182 IF MCASTE = 27
183 @ 16,15 say '3a. Specify ' get mcastesp pict '!!!!!!!!!!!!!!'
184 MAPP = 1
185 READ
186 ENDIF
187 @ 18,10 say '4. Do you have children under 11 years living in HH ' get munder11 pict '9' range 1,2
188 READ
189 IF MUNDER11 <> 1
190 SWEETIE='PIE'
191 DO WHILE SWEETIE='PIE'
192 SWEETIE='I'
193
```

154

```
193 @ 20,10 say 'There must be children under 11 in the HH to continue '  
194 @ 21,10 say 'Are you sure of this response (Y/N) Note that if you respond'  
195 @ 22,10 say 'with 'Y', this HH will be saved in a separate file ' get sweetie pict '1'  
196 @ 19,8 to 23,72  
197 READ  
198 DO CASE  
199 CASE SWEETIE = 'N'  
200 SWEETIE='CAKE'  
201 CASE SWEETIE = 'Y'  
202 MOUT = 'Y'  
203 CLEAR  
204 @ 10,10 SAY "ADDING DATA TO A RECORD FILE"  
205 * STORE DATA IN ANOTHER DATA BASE FILE FOR HOUSEHOLDS WITH NO KIDS  
206 SELECT 5  
207 USE HHNOKID  
208 APPEND BLANK  
209 REPLACE DATANO WITH MDATANO, DATEEN WITH MDATEEN, SITE WITH MSITE, WARD WITH MWARD, RESpname WITH MRESPNAME, HHN  
209 AME WITH MHHNAME, HHAGE WITH MHHAGE, CASTE WITH MCASTE  
210 WAIT  
211 RETURN  
212 OTHERWISE  
213 SWEETIE='PIE'  
?14 LOOP  
ENDCASE  
216 ENDDO  
217 ELSE  
218 SWEETIE='PIE'  
219 @ 20,10 SAY '5. Number of mothers with children under 11 in HH' get mnomoms pict '9' RANGE 1,7  
220 @ 22,10 say '6. Number of children under 11 in HH' " get mnokids pict '99' RANGE 1,15  
221 READ  
222 ENDIF  
223  
224  
225  
226 *|*****  
227 *|  
228 *| Procedure: HH2  
229 *|  
230 *| Called by: HH.PRG  
231 *|  
232 *|*****  
233 PROCEDURE HH2 && MOTHER CENSUS  
234 CLEAR  
235 @ 0,1 TO 24,79 DOUBLE  
236 @ 2, 10 SAY '7. Census of mothers and their children in the HH'  
237 @ 3, 18 SAY 'Mother'  
238 @ 3, 60 say 'Children'  
239 @ 4, 02 Say '7a. Number 7b. Name 7c.Enum First 7d. Last year 7e. This year'  
J = 1  
241 ROW = 5  
242 DO WHILE J <= MNOMOMS .AND. MNOMOMS <> 9  
243 ROW = ROW + 2  
244 NUMBER = 'MNMNO' + SUBSTR(STR(J,10,0),10,1)  
245 NAME = 'MNMNAME'+ SUBSTR(STR(J,10,0),10,1)  
246 ENUM = 'MENUM' + SUBSTR(STR(J,10,0),10,1)  
247 KIDSLST = 'MNOLAST' + SUBSTR(STR(J,10,0),10,1)  
248 KIDSTHIS = 'MNOTHIS' + SUBSTR(STR(J,10,0),10,1)  
249 @ ROW,08 SAY &NUMBER PICT '9'  
250 @ ROW,14 GET &NAME PICT '!!!!!!'  
251 @ ROW,39 GET &ENUM PICT '9' RANGE 1,2  
252 @ ROW,56 GET &KIDSLST PICT '99'  
253 @ ROW,71 GET &KIDSTHIS PICT '99'  
254 READ  
255 J = J + 1
```

155

```
256 ENDDO
257
258
259
260 *|*****
261 *|
262 *| Procedure: HH3
263 *|
264 *| Called by: HH.PRG
265 *|
266 *|*****
267 PROCEDURE HH3
268
269 CLEAR
270 @ 0,1 TO 24,79 DOUBLE
271 @ 2,10 SAY '8. Have there been any deaths in family in last year'
272 @ 4,10 SAY '9. Where do you fetch water from?'
273 @ 5,15 say '9. Specify '
274 @ 7,10 say '10. Is water source owned by HH '
275 @ 9,10 say '11. How far is the water source'
276 @ 11,15 say '12. How many times in water fetched '
277 @ 13,15 say '13. What is used to fetch water '
278 @ 14,18 say '13. Specify '
    @ 16,10 say '14. Is there a drainage problem?'
280 @ 2,65 GET MDEATHS PICT '9' RANGE 0,9
281 @ 4,65 GET MFETCH PICT '9' RANGE 1,8
282 READ
283 IF MFETCH = 8
284 @ 5,52 GET MFETCHSP PICT '!!!!!!!!!!!!!!!!!!!!'
285 MAPP = 1
286 READ
287 ENDIF
288 @ 7,65 GET MWATOWN PICT '9' RANGE 1,2
289 @ 9,65 GET MFAIR PICT '9' RANGE 1,4
290 @ 11,60 GET MTIMES PICT '9' RANGE 1,3
291 @ 13,60 GET MCONT PICT '9' RANGE 1,5
292 READ
293 IF MCONT = 5
294 @ 14,52 GET MCONTSP PICT '!!!!!!!!!!!!!!!!!!!!'
295 MAPP = 1
296 READ
297 ENDIF
298 @ 16,65 GET MDRAIN PICT '9' RANGE 1,3
299 READ
300
301
302 *|*****
303 *|
304 *| Procedure: HH4
305 *|
306 *| Called by: HH.PRG
307 *|
308 *|*****
309 PROCEDURE HH4
310
311 CLEAR
312 @ 0,1 TO 24,79 DOUBLE
313 @ 2,10 SAY '15. Do you own a latrine?'
314 @ 4,10 SAY '16. Where do the kids go when they got to go?'
315 @ 5,15 say '16. Specify '
316 @ 7,10 say '17. Do children usually wash their hands?'
317 @ 8,15 say '17a. If YES, what they use when washing?'
318 @ 9,15 say '17a. Specify '
319 @ 11,10 say '18. How frequently to children bathe?'
```

```
320 @ 13,10 say '19. How often do the kids wear shoes ?'  
321 @ 15,10 say '20. Where do you dispose of waste ?'  
322 @ 16,15 say '20. Specify '  
323 @ 18,10 say '21. How often do you sweep inside ?'  
324  
325 @ 2,60 GET MLATRINE PICT '9' RANGE 1,2  
326 @ 4,60 GET MKIDGO PICT '9' RANGE 1,6  
327 READ  
328 IF MKIDGO = 6  
329   @ 5,52 GET MKIDGOSP PICT '!!!!!!!!!!!!!!!!!!!!'  
330   MAPP = 1  
331   READ  
332   ENDOIF  
333 @ 7,60 GET MMASH PICT '9' RANGE 1,2  
334 READ  
335 IF MMASH = 1  
336   @ 8,65 GET MUSEWASH PICT '9' RANGE 1,4  
337   READ  
338   IF MUSEWASH = 4  
339     @ 9,52 GET MUSESP PICT '!!!!!!!!!!!!!!!!!!!!'  
340     MAPP = 1  
341     READ  
342   ENDOIF  
ELSE  
344   MUSEWASH = 8  
345 ENDOIF  
346 @ 11,60 GET MBATH PICT '9' RANGE 1,6  
347 @ 13,60 GET MSHOES PICT '9' RANGE 1,5  
348 @ 15,60 GET MDISPOSE PICT '9' RANGE 1,5  
349 READ  
350 IF MDISPOSE = 5  
351   @ 16,52 GET MDISPSP PICT '!!!!!!!!!!!!!!!!!!!!'  
352   MAPP = 1  
353   READ  
354 ENDOIF  
355 @ 18,60 GET MSWEEP PICT '9' RANGE 1,4  
356 READ  
357  
358  
359 *|*****-----  
360 *|  
361 *| Procedure: HH5  
362 *|  
363 *| Called by: HH.PRG  
364 *|  
365 *| Calls: CLEAN (procedure in HH.PRG)  
366 *|  
367 *|*****  
PROCEDURE HH5  
---  
370 CLEAR  
371 @ 0,1 TO 24,79 DOUBLE  
372 @ 2, 10 say '22. Do you own this house ?'  
373 @ 4, 10 say '23. Is house Pucca or Kaccha ?'  
374 @ 6, 10 say '24. Does family own any land ?'  
375  
376 @ 2,50 get mownhh pict '9' range 1,2  
377 @ 4,50 get mtype pict '9' range 1,2  
378 @ 6,50 get mowland pict '9' range 1,2  
379 READ  
380 IF MOWNLAND = 1  
381 DO CLEAN  
382 @ 11,8 TO 22,72 DOUBLE  
383 @ 13,30 say 'a. Ropani b. Ana '
```

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```
384 @ 14,34 get mropani pict '999'
385 @ 14,48 get mana pict '999'
386 READ
387 IF MROPANI = 999 .AND. MANA = 999
388 @ 16,25 say 'a. Bigha b. Katha c. Dhur'
389 @ 17,28 GET MBIGHA PICT '999'
390 @ 17,42 GET MKATHA PICT '99'
391 @ 17,54 GET MDHUR PICT '99'
392 READ
393 ENDIF
394
395 * This next sequence computes a standardized amount of land,
396 * expressed in terms of Bigha units.
397
398 DO CASE
399 CASE MROPANI <> 999 .OR. MANA <> 999
400 IF MROPANI = 999
401 MAMT1 = 0
402 ELSE
403 MAMT1 = MROPANI
404 ENDIF
405 IF MANA = 999
406 MAMT2 = 0
407 ELSE
408 MAMT2 = MANA
409 ENDIF
410 MAMTLAND = (MAMT1 * 1/13) + (MAMT2 * 1/208)
411 CASE MBIGHA <> 999 .OR. MKATHA <> 99 .OR. MDHUR <> 99
412 IF MBIGHA = 999
413 MAMT1 = 0
414 ELSE
415 MAMT1 = MBIGHA
416 ENDIF
417 IF MKATHA = 99
418 MAMT2 = 0
419 ELSE
420 MAMT2 = MKATHA
421 ENDIF
422 IF MDHUR = 99
423 MAMT3 = 0
424 ELSE
425 MAMT3 = MDHUR
426 ENDIF
427 MAMTLAND = (MAMT1) + (MAMT2 * 1/20) + (MAMT3 * 1/400)
428 ENDCASE
429 IF MAMTLAND <> 9999
430 @ 19,20 say 'Standardized amount of land = ' + ltrim(str(mamtland,7,3))
431 WAIT
432 @ 0,1 TO 24,79 DOUBLE
433 ENDIF
434 DO CLEAN
435 @ 10,15 say '24b. Does HH generate income from land ?'
436 @ 11,18 say '24c. If YES, is income adequate to support HH ?'
437 @ 10,65 GET MINCLAND PICT '9' RANGE 1,2
438 READ
439 IF MINCLAND = 1
440 @ 11,70 GET MINCADEQ PICT '9' RANGE 1,2
441 READ
442 ELSE
443 MINCADEQ = 8
444 ENDIF
445 ELSE
446 MINUIT = 8
447 MINCLAND = 8
```

