

**SOCIO-ECONOMIC DIFFERENCES
IN
HEALTH, NUTRITION, AND POPULATION**

**UGANDA
1995, 2000/01**

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FOREWORD

The World Bank shares the desire of its member states and client countries to ensure that the poor partake fully in the health gains that the countries achieve. To assist in this, the Bank, in cooperation with the Dutch and Swedish Governments, has sponsored the set of reports providing basic information about health inequalities within countries to which this document belongs.

The information shows clearly that disparities in both health conditions and health service use are unacceptably large. As countries and the Bank work to reduce important inequalities among regions and countries, there is a clear need for equally vigorous efforts to lessen the inequity represented by intra-country differences among socio-economic groups.

My colleagues and I hope that all concerned with equity in health will find this information useful in making the case for effective actions to improve the health of the poor, and in designing programs to achieve this crucial objective.

Joy Phumaphi
Vice President
Human Development Network
The World Bank

INTRODUCTION

This report is one in a series that provides basic information about health, nutrition, and population (hnp) inequalities within fifty-six developing countries.

The series to which the report belongs is an expanded and updated version of a set covering forty-five countries that was published in 2000. The fifty-six reports in the current series cover almost all DHS surveys undertaken during the period beginning in 1990 and ending with the date of the last survey for which data were publicly available as of June 2006.¹

The report's contents are intended to facilitate preparation of country analyses and the development of activities to benefit poor people. To this end, the report presents data about hnp status, service use, and related matters among individuals belonging to different socio-economic classes. The principal focus is on differences among groups of individuals defined in terms of the wealth or assets of the households where they reside. The source of data is the Demographic and Health Survey (DHS) program, a large, multi-country household survey project.

The figures in this and the other reports in the series draw on responses to questions about household wealth or assets included in the DHS questionnaire, which were similar for all the surveys covered. These responses served as the basis for the construction of a wealth index, which was used to rank individuals according to the index value for the household to which they belonged. The individuals were then divided into quintiles, and the mean value for each of up to approximately 120 indicators was calculated for each quintile.

The report is organized in four principal parts:

- Parts one and two, which constitute the report's core, consist of tables presenting quintile-specific data for each hnp indicator covered from the two most recent DHS surveys available at the time of the report's publication. In each part there are three sets of tables: the first provides quintile-specific information for the total population; the second presents data separately for quintiles of females and males; the third features quintile-specific information presented separately for rural and urban residents. Each of these sets is divided into four sections: one dealing with hnp status, the second with the use of hnp services, the third with hnp-related behavior, and the fourth with other hnp status determinants.

- Part three provides supplementary technical information designed to help readers understand the data presented in parts one and two. This information deals with such issues as how the covered hnp indicators were defined and how the quintile-specific estimates were derived.

- Parts four and five present supporting tables that deal with three of the technical matters covered in part three: the size of the sample for each indicator covered; the standard error

¹ The average interval of approximately two years between data collection and availability means that the latest surveys covered were conducted in 2005.

for each quintile-specific estimate in the total population; and the items used in constructing the wealth index, along with the weight assigned to each.

An additional, sixth part consists of three annexes, for readers interested in applying the approach used in the report or in learning more about the other reports in this series. The first annex is an annotated bibliography containing further information about the technical issues concerning the approach used in the report, and about employing that approach to examine additional issues using DHS or other data sets. The second shows how the report's approach can be applied to monitor the distribution of benefits from other hnp programs, and provides a tool for doing so. The third annex is a list of all fifty-six countries for which reports are available, along with an indication of how to obtain copies of the reports dealing with them.

The authors thank the Dutch and Swedish Governments for the generous support that made production of this report possible.

PART I. BASIC TABLES, 2000 / 01

A. TOTAL POPULATION

B. FEMALE AND MALE POPULATIONS

C. RURAL AND URBAN POPULATIONS

Notes:

- Each of the three sections referred to above consists of four divisions, presenting data for: I) hnp status; II) hnp service use; III) hnp-related individual and household behavior; and IV) other, underlying determinants of hnp status.
- Full definitions of all indicators covered in the tables are provided in section A of the technical notes found in part II.
- “na” appears in the table cells when data are not available, usually because the DHS survey concerned did not collect information about the indicator(s) in question.
- Figures in the tables shown within parentheses indicate the absence of adequate observations to produce acceptably reliable values. Asterisks appear when the number of observations was too small to justify the presentation even of figures within parentheses. (For further information, see the section on “Sampling Errors” in the presentation of data and methods in part II.B.) Asterisks also will be found in columns showing statistical indices of inequality when the amount of quintile-specific information available is inadequate to permit computation of the value for the index concerned.
- Female/male tables include only indicators relevant for both sexes; those pertaining to only one sex (e.g., fertility, women’s nutritional status, antenatal care, attended deliveries) have been omitted.

Uganda
2000 / 01 - TOTAL POPULATION

Part I: HNP STATUS

Indicator	Wealth Quintiles						Low/High Ratio	Low-High Diff. (Abs. Val.)	Concentration Index	
	Low	2nd	3rd	4th	High	Avg.			Value	Standard Errors
A. Childhood illness and mortality										
Infant mortality rate	105.7	98.3	94.5	81.0	60.2	89.4	1.76	45.50	-0.0919	0.0008
Under-five mortality rate	191.8	173.0	163.5	136.2	106.4	156.5	1.80	85.40	-0.1022	0.0007
Prevalence of fever	47.9	48.4	40.5	44.2	36.7	43.9	1.31	11.20	-0.0519	0.0080
Prevalence of diarrhea	25.3	22.8	17.2	16.3	14.4	19.6	1.76	10.90	-0.0954	0.0142
Prevalence of acute respiratory infection (ARI)	23.4	25.1	21.0	23.3	18.8	22.5	1.24	4.60	-0.0472	0.0131
B. Fertility										
Total fertility rate	8.5	8.2	7.5	6.3	4.1	6.9	2.07	4.40	-0.1306	0.0007
Adolescent fertility rate	225.0	226.0	204.0	149.0	112.0	178.0	2.01	113.00	-0.1449	0.0013
C. Nutritional status (%)										
<i>Children:</i>										
Moderate stunting	25.1	24.3	25.7	24.2	18.0	23.8	1.39	7.10	-0.0550	0.0136
Severe stunting	18.2	15.8	16.9	13.4	7.1	14.8	2.56	11.10	-0.1572	0.0180
Moderate underweight	21.4	19.5	19.7	15.0	9.8	17.6	2.18	11.60	-0.1318	0.0163
Severe underweight	6.0	6.6	4.9	3.9	1.9	4.9	3.16	4.10	-0.2195	0.0322
Mild anemia	22.1	19.5	19.1	20.5	20.5	20.3	1.08	1.60	-0.0086	0.0162
Moderate anemia	39.4	40.2	39.1	38.4	30.4	38.0	1.30	9.00	-0.0403	0.0104
Severe anemia	7.8	9.9	6.9	5.4	2.2	6.8	3.55	5.60	-0.1799	0.0278
<i>Women:</i>										
Malnutrition	15.4	14.6	9.2	9.1	4.9	10.4	3.14	10.50	-0.1970	0.0211
Mild anemia	24.9	24.0	23.0	23.5	15.9	22.1	1.57	9.00	-0.0863	0.0126
Moderate anemia	7.8	9.7	7.1	8.1	5.0	7.5	1.56	2.80	-0.0932	0.0238
Severe anemia	0.8	1.3	0.5	0.5	0.5	0.7	1.60	0.30	-0.1603	0.0749
D. Female circumcision (%)										
<i>Prevalence of circumcision:</i>										
Girls	na	na	na	na	na	na	na	na	na	na
Women	na	na	na	na	na	na	na	na	na	na
<i>Prevalence of occlusion:</i>										
Girls	*	*	*	*	*	*	*	*	*	*
Women	*	*	*	*	*	*	*	*	*	*
E. Sexually transmitted disease										
<i>Prevalence of genital discharge:</i>										
Women	7.9	9.6	9.9	13.6	13.2	10.9	0.60	5.30	0.0820	0.0194
Men	1.0	2.2	0.3	2.1	1.2	1.4	0.83	0.20	-0.0255	0.1043
<i>Prevalence of genital ulcer:</i>										
Women	6.4	7.8	7.3	12.9	14.7	10.0	0.44	8.30	0.1449	0.0205
Men	3.3	1.7	2.1	2.8	5.4	3.1	0.61	2.10	0.0916	0.0755

Uganda

2000 / 01 - TOTAL POPULATION

Part II: Intermediate Determinants of HNP Status - HNP SERVICE USE

Indicator	Wealth Quintiles						Low/High Ratio	Low-High Diff. (Abs. Val.)	Concentration Index	
	Low	2nd	3rd	4th	High	Avg.			Value	Standard Errors
A. Childhood immunization										
BCG coverage	73.8	77.6	76.5	82.7	85.3	78.7	0.87	11.50	0.0318	0.0075
Measles coverage	49.1	58.0	57.6	57.2	64.5	56.8	0.76	15.40	0.0516	0.0129
DPT coverage	34.9	45.2	51.4	47.7	55.1	46.1	0.63	20.20	0.0931	0.0161
Full basic coverage	26.5	38.0	39.6	39.5	42.6	36.7	0.62	16.10	0.0898	0.0190
No basic coverage	15.3	11.8	14.2	12.7	11.0	13.1	1.39	4.30	-0.0672	0.0382
Hepatitis B coverage	na	na	na	na	na	na	na	na	na	na
Yellow fever coverage	na	na	na	na	na	na	na	na	na	na
B. Treatment of childhood illnesses										
<i>Treatment of fever:</i>										
Medical treatment of fever	56.4	67.6	66.6	70.8	80.1	67.1	0.70	23.70	0.0614	0.0077
Treatment in a public facility	21.8	27.3	21.2	20.7	18.4	22.3	1.18	3.40	-0.0460	0.0200
Treatment in a private facility	33.6	39.2	43.8	49.2	61.0	43.7	0.55	27.40	0.1186	0.0123
<i>Treatment of acute respiratory infection (ARI):</i>										
Medical treatment of ARI	61.3	68.7	55.9	68.5	83.0	66.5	0.74	21.70	0.0450	0.0111
Treatment in a public facility	25.0	29.5	20.2	24.9	15.8	23.9	1.58	9.20	-0.0484	0.0260
Treatment in a private facility	35.2	37.4	32.6	42.7	65.5	40.9	0.54	30.30	0.1032	0.0180
<i>Treatment of diarrhea:</i>										
Use of oral rehydration therapy	49.5	51.5	49.5	54.5	68.5	53.1	0.72	19.00	0.0455	0.0156
Medical treatment of diarrhea	33.0	46.5	48.6	49.5	57.7	44.9	0.57	24.70	0.0986	0.0179
Treatment in a public facility	18.1	22.9	21.2	17.5	12.9	19.1	1.40	5.20	-0.0385	0.0321
Treatment in a private facility	14.5	23.5	26.4	31.3	43.0	25.1	0.34	28.50	0.2081	0.0278
C. Antenatal and delivery care										
<i>Antenatal care visits:</i>										
To a medically trained person	88.2	89.4	94.2	93.8	97.5	92.4	0.90	9.30	0.0181	0.0031
To a doctor	4.1	4.8	7.5	8.9	23.8	9.4	0.17	19.70	0.4201	0.0311
To a nurse or trained midwife	84.0	84.6	86.7	84.9	73.7	83.0	1.14	10.30	-0.0238	0.0043
Multiple visits to a medically trained person	58.5	62.9	67.6	73.6	85.7	69.0	0.68	27.20	0.0798	0.0055
<i>Antenatal care content:</i>										
Tetanus toxoid	65.8	62.8	70.9	70.1	79.9	69.5	0.82	14.10	0.0482	0.0055
Prophylactic antimalarial treatment	26.7	30.2	34.8	38.8	40.3	33.8	0.66	13.60	0.0778	0.0119
Iron supplementation	48.5	44.6	49.5	51.6	65.1	51.4	0.75	16.60	0.0619	0.0090
<i>Delivery attendance:</i>										
By a medically trained person	19.7	27.6	31.9	46.4	77.3	38.2	0.25	57.60	0.2972	0.0080
By a doctor	1.6	1.9	2.1	3.3	12.4	3.8	0.13	10.80	0.5645	0.0463
By a nurse or trained midwife	18.1	25.7	29.8	43.1	65.0	34.4	0.28	46.90	0.2680	0.0091
In a public facility	10.7	17.9	18.6	25.9	44.7	22.2	0.24	34.00	0.2947	0.0133
In a private facility	7.7	8.5	11.1	18.3	31.2	14.4	0.25	23.50	0.3314	0.0183
At home	80.5	72.6	68.8	53.4	22.3	61.9	3.61	58.20	-0.1827	0.0048
D. Contraceptive services										
<i>Contraceptive prevalence:</i>										
Women	11.3	9.3	11.9	19.5	40.6	18.2	0.28	29.30	0.3635	0.0182
Men	na	na	na	na	na	na	na	na	na	na

Uganda

2000 / 01 - TOTAL POPULATION

Part II: Intermediate Determinants of HNP Status - HNP SERVICE USE (Cont.)

Indicator	Wealth Quintiles						Low/High Ratio	Low-High Diff. (Abs. Val.)	Concentration Index	
	Low	2nd	3rd	4th	High	Avg.			Value	Standard Errors
D. Contraceptive services (cont.)										
<i>Source of contraception - public sector:</i>										
Women	27.7	44.0	38.2	37.2	36.9	36.7	0.75	9.20	0.0416	0.0244
Men	na	na	na	na	na	na	na	na	na	na
<i>Source of contraception - private sector:</i>										
Women	44.8	39.0	40.3	52.3	57.1	50.4	0.78	12.30	0.1676	0.0225
Men	na	na	na	na	na	na	na	na	na	na
E. Treatment of adult illnesses										
<i>Treatment of genital discharge, ulcer, sore:</i>										
Women	47.4	47.3	51.8	55.2	62.1	54.5	0.76	14.70	0.0692	0.0159
Men	*	*	*	*	(65.6)	64.3	*	*	*	*
<i>Treatment of genital discharge, ulcer, sore in public facilities:</i>										
Women	na	na	na	na	na	na	na	na	na	na
Men	*	*	*	*	(100.0)	100.0	*	*	*	*
<i>Voluntary counseling and testing for HIV/AIDS:</i>										
Women	2.2	3.2	5.2	8.1	20.3	8.4	0.11	18.10	0.4804	0.0237
Men	6.6	8.1	7.5	14.9	21.7	12.0	0.30	15.10	0.2783	0.0369

Uganda

2000 / 01 - TOTAL POPULATION

Part III: Intermediate Determinants of HNP Status - INDIVIDUAL AND HOUSEHOLD BEHAVIOR

Indicator	Wealth Quintiles						Low/High Ratio	Low-High Diff. (Abs. Val.)	Concentration Index	
	Low	2nd	3rd	4th	High	Avg.			Value	Standard Errors
A. Hygienic practices										
<i>Disposal of children's stools:</i>										
Sanitary disposal	59.2	69.0	79.2	87.5	89.8	76.0	0.66	30.60	0.0772	0.0050
<i>Handwashing:</i>										
Wash hands prior to preparing food	92.9	96.4	97.3	98.9	98.9	97.0	0.94	6.00	0.0099	0.0013
Handwashing facilities in household	2.2	2.4	3.9	5.3	8.8	4.5	0.25	6.60	0.4408	0.0361
B. Bednet ownership and use										
<i>Bednet ownership:</i>										
Bednet ownership	7.0	10.1	6.9	8.0	32.5	13.0	0.22	25.50	0.4659	0.0196
Treated bednet ownership	0.3	0.2	0.1	0.1	0.4	0.2	0.75	0.10	0.2560	0.1473
<i>Bednet use:</i>										
By children	6.3	7.3	5.8	4.9	23.3	9.4	0.27	17.00	0.4101	0.0317
By pregnant women	4.5	6.6	5.5	5.5	11.5	6.6	0.39	7.00	0.2456	0.0771
C. Breastfeeding										
Exclusive breastfeeding	72.6	88.8	73.1	78.8	58.7	74.9	1.24	13.90	-0.0443	0.0167
Timely complementary feeding	79.2	74.1	79.3	74.6	63.9	74.6	1.24	15.30	-0.0273	0.0150
Bottle-feeding	1.8	2.1	4.6	5.3	13.6	5.0	0.13	11.80	0.5484	0.0808
D. Micronutrient consumption										
<i>Iodized salt:</i>										
Availability of iodized salt in household	na	na	na	na	na	na	na	na	na	na
<i>Vitamin A:</i>										
Children	39.9	39.7	44.2	43.6	48.8	42.9	0.82	8.90	0.0447	0.0088
Women	5.6	7.5	9.4	14.5	21.7	11.3	0.26	16.10	0.3177	0.0254
E. Tobacco and alcohol use										
<i>Tobacco:</i>										
Women	6.0	4.9	3.9	2.0	0.4	3.3	15.00	5.60	-0.4211	0.0395
Men	36.7	28.3	26.1	21.3	14.4	25.2	2.55	22.30	-0.1678	0.0214
<i>Alcohol:</i>										
Women	6.8	7.4	5.6	3.9	5.3	5.8	1.28	1.50	-0.0462	0.0288
Men	32.4	24.3	23.0	20.4	14.6	22.8	2.22	17.80	-0.1074	0.0241
F. Sexual practices										
<i>Non-regular sexual partnerships:</i>										
Women	0.6	0.4	0.7	0.5	0.6	0.6	1.00	0.00	0.0822	0.0893
Men	7.0	6.4	7.0	9.5	14.1	8.9	0.50	7.10	0.2262	0.0441
<i>Condom usage with non-regular partner:</i>										
Women	*	*	*	*	*	(39.8)	*	*	*	*
Men	57.6	45.2	51.4	71.1	91.3	69.1	0.63	33.70	0.1550	0.0244
G. Domestic violence										
Ever experienced violence	na	na	na	na	na	na	na	na	na	na
Experienced violence in past year	na	na	na	na	na	na	na	na	na	na

Uganda
2000 / 01 - TOTAL POPULATION
Part IV: UNDERLYING DETERMINANTS OF HNP STATUS

Indicator	Wealth Quintiles						Low/High Ratio	Low-High Diff. (Abs. Val.)	Concentration Index	
	Low	2nd	3rd	4th	High	Avg.			Value	Standard Errors
A. Education										
<i>School completion:</i>										
Women	24.2	30.4	44.6	60.1	82.0	50.0	0.30	57.80	0.2603	0.0051
Men	47.4	58.8	62.6	75.7	87.5	67.5	0.54	40.10	0.1317	0.0041
<i>School participation:</i>										
Girls	68.8	70.9	80.3	87.5	91.9	80.2	0.75	23.10	0.0617	0.0049
Boys	67.3	72.7	78.0	82.2	92.0	78.3	0.73	24.70	0.0634	0.0051
B. Exposure to mass media										
<i>Newspaper readership:</i>										
Women	2.3	3.4	7.2	12.9	41.6	14.7	0.06	39.30	0.6183	0.0176
Men	*	*	*	*	*	*	*	*	*	*
<i>Radio listenership:</i>										
Women	18.7	34.0	50.5	64.7	86.5	52.6	0.22	67.80	0.2605	0.0056
Men	*	*	*	*	*	*	*	*	*	*
<i>Television viewership:</i>										
Women	1.1	0.5	2.3	3.8	35.0	9.7	0.03	33.90	0.8652	0.0288
Men	*	*	*	*	*	*	*	*	*	*
C. Knowledge and attitudes about HIV/AIDS										
<i>Knowledge about sexual transmission of HIV/AIDS:</i>										
Women	75.8	81.8	86.1	90.0	95.0	86.2	0.80	19.20	0.0409	0.0027
Men	90.4	92.2	93.9	95.5	98.1	94.1	0.92	7.70	0.0145	0.0030
<i>Knowledge about mother-to-child transmission of HIV/AIDS:</i>										
Women	79.5	76.3	82.7	83.4	91.8	81.3	0.87	12.30	0.0496	0.0031
Men	77.1	78.0	76.1	81.6	92.4	81.5	0.83	15.30	0.0407	0.0058
<i>Attitudes toward HIV/AIDS:</i>										
Women	55.6	56.7	54.4	48.0	32.9	49.7	1.69	22.70	-0.1169	0.0064
Men	58.8	58.8	58.7	55.4	32.1	53.0	1.83	26.70	-0.1024	0.0118
D. Status of women										
<i>Household decisionmaking:</i>										
Can seek own health care	43.6	41.3	40.1	41.3	52.7	44.2	0.83	9.10	0.0384	0.0078
Can seek children's health care	44.2	44.0	48.1	49.7	62.8	49.3	0.70	18.60	0.0749	0.0092
Can make daily household purchases	44.8	43.6	40.5	39.5	44.0	42.5	1.02	0.80	-0.0062	0.0079
Can make large household purchases	38.7	39.0	36.4	33.9	36.8	36.9	1.05	1.90	-0.0182	0.0090
Can make meal-related decisions	69.0	65.3	69.5	68.1	64.4	67.1	1.07	4.60	-0.0244	0.0050
<i>Freedom of movement:</i>										
Can travel to visit family, relatives	29.4	31.7	27.0	25.1	30.9	28.9	0.95	1.50	-0.0101	0.0109
<i>Other decisionmaking, attitudes:</i>										
Can decide how to spend own money	49.5	46.7	53.4	61.5	82.1	60.4	0.60	32.60	0.1312	0.0071
Can decide whether to have sex	94.9	94.3	96.4	96.4	97.3	95.9	0.98	2.40	-0.0025	0.0023
Justifies domestic violence	80.9	81.8	79.3	75.6	67.0	76.5	1.21	13.90	-0.0540	0.0041
E. Orphanhood										
Paternal orphan prevalence	8.9	8.6	9.3	10.1	11.3	9.6	0.79	2.40	0.0532	0.0140
Maternal orphan prevalence	3.4	4.2	5.2	5.6	7.6	5.2	0.45	4.20	0.1508	0.0193
Double orphan prevalence	1.4	1.8	2.1	2.6	3.5	2.2	0.40	2.10	0.1936	0.0291

