

**BASELINE SURVEY  
COMMUNITY BASED APPROACHES  
TO  
CHILD SURVIVAL AND ORPHANS CARE**

**AMREF CHILD SURVIVAL PROJECT  
African Medical and Research Foundation  
Luwero District, Uganda  
Semuto, Butuntumula, Kakooge & Makulubita Sub-counties**

**USAID Agreement # FAO-0500-A-00-5022-00**

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MAP OF LUWERO DISTRICT

## I. INTRODUCTION

AMREF Uganda has been the implementing agent for a USAID funded Child Survival project since 1992 in Semuto and Butuntumula sub-counties of Luwero District. Community based health care activities had begun in Semuto on a smaller scale some three years before that. As part of the project a baseline 30 cluster survey was conducted in February 1993 and a follow-up in February 1995 in those two sub-counties.

A four year extension and expansion of the project began in September 1995. The project will continue to support Child Survival activities in the original two sub-counties, although there will be a gradual phasing out of support, first in Semuto and then Butuntumula. The project is expanding to Makulubita and Kakooge sub-counties of Luwero district. Baseline 30 cluster surveys were conducted in Kakooge and Makulubita sub-counties in February 1996.

### *Target Population:1991 Census Figures*

|                  |        |
|------------------|--------|
| Total Population | 80,249 |
| Semuto           | 18,076 |
| Butuntumula      | 24,286 |
| Kakooge          | 17,475 |
| Makulubita       | 20,412 |

|                         |        |
|-------------------------|--------|
| Children < 12 months    | 3,370  |
| Children 0-4 years      | 15,572 |
| Females Age 15-49 years | 16,416 |

The growth rate in Uganda is estimated at 3% per year.

## II. BACKGROUND TO PROJECT

### A. PROJECT SUMMARY

**Goals** Improved health and well being of children, women, and orphans in 4 sub-counties of Luwero District

**Objective** Immunization at 70% or improved by 20%  
ORT use improved 15% over baseline  
Exclusive breastfeeding at 80% or 20% improved  
Appropriate weaning improved by 15%  
ARI training 10 health workers/180 CHWs  
Antenatal care increased 15%  
Contraceptive prevalence increase 33% from baseline in original 2 sub-counties and by 50% in the 2 new sub-counties.  
Malaria training 10 health workers/180 CHWs  
80% Awareness of mosquito net use  
Nets and condoms available in 75% of parishes  
90% of primary students get AIDS messages  
1300 orphans in school  
240 orphan/guardian income generating projects

Location Semuto, Makulubita, Kakooge, and Butuntumula sub-counties of Luwero District, Uganda

Numbers Age 0-4 15,572  
 < 12 mo. 3,370  
 Females age 15-49 16,416

Mortality Children Main cause is malaria, diarrhoea, and respiratory disease in that order. AIDS is becoming a top ten cause.

Maternal Complications of anaemia, possibly from malaria, hemorrhage, infection.

USAID Requested US\$ 749,305 (Reduced by 25% from the original request)

PVO US\$ 443,527 through Association François-Xavier Bagnoud

In-kind The PVO is contributing from its existing infrastructure, and the community contributes much time and an increasing amount of finances from the community.

Budget PY1 PY2 PY3 PY4  
 307,218 315,275 284,679 285,660

Length 30 September 1995 - 30 September 1999

B. PROJECT OUTPUTS

| ITEM                             | YEAR 1 | YEAR 2 | YEAR 3 | YEAR 4 | TOTAL  |
|----------------------------------|--------|--------|--------|--------|--------|
| Cluster Survey                   | 2      |        |        | 4      | 6      |
| Village Health Comm. Trained     | 30     | 30     | 30     | 0      | 90     |
| VHC in Place                     | 110    | 140    | 170    | 200    | 200    |
| TBAs trained                     | 40     | 40     | 40     | 0      | 120    |
| CHWs trained                     | 20     | 20     | 20     | 0      | 60     |
| Children < 1 yr. fully immunized | 2200   | 2450   | 2700   | 2700   | 10,000 |
| Bednets sold                     | 500    | 750    | 1000   | 1250   | 2,500  |
| Malaria consults                 | 1      | 1      | 1      | 1      | 4      |

|   |      |      |      |      |    |
|---|------|------|------|------|----|
| Contraceptive Users (CPR 10% in Year 4) | 450  | 900  | 1200 | 1600 | NA |
| Orphans in Primary School               | 1300 | 1300 | 1300 | 1300 |    |
| IGAs for Guardians                      | 40   | 80   | 40   | 80   |    |

### III. METHODS

The final survey performed in February 1995 for Semuto and Butuntumula sub-counties will serve as the baseline for the second phase of the project for those two areas. A separate thirty cluster survey was performed in each of Kakooge and Makulubita sub-counties in February 1996 for a baseline for those two areas. The results from each of the individual surveys are presented separately and combined.

Four separate surveys were done as each of the areas has distinct differences. Semuto and Makulubita are predominantly agricultural, and the population are predominantly of the Baganda ethnic group. Semuto has had a community based health care project beginning in 1989/90. Butuntumula is a transition area with both cattle keepers and agriculturalists, and is more ethnically mixed. Kakooge has many more cattle keepers, and also is ethnically primarily made up of Baruli people, with other groups mixed.

The questionnaire was adapted from the standard questionnaire developed by the Child Survival Support office. In 1996 questions were added concerning condom availability, the use of bednets, water, sanitation, and orphans.

The sampling frame was a listing of communities from the 1991 census. A WHO random 30 cluster methodology was used and the clusters were selected using the COSAS software program of WHO. Ten households were taken from each cluster, with the target being a child under the age of two years and the mother of the child.

Eighteen enumerators and six supervisors were trained for two days only, as the old survey teams were used, and the survey was performed in six days during the third week of February. The information was entered into a computer and analyzed using EPI INFO Ver 6.0. The data from the February 1995 survey in Semuto and Butuntumula was merged with the data from the 1996 survey in Kakooge and Makulubita.

### IV. SURVEY RESULTS

The results of the 1995 survey in Butuntumula and Semuto will be presented along with the data from the 1996 survey from Makulubita and Kakooge. These combined will serve as the baseline for the second phase of the current project. Semuto has the longest standing program, and will be the first where phase out will begin. Abbreviations used are.

|     |                                |
|-----|--------------------------------|
| SEM | Semuto                         |
| BUT | Butuntumula                    |
| KAK | Kakooge                        |
| MAK | Makulubita                     |
| TOT | Total of all four sub-counties |

Number of questionnaires

|              |             |
|--------------|-------------|
| Semuto       | 301         |
| Butuntumula  | 300         |
| Kakooge      | 300         |
| Makulubita   | 300         |
| -----        | ---         |
| <b>TOTAL</b> | <b>1201</b> |

DEMOGRAPHICS MODULE

- 1 Mean Age of Mother in Years  
(1184 answers - excluded four records who had age greater than 50 years, range 12-50)

|              |             |
|--------------|-------------|
| Semuto       | 25.4        |
| Butuntumula  | 25.7        |
| Kakooge      | 25.4        |
| Makulubita   | 25.6        |
| -----        | ----        |
| <b>TOTAL</b> | <b>25.5</b> |

- 2 a Mean Age of Child in Months (1200 answers)

|              |             |
|--------------|-------------|
| Semuto       | 10.9        |
| Butuntumula  | 10.7        |
| Kakooge      | 10.8        |
| Makulubita   | 10.1        |
| -----        | ----        |
| <b>TOTAL</b> | <b>10.6</b> |

- 2 c Sex of Child

|              | MALES              | FEMALES            | TOTAL       |
|--------------|--------------------|--------------------|-------------|
| Semuto       | 153 (50.8%)        | 148 (49.2%)        | 301         |
| Butuntumula  | 148 (50.0%)        | 148 (50.0%)        | 296         |
| Kakooge      | 163 (54.3%)        | 137 (45.7%)        | 300         |
| Makulubita   | 145 (48.3%)        | 155 (51.7%)        | 300         |
| -----        | -----              | -----              | ---         |
| <b>TOTAL</b> | <b>609 (50.9%)</b> | <b>588 (49.1%)</b> | <b>1197</b> |

The differences in sex ratios did not reach levels of statistical significance

3 a Is the father of the child alive?

|              |                          |
|--------------|--------------------------|
| Semuto       | 295/301 (98.0%)          |
| Butuntumula  | 293/300 (97.7%)          |
| Kakooge      | 297/300 (99.0%)          |
| Makulubita   | 289/300 (96.3%)          |
| -----        | -----                    |
| <b>TOTAL</b> | <b>1174/1201 (97.8%)</b> |

The differences in father being alive did not reach statistical significance.

3.b. If the father is alive, is he at home?

|              |                         |
|--------------|-------------------------|
| Semuto       | 245/294 (83.3%)         |
| Butuntumula  | 238/291 (81.8%)         |
| Kakooge      | 246/297 (82.8%)         |
| Makulubita   | 215/289 (74.4%)         |
| -----        | -----                   |
| <b>TOTAL</b> | <b>944/1171 (80.6%)</b> |

The differences reached levels of statistical significance to a p value of 0.02. Makulubita may have a moderately higher rate of fathers laboring outside of the sub-county.