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```
448 STORE 888 TO MWOPANI, MANA, MWIGHA
449 STORE 88 TO MWKATHA, MWKHUR
450 STORE 8888 TO MWMTLAND
451 ENDIF
452
453 @ 13,10 say '25. Do any members of HH work outside ?'
454 @ 14,15 say '25a. IF YES, enter up to three (no duplicates, except for 9)'
455 @ 13,60 GET MWORK PICT '9' RANGE 1,2
456 READ
457 IF MWORK = 1
458     JIMI = 'MORRISON'
459     DO WHILE JIMI = 'MORRISON'
460         @ 15,20 GET MWORK1 PICT '9'
461         @ 15,40 GET MWORK2 PICT '9'
462         @ 15,60 GET MWORK3 PICT '9'
463         READ
464         IF ((MWORK1 = MWORK2 .OR. MWORK1 = MWORK3) .AND. MWORK1 <> 9) .OR. ;
465             ((MWORK2 = MWORK1 .OR. MWORK2 = MWORK3) .AND. MWORK2 <> 9) .OR. ;
466             ((MWORK3 = MWORK1 .OR. MWORK3 = MWORK2) .AND. MWORK3 <> 9) ;
467             LOOP
468         ELSE
469             JIMI = 'HENDRIX'
470         ENDIF
471         IF MWORK1=8 .OR. MWORK2 = 8 .OR. MWORK3 = 8
472             @ 17,52 GET MWORKSP PICT '!!!!!!!!!!!!!!!!!!!!!!'
473             MAPP = 1
474             READ
475         ENDIF
476     ENDDO
477 ENDIF
478
479 @ 19,10 say '26. Do you have a kitchen garden ?'
480 @ 20,15 say '26a. If YES, do you consume vegies grown ?'
481 @ 21,15 say '26b. If consume vegies, are they suff. for HH ?'
482 @ 19,50 GET MGARDEN PICT '9' RANGE 1,2
483 READ
484 IF MGARDEN = 1
485     @ 20,65 GET MCONSUME PICT '9' RANGE 1,3
486     READ
487     IF MCONSUME = 1 .OR. MCONSUME = 2
488         @ 21,65 GET MCONSADEQ PICT '9' RANGE 1,2
489         READ
490     ELSE
491         MCONSADEQ = C
492     ENDIF
493 ELSE
494     MCONSUME = 8
495     MCONSADEQ = 8
496 ENDIF
497
498
499 *|*****
500 *|
501 *| Procedure: HH6
502 *|
503 *| Called by: HH.PRG
504 *|
505 *|*****
506 PROCEDURE HH6
507
508 CLEAR
509 @ 0,1 TO 24,79 DOUBLE
510 @ 3,10 say '24. How much money do you spend on vegies each week ?'
511 @ 6,10 say '25. Does HH own any livestock ?'
```

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```
512 @ 3,65 GET MONEY PICT '9' RANGE 1,4
513 @ 6,60 GET MLIVEST PICT '9' RANGE 1,2
514 READ
515 IF MLIVEST = 1
516 @ 8,15 say 'Cow ' get mcow pict '99'
517 @ 9,15 say 'Goat ' get mgoat pict '99'
518 @ 10,15 say 'Pig ' get mpig pict '99'
519 @ 11,15 say 'Chicken' get mchick pict '99'
520 @ 8,40 say 'Buffalo' get mbuff pict '99'
521 @ 9,40 say 'Sheep ' get msheep pict '99'
522 @ 10,40 say 'Ducks ' get mducks pict '99'
523 @ 11,40 say 'Other ' get mothlive pict '99'
524 READ
525 IF MOTHLIVE > 0 .AND. MOTHLIVE < 99
526 @ 13,45 say 'Specify ' get mlivesp pict '!!!!!!!!!!!!!!!!!!!!'
527 READ
528 ENDIF
529 ENDIF
530
531
532
533 *|*****
534 *|
535 *| Procedure: APENHH
536 *|
537 *| Called by: HH.PRG
538 *|
539 *| Uses: HH.DBF
540 *| : LIVESTOK.DBF
541 *| : HNSPEC.DBF
542 *| : HNCEN.DBF
543 *|
544 *|*****
545 PROCEDURE APENHH
546
547
548 CLEAR
549 @ 10,10 SAY "ADDING DATA TO A RECORD FILE"
550 SELECT 1
551 USE HH
552 APPEND BLANK
553 REPLACE DATANO WITH MDATENO, DATEEN WITH MDATEEN, SITE WITH MSITE, WARD WITH MWARD, HH WITH MHH, RESPNAME WITH MRESPNAME,
554 MNAME WITH MHHNAME, MHAGE WITH MHHAGE, CASTE WITH MCASTE
555 REPLACE UNDER11 WITH MUNDER11, NOMOMS WITH MNOMOMS, NOKIDS WITH MNOKIDS, DEATHS WITH MDEATHS, FETCH WITH MFETCH, WATOWN W
556 ITH MWATOWN, FAR WITH M FAR, TIMES WITH MTIMES, CONT WITH MCONT
557 REPLACE DRAIN WITH MDRAIN, LATRINE WITH MLATRINE, KIDGO WITH MKIDGO, WASH WITH MWASH, USEWASH WITH MUSEWASH, BATH WITH MB
558 ATH, SHOES WITH MSHOES, DISPOSE WITH MDISPOSE, SWEEP WITH MSWEEP
559 REPLACE OWNHH WITH MOWNHH, TYPE WITH MTYPE, OWNLAND WITH MOWNLAND, ROPANI WITH MROPANI, ANA WITH MANA, BIGHA WITH MBIGHA,
560 KATHA WITH MKATHA, DHUR WITH MDHUR, AMTLAND WITH MAHTLAND
561 REPLACE INCLAND WITH MINCLAND, INCADEQ WITH MINCADEQ, WORK WITH MWORK, WORK1 WITH MWORK1, WORK2 WITH MWORK2, WORK3 WITH M
562 WORK3, GARDEN WITH MGARDEN, CONSUME WITH MCONSUME, CONSADEQ WITH MCONSADEQ
563 REPLACE MONEY WITH MMONEY, LIVEST WITH MLIVEST, LINK WITH MLINK , CODE WITH MCODE
564 IF MLIVEST = 1
565 SELECT 2
566 USE LIVESTOK && LIVESTOCK RESPONSES FOR QUESTION 26A
567 APPEND BLANK
568 REPLACE SITE WITH MSITE, HH WITH MHH, COW WITH MCOV, GOAT WITH MGOAT, PIG WITH MPIG, CHICK WITH MCHICK, BUFF WITH MBUF
569 F, SHEEP WITH MSHEEP, DUCKS WITH MDUCKS, OTHLIVE WITH MOTHLIVE, LIVESP WITH MLIVESP
570 ENDIF
571 IF MAPP = 1
572 SELECT 3
573 USE HNSPEC && SPECIAL CODES WHICH WERE SPECIFIED FOR DIFFERENT RESPONSES
574 APPEN BLANK
575 REPLACE SITE WITH MSITE, HH WITH MHH, CASTESP WITH MCASTESP, FETCHSP WITH MFETCHSP, CONTSP WITH MCONTSP, KIDGOSP WITH
```

```
569 MKIDGOSP, USESP WITH MUSESP, DISPSP WITH MDISPSP, WORKSP WITH MWORKSP
570 ENDIF
571 IF MNOMNS > 0 .AND. MNOMNS < 9
572   SELECT 4
573   USE MHCEN   && HOUSEHOLD CENSUS
574   APPEND BLANK
575   REPLACE MOMNO1 WITH MNOMNO1, MOMNO2 WITH MNOMNO2, MOMNO3 WITH MNOMNO3, MOMNO4 WITH MNOMNO4, MOMNO5 WITH MNOMNO5, MOMNO
576   6 WITH MNOMNO6, MOMNO7 WITH MNOMNO7
577   REPLACE MOMNAME1 WITH MNOMNAME1, MOMNAME2 WITH MNOMNAME2, MOMNAME3 WITH MNOMNAME3, MOMNAME4 WITH MNOMNAME4, MOMNAME5 W
578   ITH MNOMNAME5, MOMNAME6 WITH MNOMNAME6, MOMNAME7 WITH MNOMNAME7
579   REPLACE ENUM1 WITH MENUM1, ENUM2 WITH MENUM2, ENUM3 WITH MENUM3, ENUM4 WITH MENUM4, ENUM5 WITH MENUM5, ENUM6 WITH MENU
580   M6, ENUM7 WITH MENUM7
581   REPLACE MOLA1 WITH MNOLA1, MOLA2 WITH MNOLA2, MOLA3 WITH MNOLA3, MOLA4 WITH MNOLA4, MOLA5 WITH MNOLA
582   6, MOLA6 WITH MNOLA6, MOLA7 WITH MNOLA7
583   REPLACE MOTHIS1 WITH MNOTHIS1, MOTHIS2 WITH MNOTHIS2, MOTHIS3 WITH MNOTHIS3, MOTHIS4 WITH MNOTHIS4, MOTHIS5 WITH MNOTH
584   IS, MOTHIS6 WITH MNOTHIS6, MOTHIS7 WITH MNOTHIS7
585 ENDIF
586 CLOSE DATABASES
587 CLEAR
588 @ 10,10 SAY " DATA RECORD HAS BEEN ENTERED INTO DATA BASE ..... "
589 WAIT
590
591 *|*****
592 *|
593 *|      Procedure: CLEAN
594 *|
595 *|      Called by: HH1          (procedure in HH.PRG)
596 *|                  : HH5          (procedure in HH.PRG)
597 *|
598 *|*****
599 PROCEDURE CLEAN
600
601 IF MOWNLAND = 1
602   @ 11,0 SAY MSPACE
603   @ 12,0 SAY MSPACE
604 ENDIF
605 @ 13,0 SAY MSPACE
606 @ 14,0 SAY MSPACE
607 @ 15,0 SAY MSPACE
608 @ 16,0 SAY MSPACE
609 @ 17,0 SAY MSPACE
610 @ 18,0 SAY MSPACE
611 @ 19,0 SAY MSPACE
612 @ 20,0 SAY MSPACE
613 @ 21,0 SAY MSPACE
614 @ 22,0 SAY MSPACE
615 @ 23,0 SAY MSPACE
616 @ 0,1 TO 24,79 DOUBLE
617 *: EOF: HH.PRG
```

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```
1 *:*****
2 *:
3 *:   Program: KID.PRG
4 *:
5 *:   System: Vitamin A Intervention - Second Survey
6 *:   Author: J.G., B.T., S.P
7 *:   Copyright (c) 1990, VACSP
8 *:   Last modified: 04/06/90   21:35
9 *:
10 *: Proc & Fncts: KID1
11 *:                : KID2
12 *:                : APENKID
13 *:                : AGECALC1
14 *:                : CHECK1
15 *:                : CLEAN1
16 *:
17 *:   Called by: KIDMENU.PRG
18 *:
19 *:   Calls: KID1      (procedure in KID.PRG)
20 *:          : ASKOK.PRG
21 *:          : KID2      (procedure in KID.PRG)
22 *:          : APENKID   (procedure in KID.PRG)
23 *:
24 *:   Documented: 04/09/90 at 09:32      FoxDoc version 1.0
25 *:*****
26 SET PROCEDURE TO KID
27 STORE SPACE(20) TO MKIDNAME, MRELSP, mimnosp
28 STORE 9 TO MRELATION, MSEX, MVITA, MVITANO, MWORM, MDEWORM,MDIA, MJJ, ;
29   VARI, MCOTRI, MDPT, MPOLIO, MNEAS, MIMMNO
30 STORE 99 TO MAGEYRS,MAGEMTH
31 store 999 to MAGE
32 STORE ' ' TO MCODE
33 STORE 'Y' TO KIDDONE && TO BE USED FOR OTHER CHILD LEVEL FORMS
34
35 DAY = 'SUN'
36 DO WHILE DAY = 'SUN' .AND. MQUIT <> 'Y'
37   DO KID1
38   DO ASKOK
39 ENDDO
40
41 DAY = 'SUN'
42 DO WHILE DAY = 'SUN' .AND. MQUIT <> 'Y'
43   DO KID2
44   DO ASKOK
45 ENDDO
46
47 DAY = 'SUN'
48 DO WHILE DAY = 'SUN' .AND. MQUIT <> 'Y'
49   DO APENKID
50   CLOSE ALL
51   MQUIT = 'Y'
52 ENDDO
53
54 SET PROC TO
55 SET PROC TO MAINMENU
56 RETURN
57
58
59
60 *|*****
61 *|
62 *|   Procedure: KID1
```

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```
65 *|
66 *|          Calls: CLEAN1          (procedure in KID.PRG)
67 *|          : CHECK1             (procedure in KID.PRG)
68 *|          : AGECALC1           (procedure in KID.PRG)
69 *|
70 *|*****
71 PROCEDURE KID1
72
73 DO CLEAN1
74 IF MOLDNAME <> ' '
75   @ 9,10 SAY '1. Kid name '
76   @ 9,40 say moldname pict '!!!!!!!!!!!!!!!!!!!!!!'
77   DO CHECK1
78 ELSE
79   MCODE = '0'
80   DO CHECK1
81 ENDIF
82 DO CLEAN1
83 @ 9,8 SAY MSPACE
84 @ 9,10 SAY '1. Kid Name '
85 @ 9,40 say MKIDNAME PICT '!!!!!!!!!!!!!!!!!!!!!!'
86 @ 11,10 SAY "1a. Age in years          months      Sex "
87 @ 13,5 SAY "2. Respondents relation to child ?"
   ; @ 14,20 SAY "2 (9) Specify ?"
89 @ 16,5 SAY "3. Has child received Vitamin A ?"
90 @ 17,20 SAY "3a. If YES, how many capsules ?"
91 @ 19,5 say "4. Has child received deworming tablets ?"
92 @ 20,20 say "4a. If YES, how many deworming tabs ?"
93
94 @ 11,29 GET MAGEYRS PICT '99' RANGE 0,12
95 @ 11,45 GET MAGEMTH PICT '99' RANGE 0,11
96 @ 11,60 GET MSEX PICT '9' RANGE 1,2
97 @ 13,50 GET MRELATION PICT '9' RANGE 1,9
98 READ
99 DO CASE
100 CASE MSEX = 1
101   @ 12,62 say 'Male'
102 CASE MSEX = 2
103   @ 12,62 say 'Female'
104 OTHERWISE
105   @ 12,25 say 'NO SEX HAS BEEN ENTERED, please CHECK THE FORM'
106 ENDCASE
107 IF MRELATION = 9
108   @ 14,52 GET MRELSP PICT '!!!!!!!!!!!!!!!!!!!!!!'
109   READ
110 ENDIF
111 @ 16,50 GET MVITA PICT '9' RANGE 1,3
112 READ
   IF MVITA = 1
... @ 17,65 GET MVITANO PICT '9' RANGE 1,7
115   READ
116 ELSE
117   MVITANO = 8
118 ENDIF
119 @ 19,50 GET MWORM PICT '9' RANGE 1,3
120 READ
121 IF MWORM = 1
122   @ 20,65 GET MDEWORM PICT '9' RANGE 1,7
123   READ
124 ELSE
125   MDEWORM = 8
126 ENDIF
127 DO AGECALC1
128
```



```
193 DO CASE
194 CASE MAGEYRS <> 99 .AND. MAGENTH = 99
195 MAGE=(MAGEYRS*12)
196 CASE MAGEYRS <> 99 .AND. MAGENTH <> 99
197 MAGE=(MAGEYRS*12)+ MAGENTH
198 CASE MAGEYRS = 99 .AND. MAGENTH <> 99
199 MAGE=(MAGENTH)
200 ENDCASE
201 @ 22,10 SAY 'Age in years           Months           Calculated Age'
202 @ 22,25 SAY LTRIM(STR(MAGEYRS))
203 @ 22,42 SAY LTRIM(STR(MAGENTH))
204 IF MAGE <> 999
205 @ 22,65 SAY LTRIM(STR(MAGE))
206 ELSE
207 @ 22,65 SAY 'MISSING'
208 ENDIF
209
210
211
212 *|*****
213 *|
214 *| Procedure: APENKID
215 *|
216 *| Called by: KID.PRG
217 *|
218 *| Uses: KID.DBF
219 *| : KIDSP.DBF
220 *|
221 *|*****
222 PROCEDURE APENKID
223
224 CLOSE ALL
225 SELECT 1
226 USE KID
227 APPEND BLANK
228 REPLACE SITE WITH MSITE, HH WITH MHH, MOMNO WITH MMOMNO, KIDNAME WITH MKIDNAME, KIDNO WITH MKIDNO, AGE WITH MAGE
229 REPLACE SEX WITH MSEX, AGEYRS WITH MAGEYRS, AGEMTH WITH MAGENTH, RELATION WITH MRELATION, VITA WITH MVITA
230 REPLACE VITANO WITH MVITANO, WORM WITH MWORM, DEWORM WITH MDEWORM, DIA WITH MDIA, JJ WITH MJJ, ARI WITH MARI
231 REPLACE COTRI WITH MCOTRI, DPT WITH MDPT, POLIO WITH MPOLIO, MEAS WITH MMEAS, IMMNO WITH MIMMNO, CODE WITH MCODE, LINK WI
232 TH MLINK
233 IF MRELSP <> ' ' .OR. MIMMNO <> ' '
234 SELECT 2
235 USE KIDSP
236 APPEN BLANK
237 REPLACE SITE WITH MSITE, HH WITH MHH, MOMNO WITH MMOMNO, KIDNO WITH MKIDNO, RELSP WITH MRELSP, IMMNO WITH MIMMNO
238 ENDIF
239 CLEAR
240 @ 10,10 SAY "DATA RECORD HAS BEEN ENTERED "
241 WAIT
242 CLOSE DATA
243 RETURN
244 *|*****
245 *|
246 *| Procedure: CHECK1
247 *|
248 *| Called by: KID1 (procedure in KID.PRG)
249 *|
250 *| Calls: CLEAN1 (procedure in KID.PRG)
251 *|
252 *|*****
253 PROCEDURE CHECK1
254
255 MRIGHT = ' '
```