Uganda
2000 / 01 - FEMALE / MALE POPULATIONS

Part I: HNP STATUS

Indicator	Wealth Quintiles - Female						Wealth Quintiles - Male					
	Low	2nd	3rd	4th	High	Avg.	Low	2nd	3rd	4th	High	Avg.
A. Childhood mortality and morbidity												
Infant mortality rate	111.7	83.9	87.8	79.4	55.3	85.2	99.6	112.2	101.4	82.4	65.0	93.4
Under-five mortality rate	191.6	160.0	152.9	128.0	102.7	149.4	192.0	185.7	174.2	144.1	110.0	163.5
Prevalence of fever	48.6	47.7	36.8	45.7	35.1	43.1	47.1	49.1	44.7	42.9	38.3	44.7
Prevalence of diarrhea	24.1	22.4	17.0	14.9	13.1	18.7	26.7	23.2	17.5	17.6	15.8	20.4
Prevalence of acute respiratory infection (ARI)	22.5	23.9	20.6	24.5	19.1	22.2	24.3	26.3	21.5	22.2	18.4	22.8
B. Nutritional status												
<i>Children:</i>												
Moderate stunting	24.0	22.3	24.2	26.4	16.9	23.1	26.3	26.3	27.4	22.3	19.1	24.6
Severe stunting	18.2	14.4	16.2	12.1	4.3	13.8	18.2	17.2	17.7	14.6	9.8	15.8
Moderate underweight	21.9	18.2	18.0	14.8	8.7	17.0	20.8	20.9	21.5	15.2	10.8	18.2
Severe underweight	5.6	5.3	4.9	2.5	2.0	4.3	6.4	8.0	4.8	5.1	1.8	5.5
Mild anemia	23.0	18.7	20.7	23.0	16.8	20.6	21.2	20.3	17.3	18.4	24.0	20.1
Moderate anemia	37.5	39.9	37.7	38.1	26.0	36.6	41.4	40.4	40.8	38.7	34.7	39.5
Severe anemia	8.6	9.6	6.0	5.2	1.9	6.7	6.9	10.3	8.0	5.6	2.5	7.0
C. Sexually transmitted disease												
<i>Prevalence of genital discharge:</i>												
Women	7.9	9.6	9.9	13.6	13.2	10.9						
Men							1.0	2.2	0.3	2.1	1.2	1.4
<i>Prevalence of genital ulcer:</i>												
Women	6.4	7.8	7.3	12.9	14.7	10.0						
Men							3.3	1.7	2.1	2.8	5.4	3.1

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2000 / 01 - FEMALE / MALE POPULATIONS

Part II: Intermediate Determinants of HNP Status - HNP SERVICE USE

Indicator	Wealth Quintiles - Female						Wealth Quintiles - Male					
	Low	2nd	3rd	4th	High	Avg.	Low	2nd	3rd	4th	High	Avg.
A. Childhood immunization												
BCG coverage	72.6	82.5	72.0	82.8	81.5	77.8	75.0	72.8	81.8	82.6	89.1	79.6
Measles coverage	43.7	66.4	56.9	60.7	61.7	57.4	54.7	49.7	58.5	54.8	67.4	56.2
DPT coverage	37.4	50.0	51.0	45.0	57.5	47.7	32.2	40.5	51.9	49.5	52.7	44.6
Full basic coverage	27.0	42.0	37.7	38.2	42.1	37.0	26.0	33.9	41.9	40.3	43.1	36.4
No basic coverage	17.7	9.1	17.9	13.2	12.6	14.2	12.9	14.5	9.9	12.3	9.3	12.1
Hepatitis B coverage	na	na	na	na	na	na	na	na	na	na	na	na
Yellow fever coverage	na	na	na	na	na	na	na	na	na	na	na	na
B. Treatment of childhood illnesses												
<i>Treatment of fever:</i>												
Medical treatment of fever	55.6	66.8	65.2	69.3	76.0	65.4	57.2	68.3	67.8	72.1	83.8	68.7
Treatment in a public facility	21.6	24.5	21.6	22.5	15.9	21.7	21.9	30.0	20.8	19.0	20.7	22.8
Treatment in a private facility	32.1	41.1	42.5	46.4	59.7	42.6	35.3	37.2	44.8	51.9	62.1	44.8
<i>Treatment of acute respiratory infection (ARI):</i>												
Medical treatment of ARI	60.4	65.4	58.3	66.6	78.9	65.0	62.1	71.9	53.4	70.3	87.3	68.0
Treatment in a public facility	25.6	25.6	25.5	26.2	16.5	24.4	24.4	33.3	14.7	23.6	15.0	23.4
Treatment in a private facility	32.6	37.5	31.0	40.2	61.6	39.1	37.7	37.2	34.4	45.1	69.5	42.8
<i>Treatment of diarrhea:</i>												
Use of oral rehydration therapy	49.7	47.1	51.3	51.0	72.0	52.1	49.3	55.8	47.5	57.1	65.7	54.1
Medical treatment of diarrhea	29.7	53.7	48.9	50.3	53.8	45.4	36.3	39.2	48.3	48.9	61.0	44.5
Treatment in a public facility	17.2	26.8	19.7	21.2	14.5	20.5	19.0	19.0	22.7	14.6	11.6	17.9
Treatment in a private facility	11.8	26.8	27.2	29.1	37.1	24.0	17.2	20.2	25.6	33.0	47.9	26.2
C. Contraceptive services												
<i>Contraceptive prevalence:</i>												
Women	11.3	9.3	11.9	19.5	40.6	18.2						
Men							na	na	na	na	na	na
<i>Source of contraception - public sector:</i>												
Women	27.7	44.0	38.2	37.2	36.9	36.7						
Men							na	na	na	na	na	na
<i>Source of contraception - private sector:</i>												
Women	44.8	39.0	40.3	52.3	57.1	50.4						
Men							na	na	na	na	na	na
D. Treatment of adult illnesses												
<i>Treatment of genital discharge, ulcer, sore:</i>												
Women	47.4	47.3	51.8	55.2	62.1	54.5						
Men							*	*	*	*	(65.6)	0.0
<i>Treatment of genital discharge, ulcer, sore in public facilities:</i>												
Women	na	na	na	na	na	na						
Men							na	na	na	na	na	na
<i>Voluntary counseling and testing for HIV/AIDS:</i>												
Women	2.2	3.2	5.2	8.1	20.3	8.4						
Men							6.6	8.1	7.5	14.9	21.7	12.0

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2000 / 01 - FEMALE / MALE POPULATIONS

Part III: Intermediate Determinants of HNP Status - INDIVIDUAL AND HOUSEHOLD BEHAVIOR

Indicator	Wealth Quintiles - Female						Wealth Quintiles - Male					
	Low	2nd	3rd	4th	High	Avg.	Low	2nd	3rd	4th	High	Avg.
A. Hygienic practices												
<i>Disposal of children's stools:</i>												
Sanitary disposal	59.2	69.0	79.2	87.5	89.8	76.0						
<i>Handwashing:</i>												
Wash hands prior to preparing food	92.9	96.4	97.3	98.9	98.9	97.0						
Handwashing facilities in household	2.2	2.4	3.9	5.3	8.8	4.5						
B. Bednet ownership and use												
<i>Bednet use:</i>												
By children	6.3	7.3	5.8	4.9	23.3	9.4						
C. Breastfeeding												
Exclusive breastfeeding	(75.2)	(85.1)	(71.4)	(72.1)	60.5	73.0	(69.9)	(92.5)	(74.7)	(84.2)	(56.5)	76.7
Timely complementary feeding	(71.1)	77.3	(81.3)	(77.3)	69.0	75.6	(85.5)	(70.0)	(77.5)	(72.4)	60.4	73.8
Bottle-feeding	2.1	0.8	5.3	6.4	14.2	5.0	1.5	3.4	3.9	4.4	13.1	4.9
D. Micronutrient consumption												
<i>Vitamin A:</i>												
Children	37.8	40.8	45.1	44.9	50.6	43.4	42.0	38.6	43.3	42.5	47.0	42.5
E. Tobacco and alcohol use												
<i>Tobacco:</i>												
Women	6.0	4.9	3.9	2.0	0.4	3.3						
Men							36.7	28.3	26.1	21.3	14.4	25.2
<i>Alcohol:</i>												
Women	6.8	7.4	5.6	3.9	5.3	5.8						
Men							32.4	24.3	23.0	20.4	14.6	22.8
F. Sexual practices												
<i>Non-regular sexual partnerships:</i>												
Women	0.6	0.4	0.7	0.5	0.6	0.6						
Men							7.0	6.4	7.0	9.5	14.1	8.9
<i>Condom usage with non-regular partner:</i>												
Women	*	*	*	*	*	(39.8)						
Men							57.6	45.2	51.4	71.1	91.3	69.1

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2000 / 01 - FEMALE / MALE POPULATIONS

Part IV: UNDERLYING DETERMINANTS OF HNP STATUS

Indicator	Wealth Quintiles - Female						Wealth Quintiles - Male					
	Low	2nd	3rd	4th	High	Avg.	Low	2nd	3rd	4th	High	Avg.
A. Education												
<i>School completion:</i>												
Women	24.2	30.4	44.6	60.1	82.0	50.0						
Men							47.4	58.8	62.6	75.7	87.5	67.5
<i>School participation:</i>												
Girls	68.8	70.9	80.3	87.5	91.9	80.2						
Boys							67.3	72.7	78.0	82.2	92.0	78.3
B. Exposure to mass media												
<i>Newspaper readership:</i>												
Women	2.3	3.4	7.2	12.9	41.6	14.7						
Men							*	*	*	*	*	*
<i>Radio listenership:</i>												
Women	18.7	34.0	50.5	64.7	86.5	52.6						
Men							*	*	*	*	*	*
<i>Television viewership:</i>												
Women	1.1	0.5	2.3	3.8	35.0	9.7						
Men							*	*	*	*	*	*
C. Knowledge and attitudes about HIV/AIDS												
<i>Knowledge about sexual transmission of HIV/AIDS:</i>												
Women	75.8	81.8	86.1	90.0	95.0	86.2						
Men							90.4	92.2	93.9	95.5	98.1	94.1
<i>Knowledge about mother-to-child transmission of HIV/AIDS:</i>												
Women	79.5	76.3	82.7	83.4	91.8	81.3						
Men							77.1	78.0	76.1	81.6	92.4	81.5
<i>Attitudes toward HIV/AIDS:</i>												
Women	55.6	56.7	54.4	48.0	32.9	49.7						
Men							58.8	58.8	58.7	55.4	32.1	53.0
D. Orphanhood												
Paternal orphan prevalence	8.9	8.6	9.2	10.2	12.4	9.8	9.0	8.6	9.4	10.1	10.1	9.4
Maternal orphan prevalence	3.5	3.6	5.5	6.5	7.5	5.3	3.4	4.7	4.9	4.7	7.6	5.0
Double orphan prevalence	1.4	1.5	1.8	2.8	3.4	2.2	1.4	2.1	2.3	2.3	3.5	2.3

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2000 / 01 - RURAL / URBAN POPULATIONS

Part I: HNP STATUS

Indicator	Wealth Quintiles - Rural						Wealth Quintiles - Urban					
	Low	2nd	3rd	4th	High	Avg.	Low	2nd	3rd	4th	High	Avg.
A. Childhood illness and mortality												
Infant mortality rate	105.5	98.8	94.5	79.8	77.2	93.7	*	*	*	(95.9)	44.9	54.5
Under-five mortality rate	191.4	173.3	164.3	134.2	128.9	163.4	*	*	*	(160.6)	85.8	100.6
Prevalence of fever	48.0	48.6	40.4	44.9	42.5	45.3	(38.4)	(21.0)	47.1	35.7	31.9	32.9
Prevalence of diarrhea	25.3	22.8	17.3	16.0	14.3	20.1	(28.2)	(22.0)	15.3	20.0	14.6	15.5
Prevalence of acute respiratory infection	23.4	25.2	21.1	23.7	18.9	23.0	(15.6)	(10.9)	19.7	18.6	18.7	18.6
B. Fertility												
Total fertility rate	8.5	8.2	7.5	6.4	(4.8)	7.4	*	*	*	*	3.7	4.0
Adolescent fertility rate	225.0	227.0	205.0	147.0	(112.0)	192.0	*	*	*	*	112.0	119.1
C. Nutritional status												
<i>Children:</i>												
Moderate stunting	25.1	24.3	25.7	23.9	18.5	24.3	*	*	*	27.5	17.5	19.4
Severe stunting	18.2	15.8	16.9	13.9	8.1	15.6	*	*	*	7.5	6.1	7.1
Moderate underweight	21.4	19.5	19.7	15.1	10.2	18.4	*	*	*	14.5	9.3	10.6
Severe underweight	5.9	6.6	4.8	4.1	2.6	5.2	*	*	*	2.1	1.2	1.8
Mild anemia	22.2	19.5	19.1	20.2	21.9	20.4	*	*	22.2	23.9	19.1	19.8
Moderate anemia	39.5	40.1	39.3	39.0	32.0	38.9	*	*	32.7	29.6	28.8	29.1
Severe anemia	7.8	10.0	7.0	5.5	2.6	7.3	*	*	2.5	4.3	1.8	2.2
<i>Women:</i>												
Malnutrition	15.3	14.6	9.2	9.3	6.3	11.5	*	*	*	6.8	4.0	4.7
Mild anemia	25.0	24.1	23.0	24.2	16.8	23.3	(14.5)	(13.4)	21.2	15.8	15.2	15.4
Moderate anemia	7.8	9.6	7.1	8.2	5.1	7.9	(9.7)	(19.8)	4.6	7.1	4.9	5.4
Severe anemia	0.8	1.3	0.5	0.6	0.9	0.8	0.0	(4.1)	1.9	0.0	0.3	0.4
D. Female circumcision												
<i>Prevalence of circumcision:</i>												
Girls	na	na	na	na	na	na	na	na	na	na	na	na
Women	na	na	na	na	na	na	na	na	na	na	na	na
<i>Prevalence of occlusion:</i>												
Girls	*	*	*	*	*	*	*	*	*	*	*	*
Women	*	*	*	*	*	*	*	*	*	*	*	*
E. Sexually transmitted disease												
<i>Prevalence of genital discharge:</i>												
Women	7.9	9.6	10.0	13.5	13.3	10.5	(8.2)	(7.8)	5.7	14.2	13.1	12.9
Men	1.0	2.2	0.3	2.2	2.4	1.5	*	*	0.0	1.6	0.6	0.7
<i>Prevalence of genital ulcer:</i>												
Women	6.4	7.8	7.2	12.6	15.8	9.2	0.0	(10.6)	9.5	16.0	14.0	13.9
Men	3.3	1.7	2.0	2.8	7.8	2.9	*	*	(5.8)	2.8	4.2	4.0

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2000 / 01 - RURAL / URBAN POPULATIONS

Part II: Intermediate Determinants of HNP Status - HNP SERVICE USE

Indicator	Wealth Quintiles - Rural						Wealth Quintiles - Urban					
	Low	2nd	3rd	4th	High	Avg.	Low	2nd	3rd	4th	High	Avg.
A. Childhood immunization												
BCG coverage	73.8	77.6	76.1	81.8	76.7	77.0	*	*	*	92.2	91.9	91.9
Measles coverage	49.0	58.0	57.3	56.9	58.1	55.3	*	*	*	60.1	69.5	68.4
DPT coverage	35.0	45.0	51.0	44.9	48.3	44.5	*	*	*	47.6	60.4	59.1
Full basic coverage	26.6	37.8	39.6	40.0	41.5	36.0	*	*	*	33.0	43.5	42.1
No basic coverage	15.4	11.8	14.5	13.5	16.5	14.0	*	*	*	3.5	6.7	6.2
Hepatitis B coverage	na	na	na	na	na	na	na	na	na	na	na	na
Yellow fever coverage	na	na	na	na	na	na	na	na	na	na	na	na
B. Treatment of childhood diseases												
<i>Treatment of fever:</i>												
Medical treatment of fever	56.5	67.5	66.0	70.6	78.7	65.8	*	*	(90.4)	72.9	81.6	80.3
Treatment in a public facility	21.9	27.2	21.3	20.8	22.1	23.0	*	*	(15.8)	19.0	14.3	15.0
Treatment in a private facility	33.6	39.1	43.0	49.2	56.3	41.8	*	*	(72.5)	50.0	66.1	63.7
<i>Treatment of acute respiratory infection (ARI):</i>												
Medical treatment of ARI	61.3	68.8	55.7	68.8	81.3	65.1	*	*	*	(64.2)	84.4	80.4
Treatment in a public facility	25.1	29.6	20.3	25.2	14.9	24.6	*	*	*	(20.6)	16.5	16.8
Treatment in a private facility	35.1	37.3	32.5	43.0	65.8	38.9	*	*	*	(38.6)	65.3	60.6
<i>Treatment of diarrhea:</i>												
Use of oral rehydration therapy	49.4	51.3	49.6	53.4	69.8	51.8	*	*	*	(65.9)	67.5	66.6
Medical treatment of diarrhea	33.2	46.3	48.3	48.4	47.9	43.0	*	*	*	(59.9)	65.6	63.9
Treatment in a public facility	18.2	23.0	21.3	18.0	15.9	20.0	*	*	*	(11.7)	10.5	10.7
Treatment in a private facility	14.5	23.3	25.9	29.6	29.9	22.5	*	*	*	(48.2)	53.6	52.1
C. Antenatal and delivery care												
<i>Antenatal care visits:</i>												
To a medically trained person	88.2	89.3	94.3	93.8	97.6	91.8	*	*	92.9	94.5	97.5	96.8
To a doctor	4.1	4.8	7.5	8.4	17.7	7.1	*	*	7.9	14.7	28.4	25.5
To a nurse or trained midwife	84.1	84.5	86.7	85.4	79.9	84.7	*	*	85.0	79.8	69.1	71.3
Multiple visits to a medically trained person	58.5	62.9	67.6	73.2	85.0	66.9	*	*	70.0	78.7	86.2	84.1
<i>Antenatal care content:</i>												
Tetanus toxoid	65.8	62.8	70.9	69.7	75.9	67.9	*	*	72.4	73.9	83.0	81.2
Prophylactic antimalarial treatment	26.7	30.2	34.9	38.9	42.4	33.2	*	*	28.2	38.3	38.6	37.8
Iron supplementation	48.5	44.7	49.7	51.1	62.4	49.6	*	*	40.3	56.4	67.1	64.2
<i>Delivery attendance:</i>												
By a medically trained person	19.5	27.5	31.5	45.1	67.3	33.1	(44.3)	(37.9)	51.1	62.4	85.9	80.3
By a doctor	1.6	1.9	2.1	3.2	6.8	2.5	(2.3)	(2.8)	0.0	3.3	17.1	14.3
By a nurse or trained midwife	17.9	25.6	29.3	41.9	60.5	30.6	(42.0)	(35.1)	51.1	59.1	68.8	66.1
In a public facility	10.6	17.8	18.3	24.8	37.9	19.1	(21.3)	(35.8)	32.4	40.8	50.5	48.0
In a private facility	7.6	8.5	11.0	18.2	27.8	12.4	(23.0)	(2.1)	16.2	20.6	34.2	31.2
At home	80.7	72.6	69.3	54.7	31.7	67.0	(55.7)	(62.1)	47.8	36.8	14.2	19.6
D. Contraceptive services												
<i>Contraceptive prevalence:</i>												
Women	11.3	9.3	11.9	44.9	34.3	14.7	*	*	(17.7)	21.7	45.2	41.6
Men	na	na	na	na	na	na	na	na	na	na	na	na

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2000 / 01 - RURAL / URBAN POPULATIONS

Part II: Intermediate Determinants of HNP Status - HNP SERVICE USE (Cont.)