4 Can the mother read?

|              |                         |
|--------------|-------------------------|
| Semuto       | 234/301 (77.7%)         |
| Butuntumula  | 238/298 (79.9%)         |
| Kakooge      | 181/299 (60.5%)         |
| Makulubita   | 228/300 (76.0%)         |
| -----        | -----                   |
| <b>TOTAL</b> | <b>879/1198 (73.4%)</b> |

The differences reached a level of statistical significance with a p value of < 0.001. Kakooge sub-county is inhabited by the Baruli people, who are cattle keepers, and also have a different language than the other sub-counties. However, Butuntumula is also inhabited by a mix of pastoralists and agriculturists, although having fewer Baruli people than Kakooge.

5. Do you (the mother) work away from the home, such as digging in the fields or other work?

|              |                         |
|--------------|-------------------------|
| Semuto       | 109/299 (36.5%)         |
| Butuntumula  | 136/300 (45.3%)         |
| Kakooge      | 148/299 (49.5%)         |
| Makulubita   | 116/300 (38.7%)         |
| -----        | -----                   |
| <b>TOTAL</b> | <b>509/1198 (42.5%)</b> |

The differences reached a level of statistical significance with a p value of 0.004. None of the sub-counties is purely agricultural or pastoral, but Semuto and Makulubita are predominantly agricultural, while Kakooge and Butuntumula have more cattle.

6. Who takes care of the child while you are away from home?

|              | Sem | But | Kak | Mak | Total |
|--------------|-----|-----|-----|-----|-------|
| Mother keeps | 22  | 14  | 21  | 14  | 71    |
| Father       | 6   | 3   | 4   | 9   | 22    |
| Sibling      | 54  | 75  | 80  | 52  | 261   |
| Relatives    | 30  | 49  | 41  | 37  | 157   |
| Neighbours   | 12  | 7   | 6   | 3   | 28    |
| Maid         | 0   | 1   | 0   | 0   | 1     |

Extended family members commonly care for children, particularly other siblings. Children are an important target for health and child care information.

7. How much did you spend on medical care for the last one month in this household?

|                | Sem  | But   | Kak   | Mak   | Total |
|----------------|------|-------|-------|-------|-------|
| Number knowing | 254  | 248   | 230   | 211   | 943   |
| Average spent  | 9816 | 13448 | 14703 | 16491 | 13457 |
| Mode           | 0    | 0     | 10000 | 10000 | 10000 |
| Median         | 5000 | 6000  | 6000  | 7000  | 6000  |
| Do not know    | 47   | 51    | 70    | 89    | 22    |

The range was from 0-260,000 US\$ and at the time of each survey the value of 1000 US\$ was about US\$ 1.

#### EXCLUSIVE BREASTFEEDING, NUTRITION, AND GROWTH MONITORING

8. Is the mother breastfeeding this child currently?

|              |                         |
|--------------|-------------------------|
| Semuto       | 259/301 (86.0%)         |
| Butuntumula  | 249/299 (83.3%)         |
| Kakooge      | 227/300 (75.7%)         |
| Makulubita   | 238/300 (79.3%)         |
| -----        | -----                   |
| <b>TOTAL</b> | <b>973/1200 (81.1%)</b> |

Select children greater than 17 months (18-23 months)

|              |                       |
|--------------|-----------------------|
| Semuto       | 32/60 (53.3%)         |
| Butuntumula  | 22/58 (37.9%)         |
| Kakooge      | 25/70 (35.7%)         |
| Makulubita   | 20/54 (37.0%)         |
| -----        | -----                 |
| <b>TOTAL</b> | <b>99/242 (40.9%)</b> |

Bring this card every time you come to the health unit

REPUBLIC OF UGANDA



MINISTRY OF HEALTH

DATE OF NEXT VISIT

COMMENTS

|  |  |
|--|--|
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |

# CHILD HEALTH CARD

|  |               |                     |
|--|---------------|---------------------|
| Health Unit                                    |               | Child's No          |
| Child's Name                                   |               |                     |
| Sex  | Date of Birth | Birth Order         |
| Mother's Name                                  |               | Mother's Occupation |
| Father's Name                                  |               | Father's Occupation |
| Where the family lives _____<br>_____<br>_____ |               |                     |

**MOTHER**

DATE VITAMIN A CAPSULE GIVEN

### IMMUNISATION AND VITAMIN A SCHEDULE

|             |                       |
|-------------|-----------------------|
| AT DELIVERY | VITAMIN A TO MOTHER   |
| AT BIRTH    | BCG and POLIO 0       |
| 6 WEEKS     | DPT1 and POLIO 1      |
| 10 WEEKS    | DPT 2 and POLIO 2     |
| 14 WEEKS    | DPT 3 and POLIO 3     |
| 9 MONTHS    | MEASLES AND VITAMIN A |

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### IMMUNISATIONS AND VITAMIN A

|           | 0                             | 1 | 2 | 3 |
|-----------|-------------------------------|---|---|---|
|           | Write in date of immunisation |   |   |   |
| BCG       |                               |   |   |   |
| POLIO     |                               |   |   |   |
| DPT       |                               |   |   |   |
| MEASLES   |                               |   |   |   |
| VITAMIN A |                               |   |   |   |

**TO PROTECT YOUR CHILD HAVE ALL IMMUNISATIONS  
DONE BEFORE THE FIRST BIRTHDAY**

6/11

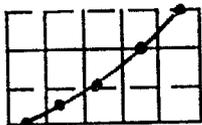
Name \_\_\_\_\_

Birth weight: \_\_\_\_\_ kg

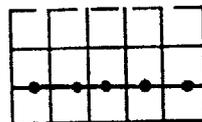
**REASONS FOR SPECIAL CARE**

|   |   |  |  |
|---|---|--|--|
| Birthweight less than 2.5 kg <input type="checkbox"/>       | Birth less than 2 years after last birth <input type="checkbox"/> | Fifth child or more <input type="checkbox"/>               | Single Parent <input type="checkbox"/> |
| Brothers or sisters undernourished <input type="checkbox"/> | Twins <input type="checkbox"/>                                    | 3 or more children in family died <input type="checkbox"/> |  |

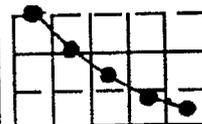
Watch the direction of the line showing the child's health.