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```
256 DO WHILE .NOT. MRIGHT $ 'YH' .and. moldname <> ' ' ,
257 @ 11,10 SAY 'IS THIS THE CORRECT NAME (Y/N)...' GET MRIGHT PICT '1'
258 READ
259 ENDDO
260 IF MRIGHT = 'N' .OR. MOLDNAME = '
261 MCODE = ' '
262 DO WHILE .NOT. MCODE $ '12345'
263 DO CLEAN1
264 @ 13,10 SAY 'YOU SHOULD ENTER A CODE NOW FOR THIS CHILD' GET MCODE PICT '9'
265 @ 14,15 SAY 'PLEASE REFER TO THE MOTHER FORM FOR THIS INFO'
266 @ 16,14 SAY 'ENTER '1' - NEW BIRTH'
267 @ 17,20 SAY "'2' - CHILD MOVED FROM OTHER HH IN SITE"
268 @ 18,20 SAY "'3' - CHILD MOVED FROM OTHER HH FROM OTHER SITE"
269 @ 19,20 SAY "'4' - CHILD IN HH LAST YEAR, BUT NOT AVAILABLE"
270 @ 20,20 SAY "'5' - CHILD IN HH LAST YEAR, BUT MISCODED"
271 @ 12,8 TO 21,72
272 READ
273 ENDDO
274 @ 9,4 SAY MSPACE
275 @ 11,4 SAY MSPACE
276 @ 09,10 SAY 'NOW ENTER THE CORRECT NAME AS IT APPEARS ON FORM'
277 @ 11,10 SAY '1. KID NAME ' GET MKIDNAME PICT '!!!!!!!!!!!!!!!!!!!!!!'
278 READ
DO CLEAN1
280 ELSE && OLD NAME IS CORRECT
281 MKIDNAME = MOLDNAME
282 ENDIF
283
284
285 *|*****
286 *|
287 *| Procedure: CLEAN1
288 *|
289 *| Called by: KID1 (procedure in KID.PRG)
290 *| : CHECK1 (procedure in KID.PRG)
291 *|
292 *|*****
293 PROCEDURE CLEAN1
294
295 @ 10,4 SAY MSPACE
296 @ 11,4 SAY MSPACE
297 @ 12,4 SAY MSPACE
298 @ 13,4 SAY MSPACE
299 @ 14,4 SAY MSPACE
300 @ 15,4 SAY MSPACE
301 @ 16,4 SAY MSPACE
302 @ 17,4 SAY MSPACE
303 @ 18,4 SAY MSPACE
@ 19,4 SAY MSPACE
@ 20,4 SAY MSPACE
306 @ 21,4 SAY MSPACE
307 @ 22,4 SAY MSPACE
308 *: EOF: KID.PRG
```

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```

1  *:*****
2  *:
3  *:      Program: KIDMENU.PRG
4  *:
5  *:      System: Vitamin A Intervention - Second Survey
6  *:      Author: J.G., B.T., S.P
7  *:      Copyright (c) 1990, VACSP
8  *:      Last modified: 03/25/90      15:03
9  *:
10 *:      Called by: MENU.PRG
11 *:
12 *:      Calls: HLITEBAR      (procedure in MAINMENU.PRG)
13 *:      : HEADER.PRG
14 *:      : HEAD.PRG
15 *:      : KID.PRG
16 *:      : CLINIC.PRG
17 *:      : MORBID.PRG
18 *:      : CASECON.PRG
19 *:      : SHIT.PRG
20 *:
21 *:      Documented: 04/09/90 at 09:32
22 *:*****      FoxDoc version 1.0
23 AN3="Y"
, DO WHILE AN3 ="Y"
25 CLEAR
26 @ 7,15 SAY 'VITAMIN A INTERVENTION STUDY - DATA ENTRY'
27 @ 8,18 SAY 'SECOND SURVEY - MENU FOR CHILD DATA LEVEL'
28 @ 6,5 TO 9,75 DOUBLE
29 @ 3,45 say 'Site Number ... ' + (trim(str(msite)))
30 @ 2,40 to 4,65 double
31 SET COLOR TO W+/N
32 NUMOPT=6      && THE NUMBER OF OPTIONS
33 ROW=16      && ROW THAT YOU WANT TO HILITE BAR TO BE ON
34 DELSEL=1      && THE SELECTION TO BE HIGHLIGHTED
35 STORE '020817294452' TO LOCLINE && THE LOCATION OF THE FIRST LETTER OF EACH OPTION
36 STORE '030609120514' TO LENLINE && THE LENGTH OF EACH OPTION
37 STORE 'KCMASR' TO FRSTCHR && THE FIRST CHARACTER OF EACH OPTION
38 STORE 'Kid Clinic Morbidity cAse-control Stool Return to menu' TO LINE
39 MSG1="Enter data for Kid form      "
40 MSG2="Enter data for Clinic form      "
41 MSG3="Enter data for Morbidity      "
42 MSG4="Enter data for Case-control      "
43 MSG5="Enter data for stool / serum samples      "
44 MSG6="Return to main menu      "
45 STORE ' ' TO SELECT
46 DO HLITEBAR WITH SELECT
47 CLEAR
48 DO CASE
CASE SELECT=1
50 HEAD = 'K'
51 DO HEADER
52 IF DAY <> 'SLEET'
53 DO HEAD
54 DO KID
55 ENDIF
CASE SELECT=2
56 HEAD = 'C'
57 DO HEADER
58 IF DAY <> 'SLEET'
59 DO HEAD
60 DO CLINIC
61 ENDIF
CASE SELECT=3
62 HEAD = ' '
63
64

```

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```
65 DO HEADER
66 IF DAY <> 'SLEET'
67 DO HEAD
68 DO MORBID
69 ENDIF
70 CASE SELECT=4
71 HEAD = 'X'
72 DO HEADER
73 IF DAY <> 'SLEET'
74 DO HEAD
75 DO CASECON:
76 ENDIF
77 CASE SELECT=5
78 HEAD = ' '
79 DO HEADER
80 IF DAY <> 'SLEET'
81 DO HEAD
82 DO SHIT
83 ENDIF
84 CASE SELECT=6
85 AN3='N'
86 EXIT
87 ENDCASE
88 ENDDO
89
90 *: EOF: KIDMENU.PRG
```

```
1 *****
2 *:
3 *:
4 *:      Program: MAINMENU.PRG
5 *:
6 *:      System: Vitamin A Intervention - Second Survey
7 *:      Author: J.G., B.T., S.P
8 *:      Copyright (c) 1990, VACSP
9 *:      Last modified: 03/22/90      19:49
10 *:
11 *:      Procs & Frcts: HLITEBAR
12 *:                   : COPY
13 *:                   : COPYING
14 *:
15 *:      Calls: HLITEBAR      (procedure in MAINMENU.PRG)
16 *:             : SITE.PRG
17 *:             : COPY      (procedure in MAINMENU.PRG)
18 *:
19 *:      Documented: 04/09/90 at 09:31      FoxDoc version 1.0
20 *:*****
21 CLOSE DATABASES
22 CLOSE ALL
23 SET PROC TO MAINMENU
24 SET ECHO OFF
25 SET TALK OFF
26 SET STAT OFF
27 SET BELL OFF
28 PUBLIC MDATEEN,MDATEEN,MMONITOR,MSITE,MWARD,MHH,MNMNO,MKIDNO,AN1,AN2,HEAD
29 PUBLIC MLINK,MSPACE, DAY, MQUIT, MSEX, MAGEYRS, MAGEMTH, MAGE
30 PUBLIC KIDDONE, CLINDONE      && KID FORMS FILLED OUT BEFORE OTHER CHILD LEVEL
31 STORE 'N' TO KIDDONE,CLINDONE && THEN BASIC DATA ARE SAVED FOR OTHERS
32
33 STORE 999 TO MSITE,MHH      && THE NEXT SIX LINES ARE MEMORY VARIABLES USED
34 STORE 99 TO MKIDNO,MWARD      && ACROSS DATA FORMS, DEFINED AS PUBLIC
35 STORE 9 TO MNMNO,MMONITOR,MDATEEN
36 STORE SPACE(75) TO MSPACE
37 STORE 'N' TO MQUIT, MLINK
38 STORE DATE() TO MDATEEN
39
40 AN1="Y"
41 DO WHILE AN1 ="Y"
42   CLEAR
43   @ 4,21 SAY 'VITAMIN A INTERVENTION STUDY - DATA ENTRY'
44   @ 5,31 SAY 'SECOND SURVEY'
45   @ 3,5 TO 6,75 DOUBLE
46   SET COLOR TO W+/N
47   NUMOPT=4
48   ROW=16      && THE NUMBER OF OPTIONS
49   DELSEL=1    && ROW THAT YOU WANT TO HILITE BAR TO BE ON
50   STORE '01132433' TO LOCLINE && THE SELECTION TO BE HIGHLIGHTED
51   STORE '10090711' TO LENLINE && THE LOCATION OF THE FIRST LETTER OF EACH OPTION
52   STORE 'ECLD' TO FRSTCHR && THE LENGTH OF EACH OPTION
53   STORE 'Enter data Copy data Linking exit to Dos' TO LINE && THE FIRST CHARACTER OF EACH OPTION
54   MSG1="Enter Data      "
55   MSG2="Copy data onto diskettes (finished Site)"
56   MSG3="Identify linking errors      "
57   MSG4="Return to DOS      "
58   STORE ' ' TO SELECT
59   DO HLITEBAR WITH SELECT
60   CLEAR
61   DO CASE
62     CASE SELECT=1
63       DO SITE
64     CASE SELECT=2
```

```
65     DO COPY
66     LOOP
67     CASE SELECT=3
68     @ 10,10 SAY 'Option Not yet implemented'
69     WAIT
70     LOOP
71     *     DO LINK
72     CASE SELECT=4
73     AN1='N'
74     EXIT
75     ENDCASE
76 ENDDO
77
78
79 *)*****
80 *)
81 *)     Procedure: HLITEBAR
82 *)
83 *)     Called by: MAINMENU.PRG
84 *)           : MENU.PRG
85 *)           : KIDMENU.PRG
86 *)
87 *)*****
  } PROCEDURE HLITEBAR
89
90 PARAMETER SEL
91 MENUCK=.T.
92 SEL=DELSEL
93 DO WHILE MENUCK
94     SET COLOR TO
95     @ ROW,01 SAY LINE
96     SET COLOR TO W/W+
97     COL = VAL(SUBSTR(LOCLINE,SEL*2-1,2))+0
98     HILITE = SUBSTR(LINE,VAL(SUBSTR(LOCLINE,SEL*2-1,2)), ;
99     VAL(SUBSTR(LENLINE,SEL*2-1,2)))
100    @ ROW,COL SAY HILITE
101    SET COLOR TO W/W
102    STORE 'MSG' + STR(SEL,1) TO MSGNUM
103    @ ROW+3,02 SAY &MSGNUM
104    I=0
105    DO WHILE I=0
106        I=INKEY()
107    ENDDO
108    DO CASE
109    CASE I=1
110        SEL=1
111    CASE I=6
112        SEL=NUMOPT
113    CASE I=4
114        IF SEL=NUMOPT
115            SEL=1
116        ELSE
117            SEL=SEL+1
118        ENDIF
119    CASE I=19
120        IF SEL=1
121            SEL=NUMOPT
122        ELSE
123            SEL=SEL-1
124        ENDIF
125    CASE I=13
126        MENUCK=.F.
127    CASE UPPER(CHR(I)) $ FRSTCHR
128        MENUCK=.F.
```

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```
129 DO CASE
130 CASE UPPER(CHR(1)) $ SUBSTR(FRSTCHR,1,1)
131 SEL=1
132 CASE UPPER(CHR(1)) $ SUBSTR(FRSTCHR,1,2)
133 SEL=2
134 CASE UPPER(CHR(1)) $ SUBSTR(FRSTCHR,1,3)
135 SEL=3
136 CASE UPPER(CHR(1)) $ SUBSTR(FRSTCHR,1,4)
137 SEL=4
138 CASE UPPER(CHR(1)) $ SUBSTR(FRSTCHR,1,5)
139 SEL=5
140 CASE UPPER(CHR(1)) $ SUBSTR(FRSTCHR,1,6)
141 SEL=6
142 CASE UPPER(CHR(1)) $ SUBSTR(FRSTCHR,1,7)
143 SEL=7
144 CASE UPPER(CHR(1)) $ SUBSTR(FRSTCHR,1,8)
145 SEL=8
146 ENDCASE
147 OTHERWISE
148 ?? CHR(7)
149 ENDCASE
150 ENDDO
151
152
153
154
155
156 *|*****
157 *|
158 *| Procedure: COPY
159 *|
160 *| Called by: MAINMENU.PRG
161 *|
162 *| Calls: COPYING (procedure in MAINMENU.PRG)
163 *|
164 *|*****
165 PROCEDURE COPY
166
167
168 CLEAR
169 J= 0
170 DO WHILE J = 0
171 CLEAR
172 @ 10,15 SAY "SITE NUMBER THAT YOU WISH TO COPY ONTO DISKETTE ? "
173 @ 11,15 SAY "OR ENTER '888' TO QUIT AND RETURN TO MAIN MENU" GET J PICT "999"
174 @ 9,5 TO 12,75 DOUBLE
175 READ
176 IF J = 0 .OR. (J > 999 .AND. J <> 888)
177 J = 0
178 LOOP
179 ENDIF
180 IF J = 888
181 RETURN
182 ENDF
183 READ
184 DO COPYING
185 J=999
186 RETURN
187 ENDDO
188
189 *|*****
190 *|
191 *| Procedure: COPYING
192 *|
```

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```
193 *I      Called by: COPY                (procedure in MAINMENU.PRG)
194 *I
195 *I*****
196 PROCEDURE COPYING
197
198 CLEAR
199 DISK = J
200 DO WHILE DISK = J
201   DO CASE
202     CASE J < 10
203       MFILE ="A:DISK" + SUBSTR(STR(J,10,0),10,1)
204       CASE J = 10 .OR. J < 100
205         MFILE ="A:DISK" + SUBSTR(STR(J,10,0),9,2)
206       CASE J = 100
207         MFILE ="A:DISK100"
208       ENDCASE
209       STORE ' ' TO CONT
210       DO WHILE CONT=' '
211         CLEAR
212         @ 10,10 SAY "YOU ARE ABOUT TO COPY FILES FOR SITE NUMBER" + STR(J)
213         @ 11,10 SAY "NOTE: ALL FILES ON THE DISKETTE WILL BE ERASED !!!!"
214         @ 13,20 SAY "ARE YOU SURE (Y/N) ==>" GET CONT PICT "!"
215         @ 9,5 TO 14,75 DOUBLE
216         READ
217         IF CONT <> 'Y' .AND. CONT <> 'N'
218           CONT = ' '
219         LOOP
220       ENDIF
221     ENDDO
222   DO CASE
223     CASE CONT ='Y'
224       @ 17,10 SAY "COPYING FILES TO DISKETTE FOR SITE " + STR(J)
225       @ 16,5 TO 18,75 DOUBLE
226       RUN ERASE A:*. *
227       RUN COPY FILE.BAT &MFILE
228       RUN COPY *.DBF A:
229     CASE CONT ='N'
230       RETURN
231     ENDCASE
232   DISK = 999
233 ENDDO
234
235
236
237
238 *: EOF: MAINMENU.PRG
```