Indicator	Wealth Quintiles - Rural						Wealth Quintiles - Urban					
	Low	2nd	3rd	4th	High	Avg.	Low	2nd	3rd	4th	High	Avg.
D. Contraceptive services (cont.)												
<i>Source of contraception - public sector:</i>												
Women	27.5	44.6	37.8	37.7	34.4	36.2	*	*	*	(29.7)	38.2	37.8
Men	na	na	na	na	na	na	na	na	na	na	na	na
<i>Source of contraception - private sector:</i>												
Women	44.8	38.6	40.4	51.3	57.6	47.6	*	*	*	(64.8)	56.9	57.1
Men	na	na	na	na	na	na	na	na	na	na	na	na
E. Treatment of adult illnesses												
<i>Treatment of genital discharge, ulcer, sore:</i>												
Women	47.2	47.6	52.6	53.6	59.7	52.0	*	*	*	67.9	63.7	63.4
Men	*	*	*	*	*	62.8	0.0	0.0	*	*	(69.1)	(70.8)
<i>Treatment of genital discharge, ulcer, sore in public facilities:</i>												
Women	na	na	na	na	na	na	na	na	na	na	na	na
Men	*	*	*	*	*	100.0	*	*	*	*	(100.0)	(100.0)
<i>Voluntary counseling and testing for HIV/AIDS:</i>												
Women	2.2	3.1	5.2	7.8	13.2	5.5	0.0	(13.2)	5.3	11.1	25.0	22.7
Men	6.7	8.2	7.7	15.8	19.3	10.4	*	*	(1.0)	8.2	23.1	19.9

Uganda

2000 / 01 - RURAL / URBAN POPULATIONS

Part III: Intermediate Determinants of HNP Status - INDIVIDUAL AND HOUSEHOLD BEHAVIOR

Indicator	Wealth Quintiles - Rural						Wealth Quintiles - Urban					
	Low	2nd	3rd	4th	High	Avg.	Low	2nd	3rd	4th	High	Avg.
A. Hygienic practices												
<i>Disposal of children's stools:</i>												
Sanitary disposal	na	na	na	44.9	na	na	na	na	na	na	na	na
<i>Handwashing:</i>												
Wash hands prior to preparing food	92.9	96.4	97.3	98.9	99.0	96.6	(94.8)	(93.9)	97.0	98.9	98.9	98.8
Handwashing facilities in household	2.3	2.4	3.9	4.9	6.6	3.6	0.0	1.7	3.1	7.6	10.1	9.3
B. Bednet ownership and use												
<i>Bednet ownership:</i>												
Bednet ownership	7.0	10.1	6.9	7.4	22.0	9.2	(2.9)	5.3	5.5	13.2	38.7	33.3
Treated bednet ownership	0.3	0.2	0.1	0.2	0.5	0.2	0.0	0.0	0.0	0.0	0.4	0.3
<i>Bednet use:</i>												
By children	6.3	7.2	5.8	4.5	15.7	6.9	*	(12.0)	4.5	9.1	29.0	25.2
By pregnant women	4.5	6.7	5.1	4.8	10.0	5.8	*	*	*	(16.5)	13.0	13.3
C. Breastfeeding												
Exclusive breastfeeding	72.7	88.7	73.0	81.3	(58.4)	76.4	*	*	*	*	59.2	60.2
Timely complementary feeding	78.9	74.2	79.1	75.6	(68.9)	76.3	*	*	*	*	60.4	62.2
Bottle-feeding	1.8	2.2	4.4	5.1	8.3	3.6	*	*	*	7.7	17.3	15.5
D. Micronutrient consumption												
<i>Iodized salt:</i>												
Availability of iodized salt in household	na	na	na	na	na	na	na	na	na	na	na	na
<i>Vitamin A:</i>												
Children	40.0	39.7	44.3	43.5	50.0	42.4	*	(51.3)	42.9	46.1	47.7	47.0
Women	5.5	7.5	9.4	14.2	18.2	9.7	*	*	8.4	17.2	24.3	22.7
E. Tobacco and alcohol use												
<i>Tobacco:</i>												
Women	6.0	4.9	3.9	1.9	0.5	3.8	(11.7)	(11.0)	3.3	2.1	0.3	0.8
Men	36.3	28.4	26.4	19.8	10.4	26.3	*	*	(17.3)	32.7	16.7	19.6
<i>Alcohol:</i>												
Women	6.8	7.4	5.4	3.8	4.1	5.7	(14.9)	(2.3)	15.9	4.9	6.2	6.3
Men	32.2	24.3	23.1	19.9	12.2	23.8	*	*	(19.3)	24.1	16.0	17.7
F. Sexual practices												
<i>Non-regular sexual partnerships:</i>												
Women	0.6	0.4	0.7	44.9	0.8	0.6	0.0	0.0	1.8	1.2	0.5	0.6
Men	7.0	6.3	7.2	8.4	9.2	7.4	*	*	0.0	17.9	16.9	16.4
<i>Condom usage with non-regular partner:</i>												
Women	*	*	*	*	*	(35.0)	*	*	*	*	*	*
Men	57.6	45.0	51.4	71.9	76.0	59.4	*	*	*	68.1	96.1	90.9
G. Domestic violence												
Ever experienced violence	na	na	na	na	na	na	na	na	na	na	na	na
Experienced violence in past year	na	na	na	na	na	na	na	na	na	na	na	na

Uganda

2000 / 01 - RURAL / URBAN POPULATIONS

Part IV: UNDERLYING DETERMINANTS OF HNP STATUS

Indicator	Wealth Quintiles - Rural						Wealth Quintiles - Urban					
	Low	2nd	3rd	4th	High	Avg.	Low	2nd	3rd	4th	High	Avg.
A. Education												
<i>School completion:</i>												
Women	24.2	30.4	44.7	44.9	79.6	44.2	(16.6)	(31.3)	37.7	57.8	83.8	78.8
Men	47.6	58.9	62.7	76.2	85.3	63.8	(27.7)	(53.9)	57.6	71.2	88.8	85.4
<i>School participation:</i>												
Girls	68.9	70.8	80.3	88.6	91.8	79.2	*	*	(83.3)	72.6	92.1	88.5
Boys	67.3	72.6	77.7	82.6	91.3	76.9	*	*	(90.7)	76.6	92.8	90.2
B. Exposure to mass media												
<i>Newspaper readership:</i>												
Women	2.3	3.3	7.1	12.1	31.4	9.0	*	*	(9.0)	21.2	48.3	43.7
Men	*	*	*	*	*	*	*	*	*	*	*	*
<i>Radio listenership:</i>												
Women	18.7	34.0	50.8	64.8	87.0	46.8	*	*	(37.5)	64.1	86.2	81.5
Men	*	*	*	*	*	*	*	*	*	*	*	*
<i>Television viewership:</i>												
Women	1.1	0.5	2.3	3.3	24.8	4.4	*	*	(0.6)	8.2	41.7	36.5
Men	*	*	*	*	*	*	*	*	*	*	*	*
C. Knowledge and attitudes about HIV/AIDS												
<i>Knowledge about sexual transmission of HIV/AIDS:</i>												
Women	75.8	81.7	86.1	90.0	94.3	84.5	(73.7)	(90.1)	82.9	90.1	95.4	94.3
Men	90.4	92.1	94.1	95.9	97.7	93.5	*	*	(85.3)	92.8	98.2	97.1
<i>Knowledge about mother-to-child transmission of HIV/AIDS:</i>												
Women	69.7	76.3	82.7	83.3	89.8	79.2	(72.3)	(82.7)	81.7	84.1	93.1	91.6
Men	78.4	78.0	75.8	81.7	93.7	79.9	*	*	(86.0)	80.4	91.6	89.5
<i>Attitudes toward HIV/AIDS:</i>												
Women	60.9	56.9	54.6	49.0	36.0	53.3	(47.9)	(30.0)	44.7	37.7	30.8	32.0
Men	61.5	58.8	58.3	55.6	35.3	56.5	*	*	(72.3)	54.1	30.3	35.4
D. Status of women												
<i>Household decisionmaking:</i>												
Can seek own health care	43.6	41.2	39.7	44.9	46.4	41.7	(51.5)	(48.2)	60.4	57.1	56.8	56.8
Can seek children's health care	44.1	43.9	47.7	48.3	63.9	47.4	*	*	69.2	66.1	61.9	62.8
Can make daily household purchases	44.8	43.6	40.1	38.1	42.7	41.8	(44.3)	(49.2)	60.3	53.0	44.8	46.1
Can make large household purchases	38.6	38.9	35.9	32.8	34.7	36.4	(47.1)	(44.5)	58.7	45.2	38.3	39.6
Can make meal-related decisions	69.1	65.3	69.6	68.0	63.7	67.5	(63.9)	(60.9)	67.1	68.3	64.9	65.2
<i>Freedom of movement:</i>												
Can travel to visit family, relatives	29.3	31.6	26.4	23.3	27.6	27.7	(48.4)	(33.2)	55.2	43.2	33.0	34.7
<i>Other decisionmaking, attitudes:</i>												
Can decide how to spend own money	49.3	46.4	52.8	58.3	74.8	54.4	*	*	(85.2)	90.1	86.3	86.5
Can decide whether to have sex	94.9	94.3	96.4	96.4	96.6	95.6	(90.5)	(92.5)	94.9	96.7	97.7	97.4
Justifies domestic violence	81.0	81.8	79.4	76.1	70.8	78.6	(76.6)	(76.9)	74.8	70.2	64.5	65.6
E. Orphanhood												
Paternal orphan prevalence	8.9	8.5	8.9	9.8	11.8	9.3	9.6	17.2	25.2	14.4	10.8	11.9
Maternal orphan prevalence	3.4	4.2	5.1	5.5	8.2	4.9	2.0	7.8	9.3	7.2	6.9	7.0
Double orphan prevalence	1.4	1.8	2.0	2.5	3.5	2.1	0.7	5.6	4.2	3.5	3.4	3.5

PART II. BASIC TABLES, 1995

A. TOTAL POPULATION

B. FEMALE AND MALE POPULATIONS

C. RURAL AND URBAN POPULATIONS

Notes:

- Each of the three sections referred to above consists of four divisions, presenting data for: I) hnp status; II) hnp service use; III) hnp-related individual and household behavior; and IV) other, underlying determinants of hnp status.
- Full definitions of all indicators covered in the tables are provided in section A of the technical notes found in part II.
- “na” appears in the table cells when data are not available, usually because the DHS survey concerned did not collect information about the indicator(s) in question.
- Figures in the tables shown within parentheses indicate the absence of adequate observations to produce acceptably reliable values. Asterisks appear when the number of observations was too small to justify the presentation even of figures within parentheses. (For further information, see the section on “Sampling Errors” in the presentation of data and methods in part II.B.) Asterisks also will be found in columns showing statistical indices of inequality when the amount of quintile-specific information available is inadequate to permit computation of the value for the index concerned.
- Female/male tables include only indicators relevant for both sexes; those pertaining to only one sex (e.g., fertility, women’s nutritional status, antenatal care, attended deliveries) have been omitted.

Uganda
1995 - TOTAL POPULATION

Part I: HNP STATUS

Indicator	Wealth Quintiles						Low/High Ratio	Low-High Diff. (Abs. Val.)	Concentration Index	
	Low	2nd	3rd	4th	High	Avg.			Value	Standard Errors
A. Childhood illness and mortality										
Infant mortality rate	109.0	79.5	90.4	84.5	63.2	86.1	1.72	45.80	-0.0813	0.0008
Under-five mortality rate	192.2	150.9	163.2	155.0	113.4	156.2	1.69	78.80	-0.0785	0.0008
Prevalence of fever	54.3	45.0	46.8	46.1	38.2	46.3	1.42	16.10	-0.0652	0.0086
Prevalence of diarrhea	29.9	22.0	22.7	24.9	17.0	23.5	1.76	12.90	-0.0822	0.0140
Prevalence of acute respiratory infection (ARI)	32.0	28.8	27.2	28.1	18.6	27.1	1.72	13.40	-0.1024	0.0129
B. Fertility										
Total fertility rate	7.5	7.2	7.3	6.9	5.4	6.9	1.39	2.10	-0.0554	0.0004
Adolescent fertility rate	222.0	206.0	223.0	208.0	171.0	204.0	1.30	51.00	-0.0431	0.0009
C. Nutritional status (%)										
<i>Children:</i>										
Moderate stunting	24.2	26.6	25.3	23.2	16.4	23.3	1.48	7.80	-0.0874	0.0144
Severe stunting	18.2	18.8	13.2	14.7	9.3	15.0	1.96	8.90	-0.1423	0.0187
Moderate underweight	22.1	21.7	18.8	18.5	12.3	18.9	1.80	9.80	-0.1185	0.0165
Severe underweight	8.9	8.7	6.5	5.4	3.3	6.7	2.70	5.60	-0.1889	0.0292
Mild anemia	na	na	na	na	na	na	na	na	na	na
Moderate anemia	na	na	na	na	na	na	na	na	na	na
Severe anemia	na	na	na	na	na	na	na	na	na	na
<i>Women:</i>										
Malnutrition	12.7	11.8	10.2	9.3	5.8	10.1	2.19	6.90	-0.1592	0.0294
Mild anemia	na	na	na	na	na	na	na	na	na	na
Moderate anemia	na	na	na	na	na	na	na	na	na	na
Severe anemia	na	na	na	na	na	na	na	na	na	na
D. Female circumcision (%)										
<i>Prevalence of circumcision:</i>										
Girls	na	na	na	na	na	na	na	na	na	na
Women	na	na	na	na	na	na	na	na	na	na
<i>Prevalence of occlusion:</i>										
Girls	na	na	na	na	na	na	na	na	na	na
Women	na	na	na	na	na	na	na	na	na	na
E. Sexually transmitted disease										
<i>Prevalence of genital discharge:</i>										
Women	0.9	0.3	1.0	0.8	0.4	0.7	2.25	0.50	-0.0520	0.0896
Men	2.6	1.3	1.9	2.9	2.8	2.3	0.93	0.20	0.0421	0.0790
<i>Prevalence of genital ulcer:</i>										
Women	1.9	1.4	3.3	2.8	3.9	2.6	0.49	2.00	0.1589	0.0428
Men	4.6	5.8	6.3	4.9	6.9	5.7	0.67	2.30	0.0768	0.0525

Uganda
1995 - TOTAL POPULATION

Part II: Intermediate Determinants of HNP Status - HNP SERVICE USE

Indicator	Wealth Quintiles						Low/High Ratio	Low-High Diff. (Abs. Val.)	Concentration Index	
	Low	2nd	3rd	4th	High	Avg.			Value	Standard Errors
A. Childhood immunization										
BCG coverage	79.6	78.2	84.4	85.0	92.4	83.6	0.86	12.80	0.0371	0.0062
Measles coverage	47.5	53.3	59.6	63.1	77.7	59.6	0.61	30.20	0.1008	0.0120
DPT coverage	46.8	58.1	59.5	63.2	81.4	61.1	0.57	34.60	0.1073	0.0115
Full basic coverage	34.2	46.0	49.3	47.0	63.1	47.4	0.54	28.90	0.1085	0.0152
No basic coverage	17.9	19.8	13.8	13.1	6.1	14.4	2.93	11.80	-0.2110	0.0335
Hepatitis B coverage	na	na	na	na	na	na	na	na	na	na
Yellow fever coverage	na	na	na	na	na	na	na	na	na	na
B. Treatment of childhood illnesses										
<i>Treatment of fever:</i>										
Medical treatment of fever	33.4	41.1	39.8	45.5	44.4	40.2	0.75	11.00	0.0494	0.0147
Treatment in a public facility	16.7	14.4	15.4	19.4	14.8	16.2	1.13	1.90	-0.0104	0.0277
Treatment in a private facility	16.7	25.8	22.7	26.0	29.0	23.4	0.58	12.30	0.0909	0.0214
<i>Treatment of acute respiratory infection (ARI):</i>										
Medical treatment of ARI	48.9	58.1	64.3	69.3	74.9	61.4	0.65	26.00	0.0663	0.0126
Treatment in a public facility	22.0	21.6	24.3	24.5	26.7	23.5	0.82	4.70	0.0210	0.0285
Treatment in a private facility	26.5	35.1	37.6	44.1	46.2	36.6	0.57	19.70	0.0967	0.0212
<i>Treatment of diarrhea:</i>										
Use of oral rehydration therapy	63.2	62.1	67.4	73.3	77.5	67.8	0.82	14.30	0.0478	0.0113
Medical treatment of diarrhea	52.0	51.2	50.9	60.7	64.9	55.1	0.80	12.90	0.0338	0.0157
Treatment in a public facility	25.7	24.8	18.6	21.2	20.8	22.6	1.24	4.90	-0.0813	0.0309
Treatment in a private facility	24.9	25.7	30.6	39.0	42.9	31.4	0.58	18.00	0.1126	0.0246
C. Antenatal and delivery care										
<i>Antenatal care visits:</i>										
To a medically trained person	87.3	89.8	91.9	93.8	95.5	91.5	0.91	8.20	0.0167	0.0027
To a doctor	4.7	6.0	9.3	10.6	20.9	10.1	0.22	16.20	0.3349	0.0283
To a nurse or trained midwife	82.5	83.8	82.6	83.1	74.6	81.4	1.11	7.90	-0.0226	0.0044
Multiple visits to a medically trained person	65.7	64.5	71.0	74.8	83.9	71.6	0.78	18.20	0.0568	0.0053
<i>Antenatal care content:</i>										
Tetanus toxoid	77.1	77.2	81.1	80.1	83.8	79.7	0.92	6.70	0.0224	0.0044
Prophylactic antimalarial treatment	na	na	na	na	na	na	na	na	na	na
Iron supplementation	na	na	na	na	na	na	na	na	na	na
<i>Delivery attendance:</i>										
By a medically trained person	22.6	28.3	32.6	39.3	70.4	37.8	0.32	47.80	0.2755	0.0091
By a doctor	1.0	1.8	2.2	4.4	11.6	4.0	0.09	10.60	0.5919	0.0467
By a nurse or trained midwife	21.6	26.5	30.4	35.0	58.8	33.8	0.37	37.20	0.2383	0.0106
In a public facility	15.0	14.7	17.4	20.9	39.7	21.1	0.38	24.70	0.2846	0.0161
In a private facility	6.4	11.4	12.3	15.8	27.6	14.3	0.23	21.20	0.2925	0.0200
At home	77.8	73.0	69.1	61.9	32.0	63.6	2.43	45.80	-0.1603	0.0054
D. Contraceptive services										
<i>Contraceptive prevalence:</i>										
Women	2.1	2.7	4.1	6.2	25.8	7.8	0.08	23.70	0.6601	0.0337
Men	3.2	2.9	6.6	11.2	30.0	10.3	0.11	26.80	0.6104	0.0546

Uganda

1995 - TOTAL POPULATION

Part II: Intermediate Determinants of HNP Status - HNP SERVICE USE (Cont.)