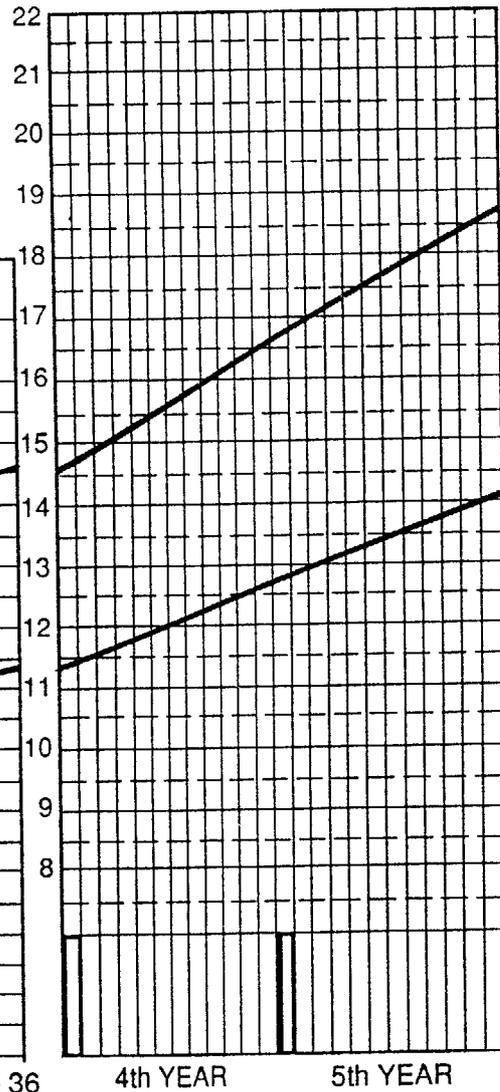
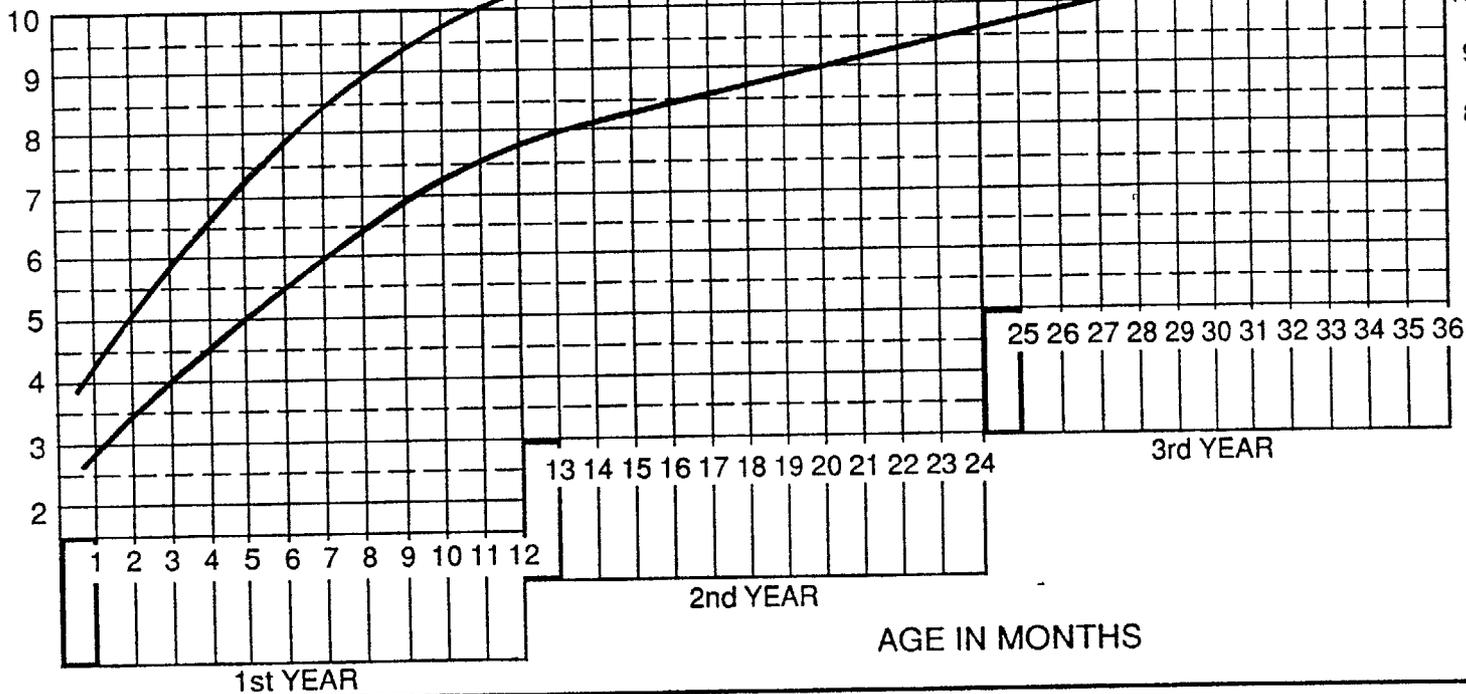
**GOOD**  
Means the child is growing well



**DANGER**  
Find out why? and advise



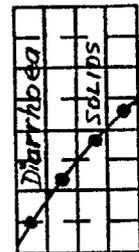
**VERY DANGEROUS**  
May be ill needs extra care



**RECORD ON THE CHART**

- Immunisations
- Diarrhoea
- Measles
- Solids introduced
- Breastfeeding stopped
- Birth of next child

Like this:



66

Semuto sub-county has a longer standing Community Based Health Care programme which may explain the higher percentages of prolonged breastfeeding. The differences do not reach statistical significance.

9. If the child is not currently breastfeeding, has the child breastfed in the past? (Select only those who answered no to question 8.)

|              |                |
|--------------|----------------|
| Semuto       | 41/42          |
| Butuntumula  | 50/50          |
| Kakooge      | 72/72          |
| Makulubita   | 59/62          |
| -----        | -----          |
| <b>TOTAL</b> | <b>222/226</b> |

Only four children out of 1201 were identified who were never breastfed.

10. After delivery, when was the child first breastfed?

|              | <1 HR.     | 1-8 HRS.   | >8HRS.     | DNK      | TOTAL       |
|--------------|------------|------------|------------|----------|-------------|
| Semuto       | 160        | 57         | 79         | 2        | 298         |
| Butuntumula  | 166        | 58         | 74         | 2        | 300         |
| Kakooge      | 129        | 70         | 100        | 0        | 299         |
| Makulubita   | 140        | 64         | 94         | 0        | 298         |
| -----        | -----      | -----      | -----      | -----    | -----       |
| <b>TOTAL</b> | <b>595</b> | <b>249</b> | <b>347</b> | <b>4</b> | <b>1195</b> |

The differences reach a statistical difference to a p value of 0.05. Semuto and Butuntumula have had child survival activities and community based health care for two years at the time of their surveys.

11. Are you giving this child extra fluids besides breast milk? (Selecting children less than 4 months of age to see if exclusive breastfeeding is done.)

|              | Extra Water            | Extra Milk            |
|--------------|------------------------|-----------------------|
| Semuto       | 27/44 (61.4%)          | 14/44 (31.8%)         |
| Butuntumula  | 26/40 (65.0%)          | 20/39 (51.3%)         |
| Kakooge      | 24/61 (39.3%)          | 26/61 (42.6%)         |
| Makulubita   | 24/53 (45.3%)          | 16/53 (30.2%)         |
| -----        | -----                  | -----                 |
| <b>TOTAL</b> | <b>101/198 (51.0%)</b> | <b>76/197 (38.6%)</b> |

Extra fluids and milk for breast feeding are strongly ingrained culturally.

12. What other foods are being given to this child?

|                | <b>Sem<br/>n=301</b> | <b>But<br/>n=300</b> | <b>Kak<br/>n=300</b> | <b>Mak<br/>n=300</b> | <b>Total<br/>n=1201</b> |
|----------------|----------------------|----------------------|----------------------|----------------------|-------------------------|
| Water          | 274                  | 273                  | 243                  | 256                  | 1046                    |
| Milk           | 204                  | 247                  | 222                  | 206                  | 879                     |
| Semi-solids    | 233                  | 214                  | 197                  | 199                  | 843                     |
| Vitamin A Rich | 207                  | 193                  | 191                  | 191                  | 782                     |
| Leafy greens   | 161                  | 144                  | 177                  | 174                  | 656                     |
| Meat/Fish      | 212                  | 197                  | 194                  | 194                  | 797                     |
| Beans/G-Nuts   | 218                  | 209                  | 204                  | 213                  | 844                     |
| Eggs           | 188                  | 162                  | 180                  | 190                  | 720                     |
| Add sugar      | 239                  | 246                  | 237                  | 232                  | 954                     |
| Add fat        | 184                  | 173                  | 186                  | 180                  | 723                     |

If children at the critical weaning stages of 6-9 months are selected out, the following results were obtained.

|                | <b>Sem<br/>n=53</b> | <b>But<br/>n=59</b> | <b>Kak<br/>n=51</b> | <b>Mak<br/>n=61</b> | <b>Total<br/>n=224</b> |
|----------------|---------------------|---------------------|---------------------|---------------------|------------------------|
| Water          | 52 (98%)            | 56 (95%)            | 43 (84%)            | 55 (90%)            | 206 (92%)              |
| Milk           | 39 (74%)            | 53 (90%)            | 39 (77%)            | 47 (77%)            | 178 (80%)              |
| Semi-solids    | 50 (94%)            | 45 (76%)            | 36 (71%)            | 44 (72%)            | 175 (78%)              |
| Vitamin A Rich | 37 (70%)            | 36 (61%)            | 35 (69%)            | 41 (67%)            | 149 (67%)              |
| Leafy greens   | 17 (32%)            | 19 (32%)            | 32 (63%)            | 36 (71%)            | 100 (45%)              |
| Meat/Fish      | 37 (71%)            | 39 (66%)            | 36 (71%)            | 42 (69%)            | 154 (69%)              |
| Beans/G-Nuts   | 42 (79%)            | 48 (83%)            | 38 (75%)            | 46 (75%)            | 174 (78%)              |
| Eggs           | 33 (62%)            | 32 (54%)            | 34 (67%)            | 39 (64%)            | 138 (62%)              |
| Add sugar      | 44 (83%)            | 54 (92%)            | 44 (86%)            | 52 (85%)            | 194 (87%)              |
| Add fat        | 39 (74%)            | 31 (53%)            | 36 (71%)            | 40 (66%)            | 146 (66%)              |

12. When should you start giving food to a breast fed baby?

|              | <b>&lt;4 MO.</b> | <b>4-6 MO.</b>   | <b>&gt;6 MO.</b> | <b>DNK</b>     | <b>TOTAL</b> |
|--------------|------------------|------------------|------------------|----------------|--------------|
| Semuto       | 36 (12%)         | 223 (74%)        | 38 (13%)         | 4 (1%)         | 301          |
| Butuntumula  | 23 (8%)          | 209 (70%)        | 61 (20%)         | 7 (2%)         | 300          |
| Kakooge      | 44 (15%)         | 133 (44%)        | 106 (35%)        | 17 (6%)        | 300          |
| Makulubita   | 51 (17%)         | 173 (58%)        | 62 (21%)         | 14 (5%)        | 300          |
| <b>TOTAL</b> | <b>154 (13%)</b> | <b>738 (61%)</b> | <b>267 (22%)</b> | <b>42 (2%)</b> | <b>1201</b>  |

The differences between sub-counties reach statistical significance. Semuto and Butuntumula have had Child Survival activities for over two years, perhaps accounting for higher percentages knowing the proper weaning age.