```
1 *:*****
2 *:
3 *:   Program: MENU.PRG
4 *:
5 *:   System: Vitamin A Intervention - Second Survey
6 *:   Author: J.G., B.T., S.P
7 *:   Copyright (c) 1990, VACSP
8 *:   Last modified: 03/22/90   19:49
9 *:
10 *:   Called by: SITE.PRG
11 *:
12 *:   Calls: HLITEBAR   (procedure in MAINMENU.PRG)
13 *:           : HEADER.PRG
14 *:           : HEAD.PRG
15 *:           : WARD.PRG
16 *:           : HH.PRG
17 *:           : MOM.PRG
18 *:           : KIDMENU.PRG
19 *:
20 *:   Documented: 04/09/90 at 09:31   FoxDoc version 1.0
21 *:*****
22 AN2="Y"
23 DO WHILE AN2 ="Y"
24   CLEAR
25   @ 7,15 SAY 'VITAMIN A INTERVENTION STUDY - DATA ENTRY'
26   @ 8,18 SAY 'SECOND SURVEY - MENU FOR DATA LEVEL'
27   @ 6,5 TO 9,75 DOUBLE
28   @ 3,45 say 'Site Number ... ' + ltrim(str(msite))
29   @ 2,40 TO 4,65 DOUBLE
30   SET COLOR TO W+/N
31   NUMOPT=5           && THE NUMBER OF OPTIONS
32   ROW=16             && ROW THAT YOU WANT TO HILITE BAR TO BE ON
33   DELSEL=1          && THE SELECTION TO BE HIGHLIGHTED
34   STORE '0208192734' TO LOCLINE && THE LOCATION OF THE FIRST LETTER OF EACH OPTION
35   STORE '0409060514' TO LENLINE && THE LENGTH OF EACH OPTION
36   STORE 'WHMCR' TO FRSTCHR && THE FIRST CHARACTER OF EACH OPTION
37   STORE 'Ward Household Mother Child Return to menu' TO LINE
38   MSG1="Ward level data"
39   MSG2="Household level data"
40   MSG3="Mother level data"
41   MSG4="Child level data"
42   MSG5="Return to main menu"
43   STORE ' ' TO SELECT
44   DO HLITEBAR WITH SELECT
45   CLEAR
46   DO CASE
47   CASE SELECT=1
48     HEAD = 'W'
49     DO HEADER
50     IF DAY <> 'SLEET'
51       DO HEAD
52       DO WARD
53     ENDIF
54   CASE SELECT=2
55     HEAD = 'H'
56     DO HEADER
57     IF DAY <> 'SLEET'
58       DO HEAD
59       DO HH
60     ENDIF
61   CASE SELECT=3
62     HEAD = 'M'
63     DO HEADER
64     IF DAY <> 'SLEET'
```

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04/09/90
09:40

MENU.PRG
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```
65      DO HEAD
66      DO MOM
67      ENDIF
68      CASE SELECT=4
69      DO KIDMENU
70      CASE SELECT=5
71      AN2='M'
72      EXIT
73      ENDCASE
74 ENDDO
75
76 * : EOF: MENU.PRG
```

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```
1 *:*****
2 *:
3 *:      Program: MOM.PR
4 *:
5 *:      System: Vitamin A Intervention - Second Survey
6 *:      Author: J.G., B.T., S.P
7 *:      Copyright (c) 1990, VACSP
8 *:      Last modified: 04/06/90      21:30
9 *:
10 *: Proc & Fncts: MOM1
11 *:                : MOM2
12 *:                : MOM3
13 *:                : APENMOM
14 *:                : CLEAN3
15 *:
16 *:      Called by: MENU.PR
17 *:
18 *:      Calls: MOM1      (procedure in MOM.PR)
19 *:            : ASKOK:PRG
20 *:            : MOM2      (procedure in MOM.PR)
21 *:            : MOM3      (procedure in MOM.PR)
22 *:            : APENMOM   (procedure in MOM.PR)
23 *:
24 *:      Uses: MOMNOT.DBF
25 *:
26 *:      Documented: 04/09/90 at 09:32      FoxDoc version 1.0
27 *:*****
28
29 SET PROCEDURE TO MOM
30
31 STORE SPACE(20) TO MMOMNAME, MNDOGLVSP, MCOLNOSP, MNOMEASSP
32 STORE 99 TO MAGEMOM, MNOKIDS
33 STORE 9 TO MENUM, MMOMRESP, MNORESP, MLIT, MLITCLASS, MHEARD, MIMPORT, MFOODS, ;
34 MDGLV, MRICE, MFRUITS, MEGG, MMEAT, MPOTATO, MFEED, MSOURCE, MEATDGLV, MNDOGLV
35 STORE 9 TO MWILD, MGATHER, MEATWILD, MBREAST, MEATAMT, MEATELSE, MFEEDDIA, ;
36 MCOLOS, MCOLOSNO, MEATPREG, MWEIGHT, MMEASURE, MNOMEAS
37 STORE ' ' TO MRIGHT, MCODE
38 MQUIT = 'N'
39
40
41 DAY = 'SUN'
42 DO WHILE DAY = 'SUN' .AND. MQUIT <> 'Y'
43   DO MOM1
44   DO ASKOK
45 ENDDO
46
47 IF MMOMRESP <> 1 .and. mquit <> 'Y'
48   CLEAR
49   @ 8,10 SAY 'MOTHER NOT RESPONDENT, SO VARIABLES WILL NOW BE'
50   @ 10,22 SAY "STORED TO A RECORD FILE"
51   @ 7,5 to 11,75 double
52   @ 13,6 to 13,74
53   SELECT 1
54   USE MOMNOT
55   APPEND BLANK
56   REPLACE SITE WITH MSITE, MH WITH MHH, MOMNAME WITH MMOMNAME, ENUM WITH MENUM, MOMEM WITH MAGEMOM, MOMRESP WITH MMOMRE
57 SP
58   REPLACE LIT WITH MLIT, LITCLASS WITH MLITCLASS, NOKIDS WITH MNOKIDS
59   CLOSE DATABASES
60   @ 15,10 SAY " DATA RECORD HAS BEEN ENTERED INTO DATA BASE ..... "
61   WAIT
62   MQUIT = 'Y'
63 ENDIF
```

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```
64
65
66 DAY = 'SUN'
67 DO WHILE DAY = 'SUN' .AND. MQUIT <> 'Y'
68   DO MOM2
69   DO ASKOK
70 ENDDO
71
72 DAY = 'SUN'
73 DO WHILE DAY = 'SUN' .AND. MQUIT <> 'Y'
74   DO MOM3
75   DO ASKOK
76 ENDDO
77
78 DAY = 'SUN'
79 DO WHILE DAY = 'SUN' .AND. MQUIT <> 'Y'
80   DO APENMOM
81   DAY = 'RAIN'
82 ENDDO
83
84 CLOSE ALL
85 SET PROC TO
86 SET PROC TO MAINMENU
.
88
89 *|*****
90 *|
91 *|   Procedure: MOM1
92 *|
93 *|   Called by: MOM.PRG
94 *|
95 *|   Calls: CLEAN3           (procedure in MOM.PRG)
96 *|
97 *|*****
98 PROCEDURE MOM1
99
100 IF MOLDMOM <> ' '
101   DO CLEAN3
102   @ 13,10 SAY '1. Name of Mother '
103   @ 13,40 SAY MOLDMOM PICT '!!!!!!!!!!!!!!!!!!!!!!'
104   MRIGHT = ' '
105   DO WHILE .NOT. MRIGHT $ 'YN'
106     @ 15,10 say 'Is this the correct name (Y/N)...' get mright pict '!'
107     READ
108   ENDDO
109 ENDIF
110 IF MRIGHT = 'N' .OR. MOLDMOM = ' '
111   MCODE = ' '
112   DO WHILE .NOT. MCODE $ '1234'
113     DO CLEAN3
114     @ 17,10 say 'You should enter a code now for this mother' get mcode pict '9'
115     @ 18,14 say "Enter '1' - New mother - not enumerated last year"
116     @ 19,20 say "'2' - Mother in HH last year - miscoded"
117     @ 16,8 TO 20,72
118     READ
119   ENDDO
120   DO CLEAN3
121   @ 13,10 say 'Now enter the correct name as it appears on form'
122   @ 14,10 SAY 'Name of mother ' get mmomname pict '!!!!!!!!!!!!!!!!!!!!!!'
123   READ
124 ELSE   && OLD NAME IS CORRECT
125   MMOMNAME = MOLDMOM
126   MCODE = '0'
127 ENDIF
```

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```
128 @ 9,10 SAY '1. Name of Mother'  
129 @ 9,40 SAY MMOMNAME PICT '!!!!!!!!!!!!!!!!!!!!'  
130 DO CLEAN3  
131 @ 11,10 SAY '2. Was mother enumerated last year ?'  
132 @ 13,10 say '3. Age of mother (in years) ?'  
133 @ 15,10 say '4. Is mother listed above the respondent ?'  
134 @ 16,15 say '4a. If NO, why is she not respondent ?'  
135 @ 18,10 say '5. Is mother literate ?'  
136 @ 19,15 say '5a. If NO, is she attending classes ?'  
137  
138 @ 11,60 GET MENUM PICT '9' RANGE 1,2  
139 @ 13,60 GET MAGEMOM PICT '99' RANGE 10,80  
140 @ 15,60 GET MMOMRESP PICT '9' RANGE 1,2  
141 READ  
142 IF MMOMRESP = 2  
143   @ 17,08 say 'Please make sure that Mother is recorded as not respondent'  
144   @ 16,65 GET MNORESP PICT '9' RANGE 1,4  
145   READ  
146 ELSE  
147   MNORESP = 8  
148 ENDIF  
149 @ 18,60 GET MLIT PICT '9' RANGE 1,2  
150 READ  
151 IF MLIT = 2  
152   @ 19,65 GET MLITCLASS PICT '9' RANGE 1,2  
153   READ  
154 ELSE  
155   MLITCLASS= 8  
156 ENDIF  
157  
158  
159  
160  
161  
162 *|*****  
163 *|  
164 *|      Procedure: MOM2  
165 *|  
166 *|      Called by: MOM.PRG  
167 *|  
168 *|*****  
169 PROCEDURE MOM2  
170 CLEAR  
171 @ 0,1 to 24,79 double  
172 @ 2,10 say '6. List number of kids this mother has ?'  
173 @ 4,10 SAY '7. Have you heard of Vitamin A'  
174 @ 5,15 say '7a. If YES, is Vitamin A important for kids health '  
175 @ 6,15 say '7b.      , is Vitamin A available from usual foods'  
176 @ 7,20 say '7b(i). If YES, which foods provide Vitamin A'  
177 @ 9,22 say '1. DGLV'  
178 @ 10,22 say '2. Rice'  
179 @ 11,22 say '3. Fruits'  
180 @ 9,45 say '4. Egg'  
181 @ 10,45 say '5. Meat'  
182 @ 11,45 say '6. Potato'  
183 @ 13,20 say '7b(ii).If YES, do you feed your kids any of these'  
184 @ 15,20 say '7b(iii).      , what is cheapest and best source '  
185  
186 @ 2,60 GET MNOKIDS PICT '99' RANGE 0,15  
187 @ 4,60 GET MHEARD PICT '9' RANGE 1,2  
188 READ  
189 IF MHEARD = 1  
190   @ 5,69 GET MIMPORT PICT '9' RANGE 1,2  
191   @ 6,69 GET MFOODS PICT '9' RANGE 1,2
```

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```
192 READ
193 IF MFOODS = 1
194   @ 9,35 GET MDGLV PICT '9' RANGE 1,2
195   @ 10,35 GET MRICE PICT '9' RANGE 1,2
196   @ 11,35 GET MFRUITS PICT '9' RANGE 1,2
197   @ 9,60 GET MEGG PICT '9' RANGE 1,2
198   @ 10,60 GET MMEAT PICT '9' RANGE 1,2
199   @ 11,60 GET MPOTATO PICT '9' RANGE 1,2
200   @ 13,73 GET MFEED PICT '9' RANGE 1,2
201   @ 15,73 GET MSOURCE PICT '9' RANGE 1,6
202 READ
203 ELSE
204   STORE B TO MDGLV, MRICE, MFRUITS, MEGG, MMEAT, MPOTATO, MFEED, MSOURCE
205 ENDIF
206 ELSE
207   STORE B TO MIMPORT, MFOODS
208   STORE B TO MDGLV, MRICE, MFRUITS, MEGG, MMEAT, MPOTATO, MFEED, MSOURCE
209 ENDIF
210
211
212
213
214 *|*****
   *|
216 *| Procedure: MOM3
217 *|
218 *| Called by: MON.PRG
219 *|
220 *|*****
221 PROCEDURE MOM3
222
223 CLEAR
224 @ 0,1 to 24,79 double
225 @ 2,10 say '8. Do all your children eat DGLV ?'
226 @ 3,15 say '8a. If NO, why not '
227 @ 4,18 say '8a(i) Specify '
228 @ 6,10 say '9. Are DGLV available in wild ?'
229 @ 7,15 say '9a. If YES, do you gather from wild ?'
230 @ 8,15 say '9b. , Do kids eat DGLV from wild ?'
231 @ 9,10 say '10. Do you breast feed child now ?'
232 @ 10,15 say '10a. If YES, Do you eat more, less or normal ?'
233 @ 11,15 say '10b. , feed your child anything else ?'
234 @ 12,15 say '10c. , feed child when she has diarrhea ?'
235 @ 14,10 SAY '11. Do you feed colostrum to newborn ?'
236 @ 15,15 say '11a. If NO, why not ?'
237 @ 16,18 say '11a(i). Specify '
238 @ 18,10 say '12. Do you eat more, less or normal when pregnant ?'
239 @ 19,10 say '13. Do you think child should gain weight each month ?'
   @ 20,15 say '13a. If YES, do you take her for weighing ?'
   @ 21,20 say '13a(i). If NO, why not ?'
242 @ 22,22 SAY '13a(ii) Specify'
243
244 @ 2,60 GET MEATDGLV PICT '9' RANGE 1,2
245 READ
246 IF MEATDGLV = 2
247   @ 3,69 GET MNOOGLV PICT '9' RANGE 1,4
248   READ
249   IF MNOOGLV = 4
250     @ 4,52 GET MNOOGLVSP PICT '!!!!!!!!!!!!!!!!!!!!!!'
251     READ
252   ENDIF
253 ELSE
254   MNOOGLV = 8
255 ENDIF
```