Indicator	Wealth Quintiles						Low/High Ratio	Low-High Diff. (Abs. Val.)	Concentration Index	
	Low	2nd	3rd	4th	High	Avg.			Value	Standard Errors
D. Contraceptive services (cont.)										
<i>Source of contraception - public sector:</i>										
Women	*	*	(79.6)	51.7	46.6	51.9	*	*	*	*
Men	na	na	na	na	na	na	na	na	na	na
<i>Source of contraception - private sector:</i>										
Women	*	*	(17.3)	48.3	51.6	46.3	*	*	*	*
Men	na	na	na	na	na	na	na	na	na	na
E. Treatment of adult illnesses										
<i>Treatment of genital discharge, ulcer, sore:</i>										
Women	(74.9)	*	(66.2)	(67.7)	85.2	75.4	*	*	*	*
Men	*	*	*	(40.2)	50.1	51.9	*	*	*	*
<i>Treatment of genital discharge, ulcer, sore in public facilities:</i>										
Women	na	na	na	na	na	na	na	na	na	na
Men	na	na	na	na	na	na	na	na	na	na
<i>Voluntary counseling and testing for HIV/AIDS:</i>										
Women	2.5	2.9	3.6	6.0	13.2	5.8	0.19	10.70	0.4509	0.0305
Men	5.3	7.1	7.6	10.8	19.7	10.5	0.27	14.40	0.3217	0.0387

Uganda

1995 - TOTAL POPULATION

Part III: Intermediate Determinants of HNP Status - INDIVIDUAL AND HOUSEHOLD BEHAVIOR

Indicator	Wealth Quintiles						Low/High Ratio	Low-High Diff. (Abs. Val.)	Concentration Index	
	Low	2nd	3rd	4th	High	Avg.			Value	Standard Errors
A. Hygienic practices										
<i>Disposal of children's stools:</i>										
Sanitary disposal	na	na	na	na	na	na	na	na	na	na
<i>Handwashing:</i>										
Wash hands prior to preparing food	na	na	na	na	na	na	na	na	na	na
Handwashing facilities in household	na	na	na	na	na	na	na	na	na	na
B. Bednet ownership and use										
<i>Bednet ownership:</i>										
Bednet ownership	na	na	na	na	na	na	na	na	na	na
Treated bednet ownership	na	na	na	na	na	na	na	na	na	na
<i>Bednet use:</i>										
By children	na	na	na	na	na	na	na	na	na	na
By pregnant women	na	na	na	na	na	na	na	na	na	na
C. Breastfeeding										
Exclusive breastfeeding	71.0	76.3	78.1	71.5	53.9	70.4	1.32	17.10	-0.0633	0.0196
Timely complementary feeding	55.8	62.1	68.8	64.9	69.7	63.8	0.80	13.90	0.0166	0.0194
Bottle-feeding	6.9	2.5	4.7	8.3	18.7	8.0	0.37	11.80	0.3527	0.0621
D. Micronutrient consumption										
<i>Iodized salt:</i>										
Availability of iodized salt in household	na	na	na	na	na	na	na	na	na	na
<i>Vitamin A:</i>										
Children	na	na	na	na	na	na	na	na	na	na
Women	na	na	na	na	na	na	na	na	na	na
E. Tobacco and alcohol use										
<i>Tobacco:</i>										
Women	na	na	na	na	na	na	na	na	na	na
Men	na	na	na	na	na	na	na	na	na	na
<i>Alcohol:</i>										
Women	na	na	na	na	na	na	na	na	na	na
Men	na	na	na	na	na	na	na	na	na	na
F. Sexual practices										
<i>Non-regular sexual partnerships:</i>										
Women	2.0	1.5	2.3	2.3	1.7	2.0	1.18	0.30	-0.0195	0.0472
Men	14.3	16.4	16.7	19.6	25.8	18.9	0.55	11.50	0.1148	0.0268
<i>Condom usage with non-regular partner:</i>										
Women	(13.2)	*	(6.0)	(10.8)	(57.8)	19.7	*	*	*	*
Men	17.3	21.9	37.2	31.4	50.5	34.7	0.34	33.20	0.2146	0.0364
G. Domestic violence										
Ever experienced violence	na	na	na	na	na	na	na	na	na	na
Experienced violence in past year	na	na	na	na	na	na	na	na	na	na

Uganda
1995 - TOTAL POPULATION
Part IV: UNDERLYING DETERMINANTS OF HNP STATUS

Indicator	Wealth Quintiles						Low/High Ratio	Low-High Diff. (Abs. Val.)	Concentration Index	
	Low	2nd	3rd	4th	High	Avg.			Value	Standard Errors
A. Education										
<i>School completion:</i>										
Women	20.4	29.0	35.3	42.4	75.8	41.1	0.27	55.40	0.2810	0.0068
Men	45.4	53.0	54.7	61.9	81.6	60.1	0.56	36.20	0.1263	0.0052
<i>School participation:</i>										
Girls	47.1	51.8	61.3	69.5	81.9	62.6	0.58	34.80	0.1093	0.0074
Boys	53.5	58.2	64.6	68.3	81.4	64.8	0.66	27.90	0.0911	0.0076
B. Exposure to mass media										
<i>Newspaper readership:</i>										
Women	6.1	9.7	13.0	17.4	47.7	19.3	0.13	41.60	0.4866	0.0141
Men	21.2	21.4	25.5	30.9	63.7	33.8	0.33	42.50	0.3122	0.0174
<i>Radio listenership:</i>										
Women	6.0	15.6	30.8	46.9	65.5	33.4	0.09	59.50	0.3699	0.0083
Men	6.2	25.0	37.1	60.3	75.5	42.2	0.08	69.30	0.3437	0.0114
<i>Television viewership:</i>										
Women	0.3	1.3	0.1	1.2	22.4	5.5	0.01	22.10	1.0752	0.0470
Men	0.1	1.9	1.3	5.0	29.8	8.5	0.00	29.70	0.9521	0.0594
C. Knowledge and attitudes about HIV/AIDS										
<i>Knowledge about sexual transmission of HIV/AIDS:</i>										
Women	96.2	97.9	98.5	98.7	99.2	98.1	0.97	3.00	0.0036	0.0008
Men	99.3	99.3	98.8	99.3	99.4	99.3	1.00	0.10	0.0008	0.0010
<i>Knowledge about mother-to-child transmission of HIV/AIDS:</i>										
Women	83.5	82.7	84.3	86.4	89.8	84.9	0.93	6.30	0.0210	0.0027
Men	81.2	77.9	84.4	84.6	90.2	84.3	0.90	9.00	0.0262	0.0052
<i>Attitudes toward HIV/AIDS:</i>										
Women	na	na	na	na	na	na	na	na	na	na
Men	na	na	na	na	na	na	na	na	na	na
D. Status of women										
<i>Household decisionmaking:</i>										
Can seek own health care	na	na	na	na	na	na	na	na	na	na
Can seek children's health care	na	na	na	na	na	na	na	na	na	na
Can make daily household purchases	na	na	na	na	na	na	na	na	na	na
Can make large household purchases	na	na	na	na	na	na	na	na	na	na
Can make meal-related decisions	na	na	na	na	na	na	na	na	na	na
<i>Freedom of movement:</i>										
Can travel to visit family, relatives	na	na	na	na	na	na	na	na	na	na
<i>Other decisionmaking, attitudes:</i>										
Can decide how to spend own money	60.4	62.6	55.0	61.2	78.4	65.2	0.77	17.98	0.0842	0.0089
Can decide whether to have sex	na	na	na	na	na	na	na	na	na	na
Justifies domestic violence	na	na	na	na	na	na	na	na	na	na
E. Orphanhood										
Paternal orphan prevalence	11.0	9.7	8.7	8.9	10.7	9.8	1.03	0.30	-0.0210	0.0144
Maternal orphan prevalence	3.9	4.2	5.1	4.7	7.3	5.0	0.53	3.40	0.1036	0.0196
Double orphan prevalence	1.5	1.4	1.6	1.6	3.2	1.9	0.47	1.70	0.1266	0.0347

Uganda
1995 - FEMALE / MALE POPULATIONS

Part I: HNP STATUS

Indicator	Wealth Quintiles - Female						Wealth Quintiles - Male					
	Low	2nd	3rd	4th	High	Avg.	Low	2nd	3rd	4th	High	Avg.
A. Childhood mortality and morbidity												
Infant mortality rate	113.7	75.1	90.7	79.2	60.3	84.9	103.9	84.2	90.0	90.1	66.1	87.4
Under-five mortality rate	190.8	133.3	159.6	145.9	117.6	150.8	193.5	170.0	166.8	164.4	109.5	161.9
Prevalence of fever	53.7	42.8	46.4	42.7	35.6	44.7	54.9	47.4	47.1	49.2	40.9	48.0
Prevalence of diarrhea	28.9	19.3	21.4	21.3	17.2	21.9	31.1	24.9	24.1	28.3	16.9	25.1
Prevalence of acute respiratory infection (ARI)	32.2	25.4	27.6	28.4	16.0	26.2	31.7	32.6	26.9	27.8	21.1	28.1
B. Nutritional status												
<i>Children:</i>												
Moderate stunting	22.7	26.5	24.7	22.7	15.7	22.7	25.8	26.7	26.0	23.7	17.0	24.0
Severe stunting	21.0	17.4	11.4	10.9	7.2	14.1	15.0	20.2	15.0	18.3	11.4	16.0
Moderate underweight	23.7	20.7	18.8	15.0	11.0	18.3	20.3	22.8	18.7	21.7	13.6	19.5
Severe underweight	8.7	7.6	5.0	5.2	1.8	5.8	9.1	9.9	8.2	5.4	4.8	7.6
Mild anemia	na	na	na	na	na	na	na	na	na	na	na	na
Moderate anemia	na	na	na	na	na	na	na	na	na	na	na	na
Severe anemia	na	na	na	na	na	na	na	na	na	na	na	na
C. Sexually transmitted disease												
<i>Prevalence of genital discharge:</i>												
Women	0.9	0.3	1.0	0.8	0.4	0.7						
Men							2.6	1.3	1.9	2.9	2.8	2.3
<i>Prevalence of genital ulcer:</i>												
Women	1.9	1.4	3.3	2.8	3.9	2.6						
Men							4.6	5.8	6.3	4.9	6.9	5.7

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1995 - FEMALE / MALE POPULATIONS

Part II: Intermediate Determinants of HNP Status - HNP SERVICE USE

Indicator	Wealth Quintiles - Female						Wealth Quintiles - Male					
	Low	2nd	3rd	4th	High	Avg.	Low	2nd	3rd	4th	High	Avg.
A. Childhood immunization												
BCG coverage	77.0	74.9	86.7	84.2	90.2	82.4	82.5	81.6	81.9	85.6	94.9	85.0
Measles coverage	46.6	48.3	61.1	63.4	78.5	58.9	48.4	58.6	58.0	62.9	76.8	60.4
DPT coverage	43.5	57.6	61.7	57.3	79.5	59.4	50.7	58.7	57.1	68.5	83.6	63.0
Full basic coverage	33.6	42.6	52.0	42.1	64.2	46.6	34.8	49.6	46.3	51.3	61.8	48.3
No basic coverage	20.7	23.3	11.8	12.5	8.1	15.6	14.6	16.0	15.9	13.6	3.9	13.1
Hepatitis B coverage	na	na	na	na	na	na	na	na	na	na	na	na
Yellow fever coverage	na	na	na	na	na	na	na	na	na	na	na	na
B. Treatment of childhood illnesses												
<i>Treatment of fever:</i>												
Medical treatment of fever	34.5	40.2	40.4	45.8	41.7	39.9	32.2	41.9	39.1	45.2	46.7	40.5
Treatment in a public facility	16.5	11.8	15.0	17.1	14.7	15.1	16.9	16.9	15.8	21.3	14.9	17.2
Treatment in a private facility	17.9	27.6	23.2	28.6	26.5	24.0	15.3	24.1	22.2	23.9	31.1	22.7
<i>Treatment of acute respiratory infection (ARI):</i>												
Medical treatment of ARI	52.5	59.9	62.8	70.8	78.4	62.6	44.6	56.6	66.0	67.9	72.4	60.1
Treatment in a public facility	20.2	19.1	21.4	24.3	27.2	21.8	24.1	23.7	27.3	24.8	26.4	25.1
Treatment in a private facility	31.7	39.3	37.6	46.1	50.0	39.3	20.5	31.6	37.5	42.2	43.4	33.9
<i>Treatment of diarrhea:</i>												
Use of oral rehydration therapy	71.0	59.0	68.9	70.8	75.4	69.0	54.9	64.7	66.0	75.1	79.6	66.7
Medical treatment of diarrhea	50.5	49.7	54.0	64.7	65.3	55.6	53.5	52.4	47.9	58.0	64.4	54.6
Treatment in a public facility	22.6	23.2	12.6	19.9	21.3	20.0	28.9	26.2	24.3	22.1	20.3	24.8
Treatment in a private facility	25.6	26.5	41.4	43.5	41.6	34.3	24.0	25.0	20.4	35.9	44.1	28.8
C. Contraceptive services												
<i>Contraceptive prevalence:</i>												
Women	2.1	2.7	4.1	6.2	25.8	7.8						
Men							3.2	2.9	6.6	11.2	30.0	10.3
<i>Source of contraception - public sector:</i>												
Women	*	*	(79.6)	51.7	46.6	51.9						
Men							na	na	na	na	na	na
<i>Source of contraception - private sector:</i>												
Women	*	*	(17.3)	48.3	51.6	46.3						
Men							na	na	na	na	na	na
D. Treatment of adult illnesses												
<i>Treatment of genital discharge, ulcer, sore:</i>												
Women	(74.9)	*	(66.2)	(67.7)	85.2	75.4						
Men							*	*	*	(40.2)	50.1	0.0
<i>Treatment of genital discharge, ulcer, sore in public facilities:</i>												
Women	na	na	na	na	na	na						
Men							na	na	na	na	na	na
<i>Voluntary counseling and testing for HIV/AIDS:</i>												
Women	2.5	2.9	3.6	6.0	13.2	5.8						
Men							5.3	7.1	7.6	10.8	19.7	10.5

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1995 - FEMALE / MALE POPULATIONS

Part III: Intermediate Determinants of HNP Status - INDIVIDUAL AND HOUSEHOLD BEHAVIOR

Indicator	Wealth Quintiles - Female						Wealth Quintiles - Male					
	Low	2nd	3rd	4th	High	Avg.	Low	2nd	3rd	4th	High	Avg.
A. Hygienic practices												
<i>Disposal of children's stools:</i>												
Sanitary disposal	na	na	na	na	na	na						
<i>Handwashing:</i>												
Wash hands prior to preparing food	na	na	na	na	na	na						
Handwashing facilities in household	na	na	na	na	na	na						
B. Bednet ownership and use												
<i>Bednet use:</i>												
By children	na	na	na	na	na	na						
C. Breastfeeding												
Exclusive breastfeeding	(67.8)	(85.0)	(81.1)	(76.4)	(57.2)	73.9	(74.2)	(68.2)	(74.8)	(65.5)	50.9	66.9
Timely complementary feeding	(46.8)	(58.3)	(73.3)	(65.6)	72.8	63.0	(63.7)	(66.1)	(63.3)	(64.2)	65.9	64.6
Bottle-feeding	5.0	3.5	4.4	8.5	20.8	8.3	8.8	1.4	5.1	8.0	16.2	7.7
D. Micronutrient consumption												
<i>Vitamin A:</i>												
Children	na	na	na	na	na	na	na	na	na	na	na	na
E. Tobacco and alcohol use												
<i>Tobacco:</i>												
Women	na	na	na	na	na	na						
Men							na	na	na	na	na	na
<i>Alcohol:</i>												
Women	na	na	na	na	na	na						
Men							na	na	na	na	na	na
F. Sexual practices												
<i>Non-regular sexual partnerships:</i>												
Women	2.0	1.5	2.3	2.3	1.7	2.0						
Men							14.3	16.4	16.7	19.6	25.8	18.9
<i>Condom usage with non-regular partner:</i>												
Women	(13.2)	*	(6.0)	(10.8)	(57.8)	19.7						
Men							17.3	21.9	37.2	31.4	50.5	34.7

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Part IV: UNDERLYING DETERMINANTS OF HNP STATUS

Indicator	Wealth Quintiles - Female						Wealth Quintiles - Male					
	Low	2nd	3rd	4th	High	Avg.	Low	2nd	3rd	4th	High	Avg.
A. Education												
<i>School completion:</i>												
Women	20.4	29.0	35.3	42.4	75.8	41.1	45.4	53.0	54.7	61.9	81.6	60.1
Men												
<i>School participation:</i>												
Girls	47.1	51.8	61.3	69.5	81.9	62.6	53.5	58.2	64.6	68.3	81.4	64.8
Boys												
B. Exposure to mass media												
<i>Newspaper readership:</i>												
Women	6.1	9.7	13.0	17.4	47.7	19.3	21.2	21.4	25.5	30.9	63.7	33.8
Men												
<i>Radio listenership:</i>												
Women	6.0	15.6	30.8	46.9	65.5	33.4	6.2	25.0	37.1	60.3	75.5	42.2
Men												
<i>Television viewership:</i>												
Women	0.3	1.3	0.1	1.2	22.4	5.5	0.1	1.9	1.3	5.0	29.8	8.5
Men												
C. Knowledge and attitudes about HIV/AIDS												
<i>Knowledge about sexual transmission of HIV/AIDS:</i>												
Women	96.2	97.9	98.5	98.7	99.2	98.1	99.3	99.3	98.8	99.3	99.4	99.3
Men												
<i>Knowledge about mother-to-child transmission of HIV/AIDS:</i>												
Women	83.5	82.7	84.3	86.4	89.8	84.9	81.2	77.9	84.4	84.6	90.2	84.3
Men												
<i>Attitudes toward HIV/AIDS:</i>												
Women	na	na	na	na	na	na	na	na	na	na	na	na
Men												
D. Orphanhood												
Paternal orphan prevalence	12.1	10.1	9.8	7.6	12.0	10.3	9.7	9.2	7.8	10.5	9.5	9.3
Maternal orphan prevalence	3.5	4.3	5.1	4.1	8.1	5.0	4.5	4.1	5.1	5.5	6.4	5.2
Double orphan prevalence	1.6	1.6	1.6	1.3	4.0	2.0	1.4	1.2	1.7	1.9	2.3	1.7

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Part I: HNP STATUS

Indicator	Wealth Quintiles - Rural						Wealth Quintiles - Urban					
	Low	2nd	3rd	4th	High	Avg.	Low	2nd	3rd	4th	High	Avg.
A. Childhood illness and mortality												
Infant mortality rate	108.6	78.3	90.4	84.0	61.1	87.6	*	*	*	(92.2)	65.5	74.4
Under-five mortality rate	192.1	148.1	163.5	153.7	110.1	159.1	*	*	*	(171.9)	117.1	133.5
Prevalence of fever	54.4	45.1	46.8	46.4	43.1	47.8	(44.1)	40.7	46.1	41.6	32.9	35.2
Prevalence of diarrhea	30.0	21.9	22.5	25.0	16.5	24.0	(24.2)	26.6	28.1	23.4	17.7	19.4
Prevalence of acute respiratory infection	32.0	28.8	27.1	28.8	19.6	28.2	(28.9)	28.7	30.1	19.4	17.5	19.0
B. Fertility												
Total fertility rate	7.6	7.2	7.3	6.9	(6.2)	7.2	*	*	*	*	4.7	5.0
Adolescent fertility rate	223.0	208.0	224.0	210.0	(204.0)	214.6	*	*	*	*	147.0	152.9
C. Nutritional status												
<i>Children:</i>												
Moderate stunting	24.2	26.6	25.4	23.4	19.9	24.4	*	*	(21.7)	21.0	12.4	14.6
Severe stunting	18.4	19.0	13.2	14.5	12.1	15.9	*	*	(10.1)	18.3	6.1	7.9
Moderate underweight	22.1	21.9	18.9	18.7	13.2	19.7	*	*	(14.5)	15.6	11.2	12.3
Severe underweight	9.0	8.7	6.6	5.2	4.3	7.1	*	*	(3.0)	7.2	2.2	3.0
Mild anemia	na	na	na	na	na	na	na	na	na	na	na	na
Moderate anemia	na	na	na	na	na	na	na	na	na	na	na	na
Severe anemia	na	na	na	na	na	na	na	na	na	na	na	na
<i>Women:</i>												
Malnutrition	12.7	12.0	10.3	9.7	6.5	10.8	*	*	*	(5.2)	5.0	5.3
Mild anemia	na	na	na	na	na	na	na	na	na	na	na	na
Moderate anemia	na	na	na	na	na	na	na	na	na	na	na	na
Severe anemia	na	na	na	na	na	na	na	na	na	na	na	na
D. Female circumcision												
<i>Prevalence of circumcision:</i>												
Girls	na	na	na	na	na	na	na	na	na	na	na	na
Women	na	na	na	na	na	na	na	na	na	na	na	na
<i>Prevalence of occlusion:</i>												
Girls	na	na	na	na	na	na	na	na	na	na	na	na
Women	na	na	na	na	na	na	na	na	na	na	na	na
E. Sexually transmitted disease												
<i>Prevalence of genital discharge:</i>												
Women	0.9	0.2	1.0	0.8	0.5	0.7	1.2	0.9	0.8	0.7	0.4	0.5
Men	2.6	1.3	1.6	2.8	2.7	2.1	*	*	(10.0)	4.7	2.9	3.5
<i>Prevalence of genital ulcer:</i>												
Women	1.9	1.2	3.2	2.6	2.9	2.3	2.6	7.9	5.9	4.8	4.7	4.8
Men	4.6	5.8	6.4	4.8	5.6	5.4	*	*	(2.5)	5.6	8.2	7.5

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Part II: Intermediate Determinants of HNP Status - HNP SERVICE USE