13. Does the child have a growth monitoring card? It must be seen by the enumerator.

|               | CARD SEEN        | LOST CARD        | NO CARD          | TOTAL       |
|---------------|------------------|------------------|------------------|-------------|
| Semuto        | 229 (76%)        | 16 (5%)          | 56 (19%)         | 301         |
| Butuntumula   | 171 (58%)        | 39 (13%)         | 87 (29%)         | 297         |
| Kakooge       | 156 (52%)        | 34 (11%)         | 110 (37%)        | 300         |
| Makulubita    | 174 (58%)        | 26 (9%)          | 100 (33%)        | 300         |
| -----         | -----            | -----            | -----            | ---         |
| <b>TOTALS</b> | <b>730 (61%)</b> | <b>115 (10%)</b> | <b>353 (30%)</b> | <b>1198</b> |

14. Has the child been weighed in the last four months? Had to be seen on card but percents calculated on total population as all should have been weighed.

|              |                 |              |
|--------------|-----------------|--------------|
| Semuto       | 165/301         | (55%)        |
| Butuntumula  | 103/300         | (34%)        |
| Kakooge      | 22/300          | (7%)         |
| Makulubita   | 108/300         | (36%)        |
| -----        | -----           | -----        |
| <b>TOTAL</b> | <b>398/1201</b> | <b>(33%)</b> |

#### DIARRHEA CASE MANAGEMENT MODULE

15. Has this child had diarrhea in the past two weeks?

|              |                 |              |
|--------------|-----------------|--------------|
| Semuto       | 117/300         | (39%)        |
| Butuntumula  | 122/298         | (41%)        |
| Kakooge      | 124/296         | (42%)        |
| Makulubita   | 107/297         | (36%)        |
| -----        | -----           | -----        |
| <b>TOTAL</b> | <b>470/1191</b> | <b>(40%)</b> |

16. How much breast milk was given to this child when it had diarrhea as compared to usual? (Select out diarrhea = yes)

|                        | More             | Same             | Less            | Stop           | Not on Breast  |
|------------------------|------------------|------------------|-----------------|----------------|----------------|
| Semuto<br>n=117        | 34 (29%)         | 53 (45%)         | 20 (17%)        | 2 (2%)         | 8 (7%)         |
| Butuntumula<br>n=122   | 27 (22%)         | 57 (47%)         | 28 (23%)        | 1 (1%)         | 9 (7%)         |
| Kakooge<br>n=123       | 27 (22%)         | 50 (41%)         | 31 (25%)        | 4 (3%)         | 11 (9%)        |
| Makulubita<br>n=107    | 22 (21%)         | 50 (47%)         | 18 (17%)        | 3 (3%)         | 14 (13%)       |
| -----                  | -----            | -----            | -----           | -----          | -----          |
| <b>TOTAL<br/>n=469</b> | <b>110 (24%)</b> | <b>210 (45%)</b> | <b>97 (21%)</b> | <b>10 (2%)</b> | <b>42 (9%)</b> |

17. How much fluid did you give this child during its diarrhea compared to usual?

|                        | <b>More</b>      | <b>Same</b>      | <b>Less</b>     | <b>Stop</b>    | <b>Only on Breast</b> |
|------------------------|------------------|------------------|-----------------|----------------|-----------------------|
| Semuto<br>n=117        | 68 (58%)         | 28 (24%)         | 11 (9%)         | 1 (1%)         | 9 (8%)                |
| Butuntumula<br>n=122   | 66 (54%)         | 30 (25%)         | 18 (15%)        | 3 (3%)         | 5 (4%)                |
| Kakooge<br>n=124       | 54 (44%)         | 31 (25%)         | 25 (20%)        | 6 (5%)         | 8 (7%)                |
| Makulubita<br>n=107    | 40 (38%)         | 35 (33%)         | 22 (21%)        | 1 (1%)         | 8 (8%)                |
| -----                  | -----            | -----            | -----           | -----          | -----                 |
| <b>TOTAL<br/>n=469</b> | <b>228 (49%)</b> | <b>124 (26%)</b> | <b>76 (16%)</b> | <b>11 (2%)</b> | <b>30 (6%)</b>        |

The differences between the two sub-counties where the program was already established and the new sub-counties is significant to a p value of 0.01.

18. How much semi-solid food did you give the child during the episode of diarrhea compared to usual?

|                        | <b>More</b>     | <b>Same</b>      | <b>Less</b>      | <b>Stop</b>    | <b>Only on Breast</b> |
|------------------------|-----------------|------------------|------------------|----------------|-----------------------|
| Semuto<br>n=116        | 28 (24%)        | 29 (25%)         | 32 (28%)         | 6 (5%)         | 21 (18%)              |
| Butuntumula<br>n=120   | 21 (18%)        | 29 (24%)         | 39 (33%)         | 5 (4%)         | 26 (22%)              |
| Kakooge<br>n=123       | 22 (18%)        | 32 (26%)         | 30 (24%)         | 4 (3%)         | 35 (29%)              |
| Makulubita<br>n=104    | 14 (14%)        | 33 (32%)         | 32 (31%)         | 5 (5%)         | 20 (19%)              |
| -----                  | -----           | -----            | -----            | -----          | -----                 |
| <b>TOTAL<br/>n=463</b> | <b>85 (18%)</b> | <b>123 (27%)</b> | <b>133 (29%)</b> | <b>20 (4%)</b> | <b>102 (22%)</b>      |

The differences do not reach statistical significance.

19. When the child had diarrhea, what treatments, if any, did you use? (Select only those who answered yes to having diarrhea.)

|             | <b>Sem</b><br>n=117 | <b>But</b><br>n=122 | <b>Kak</b><br>n=124 | <b>Mak</b><br>n=107 | <b>Total</b><br>n=470 |
|-------------|---------------------|---------------------|---------------------|---------------------|-----------------------|
| None        | 27 (23%)            | 18 (15%)            | 25 (20%)            | 36 (34%)            | 106 (23%)             |
| ORS Sachet  | 46 (39%)            | 45 (37%)            | 53 (43%)            | 35 (33%)            | 179 (38%)             |
| SS Solution | 10 ( 9%)            | 11 ( 9%)            | 4 ( 3%)             | 6 ( 6%)             | 31 ( 7%)              |
| Cereal ORT  | 7 ( 6%)             | 4 ( 3%)             | 0 ( 0%)             | 0 ( 0%)             | 11 ( 2%)              |
| IV          | 2 ( 2%)             | 1 ( 1%)             | 2 ( 2%)             | 1 ( 1%)             | 6 ( 1%)               |
| Medicines   | 43 (37%)            | 65 (53%)            | 55 (44%)            | 33 (31%)            | 196 (42%)             |
| Other       | 15 (13%)            | 8 ( 7%)             | 5 ( 4%)             | 4 ( 4%)             | 32 ( 7%)              |

20. When the child had diarrhea did you seek treatment or advice?

|              |                |              |
|--------------|----------------|--------------|
| Semuto       | 73/116         | (63%)        |
| Butuntumula  | 87/122         | (71%)        |
| Kakooge      | 74/123         | (60%)        |
| Makulubita   | 60/107         | (56%)        |
| -----        | -----          | -----        |
| <b>TOTAL</b> | <b>294/468</b> | <b>(62%)</b> |

21. From where did you seek treatment or advice? (More than one answer possible. Select only those who answered yes to question 20.)

|                | <b>Sem</b><br>n=73 | <b>But</b><br>n= 87 | <b>Kak</b><br>n=74 | <b>Mak</b><br>n=60 | <b>Total</b><br>n=294 |
|----------------|--------------------|---------------------|--------------------|--------------------|-----------------------|
| Health unit    | 50 (68%)           | 62 (71%)            | 39 (53%)           | 29 (48%)           | 180 (61%)             |
| Private clinic | 8 (11%)            | 11 (13%)            | 7 ( 9%)            | 14 (23%)           | 40 (14%)              |
| Drug Shop      | 1 ( 1%)            | 3 ( 3%)             | 1 ( 1%)            | 0 ( 0%)            | 5 ( 2%)               |
| CHW            | 7 (10%)            | 2 ( 2%)             | 1 ( 1%)            | 0 ( 0%)            | 10 ( 3%)              |
| Trad. Healer   | 2 ( 3%)            | 3 ( 3%)             | 3 ( 4%)            | 2 ( 3%)            | 10 ( 3%)              |
| TBA            | 3 ( 4%)            | 0 ( 0%)             | 1 ( 1%)            | 0 ( 0%)            | 4 ( 1%)               |
| Relative       | 12 (16%)           | 11 (13%)            | 20 (27%)           | 15 (25%)           | 58 (19%)              |
| Other          | 0                  | 2 ( 2%)             | 1 ( 1%)            | 0 ( )%             | 3 ( 1%)               |