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```
256 @ 6,60 GET MWILD PICT '9' RANGE 1,2
257 READ
258 IF MWILD = 1
259   @ 7,69 GET MGATHER PICT '9' RANGE 1,2
260   @ 8,69 GET MEATWILD PICT '9' RANGE 1,2
261   READ
262 ELSE
263   STORE 8 TO MGATHER, MEATWILD
264 ENDIF
265 @ 9,60 GET MBREAST PICT '9' RANGE 1,2
266 READ
267 IF MBREAST = 1
268   @ 10,69 GET MEATAMT PICT '9' RANGE 1,3
269   @ 11,69 GET MEATELSE PICT '9' RANGE 1,2
270   @ 12,69 GET MFEEDDIA PICT '9' RANGE 1,2
271   READ
272 ELSE
273   STORE 8 TO MEATAMT, MEATELSE, MFEEDDIA
274 ENDIF
275 @ 14,65 GET MCOLOS PICT '9' RANGE 1,2
276 READ
277 IF MCOLOS = 2
278   @ 15,69 GET MCOLOSNO PICT '9' RANGE 1,3
279   READ
280   IF MCOLOSNO = 3
281     @ 16,52 GET MCOLNOSP PICT '!!!!!!!!!!!!!!!!!!!!!!'
282     READ
283   ENDIF
284 ELSE
285   MCOLOSNO = 8
286 ENDIF
287 @ 18,65 GET MEATPREG PICT '9' RANGE 1,3
288 @ 19,65 GET MWEIGHT PICT '9' RANGE 1,2
289 READ
290 IF MWEIGHT = 1
291   @ 20,69 GET MMEASURE PICT '9' RANGE 1,2
292   READ
293   IF MMEASURE = 2
294     @ 21,69 GET MNOMEAS PICT '9' RANGE 1,5
295     READ
296     IF MNOMEAS = 5
297       @ 22,52 GET MNOMEASSP PICT '!!!!!!!!!!!!!!!!!!!!!!'
298       READ
299     ENDIF
300   ELSE
301     STORE 8 TO MNOMEAS
302   ENDIF
303 ELSE
304   STORE 8 TO MMEASURE, MNOMEAS
305 ENDIF
306
307
308
309 *|*****
310 *|
311 *| Procedure: APENMON
312 *|
313 *| Called by: MON.PRG
314 *|
315 *| Uses: MON.DBF
316 *| : MONSP.DBF
317 *|
318 *|*****
319 PROCEDURE APENMON
```

```
320
321 CLEAR
322 @ 10,10 SAY "ADDING DATA TO A RECORD FILE"
323 SELECT 1
324 USE MOM
325 APPEND BLANK
326 REPLACE SITE WITH MSITE, NH WITH MHH, MOMNO WITH MMOMNO, MOMNAME WITH MMOMNAME, ENUM WITH MENUM, AGENOM WITH MAGENOM, MOM
326 RESP WITH MMOMRESP
327 REPLACE LIT WITH MLIT, LITCLASS WITH MLITCLASS, MOKIDS WITH MMOKIDS, HEARD WITH MHEARD, IMPORT WITH MIMPORT, FOODS WITH M
327 FOODS, DGLV WITH MDGLV, RICE WITH MRICE, FRUITS WITH MFRUITS, EGG WITH MEGG, LINK WITH MLINK
328 REPLACE MEAT WITH MMEAT, POTATO WITH MPOTATO, FEED WITH MFEED, SOURCE WITH MSOURCE, EATDGLV WITH MEATDGLV, NODGLV WITH MN
328 ODGLV, WILD WITH MWILD, GATHER WITH MGATHER, EATWILD WITH MEATWILD, EATAMT WITH MEATAMT
329 REPLACE BREAST WITH MBREAST, EATELSE WITH MEATELSE, FEEDDIA WITH MFEEDDIA, COLOS WITH MCOLOS, COLOSNO WITH MCOLOSNO, EATPR
329 EG WITH MEATPREG, WEIGHT WITH MWEIGHT, MEASURE WITH MMEASURE, NOMEAS WITH MNOMEAS, CODE WITH MCODE
330 IF MNODGLVSP <> ' ' .OR. MCOLNOSP <> ' ' .OR. MNOMEASSP <> ' '
331 SELECT 2
332 USE MOMSP
333 APPEND BLANK
334 REPLACE SITE WITH MSITE, NH WITH MHH, MOMNO WITH MMOMNO, NODGLVSP WITH MNODGLVSP, COLNOSP WITH MCOLNOSP, NOMEASSP WITH
334 MNOMEASSP
335 ENDIF
336 CLOSE DATABASES
337 CLEAR
338 @ 10,10 SAY " DATA RECORD HAS BEEN ENTERED INTO DATA BASE ..... "
339 WAIT
340
341
342 *|*****
343 *|
344 *| Procedure: CLEAN3
345 *|
346 *| Called by: MOM1 (procedure in MOM.PRG)
347 *|
348 *|*****
349 PROCEDURE CLEAN3
350
351 @ 11,0 SAY MSPACE
352 @ 12,0 SAY MSPACE
353 @ 13,0 SAY MSPACE
354 @ 14,0 SAY MSPACE
355 @ 15,0 SAY MSPACE
356 @ 16,0 SAY MSPACE
357 @ 17,0 SAY MSPACE
358 @ 18,0 SAY MSPACE
359 @ 19,0 SAY MSPACE
360 @ 20,0 SAY MSPACE
361 @ 21,0 SAY MSPACE
362 @ 22,0 SAY MSPACE
362 @ 0,1 TO 24,79 DOUBLE
364 *: EOF: MOM.PRG
```

```
1 *:*****
2 *:
3 *:      Program: MORBID.PRG
4 *:
5 *:      System: Vitamin A Intervention - Second Survey
6 *:      Author: J.G., B.T., S.P
7 *:      Copyright (c) 1990, VACSP
8 *:      Last modified: 04/04/90    21:08
9 *:
10 *: Proc & Fncts: MORBID1
11 *:                : MORBID2
12 *:                : APENMORB
13 *:
14 *:      Called by: KIDMENU.PRG
15 *:
16 *:      Calls: MORBID1      (procedure in MORBID.PRG)
17 *:             : ASKOK.PRG
18 *:             : MORBID2      (procedure in MORBID.PRG)
19 *:             : APENMORB      (procedure in MORBID.PRG)
20 *:
21 *:      Documented: 04/09/90 at 09:33      FoxDoc version 1.0
22 *:*****
23 SET PROCEDURE TO MORBID
24
25 STORE 9 TO MARI, MCOUGH, MCOUGHNOW, MBREATH, MINDRAW, MLONGCOF, MWHEEZ, ;
26 MLGFEVER, MSWEAT, MAPP, MASTHMA, MMEASLE, MDIA, MSUNKEN, MDRYSKIN, ;
27 MLOOSE, MTONGUE
28 STORE 99 TO MDIADUR, MDIAFREQ
29 MQUIT = 'N'
30
31 DAY = 'SUN'
32 DO WHILE DAY = 'SUN' .AND. MQUIT <> 'Y'
33   DO MORBID1
34   DO ASKOK
35 ENDDO
36
37 DAY = 'SUN'
38 DO WHILE DAY = 'SUN' .AND. MQUIT <> 'Y'
39   DO MORBID2
40   DO ASKOK
41 ENDDO
42
43 DAY = 'SUN'
44 DO WHILE DAY = 'SUN' .AND. MQUIT <> 'Y'
45   DO APENMORB
46   CLOSE ALL
47   MQUIT = 'Y'
48 ENDDO
49
50 SET PROC TO
51 SET PROC TO MAINMENU
52 RETURN
53
54
55
56 *|*****
57 *|
58 *|      Procedure: MORBID1
59 *|
60 *|      Called by: MORBID.PRG
61 *|
62 *|*****
63 PROCEDURE MORBID1
64
```

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```
65 @ 8, 10 say '2. Does child have fever ?'  
66 @ 10,10 say '3. Has child been coughing ?'  
67 @ 11,15 say '3a. If YES, does child have cough now ?'  
68 @ 13,10 say '4. Childs breathing rate ?'  
69 @ 15,10 say '5. Child have indrawing of chest ?'  
70 @ 16,10 say '6. Child have cough more than two weeks ?'  
71 @ 17,10 say '7. Is there wheezing ?'  
72 @ 18,10 say '8. Is there low grade fever ?'  
73 @ 19,10 say '9. Child have night sweats ?'  
74 @ 20,10 say '10. Child have loss of appetite ?'  
75 @ 21,10 say '11. History of asthma ?'  
76 @ 22,10 say '12. Child have measles ?'  
77  
78 @ 8,60 get mari pict '9' range 1,2  
79 @ 10,60 get mcough pict '9' range 1,2  
80 read  
81 if mcough = 1  
82   @ 11,68 get mcoughnow pict '9' range 1,2  
83   read  
84 else  
85   mcoughnow = 8  
86 endif  
87 @ 13,60 get mbreath pict '9' range 1,4  
88 @ 15,60 get mindraw pict '9' range 1,2  
89 @ 16,60 get mlongcof pict '9' range 1,2  
90 @ 17,60 get mwheez pict '9' range 1,2  
91 @ 18,60 get mlgfever pict '9' range 1,2  
92 @ 19,60 get msweat pict '9' range 1,2  
93 @ 20,60 get mapp pict '9' range 1,2  
94 @ 21,60 get masthma pict '9' range 1,2  
95 @ 22,60 get mmeasle pict '9' range 1,2  
96 read  
97  
98  
99  
100 *|*****  
101 *|  
102 *| Procedure: MORBID2  
103 *|  
104 *| Called by: MORBID.PRG  
105 *|  
106 *|*****  
107 PROCEDURE MORBID2  
108  
109  
110 clear  
111 @ 0,1 to 24,79 double  
112 @ 2, 5 SAY '13. Is the child having an episode of diarrhea ?"  
113 @ 4, 20 SAY '13a. If YES, how long has it lasted ?'  
114 @ 6, 20 say '13b. frequency of stools ?"  
115 @ 8, 20 say '13c. sunken eyeballs ?"  
116 @ 10,20 say '13d. dry skin ?'  
117 @ 12,20 SAY '13e. loose skin ?'  
118 @ 14,20 say '13f. dry tongue ?"  
119 @ 2,55 get mdia pict '9' range 1,2  
120 read  
121 if mdia = 1  
122 @ 4,60 get mdiaedur pict '99' range 1,60  
123 @ 6,60 get mdiafreq pict '99' range 1,20  
124 @ 8,60 get msunken pict '9' range 1,2  
125 @ 10,60 get mdryskin pict '9' range 1,2  
126 @ 12,60 get mloose pict '9' range 1,2  
127 @ 14,60 get mtongue pict '9' range 1,2  
128 read
```

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```
129 else
130     store 8 to msunken, mdryskin, mloose, mtongue
131     store 88 to mdiadur, mdiafreq
132 endif
133
134
135
136 *|*****
137 *|
138 *|     Procedure: APENMORB
139 *|
140 *|     Called by: MORBID.PRG
141 *|
142 *|     Uses: MORBID.DBF
143 *|
144 *|*****
145 PROCEDURE APENMORB
146
147 CLOSE ALL
148 use morbid
149 append blank
150 replace site with msite, hh with mhh, momno with mmomno, kidno with mkidno, ari with mari, cough with mcough
151 replace coughnow with mcoughnow, breath with mbreath, indraw with mindraw, longcof with mlongcof, wheez with mwheez
152 ! replace lgfever with mlgfever, sweat with msweat, app with mapp, asthma with masthma, measles with measles
153 replace dia with mdia, diadur with mdiadur, diafreq with mdiafreq, sunken with msunken, dryskin with mdryskin
154 replace loose with mloose, tongue with mtongue
155 clear
156 @ 10,10 say "Data Record has been entered "
157 wait
158 close data
159 return
160
161
162 *: EOF: MORBID.PRG
```

122

```
1 *:*****
2 *:
3 *:   Program: MORTAL.PRG
4 *:
5 *:   System: Vitamin A Intervention - Second Survey
6 *:   Author: J.G., B.T., S.P
7 *:   Copyright (c) 1990, VACSP
8 *:   Last modified: 04/03/90   22:44
9 *:
10 *:   Called by: NH.PRG
11 *:
12 *:   Calls: ASKOK.PRG
13 *:
14 *:   Uses: MORTAL.DBF
15 *:         : MORTALSP.DBF
16 *:
17 *:   Documented: 04/09/90 at 09:32           FoxDoc version 1.0
18 *:*****
19 store 9 to mickdur, msevdi, mfever, mdi, mbreath, mcough, mmeasle, mblack,;
20 mright, mtetanus, mother, mtreat, mchm, mlocal, mhp, mdoctor, mhosp, mdhami
21 store 9 to mothreat, mhome, mhospital, mdehy, mpneu, mgi, mnea, mtet, menc, ;
22 mothdiag, mcause, mcause1
23 store 99 to mrelation, myrsdied, mthdied, mtreat1, mtreat2, mtreat3
24 store date() to mdatedied
25 store space(20) to mkidname, mreisp, msympsp, mtreatsp, mdiagsp
26
27 mquit = 'N'
28
29 CLEAR
30 mright = ' '
31 do while .not. mright $ 'YN'
32   @ 10,16 SAY 'According to the data entered for HH number ' + ltrim(str(mhh))
33   @ 11,21 say 'there were ' + ltrim(str(mdeaths)) + ' deaths last year'
34   @ 13,14 say 'Is this information correct - count the forms (Y/N) ?' get mright pict '!'
35   @ 9,8 to 14,72 double
36   read
37 enddo
38 if mright = 'N'
39   clear
40   @ 10,15 say 'Please enter the actual number of deaths which occurred'
41   @ 11,13 say 'in the household last year, and prepare to enter the data'
42   @ 12,60 get mdeaths pict '9'
43   @ 9,8 to 14,72 double
44   read
45 endif
46 n = 1
47 do while n <= mdeaths .and. mquit <> 'Y'
48   day = 'SUN'
49   do while day = 'SUN' .and. mquit <> 'Y'
50     clear
51     @ 1,1 to 24,79 double
52     @ 2,10 say 'Site number      ' + ltrim(str(msite))
53     @ 2,50 say 'Death number    ' + ltrim(str(n))
54     @ 3,10 say 'Household number ' + ltrim(str(mhh))
55     @ 4,10 say 'Mother number   '
56     @ 5,10 say 'Child I.D.     '
57     @ 6,2 to 6,78
58     mright = ' '
59     do while .not. mright $ 'YN'
60       @ 4,40 get mmomno pict '9'
61       @ 5,40 get mkidno pict '99'
62       read
63       @ 8,10 say 'Is this information correct ? ' get mright pict '!'
64       read
```

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```
65 IF SUBSTR(STR(MMOMNO,10,0),10,1) <> SUBSTR(STR(MKIDNO,10,0),9,1)
66 @ 10,10 SAY 'Mother I.D. must be same as first digit of Child I.D.'
67 wait
68 mright = ' '
69 @ 10,3 say mspace
70 @ 11,0 say mspace
71 @ 1,1 to 24,79 double
72 loop
73 ENDIF
74 if mright = 'M'
75 mright = ' '
76 loop
77 else
78 @ 8,5 say mspace
79 endif
80 enddo
81 @ 7 ,10 say '2. Relation of respondent ? '
82 @ 8 ,15 say '2 (10). Specify'
83 @ 9 ,10 say '3. Name of child who died ?'
84 @ 10,20 say '6. Age at death (Yrs) (Month)'
85 @ 12,20 say '7. Date of death '
86 @ 14,10 say '8. How long was child sick before death ?'
87 @ 15,10 say '9. Did child have any of the following conditions ?'
88 @ 16,15 say '1. Severe diarrhea'
89 @ 17,15 say '2. High fever'
90 @ 18,15 say '3. Diarrhea/vomiting'
91 @ 19,15 say '4. Difficulty breathing'
92 @ 20,15 say '5. Severe cough'
93 @ 16,45 say '6. Measles '
94 @ 17,45 say '7. Black eye '
95 @ 18,45 say '8. Night blindness'
96 @ 19,45 say '9. Tetanus signs '
97 @ 20,45 say '10. Other '
98 @ 21,32 say '10(i). Specify'
99
100 @ 7 ,50 get mrelation pict '99' range 1,10
101 read
102 if mrelation = 10
103 @ 8 ,52 get mreisp pict '!!!!!!!!!!!!!!!!!!!!'
104 read
105 endif
106 @ 9 ,50 get mkidname pict '!!!!!!!!!!!!!!!!!!!!'
107 @ 10,43 get myradied pict '99' range 0,12
108 @ 10,60 get mmthdied pict '99' range 0,11
109 @ 12,50 get mdatedied pict ' / / '
110 @ 14,50 get msickdur pict '9' range 1,3
111 @ 16,40 get msevdia pict '9' range 1,2
112 @ 17,40 get mfever pict '9' range 1,2
113 @ 18,40 get mdia pict '9' range 1,2
114 @ 19,40 get mbreath pict '9' range 1,2
115 @ 20,40 get mcough pict '9' range 1,2
116 @ 16,65 get mmeasle pict '9' range 1,2
117 @ 17,65 get mblack pict '9' range 1,2
118 @ 18,65 get mnight pict '9' range 1,2
119 @ 19,65 get mtetanus pict '9' range 1,2
120 @ 20,65 get mother pict '9' range 1,2
121 read
122 if mother = 1
123 @ 21,52 get maympsp pict '!!!!!!!!!!!!!!!!!!!!'
124 read
125 endif
126 do askok
127 enddo
128
```