Indicator	Wealth Quintiles - Rural						Wealth Quintiles - Urban					
	Low	2nd	3rd	4th	High	Avg.	Low	2nd	3rd	4th	High	Avg.
A. Childhood immunization												
BCG coverage	79.5	77.8	84.5	83.8	91.0	82.4	*	*	(81.1)	98.6	94.1	93.7
Measles coverage	47.1	53.4	59.6	62.8	77.7	57.8	*	*	(62.0)	67.1	77.7	74.2
DPT coverage	46.7	58.1	59.8	62.7	82.8	59.4	*	*	(48.9)	69.4	79.7	75.3
Full basic coverage	34.2	46.1	49.5	46.4	66.4	46.3	*	*	(41.8)	53.3	59.1	56.1
No basic coverage	17.9	20.0	13.7	14.1	7.1	15.5	*	*	(14.9)	1.4	4.9	5.3
Hepatitis B coverage	na	na	na	na	na	na	na	na	na	na	na	na
Yellow fever coverage	na	na	na	na	na	na	na	na	na	na	na	na
B. Treatment of childhood diseases												
<i>Treatment of fever:</i>												
Medical treatment of fever	33.3	41.0	39.3	45.8	38.3	39.1	*	(46.1)	(54.9)	41.6	53.2	51.0
Treatment in a public facility	16.7	14.3	15.4	20.4	15.3	16.5	*	(18.3)	(12.9)	6.9	14.2	13.0
Treatment in a private facility	16.6	25.8	22.1	25.4	23.0	22.1	*	(27.8)	(42.0)	34.0	37.5	36.6
<i>Treatment of acute respiratory infection (ARI):</i>												
Medical treatment of ARI	48.6	57.8	64.2	69.4	71.8	60.0	*	*	(67.8)	(68.3)	78.9	76.3
Treatment in a public facility	21.9	21.4	24.7	25.1	33.1	23.9	*	*	(12.7)	(15.2)	19.0	19.0
Treatment in a private facility	26.4	35.0	36.9	43.8	38.7	35.1	*	*	(55.0)	(49.3)	55.5	53.5
<i>Treatment of diarrhea:</i>												
Use of oral rehydration therapy	63.1	62.0	67.1	73.1	73.3	66.5	*	*	(74.6)	75.1	81.8	79.4
Medical treatment of diarrhea	51.9	50.9	50.3	61.8	64.2	54.3	*	*	(64.7)	48.0	65.5	62.6
Treatment in a public facility	25.7	24.9	18.7	21.6	24.6	23.1	*	*	(15.9)	15.8	16.8	17.1
Treatment in a private facility	24.8	25.4	29.9	39.7	39.6	30.2	*	*	(48.8)	30.6	46.2	43.2
C. Antenatal and delivery care												
<i>Antenatal care visits:</i>												
To a medically trained person	87.3	89.7	91.9	93.7	96.1	91.1	(87.9)	(92.2)	92.5	94.6	94.8	94.4
To a doctor	4.8	6.1	9.2	10.1	12.4	7.9	(2.6)	(3.7)	14.1	17.3	30.0	26.0
To a nurse or trained midwife	82.5	83.7	82.7	83.7	83.7	83.2	(85.2)	(88.5)	78.5	77.3	64.9	68.4
Multiple visits to a medically trained person	65.6	64.2	70.8	74.3	82.7	70.0	(70.6)	(79.0)	78.3	80.2	85.1	83.6
<i>Antenatal care content:</i>												
Tetanus toxoid	77.0	77.0	81.0	79.5	82.9	79.0	(78.3)	(85.6)	83.6	87.2	84.7	84.9
Prophylactic antimalarial treatment	na	na	na	na	na	na	na	na	na	na	na	na
Iron supplementation	na	na	na	na	na	na	na	na	na	na	na	na
<i>Delivery attendance:</i>												
By a medically trained person	22.3	27.8	31.7	37.6	56.2	32.3	42.9	53.2	60.8	59.3	85.6	78.8
By a doctor	1.0	1.8	2.1	3.7	6.0	2.5	1.9	2.1	3.1	11.5	17.5	15.1
By a nurse or trained midwife	21.4	26.0	29.5	33.9	50.2	29.8	41.0	51.1	57.7	47.7	68.1	63.8
In a public facility	14.7	14.3	17.1	19.1	28.9	17.6	34.8	34.5	28.2	41.2	51.3	47.8
In a private facility	6.4	11.2	11.8	15.7	24.0	12.4	8.1	18.7	28.2	17.0	31.4	28.4
At home	78.0	73.5	70.0	63.7	46.3	68.9	57.1	46.8	41.8	41.8	16.8	23.3
D. Contraceptive services												
<i>Contraceptive prevalence:</i>												
Women	1.9	2.6	3.9	5.2	19.6	5.1	8.7	6.4	9.1	21.5	32.0	28.0
Men	2.8	2.8	6.2	11.2	22.5	7.2	*	*	*	(11.5)	36.8	31.7

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1995 - RURAL / URBAN POPULATIONS

Part II: Intermediate Determinants of HNP Status - HNP SERVICE USE (Cont.)

Indicator	Wealth Quintiles - Rural						Wealth Quintiles - Urban					
	Low	2nd	3rd	4th	High	Avg.	Low	2nd	3rd	4th	High	Avg.
D. Contraceptive services (cont.)												
<i>Source of contraception - public sector:</i>												
Women	*	*	(80.5)	(56.6)	47.3	56.7	*	*	*	(34.7)	46.2	45.5
Men	na	na	na	na	na	na	na	na	na	na	na	na
<i>Source of contraception - private sector:</i>												
Women	*	*	(16.2)	(43.4)	52.7	42.0	*	*	*	(65.3)	50.9	51.9
Men	na	na	na	na	na	na	na	na	na	na	na	na
E. Treatment of adult illnesses												
<i>Treatment of genital discharge, ulcer, sore:</i>												
Women	(74.9)	*	(65.5)	(67.2)	*	73.0	*	*	*	*	83.9	82.7
Men	*	*	*	*	*	51.6	*	*	*	*	(49.7)	53.1
<i>Treatment of genital discharge, ulcer, sore in public facilities:</i>												
Women	na	na	na	na	na	na	na	na	na	na	na	na
Men	na	na	na	na	na	na	na	na	na	na	na	na
<i>Voluntary counseling and testing for HIV/AIDS:</i>												
Women	2.5	2.9	3.5	5.6	8.2	4.1	3.6	5.0	7.5	11.2	17.5	15.7
Men	5.3	7.1	7.4	9.7	14.6	8.3	*	*	(11.9)	25.4	25.0	23.5

Uganda

1995 - RURAL / URBAN POPULATIONS

Part III: Intermediate Determinants of HNP Status - INDIVIDUAL AND HOUSEHOLD BEHAVIOR

Indicator	Wealth Quintiles - Rural						Wealth Quintiles - Urban					
	Low	2nd	3rd	4th	High	Avg.	Low	2nd	3rd	4th	High	Avg.
A. Hygienic practices												
<i>Disposal of children's stools:</i>												
Sanitary disposal	na	na	na	na	na	na	na	na	na	na	na	na
<i>Handwashing:</i>												
Wash hands prior to preparing food	na	na	na	na	na	na	na	na	na	na	na	na
Handwashing facilities in household	na	na	na	na	na	na	na	na	na	na	na	na
B. Bednet ownership and use												
<i>Bednet ownership:</i>												
Bednet ownership	na	na	na	na	na	na	na	na	na	na	na	na
Treated bednet ownership	na	na	na	na	na	na	na	na	na	na	na	na
<i>Bednet use:</i>												
By children	na	na	na	na	na	na	na	na	na	na	na	na
By pregnant women	na	na	na	na	na	na	na	na	na	na	na	na
C. Breastfeeding												
Exclusive breastfeeding	70.6	76.2	79.4	70.7	(55.7)	72.2	*	*	*	*	52.0	57.6
Timely complementary feeding	55.6	61.8	69.1	64.4	(75.8)	63.7	*	*	*	*	62.6	64.3
Bottle-feeding	7.0	2.2	4.7	8.0	14.6	6.5	*	*	(5.1)	12.0	23.1	19.8
D. Micronutrient consumption												
<i>Iodized salt:</i>												
Availability of iodized salt in household	na	na	na	na	na	na	na	na	na	na	na	na
<i>Vitamin A:</i>												
Children	na	na	na	na	na	na	na	na	na	na	na	na
Women	na	na	na	na	na	na	na	na	na	na	na	na
E. Tobacco and alcohol use												
<i>Tobacco:</i>												
Women	na	na	na	na	na	na	na	na	na	na	na	na
Men	na	na	na	na	na	na	na	na	na	na	na	na
<i>Alcohol:</i>												
Women	na	na	na	na	na	na	na	na	na	na	na	na
Men	na	na	na	na	na	na	na	na	na	na	na	na
F. Sexual practices												
<i>Non-regular sexual partnerships:</i>												
Women	2.0	1.5	2.1	2.3	1.2	1.9	5.9	3.0	6.2	2.3	2.2	2.5
Men	14.2	16.3	15.9	19.1	23.8	17.4	*	*	(38.0)	27.2	27.9	28.0
<i>Condom usage with non-regular partner:</i>												
Women	*	*	*	*	*	11.2	*	*	*	*	(61.6)	55.8
Men	17.3	20.3	36.3	28.9	33.9	27.4	*	*	(47.1)	54.8	65.2	62.5
G. Domestic violence												
Ever experienced violence	na	na	na	na	na	na	na	na	na	na	na	na
Experienced violence in past year	na	na	na	na	na	na	na	na	na	na	na	na

Uganda

1995 - RURAL / URBAN POPULATIONS

Part IV: UNDERLYING DETERMINANTS OF HNP STATUS

Indicator	Wealth Quintiles - Rural						Wealth Quintiles - Urban					
	Low	2nd	3rd	4th	High	Avg.	Low	2nd	3rd	4th	High	Avg.
A. Education												
<i>School completion:</i>												
Women	20.2	28.7	35.1	41.8	70.6	35.7	35.4	39.9	40.8	50.1	80.1	72.9
Men	45.2	52.8	54.2	61.1	76.9	56.2	56.1	61.5	68.0	71.6	85.6	82.0
<i>School participation:</i>												
Girls	46.9	51.8	61.0	69.6	83.4	60.8	(54.3)	(50.7)	71.1	67.5	80.0	76.3
Boys	53.4	58.2	64.9	68.3	79.1	63.3	(60.7)	(60.9)	(53.3)	67.5	85.1	79.8
B. Exposure to mass media												
<i>Newspaper readership:</i>												
Women	6.0	9.5	12.8	17.2	42.4	14.8	(10.9)	(15.5)	18.9	19.8	52.1	45.1
Men	21.2	21.1	25.2	29.4	52.3	28.1	*	*	(33.6)	51.3	75.5	68.8
<i>Radio listenership:</i>												
Women	9.5	21.4	39.0	59.6	75.8	36.6	(11.3)	(24.2)	41.3	58.4	80.0	72.4
Men	6.1	24.7	37.0	60.5	70.8	37.1	*	*	(38.8)	57.0	80.3	73.5
<i>Television viewership:</i>												
Women	9.5	21.4	39.0	59.8	76.1	36.7	(11.3)	(25.0)	41.3	58.4	80.5	72.8
Men	0.0	1.9	1.0	3.8	12.4	3.1	*	*	(8.9)	20.9	47.7	41.0
C. Knowledge and attitudes about HIV/AIDS												
<i>Knowledge about sexual transmission of HIV/AIDS:</i>												
Women	96.2	97.9	98.5	98.7	99.1	97.9	98.3	99.2	98.1	99.4	99.3	99.2
Men	99.3	99.3	98.8	99.3	99.0	99.2	*	*	(98.6)	100.0	99.9	99.9
<i>Knowledge about mother-to-child transmission of HIV/AIDS:</i>												
Women	80.6	82.5	84.4	86.0	90.3	84.1	90.3	90.3	81.2	91.6	89.4	89.3
Men	83.3	77.8	84.3	84.1	87.7	83.2	*	*	(87.1)	92.0	92.8	91.5
<i>Attitudes toward HIV/AIDS:</i>												
Women	na	na	na	na	na	na	na	na	na	na	na	na
Men	na	na	na	na	na	na	na	na	na	na	na	na
D. Status of women												
<i>Household decisionmaking:</i>												
Can seek own health care	na	na	na	na	na	na	na	na	na	na	na	na
Can seek children's health care	na	na	na	na	na	na	na	na	na	na	na	na
Can make daily household purchases	na	na	na	na	na	na	na	na	na	na	na	na
Can make large household purchases	na	na	na	na	na	na	na	na	na	na	na	na
Can make meal-related decisions	na	na	na	na	na	na	na	na	na	na	na	na
<i>Freedom of movement:</i>												
Can travel to visit family, relatives	na	na	na	na	na	na	na	na	na	na	na	na
<i>Other decisionmaking, attitudes:</i>												
Can decide how to spend own money	na	na	na	na	na	na	na	na	na	na	na	na
Can decide whether to have sex	na	na	na	na	na	na	na	na	na	na	na	na
Justifies domestic violence	na	na	na	na	na	na	na	na	na	na	na	na
E. Orphanhood												
Paternal orphan prevalence	10.9	9.5	8.6	8.7	10.6	9.6	19.8	18.6	13.5	11.5	10.9	11.6
Maternal orphan prevalence	3.8	4.1	5.1	4.6	7.7	4.8	12.1	10.0	2.9	6.7	6.7	6.7
Double orphan prevalence	1.5	1.4	1.6	1.5	3.3	1.7	4.0	5.1	1.7	2.1	2.9	2.9

PART III. TECHNICAL NOTES

- A. INDICATOR DEFINITIONS**
- B. DATA AND METHODS**
- C. DISCUSSION**

INDICATOR DEFINITIONS

Part I: HNP STATUS

A. CHILDHOOD MORTALITY AND ILLNESS ²

Infant mortality rate: number of deaths to children under 12 months of age per 1,000 live births, based on experience during the ten years preceding the survey.

Under-five mortality rate: number of deaths to children under five years of age per 1,000 live births, based on experience during the ten years preceding the survey.

Prevalence of fever: percent of children who had fever, whether or not accompanied by cough or rapid breathing, in the two weeks before the survey.

Prevalence of diarrhea: percent of children who had diarrhea in the two weeks before the survey.

Prevalence of acute respiratory infection: percent of children who had a cough accompanied by rapid or difficult breathing in the two weeks before the survey.

B. FERTILITY

Total fertility rate (TFR): average number of births a woman could expect to have during her lifetime if she followed the levels of fertility currently observed at every age. The TFR is calculated as the sum of average annual age-specific fertility rates for all reproductive age groups (usually 15-49 years) in the three years before the survey.

Adolescent fertility rate: age-specific fertility rate for women 15-19 years of age. This is the average number of births among women aged 15-19 years per 1,000 women in that age group, based on births in the three years before the survey and expressed as annual averages.

² Figures for the prevalence of fever, diarrhea, and acute respiratory infection refer to percent of children under three, four, or five years of age, depending upon the country. (The specific ages covered for in particular country may be determined by consulting the full report on that country's DHS, which may be found at: www.measuredhs.com/countries.)

C. NUTRITIONAL STATUS

Children^{3, 4, 5}

Moderate stunting (height-for-age): percent of children with a height-for-age Z-score of between –2 and –3 standard deviations of the median reference standard for their age (as defined in fn. 4).

Severe stunting (height-for-age): percent of children with a height-for-age Z-score of below –3 standard deviations of the median reference standard for their age (as defined in fn. 4).

Moderate underweight (weight-for-age): percent of children with a weight-for-age Z-score of between –2 and –3 standard deviations of the median reference standard for their age (as defined in fn. 4).

Severe underweight (weight-for-age): percent of children with a weight-for-age Z-score of below –3 standard deviations of the median reference standard for their age (as defined in fn. 4).

Mild anemia: percent of children with a hemoglobin level of between 10.0g/dl and 10.9 g/dl, the World Health Organization criterion for mild anemia.

Moderate anemia: percent of children with a hemoglobin level of between 7.0g/dl and 9.9g/dl, the World Health Organization criterion for moderate anemia.

Severe anemia: percent of children with a hemoglobin level of below 7.0g/dl, the World Health Organization criterion for severe anemia.

Women^{6, 7}

Malnutrition: percent of women aged 15-49 years with a Body Mass Index (BMI) of less than 18.5, where BMI – commonly used to indicate adult nutritional status – is defined as weight in kilograms divided by the square of height in meters.

Mild anemia: percent of women aged 15-49 years with a hemoglobin level of between 10.0g/dl and 10.9g/dl for pregnant women and between 10.0g/dl and 11.9g/dl for non-pregnant women, the World Health Organization criterion for mild anemia.

Moderate anemia: percent of women aged 15-49 years with a hemoglobin level of between 7.0g/dl and 9.9g/dl, the World Health Organization criterion for moderate anemia.

Severe anemia: percent of women aged 15-49 years with a hemoglobin level of less than 7.0g/dl, the World Health Organization criterion for severe anemia.

³ All figures related to children's nutrition status refer to children under three, four, or five years of age, depending upon the country. (The specific ages covered for in particular country may be determined by consulting the full report on the DHS of the country concerned, which is available at: www.measuredhs.com/countries.)

⁴ The reference standards used for stunting and underweight are those established in the 1970s by the World Health Organization, the U.S. Centers for Disease Control, and the U.S. National Center for Health Statistics. Updated stunting and underweight figures based on the recently-released, 2006 World Health Organization reference standards are currently under preparation. When complete, they will be available at: www.worldbank.org/povertyandhealth/countrydata.

⁵ The anemia figures for children living at an altitude above 1,000 meters have been adjusted to reflect the higher level of hemoglobin required.

⁶ In some countries, the BMI is presented for all women; in others, the figure is available only for mothers of children under five years of age. The reference population for any given country can be determined by consulting the full report on the DHS for the country concerned. An electronic version of this report is located at: www.measuredhs.com/countries.

⁷ Anemia cut-off points for respondents who live at an altitude above 1,000 meters and/or who smoke have been adjusted to account for their higher hemoglobin requirements.

D. FEMALE CIRCUMCISION

Prevalence of Circumcision

Girls: percent of women aged 15-49 years with one or more daughters, at least one of whom had been circumcised.

Women: percent of women aged 15-49 years who had been circumcised.

Prevalence of Occlusion

Girls: percent of women aged 15-49 years with one or more daughters, at least one of whom had been circumcised with the vaginal area sewn closed.

Women: percent of women aged 15-49 years whose vaginal area had been sewn closed.

E. SEXUALLY TRANSMITTED DISEASES

Prevalence of Genital Discharge

Women: percent of women aged 15-49 years who had had abnormal genital discharge in the twelve months before the survey.

Men: percent of men aged 15-54 years who had had abnormal genital discharge in the twelve months before the survey.

Prevalence of Genital Ulcer or Sore

Women: percent of women aged 15-49 years who had had a genital ulcer or sore in the twelve months before the survey.

Men: percent of men aged 15-54 years who had had a genital ulcer or sore in the twelve months before the survey.

Part II: INTERMEDIATE DETERMINANTS OF HNP STATUS – HEALTH SERVICE USE

A. CHILDHOOD IMMUNIZATION ⁸

BCG coverage: percent of children who had received a dose of BCG vaccine by the time of the survey.

Measles coverage: percent of children who had received a dose of measles vaccine by the time of the survey.

DPT coverage: percent of children who had received three doses of DPT vaccine by the time of the survey.

Full basic coverage: percent of children who had received a dose of BCG vaccine, measles vaccine, and three doses of DPT and polio vaccines by the time of the survey, excluding polio vaccine given at birth.

No basic coverage: percent of children who had received no vaccination against the six early-childhood diseases (TB, measles, polio, diphtheria, pertusis, and tetanus) by the time of the survey.

Hepatitis B coverage: percent of children who had received three doses of hepatitis B vaccine by the time of the survey.

Yellow fever coverage: percent of children who had received a dose of yellow fever vaccine by the time of the survey.

B. TREATMENT OF CHILDHOOD ILLNESSES ⁹

Treatment of Fever

Medical treatment of fever: percent of children with fever, with or without cough or rapid breathing, in the two weeks before the survey who had sought medical advice for fever from any health facility or health provider, whether public or private.

Treatment in a public facility: percent of children with fever, with or without cough or rapid breathing, in the two weeks before the survey who had sought medical advice for fever from a public-sector health facility or provider (as defined in fn. 9).

Treatment in a private facility: percent of children with fever, with or without cough or rapid breathing, in the two weeks before the survey who had sought medical advice for fever from a private-sector health facility or provider (as defined in fn. 9).

⁸ Childhood immunization figures refer to rates among children 12-23 months of age in all countries except those in Latin America and the Caribbean. There, the figures refer to rates among children 18-29 months of age. All figures are based on information recorded on the child's vaccination card; or, in cases where a card was not seen by the interviewer, on the mother's report.

⁹ Figures for illness treatment in a public facility refer to treatment in government hospitals, health centers, health posts, or dispensaries; or in facilities operated by government-affiliated social securing programs. Figures for treatment in private facilities cover treatment in private hospitals or clinics, in private doctors' offices, or in facilities operated by other private medical providers (such as non-governmental organizations) as defined in the country concerned; but exclude treatment obtained in private pharmacies or shops.

Treatment of Acute Respiratory Infection (ARI)

Medical treatment of ARI: percent of children with a cough and rapid breathing in the two weeks before the survey who had been taken for treatment at any medical facility or provider, whether public or private.

Treatment in a public facility: percent of children with a cough and rapid breathing in the two weeks before the survey who had been taken for treatment at a public-sector health facility or provider (as defined in fn. 9).

Treatment in a private facility: percent of children with a cough and rapid breathing in the two weeks before the survey who had been taken for treatment at a private-sector health facility or provider (as defined in fn. 9).