22. What signs or symptoms would cause you to seek treatment for diarrhea? (More than one answer possible per person.)

|                 | <b>Sem</b><br>n=301 | <b>But</b><br>n=300 | <b>Kak</b><br>n=300 | <b>Mak</b><br>n=300 | <b>Total</b><br>n=1201 |
|-----------------|---------------------|---------------------|---------------------|---------------------|------------------------|
| Do not know     | 31                  | 43                  | 35                  | 25                  | 134                    |
| Vomiting        | 41                  | 56                  | 49                  | 26                  | 173                    |
| Fever           | 54                  | 77                  | 55                  | 32                  | 218                    |
| Dehydrated      | 97                  | 86                  | 46                  | 59                  | 288                    |
| 14 day duration | 90                  | 109                 | 45                  | 70                  | 314                    |
| Bloody          | 36                  | 42                  | 26                  | 35                  | 139                    |
| No appetite     | 62                  | 76                  | 28                  | 24                  | 190                    |
| Weakness        | 158                 | 129                 | 84                  | 91                  | 462                    |
| Others          | 15                  | 10                  | 1                   | 4                   | 30                     |

#### RESPIRATORY CASE MANAGEMENT MODULE

23. Has the child had coughing or any difficulty with breathing in the past two weeks?

|              |                 |              |
|--------------|-----------------|--------------|
| Semuto       | 175/300         | (58%)        |
| Butuntumula  | 194/300         | (65%)        |
| Kakooge      | 151/298         | (51%)        |
| Makulubita   | 162/300         | (54%)        |
| -----        | -----           | -----        |
| <b>TOTAL</b> | <b>682/1199</b> | <b>(57%)</b> |

This question is aimed at defining milder respiratory infections.

24. Has the child had rapid and difficult breathing in the past two weeks? (Selected out those who answered yes to 23.)

|              |                |              |
|--------------|----------------|--------------|
| Semuto       | 86/173         | (50%)        |
| Butuntumula  | 107/193        | (55%)        |
| Kakooge      | 83/150         | (55%)        |
| Makulubita   | 73/160         | (46%)        |
| -----        | -----          | -----        |
| <b>TOTAL</b> | <b>349/676</b> | <b>(52%)</b> |

25. Did the mother seek treatment for the child's respiratory illness? (Selected out those who answered yes to both question 23 and 24.)

|              |                |              |
|--------------|----------------|--------------|
| Semuto       | 77/86          | (90%)        |
| Butuntumula  | 90/107         | (84%)        |
| Kakooge      | 76/83          | (92%)        |
| Makulubita   | 68/73          | (93%)        |
| -----        | -----          | -----        |
| <b>TOTAL</b> | <b>311/349</b> | <b>(89%)</b> |

26. What are the signs and symptoms of respiratory infection that would cause you to take the child to a health facility?

|               | <b>Sem</b><br><b>n=301</b> | <b>But</b><br><b>n=300</b> | <b>Kak</b><br><b>n=300</b> | <b>Mak</b><br><b>n=300</b> | <b>Total</b><br><b>n=1201</b> |
|---------------|----------------------------|----------------------------|----------------------------|----------------------------|-------------------------------|
| Do not know   | 28                         | 37                         | 23                         | 23                         | 111                           |
| Rapid breath. | 129                        | 140                        | 83                         | 107                        | 459                           |
| Indrawing     | 56                         | 54                         | 58                         | 29                         | 197                           |
| Can't eat     | 83                         | 67                         | 28                         | 26                         | 204                           |
| Fever         | 93                         | 92                         | 71                         | 81                         | 337                           |
| Cough         | 156                        | 160                        | 101                        | 104                        | 521                           |
| Other         | 46                         | 28                         | 11                         | 6                          | 91                            |

#### IMMUNIZATION MODULE

27. Has this child ever received an immunization of any type?

|              |                       |
|--------------|-----------------------|
| Semuto       | 256/301 (85%)         |
| Butuntumula  | 210/294 (71%)         |
| Kakooge      | 201/300 (67%)         |
| Makulubita   | 204/300 (68%)         |
| -----        | -----                 |
| <b>TOTAL</b> | <b>871/1195 (73%)</b> |

28. At what age should measles vaccine be given?

|             | <b>Sem</b><br><b>n=301</b> | <b>But</b><br><b>n=299</b> | <b>Kak</b><br><b>n=297</b> | <b>Mak</b><br><b>n=299</b> | <b>Total</b><br><b>n=1196</b> |
|-------------|----------------------------|----------------------------|----------------------------|----------------------------|-------------------------------|
| Too Young   | 28                         | 38                         | 61                         | 49                         | 176                           |
| Nine months | 230                        | 190                        | 126                        | 178                        | 724                           |
| Too Old     | 5                          | 9                          | 5                          | 1                          | 20                            |
| Do Not Know | 38                         | 63                         | 108                        | 72                         | 281                           |

29. How many tetanus toxoid injections does a pregnant woman need to protect the newborn infant from tetanus?

|      | <b>Sem</b><br><b>n=300</b> | <b>But</b><br><b>n=297</b> | <b>Kak</b><br><b>n=300</b> | <b>Mak</b><br><b>n=300</b> | <b>Total</b><br><b>n=1197</b> |
|------|----------------------------|----------------------------|----------------------------|----------------------------|-------------------------------|
| One  | 20 (7%)                    | 11 (4%)                    | 16 (5%)                    | 12 (4%)                    | 59 (5%)                       |
| Two  | 75 (25%)                   | 58 (20%)                   | 37 (12%)                   | 62 (21%)                   | 232 (19%)                     |
| > 2  | 167 (56%)                  | 196 (66%)                  | 201 (67%)                  | 172 (57%)                  | 736 (62%)                     |
| None | 1 (0%)                     | 1 (0%)                     | 0 (0%)                     | 4 (1%)                     | 6 (1%)                        |
| DNK  | 37 (12%)                   | 31 (10%)                   | 46 (15%)                   | 50 (17%)                   | 164 (14%)                     |

30. Does the child have an immunization card? (Card must be seen.)

|              |                       |
|--------------|-----------------------|
| Semuto       | 224/300 (75%)         |
| Butuntumula  | 162/297 (55%)         |
| Kakooge      | 151/299 (51%)         |
| Makulubita   | 155/300 (52%)         |
| -----        | -----                 |
| <b>TOTAL</b> | <b>692/1196 (58%)</b> |

31. Immunizations given as per immunization card. (Children over 11 months of age are selected)

|                  | <b>Sem</b><br>n=136 | <b>But</b><br>n=128 | <b>Kak</b><br>n=134 | <b>Mak</b><br>n=118 | <b>Total</b><br>n=516 |
|------------------|---------------------|---------------------|---------------------|---------------------|-----------------------|
| BCG              | 106 (78%)           | 80 (63%)            | 83 (62%)            | 67 (57%)            | 336 (65%)             |
| DPT1             | 107 (79%)           | 78 (61%)            | 89 (60%)            | 58 (49%)            | 323 (63%)             |
| DPT2             | 105 (77%)           | 69 (54%)            | 75 (56%)            | 47 (40%)            | 296 (57%)             |
| DPT3             | 99 (73%)            | 53 (41%)            | 62 (46%)            | 36 (31%)            | 250 (48%)             |
| OPV1             | 107 (79%)           | 77 (60%)            | 80 (60%)            | 58 (49%)            | 323 (63%)             |
| OPV2             | 105 (77%)           | 69 (54%)            | 76 (57%)            | 49 (42%)            | 299 (58%)             |
| OPV3             | 99 (73%)            | 49 (38%)            | 60 (45%)            | 36 (31%)            | 244 (47%)             |
| Measles          | 90 (66%)            | 48 (38%)            | 60 (45%)            | 31 (26%)            | 229 (44%)             |
| Completed Series | 84 (62%)            | 36 (28%)            | 50 (37%)            | 28 (24%)            | 198 (38.4%)           |

#### MATERNAL CARE MODULE

32. Does the mother have a maternal care card? (Must be seen)

|              |                       |
|--------------|-----------------------|
| Semuto       | 126/299 (42%)         |
| Butuntumula  | 100/298 (34%)         |
| Kakooge      | 114/299 (38%)         |
| Makulubita   | 108/300 (36%)         |
| -----        | -----                 |
| <b>TOTAL</b> | <b>448/1196 (38%)</b> |

33. Number of tetanus toxoid immunizations documented on the card.

|          | <b>Sem</b><br>n=128 | <b>But</b><br>n=100 | <b>Kak</b><br>n=111 | <b>Mak</b><br>n=108 | <b>Total</b><br>n=447 |
|----------|---------------------|---------------------|---------------------|---------------------|-----------------------|
| One      | 24 (18%)            | 8 (8%)              | 62 (56%)            | 79 (73%)            | 94 (21%)              |
| Two or > | 99 (77%)            | 91 (91%)            | 62 (56%)            | 79 (73%)            | 331 (74%)             |
| None     | 5 (4%)              | 1 (1%)              | 10 (9%)             | 6 (6%)              | 22 (5%)               |