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```
129
130 day = 'SUN'
131 do while day = 'SUN' .and. quit <> 'Y'
132   clear
133   @ 1,1 to 24,79 double
134   @ 2,10 say '10. Was treatment sought?'
135   @ 3,10 say '10a. If YES, which illness?'
136   @ 4,15 say '10b. , who provided treatment?'
137   @ 5,18 say '1. CHW'
138   @ 6,18 say '2. Local pract.'
139   @ 7,18 say '3. Health Post'
140   @ 8,18 say '4. Private doctor'
141   @ 5,50 say '5. Hospital'
142   @ 6,50 say '6. Dharni Jharkri'
143   @ 7,50 say '7. Other'
144   @ 8,42 say '7(i). Specify'
145   @ 9,15 say '10c. If YES, where was treatment provided?'
146   @ 10,20 say '1. Home'
147   @ 11,20 say '2. Hospital'
148   @ 12,10 say '11. Was a diagnosis given of the following?'
149   @ 13,15 say '1. Diarrhea/dehydration'
150   @ 14,15 say '2. Pneumonia'
151   @ 15,15 say '3. GI (Cholera)'
152   @ 16,15 say '4. Measles'
153   @ 17,15 say '5. Tetanus'
154   @ 18,15 say '6. Encephalitis'
155   @ 19,15 say '7. Other'
156   @ 20,40 say '7(i). Specify'
157   @ 21,10 say '12. Cause of death?'
158   @ 22,15 say '12a. If ascertained, what?'
159   @ 2,50 get mtreat pict '9' range 1,2
160   read
161   if mtreat = 1
162     @ 3,40 get mtreat1 pict '99' range 1,10
163     @ 3,50 get mtreat2 pict '99' range 1,10
164     @ 3,60 get mtreat3 pict '99' range 1,10
165     read
166     @ 5,38 get mchm pict '9' range 1,2
167     @ 6,38 get mlocal pict '9' range 1,2
168     @ 7,38 get mhsp pict '9' range 1,2
169     @ 8,38 get mdoctor pict '9' range 1,2
170     @ 5,68 get mhosp pict '9' range 1,2
171     @ 6,68 get mdharni pict '9' range 1,2
172     @ 7,68 get mothreat pict '9' range 1,2
173     read
174     if mothreat = 1
175       @ 8,58 get mtreatsp pict '!!!!!!!!!!!!!!!!!!!!!!'
176       read
177     endif
178     @ 10,50 get mhome pict '9' range 1,2
179     @ 11,50 get mhospital pict '9' range 1,2
180     read
181   endif
182   @ 13,50 get mdehy pict '9' range 1,2
183   @ 14,50 get mpneu pict '9' range 1,2
184   @ 15,50 get mgi pict '9' range 1,2
185   @ 16,50 get mmea pict '9' range 1,2
186   @ 17,50 get mtet pict '9' range 1,2
187   @ 18,50 get menc pict '9' range 1,2
188   @ 19,50 get mothdiag pict '9' range 1,2
189   read
190   if mothdiag = 1
191     @ 20,55 get mdiagsp pict '!!!!!!!!!!!!!!!!!!!!!!'
192     read
```

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```
193     endif
194     @ 21,50 get mcause pict '9' range 1,2
195     read
196     if mcause = 1
197         @ 22,55 get mcause1 pict '9' range 1,7
198         read
199     endif
200     do askok
201     enddo
202     n = n+1
203     select 1
204     use mortal
205     appen blank
206     replace site with msite, hh with mhh, momno with mmomno, kidno with mkidno, relation with mrelation, yrsdied with myrs
206 died, mthdied with mmthdied
207     replace datedied with mdatedied, sickdur with msickdur, fever with mfever, dia with mdia, breath with mbreath, cough w
207 ith mcough, measles with mmeasle
208     replace black with mblack, night with mnight, tetanus with mtetanus, other with mother, treat with mtreat, treat1 with
208 mtreat1, treat2 with mtreat2
209     replace treat3 with mtreat3, chm with mchm, local with mlocal, hp with mhp, doctor with mdoctor, hosp with mhosp, dham
209 i with mdhami, othtreat with mothtreat
210     replace home with mhome, hospital with mhospital, dehy with mdehy, pneu with mpneu, gi with mgi, mea with mmea, tet wi
210 th mtet, enc with menc
211     replace othdiag with mothdiag, cause with mcause, cause1 with mcause1
212     if mdiagsp <> ' ' .or. mtreatsp <> ' ' .or. mreisp <> ' ' .or. msympsp <> ' '
213         select 2
214         use mortalsp
215         appen blank
216         replace site with msite, hh with mhh, momno with mmomno, kidno with mkidno, diagsp with mdiagsp, treatsp with mtreat
216 sp, sympsp with msympsp, relsp with mreisp
217     endif
218     close data
219     store 9 to msickdur, msevdia, mfever, mdia, mbreath, mcough, mmeasle, mblack,;
220     mnight, mtetanus, mother, mtreat, mchm, mlocal, mhp, mdoctor, mhosp, mdhami
221     store 9 to mothtreat, mhome, mhospital, mdehy, mpneu, mgi, mmea, mtet, menc, ;
222     mothdiag, mcause, mcause1
223     store 99 to mrelation, myrsdied, mmthdied, mtreat1, mtreat2, mtreat3
224     store date() to mdatedied
225     store space(20) to mkidname, mreisp, msympsp, mtreatsp, mdiagsp
226     enddo
227     return
228
229 * : EOF: MORTAL.PRG
```

```
1 *:*****
2 *:
3 *:      Program: SHIT.PRG
4 *:
5 *:      System: Vitamin A Intervention - Second Survey
6 *:      Author: J.G., B.T., S.P
7 *:      Copyright (c) 1990, VACSP
8 *:      Last modified: 04/04/90    21:22
9 *:
10 *: Proc & Fnct: SHIT1
11 *:      : APENSHIT
12 *:
13 *:      Called by: KIDMENU.PRG
14 *:
15 *:      Calls: SHIT1      (procedure in SHIT.PRG)
16 *:      : ASKOK.PRG
17 *:      : APENSHIT      (procedure in SHIT.PRG)
18 *:
19 *:      Documented: 04/09/90 at 09:33      FoxDoc version 1.0
20 *:*****
21 SET PROCEDURE TO SHIT
22
23 STORE 9 TO MDESIG, MLAB
24 STORE 999 TO MASCAR, MANCYL
25 STORE 99.99 TO MVITA
26 STORE 9999 TO MTUBE
27 STORE SPACE(20) TO MKIDNAME
28 STORE DATE() TO MDATEBL, MDATEH
29 MQUIT = 'N'
30
31
32 DAY = 'SUN'
33 DO WHILE DAY = 'SUN' .AND. MQUIT <> 'Y'
34   DO SHIT1
35   DO ASKOK
36 ENDDO
37
38 DAY = 'SUN'
39 DO WHILE DAY = 'SUN' .AND. MQUIT <> 'Y'
40   DO APENSHIT
41   CLOSE ALL
42   MQUIT = 'Y'
43 ENDDO
44
45 SET PROC TO
46 SET PROC TO MAINMENU
47 RETURN
48
49 *:*****
50 *:
51 *:      Procedure: SHIT1
52 *:
53 *:      Called by: SHIT.PRG
54 *:
55 *:
56 *:*****
57 PROCEDURE SHIT1
58
59
60 @ 8,15 SAY '1. Kid name '
61 @ 8,55 GET MKIDNAME PICT '!!!!!!!!!!!!!!!!!!!!!!'
62 @ 10,15 say '2. Designation of child'
63 @ 10,60 GET MDESIG PICT '9' RANGE 1,3
64 @ 12,15 say '3. Ascarislumbrecoides Count'
```

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```
65 @ 12,60 GET MASCAR PICT '999'  
66 @ 14,15 say '4. Ancylostoma Duodenale Count'  
67 @ 14,60 GET MANCYL PICT '999'  
68 @ 16,15 say '5.Serum Test Tube Number'  
69 @ 16,60 GET MTUBE PICT '9999'  
70 @ 18,15 say '6. Serum Vitamin A '  
71 @ 18,60 GET MVITA PICT '99.99'  
72 @ 20,55 say 'Lab No.'  
73 @ 20,65 GET MLAB PICT '9'  
74 @ 20,10 say 'Date of Blood Collection'  
75 @ 20,40 GET MDATEBL PICT ' / / '  
76 @ 21,10 say 'Date of Stool Collection'  
77 @ 21,40 GET MDATESH PICT ' / / '  
78 READ  
79  
80  
81 *|*****  
82 *|  
83 *| Procedure: APENSHIT  
84 *|  
85 *| Called by: SHIT.PRG  
86 *|  
87 *| Uses: SHIT.DBF  
88 *|  
89 *|*****  
90 PROCEDURE APENSHIT  
91  
92  
93 CLOSE ALL  
94 USE SHIT  
95 APPEND BLANK  
96 REPLACE SITE WITH MSITE, HH WITH MHH, MOMno WITH MMOMno, KIDno WITH MKIDno, kidname with mkidname, desig with mdesig, asc  
96 ar with mascar  
97 REPLACE ANCYL WITH MANCYL, TUBE WITH MTUBE, VITA WITH MVITA, DATEBL WITH MDATEBL, DATESH WITH MDATESH, LAB WITH MLAB  
98 CLEAR  
99 @ 10,10 SAY "DATA RECORD HAS BEEN ENTERED "  
100 WAIT  
101 CLOSE DATA  
102 RETURN  
103  
104 *: EOF: SHIT.PRG
```

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```
1 *.:*****
2 *:
3 *:      Program: SITE.PRG
4 *:
5 *:      System: Vitamin A Intervention - Second Survey
6 *:      Author: J.G., B.T., S.P
7 *:      Copyright (c) 1990, VACSP
8 *:      Last modified: 03/22/90    19:56
9 *:
10 *:      Called by: MAINMENU.PRG
11 *:
12 *:      Calls: MENU.PRG
13 *:             : SITESET.PRG
14 *:
15 *:      Documented: 04/09/90 at 09:31          FoxDoc version 1.0
16 *.:*****
17 MSITE = 999
18 DO WHILE MSITE = 999
19   @ 10,10 say 'Site number for which data will be entered ' get msite pict '999'
20   @ 9,5 TO 11,75 DOUBLE
21   READ
22   DO CASE
23     CASE (MSITE > 100 .AND. MSITE <> 888) .OR. MSITE = 0
24       @ 13,10 say 'You must enter a site number to continue, or enter'
25       @ 14,11 say "the number '888' to quit and return to main menu"
26       @ 12,5 TO 15,75
27       MSITE = 999
28       LOOP
29     CASE MSITE = 888
30       AN1 = 'Y'
31       EXIT
32     OTHERWISE
33       CLEAR
34       @ 5,45 SAY 'Site number ..... ' + ltrim(str(msite))
35       STORE ' ' TO NEW
36       DO WHILE .NOT. NEW $ 'YNO'
37         NEW = 'N'
38         @ 10,10 SAY 'Is this the first time you are entering data for'
39         @ 11,20 SAY 'this site (Y/N) or (Q)uit ==>' get new pict '!'
40         @ 9,5 TO 12,75 DOUBLE
41         READ
42       ENDDO
43     ENDCASE
44   DO CASE
45     CASE NEW = 'N'
46       DO MENU
47     CASE NEW = 'Y'
48       DO SITESET
49       DO MENU
50     CASE NEW = 'Q'
51       RETURN
52   ENDCASE
53 ENDDO
54 *.: EOF: SITE.PRG
```