Treatment of Diarrhea

Use of oral rehydration therapy: percent of children with diarrhea in the two weeks before the survey who had received oral rehydration therapy (ORT) (defined as including consumption of oral rehydration salts, other recommended home fluids, or other increased liquids).

Medical treatment of diarrhea: percent of children with diarrhea in the two weeks before the survey who had been taken for treatment at any medical facility or provider, whether public or private.

Treatment in a public facility: percent of children with diarrhea in the two weeks before the survey who had been taken for treatment at a public-sector health facility or provider (as defined in fn. 9).

Treatment in a private facility: percent of children with diarrhea in the two weeks before the survey who had been taken for treatment at a private-sector health facility or provider (as defined in fn. 9).

C. ANTENATAL AND DELIVERY CARE ¹⁰

Antenatal Care (ANC) Visits

To a medically-trained person: percent of women with one or more births in the five years before the survey who had received at least one antenatal care consultation from a medically-trained person (as defined in fn. 10) before her most recent birth.

To a doctor: percent of women with one or more births in the five years before the survey who had received at least one antenatal care consultation from a doctor before her most recent birth.

To a nurse or trained midwife: percent of women with one or more births in the five years before the survey who had received at least one antenatal care consultation from a nurse or trained midwife (as defined in fn. 10) before her most recent birth.

Multiple visits to a medically-trained person: percent of women with one or more births in the five years before the survey who had received at least three antenatal care consultations from any medically-trained provider (as defined in fn. 10) before her most recent birth.

¹⁰ When speaking of antenatal and delivery care, medically-trained persons are defined as doctors, nurses, and trained midwives. The definition excludes traditional midwives or other traditional birth attendants, whether trained or untrained.

Antenatal Care (ANC) Content

Tetanus toxoid: percent of women with one or more births in the five years before the survey who had received at least one tetanus toxoid injection during her most recent pregnancy.

Prophylactic antimalarial treatment: percent of women with one or more births in the five years before the survey who had received prophylactic treatment with any anti-malarial drug during her most recent pregnancy.

Iron supplementation: percent of women with one or more births in the five years before the survey who had taken iron tablets during her most recent pregnancy.

Delivery Attendance

By a medically-trained person: percent of births in the five years before the survey attended by a medically-trained person (as defined in fn. 10).

By a doctor: percent of births in the five years before the survey attended by a doctor.

By a nurse or trained midwife: percent of births in the five years before the survey attended to by a nurse or a trained midwife (as defined in fn. 10).

In a public facility: percent of all deliveries in the five years before the survey occurring in a public-sector health facility (as defined in fn. 9).

In a private facility: percent of all deliveries in the five years before the survey occurring in a private-sector health facility (as defined in fn. 9).

At home: percent of all deliveries in the five years before the survey occurring at home (defined as the woman's own or any other home).

D. CONTRACEPTIVE SERVICES

Contraceptive Prevalence¹¹

Women: percent of married or in-union women aged 15-49 years who used any modern means of contraception (as defined in fn. 11).

Men: percent of married or in-union men aged 15-54 years who used any modern means of contraception (as defined in fn. 11).

Source of Contraception - Public Sector

Women: percent of married women who obtained their current method of contraception from a public-sector health facility or provider (as defined in fn. 9).

Men: percent of married men who obtained their current method of contraception from a public-sector health facility or provider (as defined in fn. 9).

¹¹ Figures refer to use of modern means of contraception, defined as male/female sterilization, oral contraceptive pill, contraceptive injection, intrauterine device, male/female condom, diaphragm, cervical cap, contraceptive jelly or foam, implant, or some country-specific modern method.

Source of Contraception - Private Sector

Women: percent of married women who obtained their current method of contraception from a private-sector health facility or provider (as defined in fn. 9, except that private pharmacies and shops are included rather than excluded).

Men: percent of married women who obtained their current method of contraception from a private-sector health facility or provider (as defined in fn. 9, except that private pharmacies and shops are included rather than excluded).

E. TREATMENT OF ADULT ILLNESSES

Treatment of Genital Discharge, Ulcer, or Sore

Women: percent of women with genital discharge, ulcer, or sore who sought any medical treatment for resulting symptoms.

Men: percent of men with genital discharge, ulcer, or sore who sought any medical treatment for resulting symptoms.

Treatment of Genital Discharge, Ulcer, or Sore in a Public Facility

Women: percent of women with genital discharge, ulcer, or sore who sought treatment from a public-sector health facility or provider (as defined in fn. 9).

Men: percent of men with genital discharge, ulcer, or sore who sought treatment from a public-sector health facility or provider (as defined in fn. 9).

Voluntary Counseling and Testing for HIV/AIDS

Women: percent of women aged 15-49 years who had been tested for HIV at any time before the survey.

Men: percent of men aged 15-54 years who had been tested for HIV at any time before the survey.

Part III: INTERMEDIATE DETERMINANTS OF HNP STATUS – INDIVIDUAL AND HOUSEHOLD BEHAVIOR

A. HYGIENIC PRACTICES

Disposal of Children’s Stools

Sanitary disposal: percent of mothers with at least one child under five years of age who disposed of the stools of their youngest child in a sanitary manner (defined as dropping stool into a latrine, burying it, or using disposable diapers).

Handwashing

Wash hands prior to preparing food: percent of women aged 15-49 years preparing meals who washed hands before handling food.

Handwashing facilities in household: percent of households that had hand-washing materials or facilities, as determined by direct observation of interviewers.

B. BEDNET OWNERSHIP AND USE

Bednet Ownership

Bednet ownership: percent of households owning one or more bednets.

Treated bednet ownership: percent of households owning one or more bednets that had recently been treated with insecticides.

Bednet Use

By children: percent of households with at least one child under five years of age, some or all of whom had slept under a bednet the night before the survey.

By pregnant women: percent of currently pregnant women who had slept under a bednet the night before the survey.

C. BREASTFEEDING

Exclusive breastfeeding: percent of children 0-3 months of age who had received only breast milk in the 24 hours before the survey.

Timely complementary feeding: percent of children 6-9 months of age who had received breast milk and solid or semi-solid foods in the twenty-four hours before the survey.

Bottle-feeding: percent of children under 12 months of age who had received any food or drink from a bottle with a nipple in the twenty-four hours before the survey.

D. MICRONUTRIENT CONSUMPTION

Iodized Salt

Availability of iodized salt in household: percent of households with cooking salt testing positive for iodine/iodate at the recommended level of 15 or 25 parts per million or more (depending on the country).¹²

Vitamin A

Children: percent of children¹³ who had received at least one dose of vitamin A in the six months before the survey, as reported by the mothers.

Women: percent of women who had received a dose of vitamin A within two months of the last birth, in the five years before the survey.

E. TOBACCO AND ALCOHOL USE

Tobacco¹⁴

Women: percent of women aged 15-49 years who currently were smoking or chewing tobacco products.

Men: percent of men aged 15-54 years who currently were smoking or chewing tobacco products.

Alcohol

Women: percent of women aged 15-49 years who had gotten intoxicated due to excessive consumption of alcohol in the three months before the survey.

Men: percent of men aged 15-54 years who had gotten intoxicated due to excessive consumption of alcohol in the three months before the survey.

F. SEXUAL PRACTICES

Non-Regular Sexual Partnerships

Women: percent of women aged 15-49 years who had had sex with a non-regular partner at least once in the twelve months before the survey.

Men: percent of men aged 15-54 years who had had sex with a non-regular partner at least once in the twelve months before the survey.

¹² Which of these two levels is recommended in any particular country may be determined by consulting the full report on that country's DHS, which may be found at: www.measuredhs.com/countries.

¹³ Figures refer to children over six months of age and under three, four, or five years of age, depending upon the country. (The specific ages covered for in a particular country may be determined by consulting the full report on that country's DHS, which is available at: www.measuredhs.com/countries.)

¹⁴ Tobacco products include cigarettes, pipes, cigars, leaves, etc.

Condom Usage with Non-Regular Partner

Women: percent of women aged 15-49 years with non-regular sexual partner who had used a condom in the last sexual intercourse with such a partner in the twelve months before the survey.

Men: percent of men aged 15-54 years with non-regular sexual partner who had used a condom in the last sexual intercourse with such a partner in the twelve months before the survey.

G. DOMESTIC VIOLENCE

Ever experienced violence: percent of women aged 15-49 years who had ever been hit or beaten by current or former husband/partner.

Experienced violence in past year: percent of women aged 15-49 years who had been hit or beaten by current or former husband/partner in the twelve months before the survey.

Part IV: UNDERLYING DETERMINANTS OF HNP STATUS

A. EDUCATION

School Completion

Women: percent of women aged 15-49 years who had completed the fifth grade.

Men: percent of men aged 15-54 years who had completed the fifth grade.

School Participation

Girls: percent of girls aged 6-10 years who were attending school at the time of the survey.

Boys: percent of boys aged 6-10 years who were attending school at the time of the survey.

B. EXPOSURE TO MASS MEDIA

Newspaper Readership

Women: percent of women aged 15-49 years who read a newspaper at least once a week.

Men: percent of men aged 15-54 years who read a newspaper at least once a week.

Radio Listenership

Women: percent of women aged 15-49 years who listened to radio at least once a week.

Men: percent of men aged 15-54 years who listened to radio at least once a week.

Television Viewership

Women: percent of women aged 15-49 years who watched television at least once a week.

Men: percent of men aged 15-54 years who watched television at least once a week.

C. KNOWLEDGE AND ATTITUDES ABOUT HIV/AIDS

Knowledge about Sexual Transmission of HIV/AIDS¹⁵

Women: percent of women aged 15-49 years who knew of HIV/AIDS and of at least one of the following ways to avoid it through interruption of its sexual transmission route: abstinence; using a condom; avoiding multiple sex partners, sex with prostitutes, and unprotected homosexual sex.

Men: percent of men aged 15-54 years who knew of HIV/AIDS and of at least one of the ways to avoid HIV/AIDS referred to in the preceding definition.

¹⁵ In most countries, the survey sample included both married and unmarried individuals. Where this was the case, all respondents, regardless of marital status, were asked the question covered in this section. Where the survey covered only individuals who were or had been married, the data pertain only to individuals who had ever been married. (The marital status of people covered for in particular country is indicated in the full report on that country's DHS, which is located at: www.measuredhs.com/countries.)

Knowledge about Mother-to-Child Transmission of HIV/AIDS

Women: percent of women aged 15-49 years who knew of at least one way HIV/AIDS can be transmitted from mother to child during pregnancy, delivery, or breastfeeding.

Men: percent of men aged 15-54 years who knew of at least one way HIV/AIDS can be transmitted from mother to child during pregnancy, delivery, or breastfeeding.

Attitudes toward HIV/AIDS

Women: percent of women aged 15-49 years who believed that people with HIV/AIDS should be allowed to continue working or that HIV test results should remain confidential.

Men: percent of men aged 15-54 years who believed that people with HIV/AIDS should be allowed to continue working or that HIV test results should remain confidential.

D. STATUS OF WOMEN

Household Decisionmaking

Can seek own health care: percent of women age 15-49 years who could decide by themselves to seek their own health care.

Can seek children's health care: percent of women aged 15-49 years, whose children live with them, who could decide by themselves to seek health care for their children.

Can make daily household purchases: percent of women aged 15-49 years who could decide by themselves or jointly with others to make daily household purchases.

Can make large household purchases: percent of women aged 15-49 years who could decide by themselves or jointly with others to make large household purchases.

Can make meal-related decisions: percent of women aged 15-49 years who could decide by themselves what food to cook daily.

Freedom of Movement

Can travel to visit family, relatives: percent of women aged 15-49 years who could decide by themselves to visit family and relatives.

Other Decisionmaking, Attitudes

Can decide how to spend own money: percent of women aged 15-49 years who work for cash who could decide by themselves on how to use the money they earn.

Can decide whether to have sex: percent of women aged 15-49 years agreeing that they can refuse to have sex with their husband for at least one of the following reasons: he has a sexually-transmitted disease; he has had sexual relations with another woman; or the woman is tired, not in mood, or recently has given birth.

Justify domestic violence: percent of women aged 15-49 years believing that a husband/male partner would be justified in beating his wife/female partner for at least one of the following reasons: he suspects her of being unfaithful; she argues with him; she goes out without telling him; she neglects the children; she burns the food; or other, country-specific reasons (for example, she shows disrespect for her in-laws or her family does not give the expected dowry).

E. ORPHANHOOD

Maternal orphan prevalence: percent of children under 15 years of age whose natural mother had died before the survey.

Paternal orphan prevalence: percent of children under 15 years of age whose natural father had died before the survey.

Double orphan prevalence: percent of children under 15 years of age both of whose natural parents had died before the survey.

DATA AND METHODS

Any assessment of the figures featured in this report requires an appreciation of how they were prepared. The first need is to understand the basic features of the data and methods employed.

A. SOURCE OF FIGURES

The figures appearing in this report are all derived from data collected under the Demographic and Health Surveys (DHS) program conducted by ORC Macro, with support from the U.S. Agency for International Development and other external assistance organizations. Large DHS household surveys have been carried out, usually at periodic intervals, in approximately seventy-five countries across Africa, Asia, Latin America, the Middle East, and the former Soviet Union.¹⁶ This series of reports covers the fifty-six of those countries that had one or more DHS surveys undertaken since 1990, for which data were publicly available as of June 2006. (Annex C is a list of the countries for which reports have been prepared.)

In each country, the DHS program has gathered information on a large number of indicators about health, nutrition, and population (hnp) status and service use; about relevant behaviors of household members; and about household characteristics like those described below. It has done this through a set of questionnaires, similar in all countries, to collect data at the individual, household, and community levels.

The data presented here draw on responses to the individual and household questionnaires. In most cases, they are based on responses from women or other family members interviewed. The principal exceptions concern nutritional status, which is based on anthropometric measurement; immunization, which typically relies to the extent possible on record cards maintained at the household level; and those other items where a source other than interviewer response is specifically identified.

B. MEASUREMENT OF ECONOMIC STATUS

Wealth or Asset Approach

Economic status has been expressed in terms of wealth or assets: specifically, on the basis of information about household characteristics gathered through the DHS household questionnaire. (Such information was normally provided for at least 25-30, and often many more, characteristics like the presence, availability, or use of a fan, radio receiver, or automobile; housing materials like wood or concrete flooring, tile or tin roofing, or cement block walls; superior sources of water like piped or a protected well; and other attributes related to economic status.)

¹⁶ Further information about the DHS program is available at the program's website: www.measuredhs.com.

Index Construction

A single, consolidated index of living standards¹⁷ was constructed by using principal components analysis (PCA) to generate a weight for each household item with available information. A wealth index score was calculated for each household by weighting the response with respect to each item pertaining to that household by the coefficient of the first principal component as determined by application of principal components analysis, and summing the results. The resulting household scores were standardized in relation to a standard normal distribution with a mean of zero and a standard deviation of one.

All individuals usually present in each household were assigned the household's standardized wealth index score, and all individuals in the sample population were ranked according to that score. The sample population was then divided into quintiles of individuals, with all individuals in a single household being assigned to the same quintile.

The same standardized household wealth index scores originally derived for the total population sample, as just described, were also used in preparing the disaggregated estimates for female and male members of the sample population, and for rural and urban residents. In preparing those disaggregated estimates, the entire population sample was divided into quintiles of individuals; the females and males, and the rural and urban residents in each quintile of the entire sample were then separated from one another; and the mean for each of the ten resulting subgroups (five female, five male; or five rural, five urban) was calculated.

This procedure was carried out separately for each of the surveys covered.

C. CALCULATION AND PRESENTATION OF RATES

Use of Sampling Weights

Rates for all health, nutrition, and population indicators are calculated after applying the DHS sampling weights. (DHS surveys often over-sample certain small subgroups of interest – residents of a particular geographic area, for example – in order to get sample sizes large enough to produce statistically-significant results. The DHS sampling weights are used to compensate for such over-sampling in order to ensure that the results are representative of the population as a whole and not just of the DHS sample.)

Calculation of Total Population Averages

The average for the total population presented alongside the quintile-specific rates for each indicator is calculated without reference to quintile divisions. It thus equals the weighted mean of the quintile rates, with the weight assigned to each quintile rate being the proportion of the number of individuals at risk (as defined on p. 59) for the indicator concerned.

Sampling Errors

Information needed to assess the statistical significance of differences among the quintile-specific rates is presented in three ways:

- First, in all the basic tables presented in part I, rates are shown in parentheses or replaced by asterisks in cases where the standard error is likely to be unacceptably high because

¹⁷ Such an index is usually referred to as either an “asset index” or a “wealth index.” The two expressions are used interchangeably in this report; for ease of communication, “wealth index” appears more frequently despite the inexact correspondence between the items included in the index's construction and those appearing in more conventional, financially-based definitions of wealth.

of small sample size. The number of observations used to determine how to present the data for the different indicators covered were as follows:

Indicator	Unit of measure	Number of observations used to determine how quintile-specific rate was presented		
		<i>Without parentheses</i>	<i>With parentheses</i>	<i>Replaced by asterisk</i>
Infant and child mortality	Number of deaths	>500	250-499	<250
Total and adolescent fertility	Number of births	>250	125-249	<125
All other indicators	Number of individuals	>50	25-49	<25

- Second, the standard error for each quintile-specific rate (except for any rate replaced by an asterisk) appearing in the total population table is provided in part III.B. (Standard errors for the quintile-specific rates presented in the female-male and rural-urban tables are not available.)

- Third, the right-hand column of the total population table provides the standard error for the concentration index, one of the measures of inequality shown, as indicated below.

D. MEASUREMENT OF INEQUALITY

Accompanying each of the indicators presented in the total population table are the values for three statistical measures of inequality:

- *Low/High Quintile Ratio*: the ratio between the rate prevailing in the lowest (poorest) population quintile and that found in the highest (least poor) quintile.

- *Low-High Quintile Difference*: the value of the lowest quintile minus the value of the highest, expressed as an absolute value.

- *Concentration Index*: twice the area in a Lorenz-type diagram between the line of equality and the concentration curve for the indicator in question, the curve being the graph of the cumulative share of the indicator against the cumulative share in the asset distribution. (The value, which can range from -1 to +1, is negative when the hnp indicator is higher among the poor (e.g., fertility), positive when it is higher among the better-off (e.g., modern contraceptive use), and zero when on balance the indicator shows no systematic relationship with wealth.)¹⁸

¹⁸ Adam Wagstaff, Pierella Paci, and Eddy van Doorslaer, "On the Measurement of Inequalities of Health," *Social Science and Medicine* 33 (1991): 545-57. (See also chapter eight in the volume by O'Donnell, van Doorslaer, Wagstaff, and Lindelow described in the annotated bibliography that constitutes annex A.)

DISCUSSION

While a basic understanding of the data and methods employed is necessary to adequately appreciate the figures appearing in this report, it is not sufficient. For the application of the approach taken involves many subtleties that also need to be understood. Among the more important are:

A. DESCRIPTIVE NATURE OF THE RELATIONSHIPS

The hnp-poverty relationships shown in this report are no more than descriptive. They should not be taken to imply any direct causal relationships, for several reasons.

One reason is the possibility that it is not wealth or asset possession *per se* that determine a person's health condition. Rather, the determining factors could be other characteristics (such as education or ethnic background) that are simultaneously associated with both asset ownership and health status.

It is also possible that the health-poverty relationships shown are driven primarily by particular items included in the index (e.g., water and sanitation). Should this be the case, improvements in health conditions among the poor might be more effectively brought about by focusing on changing those particular components of the wealth index rather than by a general effort to increase economic status as measured by the index as a whole.

B. IMPLICATIONS OF A WEALTH/ASSET APPROACH

Wealth or Assets as a Measure of Economic Status

Reliance on a wealth index to measure economic status is a rather recent development in research on economic disparities, where such status traditionally has been defined in terms of consumption or income. The principal reason for the choice of the wealth index is pragmatic rather than conceptual: the DHS surveys, which are of interest because of the plethora of hnp information that they contain, do not collect consumption or income data; but they do have detailed information on households' physical characteristics, and on the household-level presence of and access to a wide range of goods and services. While there is some disagreement about the relative merits of using such wealth/asset information or consumption data to measure economic status, several recent studies suggest that the asset-consumption relationship is quite close.¹⁹ To the extent this is the case, an index of wealth or asset possession/availability can be taken as a

¹⁹ See, for example, Deon Filmer and Lant H. Pritchett, "Estimating Wealth Effects without Expenditure – or Tears: An Application to Educational Enrollments in States of India," *Demography* 38, no. 1 (February 2001): 115-32; Shea Rutstein and Kiersten Johnson, *The DHS Wealth Index*, DHS Comparative Reports No. 6 (Calverton, Maryland, USA: ORC Macro, August 2004) esp. 10-14; Adam Wagstaff and Naoko Watanabe, "What Difference Does the Choice of SES Make in Health Inequality Measurement?" *Health Economics* 12 (2003): 885-90.

reasonably satisfactory proxy for consumption, rather than or in addition to serving as an indicator of economic status in its own right.