This means that 331/1201 (28%) of the total sample had two or more tetanus immunizations documented. In the two sub-counties with established programmes this percentage was 32% and in the two new sub-counties it is 23.5%

34. What were the number of antenatal clinic visits documented on the card?

|          | <b>Sem</b><br>n=133 | <b>But</b><br>n=111 | <b>Kak</b><br>n=113 | <b>Mak</b><br>n=107 | <b>Total</b><br>n=464 |
|----------|---------------------|---------------------|---------------------|---------------------|-----------------------|
| One      | 13 (10%)            | 10 (9%)             | 23 (20%)            | 13 (12%)            | 59 (12%)              |
| Two or > | 118 (89%)           | 98 (88%)            | 86 (76%)            | 92 (86%)            | 394 (85%)             |
| None     | 2 (2%)              | 3 (3%)              | 4 (4%)              | 2 (2%)              | 11 (2%)               |



MINISTRY OF HEALTH  
GOVERNMENT OF UGANDA

- 1 You must receive 5 doses of TT for life long protection against Tetanus
- 2 TT is for all women of child bearing age, 15-45 years and pregnant mothers
- 3 This vaccine will protect your children at birth against Tetanus



## TETANUS TOXOID IMMUNISATION CARD

*Keep this Card safely and produce it every visit  
to a Health Facility*

14a

Name: \_\_\_\_\_

Age: \_\_\_\_\_

District: \_\_\_\_\_

|                  |  |
|------------------|--|
| Date of 1st dose |  |
| Date of 2nd dose |  |
| Date of 3rd dose |  |
| Date of 4th dose |  |
| Date of 5th dose |  |

**REMARKS:**

TT is given to women 15-45 years of age including pregnant women.

**TT1:**

At first contact or as early as possible during pregnancy

**TT2:**

At least 4 weeks after TT1 or during subsequent pregnancy

**TT3:**

At least 6 months after TT2 or during subsequent pregnancy

**TT4:**

At least 1 year after TT3 or during subsequent pregnancy

**TT5:**

At least 1 year after TT4 or during subsequent pregnancy

148

35. Is the mother of the child pregnant now?

|              |                       |
|--------------|-----------------------|
| Semuto       | 24/298 ( 8%)          |
| Butuntumula  | 38/297 (13%)          |
| Kakooge      | 46/300 (15%)          |
| Makulubita   | 33/300 (11%)          |
| -----        | -----                 |
| <b>TOTAL</b> | <b>414/1195 (12%)</b> |

36. Does the mother wish to have another baby within the next two years? (Select only those who answered no to whether they were pregnant or not.)

|              |                       |
|--------------|-----------------------|
| Semuto       | 135/268 (50%)         |
| Butuntumula  | 120/255 (47%)         |
| Kakooge      | 130/253 (51%)         |
| Makulubita   | 105/267 (39%)         |
| -----        | -----                 |
| <b>TOTAL</b> | <b>490/1043 (47%)</b> |

37. Are you using any type of family planning method currently? (Ask of those who answered no to both questions 35 and 36.)

|              |                       |
|--------------|-----------------------|
| Semuto       | 43/132 (33%)          |
| Butuntumula  | 39/135 (29%)          |
| Kakooge      | 30/118 (25%)          |
| Makulubita   | 51/158 (32%)          |
| -----        | -----                 |
| <b>TOTAL</b> | <b>163/ 543 (30%)</b> |

38. What is the main type of family planning used? (All records selected.)

|                     | Sem       | But       | Kak       | Mak       | Total      |
|---------------------|-----------|-----------|-----------|-----------|------------|
| Surgical            | 1         | 6         | 4         | 3         | 14         |
| Norplant            | 0         | 1         | 0         | 0         | 1          |
| Injections          | 17        | 9         | 8         | 10        | 44         |
| Pill                | 14        | 2         | 4         | 15        | 35         |
| IUD                 | 0         | 0         | 0         | 0         | 0          |
| Barrier             | 1         | 0         | 0         | 0         | 1          |
| Condom              | 4         | 0         | 2         | 1         | 7          |
| Foam/Gel            | 1         | 1         | 2         | 4         | 8          |
| <b>TOTAL MODERN</b> | <b>38</b> | <b>19</b> | <b>20</b> | <b>33</b> | <b>110</b> |
| Breast Only         | 6         | 9         | 2         | 10        | 27         |
| Rhythm              | 4         | 4         | 2         | 2         | 12         |
| Abstain             | 4         | 5         | 6         | 6         | 21         |
| Coitus Int.         | 1         | 0         | 0         | 0         | 1          |
| Other               | 2         | 6         | 0         | 0         | 8          |

Modern family planning methods were grouped to see what was the use of modern methods in the entire group.

| <b>Sem</b><br><b>n=301</b> | <b>But</b><br><b>n=300</b> | <b>Kak</b><br><b>n=300</b> | <b>Mak</b><br><b>n=300</b> | <b>Total</b><br><b>n=1201</b> |
|----------------------------|----------------------------|----------------------------|----------------------------|-------------------------------|
| 38 (13%)                   | 19 (6%)                    | 20 ( 7%)                   | 33 (11%)                   | 110 ( 9%)                     |

Modern family planning methods were separated out selecting those who answered no to the question whether they were pregnant now and whether they wanted a child in the next two years.

| <b>Sem</b><br><b>n=133</b> | <b>But</b><br><b>n=135</b> | <b>Kak</b><br><b>n=123</b> | <b>Mak</b><br><b>n=162</b> | <b>Total</b><br><b>n=553</b> |
|----------------------------|----------------------------|----------------------------|----------------------------|------------------------------|
| 31 (23%)                   | 17 (13%)                   | 20 (16%)                   | 33 (20%)                   | 101 (18%)                    |

39. When you were pregnant with this child did you visit any health site or health unit?

|              |                        |
|--------------|------------------------|
| Semuto       | 290/300 (97%)          |
| Butuntumula  | 285/298 (96%)          |
| Kakooge      | 267/295 (91%)          |
| Makulubita   | 253/299 (23%)          |
| -----        | -----                  |
| <b>TOTAL</b> | <b>1095/1192 (92%)</b> |

This would seem to indicate that antenatal care is obtained, but there is a serious deficit in retaining cards.

40. When you were pregnant what was the amount of food you ate compared to your usual food intake?

|      | <b>Sem</b><br><b>n=299</b> | <b>But</b><br><b>n=298</b> | <b>Kak</b><br><b>n=300</b> | <b>Mak</b><br><b>n=300</b> | <b>Total</b><br><b>n=1197</b> |
|------|----------------------------|----------------------------|----------------------------|----------------------------|-------------------------------|
| More | 54 (18%)                   | 52 (17%)                   | 47 (16%)                   | 37 (12%)                   | 190 (16%)                     |
| Same | 44 (15%)                   | 53 (18%)                   | 72 (24%)                   | 73 (24%)                   | 242 (20%)                     |
| Less | 196 (66%)                  | 192 (64%)                  | 181 (60%)                  | 187 (62%)                  | 757 (63%)                     |
| DNK  | 4 (1%)                     | 1 (0%)                     | 0 (0%)                     | 3 (1%)                     | 8 (1%)                        |

41. Who assisted in the delivery of this child? (Tied and cut the cord.)

|                     | <b>Sem</b><br>n=300 | <b>But</b><br>n=297 | <b>Kak</b><br>n=300 | <b>Mak</b><br>n=300 | <b>Total</b><br>n=1197 |
|---------------------|---------------------|---------------------|---------------------|---------------------|------------------------|
| Self                | 15 ( 5%)            | 13 ( 4%)            | 12 ( 4%)            | 12 ( 4%)            | 52 ( 4%)               |
| Family              | 30 (10%)            | 23 ( 8%)            | 63 (21%)            | 31 (10%)            | 147 (12%)              |
| TBA                 | 93 (31%)            | 74 (25%)            | 66 (22%)            | 91 (30%)            | 324 (27%)              |
| Health professional | 151 (50%)           | 170 (57%)           | 147 (49%)           | 163 (54%)           | 631 (53%)              |
| Other               | 11 (4%)             | 17 ( 6%)            | 12 (4%)             | 3 ( 1%)             | 43 ( 4%)               |

#### MALARIA MODULE

42.a. Has the child had malaria in the last two weeks?

|              |                       |
|--------------|-----------------------|
| Semuto       | 71/301 (23%)          |
| Butuntumula  | 102/299 (34%)         |
| Kakooge      | 136/300 (45%)         |
| Makulubita   | 68/300 (23%)          |
| -----        | -----                 |
| <b>TOTAL</b> | <b>377/1200 (31%)</b> |

42.b. Has the mother had malaria in the last two weeks?

|              |                       |
|--------------|-----------------------|
| Semuto       | 61/300 (20%)          |
| Butuntumula  | 57/298 (19%)          |
| Kakooge      | 71/300 (24%)          |
| Makulubita   | 58/300 (19%)          |
| -----        | -----                 |
| <b>TOTAL</b> | <b>247/1198 (21%)</b> |