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```
1 *:*****
2 *:
3 *:      Program: SITASET.PRG
4 *:
5 *:      System: Vitamin A Intervention - Second Survey
6 *:      Author: J.G., B.T., S.P
7 *:      Copyright (c) 1990, VACSP
8 *:      Last modified: 03/22/90      19:56
9 *:
10 *:      Called by: SITE.PRG
11 *:
12 *:      Calls: ZAP.PRG
13 *:
14 *:      Uses: OLDHH.DBF
15 *:            : A:HH.DBF
16 *:            : OLDMM.DBF
17 *:            : A:MM.DBF
18 *:            : OLDKID.DBF
19 *:            : A:KID.DBF
20 *:            : OLDCLIN.DBF
21 *:            : A:CLINIC.DBF
22 *:
23 *:      Documented: 04/09/90 at 09:31      FoxDoc version 1.0
24 *:*****
25 SET SAFETY OFF
26 CLEAR
27 @ 5,45 SAY 'SITE NUMBER ... ' + LTRIM(STR(MSITE))
28 @ 4,40 TO 6,65 DOUBLE
29 @ 10,10 say 'Please insert the diskette containing the BASELINE data'
30 @ 11,15 say 'for site number ' + ltrim(str(msite)) + ' into the A: drive and make'
31 @ 12,19 say 'sure the flap to the drive is closed ..'
32 @ 9,5 TO 13,75
33 @ 14,1
34 WAIT
35
36 J = MSITE
37 DISK = J
38 DO WHILE DISK = J
39   DO CASE
40     CASE J < 10
41       MFILE = "A:DISK" + SUBSTR(STR(J,10,0),10,1)
42     CASE J = 10 .OR. J < 100
43       MFILE = "A:DISK" + SUBSTR(STR(J,10,0),9,2)
44     CASE J = 100
45       MFILE = "A:DISK100"
46   ENDCASE
47   IF FILE ("%MFILE")
48     CLEAR
49     @ 10,10 SAY ' SETTING UP THE SUBDIRECTORY FOR NEW SITE TO BE ENTERED'
50     @ 9,5 TO 11,75 DOUBLE
51     @ 12,20 SAY 'HOUSEHOLD'
52     USE OLDHH
53     ZAP
54     APPEN FROM A:HH
55     @ 14,4 SAY MSPACE
56     @ 12,20 SAY 'MOTHER FILE'
57     USE OLDMM
58     ZAP
59     APPEN FROM A:MM
60     @ 14,4 SAY MSPACE
61     @ 12,20 SAY 'CHILD FILES'
62     USE OLDKID
63     ZAP
64     APPEN FROM A:KID
```

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```
65      @ 14,4 SAY MSPACE
66      @ 12,20 SAY 'CLINIC FILES'
67      USE OLDCLIN
68      ZAP
69      APPEN FROM A:CLINIC
70      @ 14,4 SAY MSPACE
71      CLOSE DATA
72      @ 14,4 SAY 'ZAPPING ALL DATA FILES FOR SECOND SURVEY'
73      DO ZAP
74      WAIT
75  ELSE
76      QUITTY = " "
77      CLEAR
78      @ 10,35 SAY "DISK  $\bar{w}$  + SUBSTR(STR(J,10,0),8,3)
79      @ 18,10 SAY "THIS IS NOT THE CORRECT DISK, PLEASE INSERT THE CORRECT DISK"
80      @ 19,08 SAY "WAIT FOR THE LIGHT ON THE DISK DRIVE TO TURN OFF BEFORE REMOVING"
81      @ 20,20 SAY "OR TYPE 'Q' TO QUIT BACK TO THE DOS PROMPT" GET QUITTY PICT "I"
82      @ 9,30 TO 11,48 DOUBLE
83      @ 17,2 TO 21,78 DOUBLE
84      READ
85      IF QUITTY = "Q"
86          J=999
87          RETURN
88      ELSE
89          DISK=J
90          LOOP
91      ENDIF
92  ENDIF
93  J = 999
94  ENDDO
95  *: EOF: SITASET.PRG
```

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```
1 *:*****
2 *:
3 *:      Program: WARD.PRG
4 *:
5 *:      System: Vitamin A Intervention - Second Survey
6 *:      Author: J.G., B.T., S.P
7 *:      Copyright (c) 1990, VACSP
8 *:      Last modified: 04/04/90      23:01
9 *:
10 *: Proc & Fnct: WARD1
11 *:                : WARD2
12 *:                : WARD3
13 *:                : WARD4
14 *:                : WARD5
15 *:                : APENWARD
16 *:
17 *:      Called by: MENU.PRG
18 *:
19 *:      Calls: WARD1      (procedure in WARD.PRG)
20 *:                : ASKOK.PRG
21 *:                : WARD2      (procedure in WARD.PRG)
22 *:                : WARD3      (procedure in WARD.PRG)
23 *:                : WARD4      (procedure in WARD.PRG)
24 *:                : WARD5      (procedure in WARD.PRG)
25 *:                : APENWARD   (procedure in WARD.PRG)
26 *:
27 *:      Documented: 04/09/90 at 09:32      FoxDoc version 1.0
28 *:*****
29 SET PROCEDURE TO WARD
30 STORE SPACE (20) TO MNAME,MNOHELPSP,MGVEGSPEC, MOTHERSPEC
31 STORE 9 TO MPOSITION, MHP, MHPDIST, MVHW, MVHWFREQ, MCHMHELP,;
32 MCHM, MCHMPOP, MROAD, MRoadWALK, MPUBLIC, MPUBLICWALK, MPRSchool, ;
33 MPRSWALK, MELECTRIC, MWATER, MJNSP, MLATRINE, MWOMEN, MCREDIT, MLITERATE
34 STORE 9 TO MMARKET, MMARKETWA, MRICE, MBARLEY, MMILLET, MMUSTARD, MMAIZE, ;
35 MWHEAT, MPULSES, MSUGAR, MGLV, MPOTATO, MPAPAYA, MYELL, MMANGO, MORANGE, ;
36 MMEASLES, MGI, MDIA, MARI, MMALARIA, MMENTIN, MHELP, MNOHELP, MWARDMARK
37 STORE 999 TO MSHOPS
38 STORE 99 TO MHPLONG
39 STORE 9 TO MRICE1, MMAIZE1, MWHEAT1, MMILLET1, MRAYO1, MTOR11, MSPIN1,;
40 MONION11, MGVEG1, MMANGO1, MBANANA1, MPAPAYA1, MORANGE1, MAPPLE1, MPEACH1, ;
41 MNGUAVA1, MJACK1, MAPRICOT1, MWATMEL1, MLEMON1
42 STORE 9 TO MMILK1, MSKIM1, MBUTTER1, MGHEE1
43 STORE 9 TO MBGRAINS1, MSOYA1, MPULSE1, MCAUL11, MCABB1, MPUMP1, MCUKE1, ;
44 MTOM1, MPOTATO1, MRADISH1, MCarrot1, MYAM1, MONION1, MGHEAT, MBMEAT, MCHICK,;
45 MPIG, MFISH, MVOIL, MBISC, MSPICE, MBREAD, MOTHER1
46 STORE DATE() TO MSTARTEN, MENDEN, MSTARTCL, MENDCL
47
48 DAY = 'SUN'
49 DO WHILE DAY = 'SUN' .AND. MQUIT <> 'Y'
50 DO WARD1
51 DO ASKOK
52 ENDDO
53
54 DAY = 'SUN'
55 DO WHILE DAY = 'SUN' .AND. MQUIT <> 'Y'
56 DO WARD2
57 DO ASKOK
58 ENDDO
59
60 DAY = 'SUN'
61 DO WHILE DAY = 'SUN' .AND. MQUIT <> 'Y'
62 DO WARD3
63 DO ASKOK
64 ENDDO
```

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```
65
66 DAY = 'SUN'
67 DO WHILE DAY = 'SUN' .AND. NGUIT <> 'Y'
68   DO WARD4
69   DO ASKOK
70 ENDDO
71
72 DAY = 'SUN'
73 DO WHILE DAY = 'SUN' .AND. MWARDMARK = 1 .AND. NGUIT <> 'Y'
74   DO WARD5
75   DO ASKOK
76 ENDDO
77
78 DAY = 'SUN'
79 DO WHILE DAY = 'SUN' .AND. NGUIT <> 'Y'
80   DO APENWARD
81   CLOSE ALL
82   DAY = 'GLOOMY'
83 ENDDO
84
85 SET PROC TO
86 SET PROC TO MAINMENU
87

89 *|*****
90 *|
91 *|   Procedure: WARD1
92 *|
93 *|   Called by: WARD.PRG
94 *|
95 *|*****
96 PROCEDURE WARD1
97
98 @ 9, 5 SAY "1. Name of Respondant"
99 @ 11,5 SAY "2. Position of informant in village"
100 @ 13,5 say "3. Health Post in Ward ? "
101 @ 14,25 say "3a. If NO, how long to Health Post ?"
102 @ 15,25 say "3b. If YES, how long HP operating ?"
103 @ 17,5 say "4. Does any VHW work in the ward ?"
104 @ 18,25 say "4a. If YES, how often visit ?"
105 @ 20,5 say "5. Does CHM work in this ward ? "
106 @ 21,25 say "5a. If YES, is CHM helpful ?"
107
108 @ 9,40 GET MNAME PICTURE "!!!!!!!!!!!!!!!!!!!!!!"
109 @ 11,50 GET MPOSITION PICTURE "9" RANGE 1,5
110 @ 13,50 GET MHP PICTURE "9" RANGE 1,2
111 READ
112 IF MHP=2
113   @ 14,65 GET MHPDIST PICTURE "9" RANGE 1,5
114   READ
115 ELSE
116   MHPDIST = 8
117 ENDIF
118 IF MHP = 1
119   @ 15,65 GET MHPLONG PICT '99' RANGE 1,20
120   READ
121 ELSE
122   MHPLONG = 88
123 ENDIF
124 @ 17,50 GET MVHW PICTURE "9" RANGE 1,2
125 READ
126 IF MVHW = 1
127   @ 18,65 GET MVHWFREQ PICTURE "9" RANGE 1,5
128   READ
```

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```
129 ELSE
130     MVMWFREQ = 8
131 ENDIF
132 @ 20,50 GET MCHM PICTURE "9" RANGE 1,2
133 READ
134 IF MCHM= 1
135     @ 21,65 GET MCHMHELP PICT '9' RANGE 1,2
136     READ
137 ELSE
138     MCHMHELP = 8
139 ENDIF
140
141
142
143
144 *|*****
145 *|
146 *|     Procedure: WARD2
147 *|
148 *|     Called by: WARD.PRG
149 *|
150 *|*****
151 PROCEDURE WARD2
:
153 CLEAR
154 @ 3,5 say "6. All weather road near village"
155 @ 4,25 say "6a. If NO, how far to nearest road ?"
156 @ 6,5 say "7. Public transport in village ?"
157 @ 7,25 say "7a. If NO, walking time to transport ?"
158 @ 9,5 say "8. Primary school in Ward ?"
159 @ 10,25 say "8a. If NO, walking time ?"
160 @ 12,5 say "9. Does ward have electricity ?"
161 @ 14,5 say "10. Which of the following programmes have been implemented ?"
162 @ 15,15 say "10a. Drinking water"
163 @ 16,15 say "10b. JNSP"
164 @ 17,15 say "10c. Sulabh latrine"
165 @ 18,15 say "10d. Womens development"
166 @ 19,15 say "10e. Small credit "
167 @ 20,15 say "10f. Adult literacy"
168
169 @ 2,1 TO 24,79 DOUBLE
170
171 @ 3,50 GET MROAD PICTURE "9" RANGE 1,2
172 READ
173 IF MROAD = 2
174     @ 4,65 GET MROADWALK PICTURE "9" RANGE 1,5
175     READ
176 ELSE
177     MROADWALK=8
178
179 ENDIF
179 @ 6,50 GET MPUBLIC PICTURE "9" RANGE 1,2
180 READ
181 IF MPUBLIC= 2
182     @ 7,65 GET MPUBLICWALK PICTURE "9" RANGE 1,5
183     READ
184 ELSE
185     MPUBLICWALK=8
186 ENDIF
187 @ 9,50 GET MPRSCHOOL PICTURE "9" RANGE 1,2
188 READ
189 IF MPRSCHOOL = 2
190     @ 10,65 GET MPRSWALK PICTURE "9" RANGE 1,4
191     READ
192 ELSE
```

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```
193     MPRSMALK = 8
194 ENDIF
195 @ 12,65 GET MELECTRIC PICT '9' RANGE 1,2
196 @ 15,50 GET MWATER PICT '9' RANGE 1,2
197 @ 16,50 GET MJNSP PICT '9' RANGE 1,2
198 @ 17,50 GET MLATRINE PICT '9' RANGE 1,2
199 @ 18,50 GET MWOMEN PICT '9' RANGE 1,2
200 @ 19,50 GET MCREDIT PICT '9' RANGE 1,2
201 @ 20,50 GET MLITERATE PICT '9' RANGE 1,2
202 READ
203
204
205 *|*****
206 *|
207 *|      Procedure: WARD3
208 *|
209 *|      Called by: WARD.PRG
210 *|
211 *|*****
212 PROCEDURE WARD3
213
214 CLEAR
215 @ 2 , 5 say '11. Will village leaders help ?'
    @ 3 ,25 say '11a. If NO, why not ?'
217 @ 4 ,28 say '11a(5) Specify ?'
218 @ 5 ,10 SAY '12. In last three years was there epidemic of ?'
219 @ 6 ,15 say '12a. Measles'
220 @ 7 ,15 say '12b. Gastro'
221 @ 8 ,15 say '12c. Diarrhea'
222 @ 9 ,15 say '12d. ARI'
223 @ 10,15 say '12e. Malaria'
224 @ 11,15 say '12f. Meningitis'
225 @ 12,10 SAY '13. Are the following crops grown in the ward ?'
226 @ 13,15 say '13a. Rice '
227 @ 14,15 say '13c. Barley '
228 @ 15,15 say '13e. Millet '
229 @ 16,15 say '13g. Mustard'
230 @ 13,45 say '13b. Maize '
231 @ 14,45 say '13d. Wheat '
232 @ 15,45 say '13f. Pulses '
233 @ 16,45 say '13h. Sugar cane'
234 @ 17,10 SAY '14. Are the following fruits or vegies grown ?'
235 @ 18,15 say '14a. Green vegies'
236 @ 19,15 say '14c. Potato'
237 @ 20,15 say '14e. Papaya'
238 @ 18,45 say '14b. Yellow vegies'
239 @ 19,45 say '14d. Mango'
240 @ 20,45 say '14f. Orange'
    @ 21,5 say "15. Ward have permanent/weekly market ?"
242 @ 22,25 say "15a. If NO, walking time"
243 @ 1,1 TO 24,79 DOUBLE
244
245 @ 2,45 GET MHELP PICT '9' RANGE 1,2
246 READ
247 IF MHELP = 2
248     @ 3,65 GET MNOHELP PICT '9' RANGE 1,5
249     READ
250     IF MNOHELP = 5
251         @ 4,53 GET MNOHELPSP PICT '!!!!!!!!!!!!!!!!!!!!!!'
252         READ
253     ENDIF
254 ELSE
255     MNOHELP = 8
256 ENDIF
```