C. ECONOMIC STATUS AS A MEASURE OF SOCIO-ECONOMIC WELL-BEING

Like consumption or income, a wealth index defines disparities that are primarily economic. This is by no means the only way to define inter-group inequalities that are of potential concern. Other possibilities include gender, place of residence, education, ethnic background, or other factors associated with social exclusion. Thus the economic perspective provides only a partial view of the multidimensional concepts of poverty, inequality, and inequity.

By including tables on female-male and rural-urban inequalities, this report pays adequate attention to two of inequality's other important dimensions to justify the use of the term "socio-economic" rather than simply "economic" in its title. However, the centrality of tabulations based on the wealth index means that the primary focus is on the economic dimension. The justification for this lies not in the greater importance of economic considerations, but rather in the recently-improved ability to analyze and thus begin dealing with them. Until the development of the wealth/asset approach, the assessment of economic status had been based on consumption, expenditures, or income, all of which are far more difficult to measure than such other, non-economic dimensions of inequality as gender, ethnic identity, educational level, and place of residence. As a result, assessments of health inequalities by economic status had lagged well behind measurements in terms of these other dimensions, especially gender and education. The focus on inequality's economic aspect applied here represents an effort to redress this imbalance.

D. INDEX CONSTRUCTION

Choice of Items

Use of a wealth index requires decisions about which items to include in it. In the case of secondary analyses like the one featured in this report, the choice is limited to those items included in the data sets being used. But even with this constraint, there nonetheless remains considerable room for choice, given the large number of items for which information is collected by the DHS.

The decision made in preparing this report was to include all items in each DHS household questionnaire that relate to ownership of household goods; to dwelling unit construction and characteristics; and to access to services and resources like electricity, water, and sanitation facilities. Also included were other potential indicators of wealth, such as live-in domestic servants. This decision, admittedly somewhat arbitrary, has both advantages and disadvantages.

The principal advantage is practical: use of a large number of assets increases the degree of variation across household asset scores and facilitates a more regular distribution of individuals across quintiles. It also reduces the possibility of subjectivity in selecting only some of the variables for inclusion on some *a priori* basis; and it may increase a wealth index's accuracy as a proxy for consumption.

However, including all variables is far from satisfying conceptually. For example, it means failing to discriminate with respect to the items' differing natures. It is not clear, for instance, whether access to water, sanitation, electricity, or other publicly-provided resources should be included in an index that purports to measure private household wealth.

Further, many items that are candidates for inclusion in a DHS-based wealth index might be seen as directly influencing health status: water and sanitation for infant and child mortality, for

example. It would be desirable to include quintile-specific estimates for such items; but to the extent that such items have large index coefficients, any estimates for those items would be suspect. Such items appear to be relatively few and of limited statistical significance in the index used here. However, for the sake of caution, quintile-specific estimates for items appearing in the index have nonetheless been excluded from the basic tables and appear only in supporting table III.C

Additional issues arise when comparing the findings for two different points in time covered in the basic tables. Because the nature and number of asset questions included in DHS surveys has been evolving, the items included in the wealth index differ somewhat for each of the surveys reported upon. As such, the results presented in the basic tables might differ to some extent from findings produced by some other approach, such as including in the index only those items appearing in each survey covered.

Weighting of Items

A further decision required in construction of an index concerns the weight to attach to each of the respective items. As noted earlier, the method used in this report is principal components analysis (PCA).

Adoption of this method was based on the findings, referred to earlier, that its use resulted in outcomes that approximated reasonably well those produced by taking a consumption or expenditure approach. Further, it often provides greater discrimination in economic status than does the use of consumption/expenditures. It has also emerged as the standard approach for use in analyses of the sort presented here, so that its adoption is largely non-controversial.

Yet this choice, too, is not without an arbitrary aspect; for alternative plausible methods exist. Examples include the “inverse possession” approach, which gives more weight to items possessed by only a few and less to those possessed by many;²⁰ or, perhaps, the common practice of simply assigning the same weight to each index item.

Also, the weights for any particular item vary from survey to survey, since the weights were determined separately for the population of each survey included in the basic tables. The results thus produced can be expected to differ from those generated in some other manner, such as generating common weights for all the surveys covered by pooling the data sets.

Use of Principal Components Analysis with Dichotomous Variables

An additional issue concerns the use of a technique like PCA, developed for use with continuous variables, in the construction of an index based primarily on dichotomous variables. While legitimate in principle, any reservations in this regard are of limited practical consequence, since the considerable experimentation undertaken in preparation for the tabulations presented here indicated that any inaccuracy introduced by applying PCA to the analysis of the dichotomous values used is minimal.

Economies of Scale

Calculating the values for a household wealth index also requires a decision concerning economies of scale that exist in the households covered. The calculations presented here assume complete economies of scale. The implicit assumption is that additional members do not add to household expenses on items included in the index.

²⁰ Saul S. Morris et al., “Validity of Rapid Estimates of Household Wealth and Income for Health Surveys in Rural Africa,” *Journal of Epidemiology and Community Health* 54 (2000): 381-87.

E. DEFINITION OF QUINTILES

Quintiles of Individuals

As noted earlier, the quintile-specific figures presented in this report refer to quintiles of individuals in the household population. Such quintiles need to be distinguished from quintiles of households or quintiles of only those people in the population who are “at risk”: that is, subject to the particular condition, eligible for the particular service, or capable of behaving in a particular way (children born alive for infant and under-five mortality, for example; or adult men and women for condom use or non-regular sexual partnerships).

The expression of findings in terms of quintiles of individuals has several implications:

- Because fertility is often higher in lower economic households than among better-off ones, the number of individuals per household will frequently be larger among the poor than among higher-income groups. In such cases, the number of households will vary systematically across quintiles of individuals, and the results expressed in terms of quintiles of households can differ significantly from those presented here.

- The proportion of individuals “at risk” with regard to a particular indicator is also likely to vary across quintiles in many cases. (For example, in cases where fertility is higher among poor people, a higher-than-average proportion of poor populations will consist of newborns at risk from infant mortality, young children subject to malnutrition, and pregnant women for whom antenatal care is relevant.) To facilitate the work of any investigators wishing to undertake calculations based on people at risk, the number of such people in each quintile of individuals is shown in part III.A.

- As previously indicated, the population average figure provided for each indicator is equivalent to the weighted sum of the quintile rates for that indicator, where the weight assigned to each quintile rate is the number of people at risk in each quintile as presented in part III.A. As a result of this weighting, the population average will usually differ from a simple mean of the population quintile estimates.

Quintiles of Males and Females, of Rural and Urban Residents

As also reported in the data and methods section, the tables on rural and urban residents and on men and women were prepared using the same asset scores as for the total population; and rural-urban residents and females-males were separated from one another only after the entire sample had been disaggregated into quintiles of individuals. This means that the figures given in the rural-urban and female-male tables refer to females-males and rural-urban residents belonging to each quintile of individuals in the total population, as distinct from quintiles of females, of males, of rural residents, or of urban residents alone.

The consequence of this distinction is particularly evident with regard to rural and urban residents. Since rural residents tend to be poorer than urban dwellers, they normally form a considerably higher proportion of individuals in the lower economic quintiles of the total population than in the higher ones. Conversely, urban residents tend to be concentrated in the higher economic groups. As a result, the number of individuals in each of the urban and rural quintiles usually varies greatly and systematically; and when this is the case, the figures presented in the rural-urban tables can differ significantly from those produced by a computation procedure that places the same number of rural and urban residents in each rural quintile or each urban quintile. (The results may also differ significantly from application of an approach featuring the separate calculation of index values for urban and for rural groups. While such separate index values may well be preferable conceptually, their calculation involves complexities that prevented their preparation for this report.)

F. COMPARISON OF QUINTILES ACROSS COUNTRIES

Reliance on population quintiles as basic presentational format for the data appearing in this report implicitly incorporates a relative concept of poverty. This differs from an absolute concept of poverty under which the population would be divided into groups of different sizes according to some absolute standard of living (such as people earning less than one dollar a day, between one and two dollars a day, and more than two dollars a day).

This means that, when comparing values of an indicator among people in a given quintile across countries, the comparison is between groups of people whose economic status can be quite different. The lowest quintile of a Latin American population, for example, will usually be considerably better-off than the lowest quintile in an African country.

G. COMPARISON OF QUINTILES OVER TIME

Another implication is that the wealth status of any given quintile within a particular country is likely to change over time. For instance, when a country is progressing economically, the wealth of the households in the population will tend to increase. This will raise the average asset score in most, possibly all population quintiles. As a result, the living standard enjoyed by individuals in any quintile covered by a recent survey is likely to be higher than that of individuals in that same quintile as measured in a prior survey.

H. STATISTICAL INDICATORS OF INEQUALITY

The available statistical indicators of inequality are far too numerous to permit use of more than a small proportion of them in presenting the findings featured in this report. The three indicators employed have been selected to provide a wide range of perspectives. Two are designed for ease of understanding, the third for greater technical accuracy.

The low/high quintile ratio and low-high quintile difference are the two presented for ease of understanding. The former is a relative measure, the latter an absolute measure that can produce a significantly different impression from that provided by the former.

The concentration index is provided for the benefit of technical specialists wishing greater accuracy. It measures the degree of inequality in an hnp indicator across the full wealth index distribution, rather than differences between only two of the five quintiles, and also reflects the relative size of the different asset-based divisions of the study population.

I. COMPARABILITY WITH OTHER REPORTS

Tabulations similar to those presented here can also be found in the initial series of hnp/poverty country reports, issued in 2000, and in the recent country reports issued by the DHS program. The figures presented in those reports normally resemble quite closely those appearing here for any given indicator; but there are often slight differences for one or more of several reasons. The most common is a difference in the definition of the indicator in question. (These differences are usually small and subtle. But there is one important exception: the definition of moderate malnutrition among children. In the 2000 reports, this was defined as second and third degree malnutrition taken together. Here, it is defined as second degree malnutrition alone.) Another reason, with respect to infant and child mortality, is that the figures in the DHS documents are typically based on experience during the five years before the survey in question, rather than

during the ten previous years as in this report. A further frequent reason is the use of an improved computational technique.

In addition, asset-based, quintile-specific tabulations of hnp indicators have begun to appear in an increasing number of other documents. Given the basic similarity of approach, such tabulations usually produce results that are generally congruent with those shown in part I of this report. However, significant divergences have occasionally been reported; and the absence of adequately detailed information about data and methods often prevents any fully-satisfying understanding of the approaches used. As a result, occasional doubts and frequent uncertainties about approach comparability remain.

PART IV. SUPPORTING TABLES, 2000 / 01

- A. SAMPLE SIZES**
- B. STANDARD ERRORS**
- C. ASSET DISTRIBUTION AND WEIGHTS**

Uganda
2000 / 01 - SAMPLE SIZES

TOTAL SAMPLE

Indicator	Wealth Quintiles					Pop. Total
	Low	2nd	3rd	4th	High	
Number of household members						
All	7,563	7,580	7,559	7,554	7,581	37,836
Urban	54	70	168	582	4,027	4,901
Rural	7,509	7,510	7,390	6,972	3,554	32,936
Female	3,874	3,879	3,902	3,844	3,903	19,402
Male	3,688	3,701	3,657	3,710	3,678	18,434

Part I: HNP STATUS

Indicator	Wealth Quintiles					Pop. Total
	Low	2nd	3rd	4th	High	
Mortality rates						
All	3,095	2,995	2,925	2,738	2,373	14,126
Urban	23	19	61	202	1,255	1,560
Rural	3,072	2,976	2,864	2,536	1,118	12,566
Female	1,560	1,471	1,479	1,321	1,167	6,999
Male	1,534	1,524	1,446	1,417	1,206	7,127
Prevalence of fever, diarrhea, acute respiratory infection						
All	1,495	1,480	1,397	1,304	1,135	6,811
Urban	9	9	29	97	623	767
Rural	1,485	1,471	1,367	1,207	513	6,043
Female	773	756	730	609	571	3,439
Male	722	724	667	695	565	3,373
Total fertility rate						
All	3,900	3,897	3,797	3,993	4,715	20,302
Urban	29	35	84	354	2,834	3,336
Rural	3,871	3,863	3,712	3,639	1,881	16,966
Age-specific fertility rate 15-19						
All	967	939	847	911	1,303	4,966
Urban	3	14	17	98	822	954
Rural	964	925	829	813	481	4,012
Children's nutritional status						
All	1,261	1,238	1,187	1,077	840	5,604
Urban	7	8	23	75	423	536
Rural	1,254	1,231	1,163	1,003	417	5,068
Female	659	616	641	489	416	2,821
Male	602	622	546	588	424	2,782
Children's anemia status						
All	1,142	1,159	1,071	993	734	5,100
Urban	7	6	22	65	368	468
Rural	1,135	1,153	1,049	928	367	4,632
Female	551	577	496	544	371	2,539
Male	591	582	575	449	364	2,561

Uganda
2000 / 01 - SAMPLE SIZES

Part I: HNP STATUS (Cont.)

Indicator	Wealth Quintiles					Pop. Total
	Low	2nd	3rd	4th	High	
Women's nutritional status						
All	1,068	1,050	1,060	1,109	1,314	5,601
Urban	7	9	23	96	778	913
Rural	1,061	1,041	1,037	1,012	536	4,687
Women's anemia status						
All	1,282	1,294	1,253	1,303	1,416	6,548
Urban	9	11	25	110	812	967
Rural	1,273	1,283	1,228	1,192	604	5,580
Girls' circumcision						
All	na	na	na	na	na	na
Urban	na	na	na	na	na	na
Rural	na	na	na	na	na	na
Women's circumcision						
All	na	na	na	na	na	na
Urban	na	na	na	na	na	na
Rural	na	na	na	na	na	na
Prevalence of genital discharge, ulcer, sore						
Female	1,259	1,243	1,193	1,247	1,456	6,398
Urban Female	9	11	26	116	879	1,041
Rural Female	1,250	1,232	1,167	1,131	577	5,357
Male	337	358	289	318	341	1,643
Urban Male	2	3	8	40	224	277
Rural Male	335	355	281	278	117	1,366

Uganda

2000 / 01 - SAMPLE SIZES

Part II: Intermediate Determinants of HNP Status - HNP SERVICE USE

Indicator	Wealth Quintiles					Pop. Total
	Low	2nd	3rd	4th	High	
Immunization coverage						
All	341	352	295	277	239	1,504
Urban	1	2	6	23	135	167
Rural	340	350	289	254	104	1,337
Female	175	176	159	111	121	742
Male	166	176	136	166	118	762
Treatment of fever						
All	716	716	566	577	416	2,992
Urban	3	2	14	35	199	253
Rural	712	714	553	542	218	2,739
Female	340	356	298	298	216	1,508
Male	376	360	269	279	200	1,484
Treatment of acute respiratory infection						
All	349	371	294	304	213	1,531
Urban	1	1	6	18	116	142
Rural	348	370	288	286	97	1,389
Female	174	181	150	149	109	763
Male	176	190	143	154	104	767
Treatment of diarrhea						
All	379	337	241	213	164	1,333
Urban	3	2	4	19	91	119
Rural	376	335	236	194	73	1,214
Female	186	169	124	91	75	645
Male	192	168	117	122	89	688
Antenatal and delivery care						
All	980	955	897	851	806	4,489
Urban	6	7	19	69	458	559
Rural	973	949	878	782	348	3,930
Contraceptive prevalence						
Female	1,042	1,029	945	926	939	4,881
Urban Female	7	7	15	62	545	636
Rural Female	1,035	1,022	930	865	394	4,246
Male	na	na	na	na	na	na
Urban Male	na	na	na	na	na	na
Rural Male	na	na	na	na	na	na
Contraceptive source						
Female	117	96	113	181	381	889
Urban Female	1	1	3	13	246	264
Rural Female	117	95	110	167	135	624
Male	na	na	na	na	na	na
Urban Male	na	na	na	na	na	na
Rural Male	na	na	na	na	na	na
Treatment of genital discharge, ulcer, sore						
Female	150	174	154	246	337	1,061
Urban Female	1	1	3	28	202	235
Rural Female	150	173	151	218	135	827
Male	na	na	na	na	na	na
Urban Male	na	na	na	na	na	na
Rural Male	na	na	na	na	na	na

Uganda

2000 / 01 - SAMPLE SIZES

Part III: Intermediate Determinants of HNP Status - INDIVIDUAL AND HOUSEHOLD BEHAVIOR

Indicator	Wealth Quintiles					Pop. Total
	Low	2nd	3rd	4th	High	
Sanitary disposal of stools						
All	na	na	na	na	na	na
Urban	na	na	na	na	na	na
Rural	na	na	na	na	na	na
Wash hands prior to preparing food						
All	1,378	1,378	1,353	1,431	1,705	7,245
Urban	10	12	29	128	1,028	1,207
Rural	1,368	1,366	1,324	1,303	678	6,039
Handwashing facilities in household?						
All	1,781	1,632	1,485	1,468	1,651	8,017
Urban	18	19	42	168	1,036	1,283
Rural	1,763	1,613	1,443	1,300	615	6,734
Bednet ownership						
All	1,781	1,632	1,485	1,468	1,651	8,017
Urban	18	19	42	168	1,036	1,283
Rural	1,763	1,613	1,443	1,300	615	6,734
Bednet use by children						
All	1,053	1,016	958	883	911	4,821
Urban	7	8	23	80	526	644
Rural	1,046	1,008	935	804	385	4,178
Bednet use by pregnant women						
All	190	225	173	164	157	909
Urban	2	2	3	11	78	96
Rural	188	223	170	153	78	812
Exclusive breastfeeding						
All	101	83	103	90	67	444
Urban	1	1	0	10	31	43
Rural	100	82	103	80	37	402
Female	50	42	51	50	29	222
Male	51	41	52	40	38	222
Timely complementary breastfeeding						
All	112	121	90	84	81	488
Urban	1	1	1	6	48	57
Rural	111	120	89	78	33	431
Female	63	53	46	46	48	256
Male	49	68	44	38	32	231
Bottle-feeding						
All	356	314	309	271	234	1,484
Urban	3	2	4	24	137	170
Rural	353	313	305	247	97	1,315
Female	172	163	149	146	130	760
Male	184	152	160	125	104	725

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2000 / 01 - SAMPLE SIZES

Part III: Intermediate Determinants of HNP Status - INDIVIDUAL AND HOUSEHOLD BEHAVIOR (Cont.)