43. Did you seek treatment for the child? (Select only those who answered yes to question 42.a.)

|              |                      |
|--------------|----------------------|
| Semuto       | 60/71 (85%)          |
| Butuntumula  | 90/100 (90%)         |
| Kakooge      | 103/126 (82%)        |
| Makulubita   | 62/67 (93%)          |
| -----        | -----                |
| <b>TOTAL</b> | <b>315/364 (87%)</b> |

44. Where did you seek treatment for the malaria? (Select only those who answered yes to question 42.a.)

|           | <b>Sem<br/>n=68</b> | <b>But<br/>n=94</b> | <b>Kak<br/>n=116</b> | <b>Mak<br/>n=63</b> | <b>Total<br/>n=341</b> |
|-----------|---------------------|---------------------|----------------------|---------------------|------------------------|
| Drug shop | 9 (13%)             | 25 (27%)            | 29 (25%)             | 3 (5%)              | 66 (19%)               |
| Hlth.Unit | 54 (79%)            | 67 (71%)            | 77 (66%)             | 54 (86%)            | 252 (74%)              |
| CHW       | 3 (4%)              | 2 (2%)              | 8 (7%)               | 4 (6%)              | 17 (5%)                |
| Trad.Heal | 0 (0%)              | 0 (0%)              | 0 (0%)               | 0 (0%)              | 0 (0%)                 |
| Other     | 2 (3%)              | 0 (0%)              | 2 (2%)               | 2 (3%)              | 6 (2%)                 |

45. What causes malaria? (more than one answer per person is possible.)

|                   | <b>Sem<br/>n=301</b> | <b>But<br/>n=300</b> | <b>Kak<br/>n=300</b> | <b>Mak<br/>n=300</b> | <b>Total<br/>n=1201</b> |
|-------------------|----------------------|----------------------|----------------------|----------------------|-------------------------|
| Bite of Mosquito  | 126                  | 139                  | 100                  | 91                   | 456                     |
| Bad Water         | 39                   | 43                   | 18                   | 63                   | 163                     |
| Some food         | 1                    | 0                    | 1                    | 1                    | 3                       |
| Mosquito presence | 28                   | 12                   | 8                    | 18                   | 66                      |
| Dirty conditions  | 22                   | 23                   | 17                   | 32                   | 94                      |
| DNK               | 76                   | 78                   | 153                  | 91                   | 398                     |
| Others            | 9                    | 3                    | 2                    | 2                    | 16                      |

46. How can malaria be prevented?

|                     | <b>Sem<br/>n=301</b> | <b>But<br/>n=300</b> | <b>Kak<br/>n=300</b> | <b>Mak<br/>n=300</b> | <b>Total<br/>n=1201</b> |
|---------------------|----------------------|----------------------|----------------------|----------------------|-------------------------|
| Nets                | 126                  | 92                   | 48                   | 18                   | 284                     |
| Burning leaves/dung | 28                   | 22                   | 14                   | 25                   | 89                      |
| Screening houses    | 5                    | 17                   | 10                   | 21                   | 53                      |
| Cut vegetation      | 24                   | 30                   | 25                   | 44                   | 123                     |
| Drain Stag. water   | 22                   | 14                   | 26                   | 50                   | 112                     |
| Medicines           | 21                   | 36                   | 78                   | 53                   | 188                     |
| DNK                 | 67                   | 51                   | 50                   | 39                   | 207                     |

**AIDS MODULE**

47. Have you ever heard of AIDS or slim?

|              |                  |
|--------------|------------------|
| Semuto       | 301/301          |
| Butuntumula  | 300/300          |
| Kakooge      | 296/300          |
| Makulubita   | 294/300          |
| -----        | -----            |
| <b>TOTAL</b> | <b>1191/1201</b> |

48. Have you ever seen or known anyone with AIDS?

|              |                  |              |
|--------------|------------------|--------------|
| Semuto       | 289/300          | (96%)        |
| Butuntumula  | 291/299          | (97%)        |
| Kakooge      | 265/300          | (88%)        |
| Makulubita   | 295/300          | (98%)        |
| -----        | -----            | -----        |
| <b>TOTAL</b> | <b>1140/1199</b> | <b>(95%)</b> |

49. How is AIDS spread?

Open ended question to be analyzed later.

50. Would you be at risk for AIDS if you shared living quarters with someone who had AIDS?

|              |                  |       |
|--------------|------------------|-------|
| Semuto       | 31/293           | (11%) |
| Butuntumula  | 34/287           | (12%) |
| Kakooge      | 33/299           | (11%) |
| Makulubita   | 46/298           | (15%) |
| -----        | -----            | ----- |
| <b>TOTAL</b> | <b>1191/1201</b> |       |

51. How can AIDS be prevented?

|                        | <b>Sem</b><br><b>n=301</b> | <b>But</b><br><b>n=300</b> | <b>Kak</b><br><b>n=300</b> | <b>Mak</b><br><b>n=300</b> | <b>Total</b><br><b>n=1201</b> |
|------------------------|----------------------------|----------------------------|----------------------------|----------------------------|-------------------------------|
| Abstinence             | 193                        | 200                        | 222                        | 236                        | 851                           |
| One partner            | 75                         | 54                         | 31                         | 33                         | 193                           |
| Sterile instruments    | 2                          | 3                          | 8                          | 4                          | 17                            |
| Avoid people with AIDS | 16                         | 15                         | 6                          | 5                          | 42                            |
| Condoms                | 7                          | 9                          | 10                         | 10                         | 36                            |
| Others                 | 8                          | 14                         | 11                         | 11                         | 44                            |
| DNK                    | 0                          | 0                          | 11                         | 1                          | 12                            |

The remaining questions were only present on the 1996 survey.

#### WATER AND SANITATION

52. Where do you get your water for this household?

|                    | Kakooge<br>n=300 | Makulubita<br>n=300 | Total<br>n=600 |
|--------------------|------------------|---------------------|----------------|
| Tap in compound    | 0                | 0                   | 0              |
| Tap in community   | 0                | 0                   | 0              |
| Protected spring   | 10 (3%)          | 11 (4%)             | 21 (4%)        |
| Unprotected spring | 27 (9%)          | 28 (9%)             | 55 (9%)        |
| Protected well     | 0                | 4 (1%)              | 4 (1%)         |
| Unprotected well   | 20 (7%)          | 89 (30%)            | 109 (18%)      |
| Borehole           | 79 (26%)         | 152 (51%)           | 231 (39%)      |
| Surface water      | 74 (25%)         | 15 (5%)             | 89 (15%)       |
| Valley Dam         | 88 (29%)         | 1 (0%)              | 89 (15%)       |
| Roof catchment     | 2 (1%)           | 0                   | 2 (0%)         |

53. Where do you dispose of the faeces and urine for this household?

|                     | Kakooge<br>n=300 | Makulubita<br>n=300 | Total<br>n=600 |
|---------------------|------------------|---------------------|----------------|
| Latrine in compound | 230 (77%)        | 273 (91%)           | 851 (71%)      |
| Shared latrine      | 10 ( 3%)         | 9 ( 3%)             | 19 ( 3%)       |
| Field/Bush          | 52 (17%)         | 16 ( 5%)            | 68 (11%)       |
| Flush toilet        | 0                | 1 ( 0%)             | 1 ( 0%)        |
| Others              | 1 (0%)           | 0                   | 1 ( 0%)        |
| DNK/No answer       | 7 ( 2%)          | 1 ( 0%)             | 8 ( 2%)        |

54. Is the latrine clean and hygienic?

|              |                      |
|--------------|----------------------|
| Kakooge      | 61/237 (26%)         |
| Makulubita   | 95/281 (33%)         |
| -----        | -----                |
| <b>TOTAL</b> | <b>156/518 (30%)</b> |

#### ORPHANS

55. Are there orphans in this household?

|            |                             |
|------------|-----------------------------|
| Kakooge    | 87 households answered yes  |
| Makulubita | 100 households answered yes |

56. How many orphans if the answer to question 55 was yes?

|                      | <b>Kakooge<br/>n=86</b> | <b>Makulubita<br/>n=100</b> | <b>Total<br/>n=186</b> |
|----------------------|-------------------------|-----------------------------|------------------------|
| One                  | 47                      | 44                          | 91                     |
| Two                  | 19                      | 23                          | 42                     |
| Three                | 7                       | 18                          | 25                     |
| Four                 | 3                       | 6                           | 9                      |
| Five                 | 6                       | 3                           | 9                      |
| Six                  | 2                       | 2                           | 4                      |
| Seven                | 1                       | 2                           | 3                      |
| Eight                | 1                       | 1                           | 2                      |
| Eleven               | 0                       | 1                           | 1                      |
| -----                |                         |                             |                        |
| <b>TOTAL ORPHANS</b> | <b>175</b>              | <b>228</b>                  | <b>403</b>             |

57. Are there any orphans in this household between the ages of 6-18?

|            |              |
|------------|--------------|
| Kakooge    | 72/83 (87%)  |
| Makulubita | 88/100 (88%) |