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```
257 @ 6,68 GET MMEASLES PICT '9' RANGE 1,2
258 @ 7,68 GET MGI PICT '9' RANGE 1,2
259 @ 8,68 GET MDIA PICT '9' RANGE 1,2
260 @ 9,68 GET MARI PICT '9' RANGE 1,2
261 @ 10,68 GET MMALARIA PICT '9' RANGE 1,2
262 @ 11,68 GET MMENIN PICT '9' RANGE 1,2
263 @ 13,38 GET MRICE PICT '9' RANGE 1,2
264 @ 14,38 GET MBARLEY PICT '9' RANGE 1,2
265 @ 15,38 GET MMILLET PICT '9' RANGE 1,2
266 @ 16,38 GET MMUSTARD PICT '9' RANGE 1,2
267 @ 18,38 GET MGLV PICT '9' RANGE 1,2
268 @ 19,38 GET MPOTATO PICT '9' RANGE 1,2
269 @ 20,38 GET MPAPAYA PICT '9' RANGE 1,2
270 @ 13,68 GET MMAIZE PICT '9' RANGE 1,2
271 @ 14,68 GET MWHEAT PICT '9' RANGE 1,2
272 @ 15,68 GET MPULSES PICT '9' RANGE 1,2
273 @ 16,68 GET MSUGAR PICT '9' RANGE 1,2
274 @ 18,68 GET MYELL PICT '9' RANGE 1,2
275 @ 19,68 GET MMANGO PICT '9' RANGE 1,2
276 @ 20,68 GET MRANGE PICT '9' RANGE 1,2
277 @ 21,50 GET MMARKET PICTURE "9" RANGE 1,2
278 READ
279 IF MMARKET = 2
    @ 22,65 GET MMARKETWA PICTURE "9" RANGE 1,5
281 READ
282 ELSE
283     MMARKETWA=8
284 ENDIF
285
286
287
288 *|*****
289 *|
290 *| Procedure: WARD4
291 *|
292 *| Called by: WARD.PRG
293 *|
294 *|*****
295 PROCEDURE WARD4
296
297 CLEAR
298 @ 2,10 say '16. Is there a marketplace in this ward?' get mwardmark pict '9' range 1,2
299 @ 1,1 to 24,79 double
300 READ
301 DO CASE
302 CASE MWARDMARK <> 1
303     * SEE BELOW IN REPLACE SECTION
304 CASE MWARDMARK = 1
    @ 4,10 say '16a. How many shops selling food?' get mshops pict '999' range 1,998
306 READ
307 CLEAR
308 @ 2,15 SAY '17-22. Are the following foods sold in the market?'
309 @ 3, 5 say 'STAPLE FOODS'
310 @ 4, 5 say '17a. Rice' CEREALS'
311 @ 5, 5 say '17b. Maize' 18a. Black grains'
312 @ 6, 5 say '17c. Wheat' 18b. Soya'
313 @ 7, 5 say '17d. Millet' 18c. Pulses'
314 @ 9, 5 say 'GREEN VEGIES'
315 @ 10,5 say '19a. Rayo ko sang' OTHER VEGIES'
316 @ 11, 5 say '19b. Tori ko sang' 20a. Cauli'
317 @ 12, 5 SAY '19c. Spinach' 20b. Cabbage'
318 @ 13, 5 say '19d. Onion leaves' 20c. Pumpkin'
319 @ 14, 5 say '19e. Other greens' 20d. Cucumber'
320 @ 15, 5 say 'Specify' 20e. Tomato'
```

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```
321 @ 17, 5 say 'MILK AND MILK PRODS
322 @ 18, 5 say '21a. Milk
323 @ 19, 5 say '21b. Skim milk
324 @ 20, 5 SAY '21c. Butter
325 @ 21, 5 say '21d. Ghee
326 @ 22, 5 say '
327 @ 1,1 TO 24,79 DOUBLE
328 @ 4,38 GET MRICE1 PICT '9' RANGE 1,2
329 @ 5,38 GET MMAIZE1 PICT '9' RANGE 1,2
330 @ 6,38 GET MWHEAT1 PICT '9' RANGE 1,2
331 @ 7,38 GET MMILLET1 PICT '9' RANGE 1,2
332 @ 10,38 GET MRAYO1 PICT '9' RANGE 1,2
333 @ 11,38 GET MTOR11 PICT '9' RANGE 1,2
334 @ 12,38 GET MSPIN1 PICT '9' RANGE 1,2
335 @ 13,38 GET MONIONL1 PICT '9' RANGE 1,2
336 @ 14,38 GET MGVEG1 PICT '9' RANGE 1,2
337 READ
338 IF MGVEG1 = 1
339 @ 15,18 GET MGVEGSPEC PICT '!!!!!!!!!!!!!!!!!!!!!!'
340 READ
341 ENDIF
342 @ 18,38 GET MMILK1 PICT '9' RANGE 1,2
343 @ 19,38 GET MSKIM1 PICT '9' RANGE 1,2
344 @ 20,38 GET MBUTTER1 PICT '9' RANGE 1,2
345 @ 21,38 GET MGHEE1 PICT '9' RANGE 1,2
346 @ 4 ,68 GET MBGRAINS1 PICT '9' RANGE 1,2
347 @ 5 ,68 GET MSOYA1 PICT '9' RANGE 1,2
348 @ 6 ,68 GET MPULSE1 PICT '9' RANGE 1,2
349 @ 10,68 GET MCAULI1 PICT '9' RANGE 1,2
350 @ 11,68 GET MCABB1 PICT '9' RANGE 1,2
351 @ 12,68 GET MPUMP1 PICT '9' RANGE 1,2
352 @ 13,68 GET MCUKE1 PICT '9' RANGE 1,2
353 @ 14,68 GET MTOM1 PICT '9' RANGE 1,2
354 @ 18,68 GET MPOTATO1 PICT '9' RANGE 1,2
355 @ 19,68 GET MRADISH1 PICT '9' RANGE 1,2
356 @ 20,68 GET MCARROT1 PICT '9' RANGE 1,2
357 @ 21,68 GET MYAM1 PICT '9' RANGE 1,2
358 @ 22,68 GET MONION1 PICT '9' RANGE 1,2
359 READ
360 ENDCASE
361
362
363 *|*****
364 *|
365 *| Procedure: WARD5
366 *|
367 *| Called by: WARD.PRG
368 *|
369 *|*****
370 PROCEDURE WARD5
371
372 CLEAR
373 @ 2,15 SAY '23-25. Are the following foods sold in the market ? '
374 @ 4, 5 say 'FRUITS
375 @ 5, 5 say '23a. Mango
376 @ 6, 5 say '23b. Banana
377 @ 7, 5 say '23c. Papaya
378 @ 8, 5 say '23d. Orange
379 @ 9, 5 say '23e. Apple
380 @ 10,5 say '23f. Peach'
381 @ 11, 5 say '23g. Guava
382 @ 12, 5 SAY '23h. Jackfruit
383 @ 13, 5 say '23i. Apricot
384 @ 14, 5 say '23j. Watermelon

ROOTS'
22a. Potato'
22b. Radish'
22c. Carrot'
22d. Yam'
22e. Onion'

MEATS'
24a. Goat meat'
24b. Buffalo'
24c. Chicken'
24d. Pig'
24e. Fish'

MISCELLANEOUS'
25a. Veg. oil'
25b. Biscuits'
25c. Spices'
```

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25d. Bread'

```
385 @ 15, 5 say '23k. Lemon
386 @ 16,41 say '25e. Other'
387 @ 17,38 say '25e(i). Specify'
388 @ 1,1 TO 24,79 DOUBLE
389
390 @ 5,32 GET MMANGO1 PICT '9' RANGE 1,2
391 @ 6,32 GET MBANANA1 PICT '9' RANGE 1,2
392 @ 7,32 GET MPAPAYA1 PICT '9' RANGE 1,2
393 @ 8,32 GET MORANGE1 PICT '9' RANGE 1,2
394 @ 9,32 GET MAPPLE1 PICT '9' RANGE 1,2
395 @ 10,32 GET MPEACH1 PICT '9' RANGE 1,2
396 @ 11,32 GET MQUAVA1 PICT '9' RANGE 1,2
397 @ 12,32 GET MJACK1 PICT '9' RANGE 1,2
398 @ 13,32 GET MAPRICOT1 PICT '9' RANGE 1,2
399 @ 14,32 GET MWATMEL1 PICT '9' RANGE 1,2
400 @ 15,32 GET MLEMON1 PICT '9' RANGE 1,2
401 @ 5,68 GET MGMEAT PICT '9' RANGE 1,2
402 @ 6,68 GET MBMEAT PICT '9' RANGE 1,2
403 @ 7,68 GET MCHICK PICT '9' RANGE 1,2
404 @ 8,68 GET MPIG PICT '9' RANGE 1,2
405 @ 9,68 GET MFISH PICT '9' RANGE 1,2
406 @ 12,68 GET MVOIL PICT '9' RANGE 1,2
407 @ 13,68 GET MBISC PICT '9' RANGE 1,2
    @ 14,68 GET MSPICE PICT '9' RANGE 1,2
409 @ 15,68 GET MBREAD PICT '9' RANGE 1,2
410 @ 16,68 GET MOTHER1 PICT '9' RANGE 1,2
411 READ
412 IF MOTHER1 = 1
413   @ 17,55 GET MOTHERSPEC PICT '!!!!!!!!!!!!!!!!!!!!!!'
414   READ
415 ENDIF
416
417
418 *|*****
419 *|
420 *| Procedure: APENWARD
421 *|
422 *| Called by: WARD.PRG
423 *|
424 *| Uses: WARD1.DBF
425 *|       : WARD.DBF
426 *|
427 *|*****
428 PROCEDURE APENWARD
429
430
431 CLEAR
432 @ 10,10 SAY "ADDING DATA TO A RECORD FILE"
DO CASE
~-> CASE MWARDMARK = 2 .OR. MWARDMARK = 9
435   USE WARD1
436 CASE MWARDMARK = 1
437   USE WARD
438 ENDCASE
439 APPEND BLANK
440 REPLACE DATANO WITH MDATANO, DATEEN WITH MDATEEN, SITE WITH MSITE, MONITOR WITH MMONITOR, WARD WITH MWARD, WARDNAME WITH
440 MNAME, HPLONG WITH MHPLONG, CREDIT WITH MCREDIT, LITERATE WITH MLITERATE
441 REPLACE POSITION WITH MPOSITION, HPWARD WITH MHP, HPDIST WITH MHPDIST, VHW WITH MVHW, VHWFREQ WITH MVHWFREQ, CHM WITH MCH
441 M, CHMHELP WITH MCHMHELP, ROAD WITH MROAD, ROADWALK WITH MROADWALK
442 REPLACE PUBLIC WITH MPUBLIC, PUBLICWALK WITH MPUBLICWALK, PRS WITH MPRSCHOOL, PRSWALK WITH MPRSWALK, ELECTRIC WITH MELECT
442 RIC, WATER WITH MWATER, JNSP WITH MJNSP, LATRINE WITH MLATRINE
443 REPLACE WOMEN WITH MWOMEN, MARKET WITH MMARKET, MARKWALK WITH MMARKETWA, RICE WITH MRICE, BARLEY WITH MBARLEY, MILLET WIT
443 H MMILLET, MUSTARD WITH MMUSTARD, MAIZE WITH MMAIZE, WHEAT WITH MWHEAT
444 REPLACE PULSES WITH MPULSES, SUGAR WITH MSUGAR, GLV WITH MGLV, POTATO WITH MPOTATO, PAPAYA WITH MPAPAYA, YELL WITH MYELL,
```

```
444 MANGO WITH MMANGO, ORANGE WITH MORANGE, MEASLES WITH MMEASLES, GI WITH MGI
445 REPLACE DIA WITH MDIA, ARI WITH MARI, MALARIA WITH MMALARIA, MENIN WITH MMENIN, HELP WITH MHELP, NOHELP WITH MNOHELP, NOH
445 ELPSP WITH MNOHELPSP, WARDMARK WITH MWARDMARK
446 IF MWARDMARK = 1
447   REPLACE SHOPS WITH MSHOPS, RICE1 WITH MRICE1, MAIZE1 WITH MMAIZE1, WHEAT1 WITH MWHEAT1, MILLET1 WITH MMILLET1, RAYO1 W
447 ITH MRAYO1, TOR11 WITH MTOR11, SPIN1 WITH MSPIN1, ONION1 WITH MONION1
448   REPLACE GVEG1 WITH MGVEG1, GVEGSPEC WITH MGVEGSPEC, MILK1 WITH MMILK1, SKIM1 WITH MSKIM1, BUTTER1 WITH MBUTTER1, GHEE1
448 WITH MGHEE1, MANGO1 WITH MMANGO1, BANANA1 WITH MBANANA1
449   REPLACE PAPAYA1 WITH MPAPAYA1, ORANGE1 WITH MORANGE1, APPLE1 WITH MAPPLE1, PEACH1 WITH MPEACH1, GUAVA1 WITH MGUAVA1, J
449 ACK1 WITH MJACK1, APRICOT1 WITH MAPRICOT1, WATMEL1 WITH MWATMEL1
450   REPLACE LEMON1 WITH MLEMON1, BGRAINS1 WITH MBGRAINS1, SOYA1 WITH MSOYA1, PULSE1 WITH MPULSE1, CAULI1 WITH MCAULI1, CAB
450 B1 WITH MCABB1, PUMP1 WITH MPUMP1, CUKE1 WITH MCUKE1, TOM1 WITH MTOM1
451   REPLACE POTATO1 WITH MPOTATO1, RADISH1 WITH MRADISH1, CARROT1 WITH MCARROT1, YAM1 WITH MYAM1, ONION1 WITH MONION1, GME
451 AT WITH MGMEAT, BMEAT WITH MBMEAT, CHICK WITH MCHICK, PIG WITH MPIG
452   REPLACE FISH WITH MFISH, VOIL WITH MVOIL, BISC WITH MBISC, SPICE WITH MSPICE, BREAD WITH MBREAD, OTHER1 WITH MOTHER1,
452 OTHERSPEC WITH MOTHERSPEC
453 ENDIF
454 CLOSE DATA
455 CLEAR
456 @ 10,10 SAY " DATA RECORD HAS BEEN ENTERED INTO DATA BASE ..... "
457 WAIT
458 *: EOF: WARD.PRG
```

```
1 *:*****
2 *:
3 *:      Program: ZAP.PRG
4 *:
5 *:      System: Vitamin A Intervention - Second Survey
6 *:      Author: J.G., B.T., S.P
7 *:      Copyright (c) 1990, VACSP
8 *:      Last modified: 04/04/90      23:10
9 *:
10 *:      Called by: SITESET.PRG
11 *:
12 *:      Uses: WARD.DBF
13 *:           : WARD1.DBF
14 *:           : HH.DBF
15 *:           : HHNOKID.DBF
16 *:           : LIVESTOK.DBF
17 *:           : HNSPEC.DBF
18 *:           : HNCEN.DBF
19 *:           : KID.DBF
20 *:           : KIDSP.DBF
21 *:           : CLINIC.DBF
22 *:           : MORBID.DBF
23 *:           : MORTAL.DBF
24 *:           : MORTALSP.DBF
25 *:           : CASECON.DBF
26 *:           : MOM.DBF
27 *:           : MOMSP.DBF
28 *:           : DIAKAP.DBF
29 *:           : DIAKAPSP.DBF
30 *:           : SHIT.DBF
31 *:           : MOMNOT.DBF
32 *:
33 *:      Documented: 04/09/90 at 09:32      FoxDoc version 1.0
34 *:*****
35 set safety off
36 set talk off
37 use ward
38 zap
39 use ward1
40 zap
41 use hh
42 zap
43 use hhnokid
44 zap
45 use livestok
46 zap
47 use hhspec
48 zap
49 use hncen
50 zap
51 use kid
52 zap
53 use kidsp
54 zap
55 use clinic
56 zap
57 use morbid
58 zap
59 use mortal
60 zap
61 use mortalsp
62 zap
63 use casecon
64 zap
```

201

04/09/90
09:44

ZAP.PRG
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65 use mom
66 zap
67 use momop
68 zap
69 use dfakap
70 zap
71 use dfakap sp
72 zap
73 use shit
74 zap
75 use momnot
76 zap
77 *: EOF: ZAP.PRG