58. How many orphans between ages 6-18?

|              |            |
|--------------|------------|
| Kakooge      | 134        |
| Makulubita   | 169        |
| <b>TOTAL</b> | <b>303</b> |

59. How many of these children are in school?

|            |               |
|------------|---------------|
| Kakooge    | 100/134 (75%) |
| Makalubita | 136/169 (80%) |

#### **SOURCES OF HEALTH CARE, CONDOMS, AND MOSQUITO NETS**

61. Where have you spent money in the last month on health?

|                    | <b>Kakooge<br/>n=300</b> | <b>Makulubita<br/>n=300</b> | <b>Total<br/>n=600</b> |
|--------------------|--------------------------|-----------------------------|------------------------|
| Shop               | 38                       | 34                          | 72                     |
| Health Unit        | 85                       | 45                          | 130                    |
| NGO Health Unit    | 124                      | 155                         | 279                    |
| Private clinic     | 38                       | 43                          | 81                     |
| CHW/TBA/VHC        | 2                        | 2                           | 4                      |
| Traditional Healer | 3                        | 1                           | 4                      |
| Other              |                          | 4                           | 4                      |

63. Where can you purchase a condom in this community?

|                 | <b>Kakooge<br/>n=300</b> | <b>Makulubita<br/>n=300</b> | <b>Total<br/>n=600</b> |
|-----------------|--------------------------|-----------------------------|------------------------|
| Shop            | 62                       | 69                          | 131                    |
| Health Unit     | 26                       | 50                          | 76                     |
| CHW/TBA/VHC     | 3                        | 6                           | 9                      |
| Private clinic  | 5                        | 15                          | 20                     |
| FP Clinic       | 1                        | 3                           | 4                      |
| Others          | 0                        | 1                           | 1                      |
| Do not know any | 207                      | 163                         | 370                    |

64. Is any one in your house sleeping under a bed net?

|              |                     |
|--------------|---------------------|
| Kakooge      | 57/300 (19%)        |
| Makulubita   | 7/300 ( 2%)         |
| <b>TOTAL</b> | <b>64/600 (11%)</b> |

65. If yes, who is sleeping under a net?

|        | <b>Kakooge</b> | <b>Makulubita</b> | <b>Total</b> |
|--------|----------------|-------------------|--------------|
| Mother | 42             | 2                 | 44           |
| Child  | 29             | 3                 | 32           |
| Father | 30             | 1                 | 31           |
| Other  | 2              | 1                 | 3            |

66. Where can you buy a mosquito net in this community?

|                  | <b>Kakooge</b> | <b>Makulubita</b> | <b>Total</b> |
|------------------|----------------|-------------------|--------------|
| Shop             | 66             | 63                | 129          |
| Community worker | 5              | 2                 | 7            |
| NGO              | 0              | 1                 | 1            |
| Health Unit      | 4              | 12                | 16           |
| Market           | 120            | 17                | 147          |
| Other            | 6              | 3                 | 9            |
| Do not know      | 83             | 200               | 283          |

67. What do you think a mosquito net costs?

The mean was 10,093 US\$ with a range from 1,000-55,000 US\$ with a mode of 10,000 and a median of 10,000. 439 of 600 mothers did not know what a net would cost. If the households that stated that they slept under a net were selected, they felt that a net would cost an average of 9,867 US\$ with a range from 1,000-20,000 US\$.

## V. CONCLUSIONS

Baseline survey information has been gathered from four sub-counties in Luwero district to serve as a project planning and evaluation tool for a Child Survival and Orphans' Care project being implemented by AMREF and the local authorities. It indicates that where activities have been in place longer (Semuto sub-county) most indicators relating to Child Survival are better than in areas where the project is newer or just beginning.

It is noted that certain indicators, such as rates of completed immunizations, are far below the desired national coverage rates. This is quite disappointing, particularly for Semuto where activities have been on-going for several years. Consideration needs to be given to alternative strategies, as the strategy of multiple outreach immunisations does not seem to be reaching the desired level of coverage in the Ugandan setting. Certainly children are in health units frequently for other infections, and eliminating missed chances at health units are an important strategy.

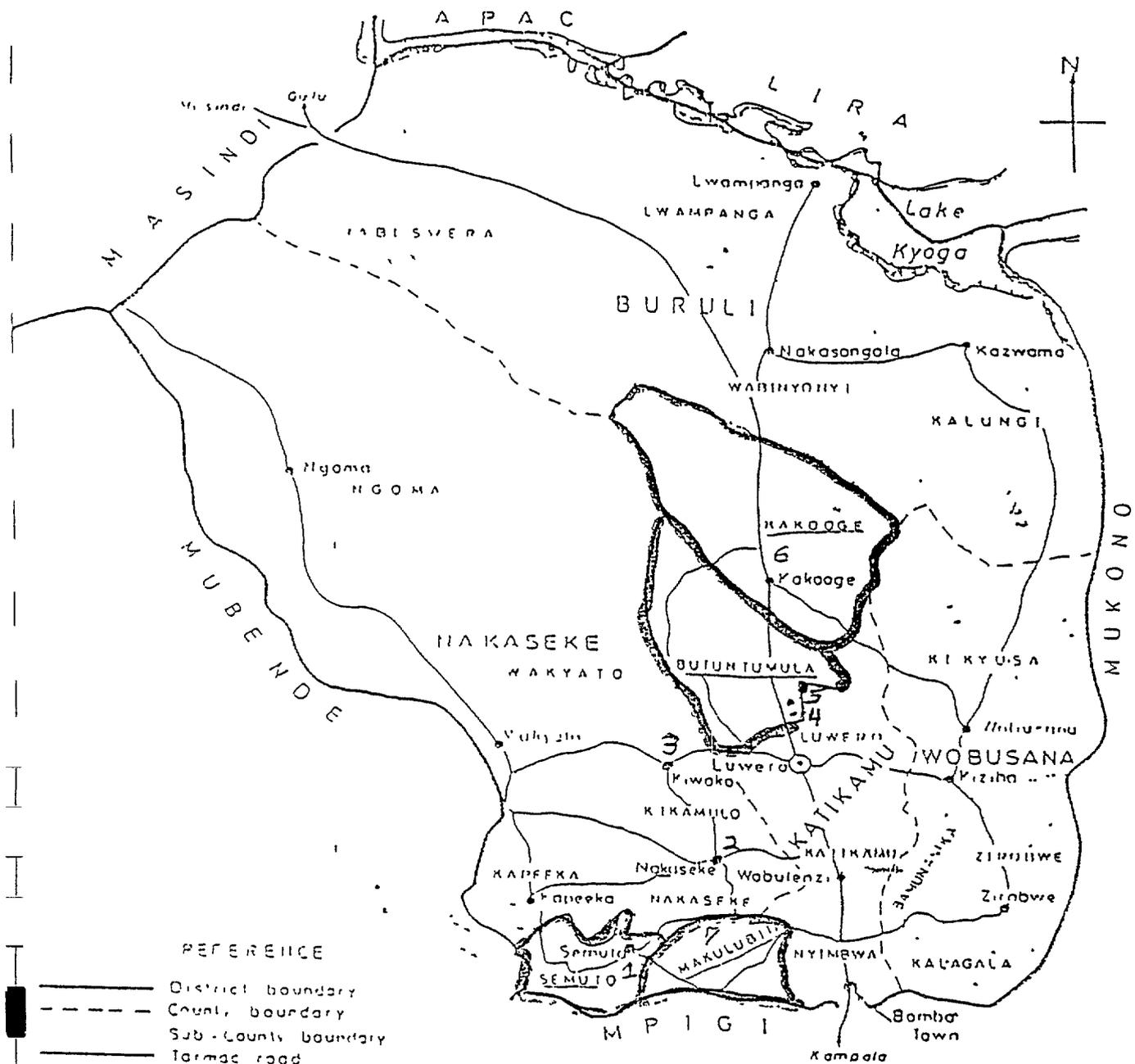
The fact that 19% of households in Kakooge had a mosquito net, purchased mainly from the market, is encouraging. The project will not want to introduce subsidised nets into the community, thus undermining this individual initiative. The project will want to introduce impregnation with insecticide, however.

Large amounts of money are being spent on health care according to the survey, and efforts must continue to see that it is spent more effectively on interventions that actually improve health.

Individual sub-county surveys are useful to identify differences, which can have an impact in programme design and evaluation. Repeat surveys will be conducted in 1999.

Information from the survey will be simplified and placed into vernacular so that it can be incorporated in community level planning exercises, which are an integral part of the community based strategies being used in this project.

# LUWERO DISTRICT



- 1 - Semuto Government Health Centre
- 2 - Nakaseke District Hosp. - Gov't.
- 3 - Kiwoko Mission (C-Section)
- 4 - Butuntumuta Sub-dispensary (Govt)
- 5 - Kaasala Mission - Dispensary, Maternity Unit
- 6 - Kakooge Dispensary
- 7 - Makulubita Dispensary