Indicator	Wealth Quintiles					Pop. Total
	Low	2nd	3rd	4th	High	
Iodized salt in household						
All	na	na	na	na	na	na
Urban	na	na	na	na	na	na
Rural	na	na	na	na	na	na
Vitamin A supplementation						
All	1,329	1,347	1,223	1,175	1,022	6,096
Urban	8	8	28	84	561	689
Rural	1,321	1,340	1,195	1,091	461	5,408
Female	651	650	581	627	509	3,018
Male	678	697	642	547	513	3,077
Tobacco and alcohol use, casual sexual partners, condom use for casual sex						
Female	1,378	1,378	1,353	1,431	1,705	7,245
Urban Female	10	12	29	128	1,028	1,207
Rural Female	1,368	1,366	1,324	1,303	678	6,039
Male	380	417	346	408	412	1,963
Urban Male	2	4	10	47	262	325
Rural Male	378	413	336	361	150	1,638
Domestic violence						
All	na	na	na	na	na	na
Urban	na	na	na	na	na	na
Rural	na	na	na	na	na	na

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2000 / 01 - SAMPLE SIZES

Part IV: UNDERLYING DETERMINANTS OF HNP STATUS

Indicator	Wealth Quintiles					Pop. Total
	Low	2nd	3rd	4th	High	
School completion (Grade 5)						
Female	1,510	1,476	1,443	1,492	1,889	7,810
Urban female	10	13	33	135	1,112	1,304
Rural female	1,500	1,463	1,410	1,357	777	6,506
Male	1,368	1,373	1,318	1,423	1,704	7,187
Urban male	8	14	29	132	1,042	1,225
Rural male	1,360	1,359	1,290	1,291	662	5,962
School participation						
Female	638	658	681	759	655	3,392
Urban female	4	7	15	51	298	374
Rural female	634	651	667	708	357	3,017
Male	621	700	683	670	613	3,287
Urban male	5	5	16	44	281	352
Rural male	616	695	667	626	332	2,935
Mass media exposure						
Female	1,378	1,378	1,353	1,431	1,705	7,246
Urban female	10	12	29	128	1,028	1,207
Rural female	1,368	1,366	1,324	1,303	678	6,039
Male	na	na	na	na	na	na
Urban male	na	na	na	na	na	na
Rural male	na	na	na	na	na	na
Knowledge of HIV/AIDS prevention						
Female	2,731	1,378	1,353	1,431	1,705	8,598
Urban female	10	12	29	128	1,028	1,207
Rural female	1,368	1,366	1,324	1,303	678	6,039
Male	380	417	346	408	412	1,962
Urban male	2	4	10	47	262	325
Rural male	378	413	336	361	150	1,638
Household decisionmaking and justification of violence						
All	1,378	1,378	1,353	1,431	1,705	7,246
Urban	10	12	29	128	1,028	1,207
Rural	1,368	1,366	1,324	1,303	678	6,039
Orphanhood						
All	3,751	3,870	3,999	3,928	3,488	19,035
Urban	26	29	88	267	1,647	2,057
Rural	3,725	3,841	3,911	3,661	1,840	16,978
Female	1,882	1,904	2,017	1,971	1,785	9,558
Male	1,869	1,966	1,982	1,957	1,702	9,476

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2000 / 01 - STANDARD ERRORS OF QUINTILE ESTIMATES FOR TOTAL POPULATION

Part I: HNP STATUS

Indicator	Wealth Quintiles					
	Low	2nd	3rd	4th	High	Avg.
A. Childhood illness and mortality						
Infant mortality rate	7.77	7.28	7.36	6.66	5.63	3.69
Under-five mortality rate	11.43	9.59	8.56	9.44	7.62	5.32
Prevalence of fever	1.94	1.77	1.74	1.92	2.03	1.06
Prevalence of diarrhea	1.47	1.69	1.23	1.18	1.27	0.73
Prevalence of acute respiratory infection	1.71	1.76	1.43	1.36	1.52	0.72
B. Fertility						
Total fertility rate	0.24	0.25	0.26	0.22	0.16	0.14
Adolescent fertility rate	13.00	14.00	18.00	13.00	9.00	7.00
C. Nutritional status						
<i>Children:</i>						
Moderate stunting	1.68	1.63	1.70	1.54	1.34	0.74
Severe stunting	1.53	1.35	1.24	1.33	1.06	0.75
Moderate underweight	1.36	1.50	1.45	1.30	1.20	0.73
Severe underweight	0.87	0.99	0.71	0.68	0.52	0.40
Mild anemia	1.71	1.36	1.65	1.47	1.88	0.76
Moderate anemia	2.11	2.00	1.79	2.20	2.10	1.10
Severe anemia	0.93	1.10	0.99	1.00	0.57	0.47
<i>Women:</i>						
Malnutrition	1.30	1.31	1.04	1.13	0.54	0.50
Mild anemia	1.57	1.42	1.42	1.53	1.18	0.77
Moderate anemia	1.00	1.14	0.80	1.13	0.60	0.54
Severe anemia	0.30	0.39	0.17	0.23	0.22	0.14
D. Female circumcision						
<i>Prevalence of circumcision:</i>						
Girls	na	na	na	na	na	na
Women	na	na	na	na	na	na
<i>Prevalence of occlusion:</i>						
Girls	*	*	*	*	*	*
Women	*	*	*	*	*	*
E. Sexually transmitted disease						
<i>Prevalence of genital discharge:</i>						
Women	0.87	1.18	1.06	1.36	0.87	0.52
Men	0.55	0.81	0.30	1.01	0.62	0.37
<i>Prevalence of genital ulcer:</i>						
Women	0.80	0.93	0.93	1.43	1.11	0.56
Men	1.10	0.72	0.93	1.01	1.35	0.45

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2000 / 01 - STANDARD ERRORS OF QUINTILE ESTIMATES FOR TOTAL POPULATION

Part II: Intermediate Determinants of HNP Status - HNP SERVICE USE

Indicator	Wealth Quintiles					
	Low	2nd	3rd	4th	High	Avg.
A. Childhood immunization						
BCG coverage	3.21	2.68	2.95	2.99	2.54	1.45
Measles coverage	3.39	3.19	4.14	3.67	3.85	1.84
DPT coverage	3.31	3.42	3.92	3.73	3.75	1.96
Full basic coverage	3.13	3.18	3.89	3.56	4.00	1.84
No basic coverage	2.49	1.88	2.28	2.63	2.26	1.17
Hepatitis B coverage	na	na	na	na	na	na
Yellow fever coverage	na	na	na	na	na	na
B. Treatment of childhood illnesses						
<i>Treatment of fever:</i>						
Medical treatment of fever	2.66	2.54	3.41	2.44	2.30	1.38
Treatment in a public facility	3.13	2.83	2.26	2.21	2.77	1.44
Treatment in a private facility	3.04	2.85	3.45	2.99	3.03	1.63
<i>Treatment of acute respiratory infection (ARI):</i>						
Medical treatment of ARI	4.32	3.06	3.74	4.34	3.15	1.81
Treatment in a public facility	3.58	3.52	3.16	3.44	2.87	1.55
Treatment in a private facility	3.73	3.31	4.25	4.01	3.50	1.85
<i>Treatment of diarrhea:</i>						
Use of oral rehydration therapy	3.49	3.41	3.97	3.97	3.84	1.81
Medical treatment of diarrhea	4.18	3.72	4.65	3.88	3.83	1.89
Treatment in a public facility	3.04	3.40	3.66	3.22	2.65	1.66
Treatment in a private facility	2.86	3.01	3.90	4.09	3.67	1.68
C. Antenatal and delivery care						
<i>Antenatal care (ANC) visits:</i>						
To a medically trained person	1.41	1.25	1.22	1.26	1.06	0.60
To a doctor	0.79	0.86	1.13	1.26	1.72	0.61
To a nurse or trained midwife	1.30	1.44	1.41	1.56	1.77	0.76
Multiple visits to a medically trained person	2.19	2.31	2.12	2.01	1.21	1.15
<i>Antenatal care content:</i>						
Tetanus toxoid	2.12	1.84	1.94	2.17	1.65	1.11
Prophylactic antimalarial treatment	2.22	2.69	2.54	2.34	1.90	1.50
Iron supplementation	2.10	2.32	2.54	2.10	1.96	1.22
<i>Delivery attendance:</i>						
By a medically trained person	1.67	2.41	2.30	3.06	1.86	1.58
By a doctor	0.38	0.42	0.49	0.63	1.09	0.29
By a nurse or trained midwife	1.58	2.35	2.29	2.84	1.78	1.49
In a public facility	1.04	2.34	1.86	2.82	2.39	1.28
In a private facility	1.18	1.16	1.17	1.45	2.14	0.80
At home	1.53	2.41	2.15	3.05	1.91	1.56
D. Contraceptive services						
<i>Contraceptive prevalence:</i>						
Women	1.29	1.06	1.33	1.85	1.77	0.88
Men	na	na	na	na	na	na
<i>Source of contraception - public sector:</i>						
Women	4.71	5.72	6.32	3.97	2.66	2.03
Men	na	na	na	na	na	na

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2000 / 01 - STANDARD ERRORS OF QUINTILE ESTIMATES FOR TOTAL POPULATION**Part II: Intermediate Determinants of HNP Status - HNP SERVICE USE (Cont.)**

Indicator	Wealth Quintiles					
	Low	2nd	3rd	4th	High	Avg.
D. Contraceptive services (cont.)						
<i>Source of contraception - private sector:</i>						
Women	3.63	4.41	4.99	4.16	2.81	2.25
Men	na	na	na	na	na	na
E. Treatment of adult illnesses						
<i>Treatment of genital discharge, ulcer, sore:</i>						
Women	5.19	4.73	4.77	4.18	2.58	1.98
Men	*	*	*	*	10.83	5.54
<i>Treatment of genital discharge, ulcer, sore in public facilities:</i>						
Women	0.87	1.18	1.06	1.36	0.87	0.52
Men	*	*	*	*	1.41	0.59
<i>Voluntary counseling and testing for HIV/AIDS:</i>						
Women	0.47	0.65	0.75	0.91	0.97	0.46
Men	1.54	1.42	1.55	2.16	1.88	0.83

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2000 / 01 - STANDARD ERRORS OF QUINTILE ESTIMATES FOR TOTAL POPULATION

Part III: Intermediate Determinants of HNP Status - INDIVIDUAL AND HOUSEHOLD BEHAVIOR

Indicator	Wealth Quintiles					
	Low	2nd	3rd	4th	High	Avg.
A. Hygienic practices						
<i>Disposal of children's stools:</i>						
Sanitary disposal	2.46	2.50	1.74	1.52	1.11	1.15
<i>Handwashing:</i>						
Wash hands prior to preparing food	1.26	0.89	0.52	0.31	0.27	0.35
Handwashing facilities in household	0.50	0.52	0.74	0.69	1.09	0.39
B. Bednet ownership and use						
<i>Bednet ownership:</i>						
Bednet ownership	1.71	1.62	1.04	0.98	1.56	0.93
Treated bednet ownership	0.22	0.17	0.09	0.10	0.21	0.09
<i>Bednet use:</i>						
By children	1.87	1.59	1.15	0.99	1.64	0.91
By pregnant women	2.25	2.96	1.89	2.05	2.77	1.21
C. Breastfeeding						
Exclusive breastfeeding	5.39	4.00	6.89	4.92	5.02	2.85
Timely complementary feeding	5.31	4.02	5.08	5.19	4.92	2.54
Bottle-feeding	1.23	0.92	1.42	1.49	2.47	0.69
D. Micronutrient consumption						
<i>Iodized salt:</i>						
Availability of iodized salt in household	na	na	na	na	na	na
<i>Vitamin A:</i>						
Children	2.29	2.33	2.20	2.10	2.10	1.20
Women	0.87	1.15	1.35	1.53	2.04	0.75
E. Tobacco and alcohol use						
<i>Tobacco:</i>						
Women	0.96	1.04	0.64	0.48	0.12	0.38
Men	3.00	3.02	2.73	2.50	2.01	1.25
<i>Alcohol:</i>						
Women	1.16	1.36	0.69	0.71	0.62	0.41
Men	3.07	2.45	2.73	2.31	1.83	1.22
F. Sexual practices						
<i>Non-regular sexual partnerships:</i>						
Women	0.24	0.23	0.28	0.18	0.17	0.10
Men	1.62	1.38	1.79	1.69	1.83	0.79
<i>Condom usage with non-regular partner:</i>						
Women	*	*	*	*	*	9.82
Men	11.70	9.73	12.31	7.78	3.98	4.00
G. Domestic violence						
Ever experienced violence	na	na	na	na	na	na
Experienced violence in past year	na	na	na	na	na	na

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2000 / 01 - STANDARD ERRORS OF QUINTILE ESTIMATES FOR TOTAL POPULATION

Part IV: UNDERLYING DETERMINANTS OF HNP STATUS

Indicator	Wealth Quintiles					
	Low	2nd	3rd	4th	High	Avg.
A. Education						
<i>School completion:</i>						
Women	1.87	2.12	1.82	1.71	1.18	1.40
Men	2.29	2.15	1.57	1.51	0.87	1.09
<i>School participation:</i>						
Girls	2.55	2.90	1.90	1.44	1.28	1.16
Boys	2.86	2.79	2.02	1.85	1.31	1.22
B. Exposure to mass media						
<i>Newspaper readership:</i>						
Women	0.45	0.59	0.85	1.26	1.36	0.67
Men	*	*	*	*	*	*
<i>Radio listenership:</i>						
Women	1.47	1.91	1.75	1.65	1.16	1.12
Men	*	*	*	*	*	*
<i>Television viewership:</i>						
Women	0.34	0.19	0.45	0.60	1.37	0.61
Men	*	*	*	*	*	*
C. Knowledge and attitudes about HIV/AIDS						
<i>Knowledge about sexual transmission of HIV/AIDS:</i>						
Women	1.71	1.61	1.47	1.07	0.63	0.79
Men	1.76	1.64	1.24	1.20	0.84	0.67
<i>Knowledge about mother-to-child transmission of HIV/AIDS:</i>						
Women	1.76	1.74	1.31	1.28	0.69	0.79
Men	2.81	2.25	2.79	2.44	1.31	1.18
<i>Attitudes toward HIV/AIDS:</i>						
Women	1.85	1.70	1.90	2.11	1.45	1.08
Men	3.13	2.78	2.90	2.72	2.64	1.46
D. Status of women						
<i>Household decisionmaking:</i>						
Can seek own health care	1.68	1.94	1.74	1.53	1.81	0.90
Can seek children's health care	2.03	2.12	2.29	2.07	2.51	1.16
Can make daily household purchases	1.89	2.09	1.62	1.82	1.57	0.93
Can make large household purchases	1.77	1.71	1.40	1.78	1.62	0.83
Can make meal-related decisions	2.12	1.84	1.70	1.54	1.60	0.94
<i>Freedom of movement:</i>						
Can travel to visit family/relatives	1.82	1.78	1.51	1.36	1.12	0.78
<i>Other decisionmaking, attitudes:</i>						
Can decide how to spend own money	2.51	2.51	2.52	2.35	1.69	1.52
Can decide whether to have sex	0.93	1.12	0.84	0.89	0.97	0.44
Justifies domestic violence	1.70	1.67	1.66	1.68	1.46	0.85
E. Orphanhood						
Paternal orphan prevalence	0.93	0.97	0.75	0.98	0.87	0.44
Maternal orphan prevalence	0.48	0.52	0.49	0.60	0.61	0.25
Double orphan prevalence	0.33	0.39	0.35	0.40	0.40	0.18

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2000 / 01 - ASSET DISTRIBUTION AND WEIGHTS
(FACTOR SCORE)

Asset Variable	Unweighted		Wealth Quintiles						Factor Score
	Mean	Std. Deviation	Low	2nd	3rd	4th	High	Avg.	
			Percentage of Population						
Has electricity	0.141	0.348	0.0%	0.3%	0.8%	1.2%	39.6%	8.4%	0.10110
Has radio	0.559	0.497	17.7%	40.4%	58.2%	75.4%	89.0%	56.1%	0.05498
Has television	0.084	0.277	0.0%	0.0%	0.0%	1.0%	34.1%	7.0%	0.08198
Has refrigerator	0.035	0.184	0.0%	0.0%	0.0%	0.1%	12.9%	2.6%	0.06481
Has bicycle	0.361	0.480	34.4%	44.5%	47.8%	58.6%	42.8%	45.6%	-0.00756
Has motorcycle/scooter	0.030	0.171	0.0%	0.2%	0.3%	4.4%	10.8%	3.1%	0.02707
Has car/truck	0.023	0.151	0.0%	0.0%	0.0%	0.1%	11.6%	2.4%	0.04687
Has telephone	0.043	0.202	0.0%	0.0%	0.0%	0.1%	15.5%	3.1%	0.06775
Has Lantern	0.383	0.486	1.3%	8.0%	28.2%	61.9%	81.5%	36.2%	0.06627
Has Cupboard	0.312	0.463	1.2%	6.2%	23.2%	51.6%	73.6%	31.2%	0.06489
Has donkey	0.005	0.068	1.0%	1.1%	0.5%	0.5%	0.2%	0.6%	-0.00184
Owns boat or canoe	0.008	0.090	0.5%	0.7%	1.1%	0.8%	0.3%	0.7%	-0.00062
Works own or family's agricultural land	0.749	0.434	82.6%	81.9%	84.7%	85.6%	89.1%	84.8%	0.01019
Uses piped water in residence for drinking	0.016	0.124	0.0%	0.0%	0.0%	0.0%	5.3%	1.1%	0.04833
Uses piped water outside of residence for drinking	0.023	0.150	0.0%	0.0%	0.0%	0.0%	4.6%	0.9%	0.03903
Uses piped water from public tap for drinking	0.156	0.363	0.1%	0.7%	1.2%	5.1%	29.0%	7.2%	0.05239
Uses water from open well in yard/plot for drinking	0.001	0.023	0.0%	0.0%	0.1%	0.0%	0.2%	0.1%	0.00321
Uses water from open well outside yard for drinking	0.216	0.411	29.6%	25.3%	30.9%	28.1%	14.4%	25.6%	-0.02589
Uses water from protected well in yard/plot for drinking	0.001	0.037	0.0%	0.3%	0.0%	0.3%	0.2%	0.2%	0.00057
Uses water from protected well outside yard for drinking	0.153	0.360	13.2%	16.5%	17.6%	19.0%	14.7%	16.2%	-0.00899
Uses water from borehole well in yard/plot for drinking	0.002	0.045	0.0%	0.2%	0.3%	0.0%	0.6%	0.2%	0.00399
Uses water from borehole well outside yard for drinking	0.223	0.416	29.0%	26.7%	22.6%	27.2%	22.4%	25.6%	-0.01358
Uses water from a spring for drinking	0.066	0.248	9.7%	11.7%	10.1%	6.2%	2.4%	8.0%	-0.01723
Uses water from river, canal or surface for drinking	0.076	0.264	14.1%	12.5%	9.7%	6.9%	1.7%	9.0%	-0.02207
Uses rain water for drinking	0.004	0.065	0.1%	0.0%	0.0%	0.7%	1.1%	0.4%	0.00533
Uses water from tanker truck for drinking	0.000	0.016	0.0%	0.0%	0.0%	0.0%	0.1%	0.0%	0.00421
Uses bottled water for drinking	0.002	0.042	0.0%	0.0%	0.0%	0.0%	0.2%	0.0%	0.00765
Uses water from gravity flow scheme for drinking	0.007	0.081	0.2%	0.5%	0.9%	0.5%	0.3%	0.5%	-0.00391
Uses water from other source of drinking	0.007	0.084	0.0%	0.1%	0.3%	0.1%	0.7%	0.2%	0.00989
Uses own flush toilet	0.032	0.175	0.0%	0.0%	0.5%	0.9%	7.3%	1.7%	0.05223
Uses shared toilet	0.395	0.489	11.0%	27.7%	23.3%	27.9%	48.1%	27.6%	0.04005
Uses traditional pit latrine	0.804	0.397	55.5%	80.0%	89.5%	94.5%	81.8%	80.2%	-0.00564
Uses a VIP latrine	0.030	0.172	0.0%	0.2%	0.9%	1.2%	9.7%	2.4%	0.03184
Uses bush,field as latrine	0.127	0.333	43.6%	18.9%	7.8%	3.1%	0.5%	14.8%	-0.03602
Uses other type of latrine	0.005	0.070	0.7%	0.9%	0.9%	0.3%	0.0%	0.6%	-0.00478
Has dirt, earth, dung as principal floor in dwelling	0.503	0.500	74.0%	56.1%	63.2%	54.4%	9.3%	51.4%	-0.06607
Has parquet as principal floor in dwelling	0.003	0.055	0.0%	0.2%	0.0%	0.2%	0.6%	0.2%	0.00877
Has vinyl or asphalt tile as principal floor in dwelling	0.089	0.284	0.0%	0.0%	0.1%	4.3%	30.6%	7.0%	0.05001
Has ceramic tile as principal floor in dwelling	0.002	0.039	0.0%	0.0%	0.0%	0.0%	0.4%	0.1%	0.01470
Has cement as principal floor in dwelling	0.191	0.393	0.0%	0.0%	0.1%	8.0%	53.8%	12.4%	0.07674
Has other type of flooring in dwelling	0.002	0.039	0.0%	0.0%	0.1%	0.6%	0.1%	0.2%	0.00177
Uses electricity as cooking fuel	0.013	0.114	0.0%	0.0%	0.0%	0.0%	3.7%	0.7%	0.04168
Uses gas as cooking fuel	0.001	0.023	0.0%	0.0%	0.0%	0.0%	0.4%	0.1%	0.01142
Uses biogas as cooking fuel	0.001	0.028	0.0%	0.0%	0.0%	0.0%	0.2%	0.0%	0.01230
Uses kerosene as cooking fuel	0.034	0.181	0.0%	0.0%	1.1%	2.0%	4.0%	1.4%	0.02402
Uses coal as cooking fuel	0.242	0.428	0.0%	0.1%	2.3%	12.1%	53.7%	13.7%	0.07361
Uses charcoal as cooking fuel	0.698	0.459	100.0%	99.9%	96.4%	85.0%	37.4%	83.7%	-0.09153

Uganda
2000 / 01 - ASSET DISTRIBUTION AND WEIGHTS (Cont.)
(FACTOR SCORE)

Asset Variable	Unweighted		Wealth Quintiles						Factor Score
	Mean	Std. Deviation	Low	2nd	3rd	4th	High	Avg.	
			Percentage of Population						
Uses wood, straw as cooking fuel	0.001	0.023	0.0%	0.0%	0.1%	0.3%	0.0%	0.1%	-0.00111
Uses other cooking fuel	0.010	0.101	0.0%	0.0%	0.1%	0.3%	0.5%	0.2%	0.00718
Has thatch as wall materials in dwelling	0.011	0.106	2.5%	1.6%	0.4%	0.4%	0.1%	1.0%	-0.00953
Has mud and poles as wall materials in dwelling	0.528	0.499	77.5%	68.9%	72.1%	49.7%	10.2%	55.7%	-0.06817
Has unburnt bricks as wall materials in dwelling	0.107	0.310	17.5%	24.4%	13.2%	9.0%	2.5%	13.3%	-0.01889
Has burnt bricks and mud as wall materials in dwelling	0.075	0.263	2.5%	4.8%	12.0%	13.5%	7.9%	8.1%	0.00056
Has burnt bricks and cement as wall materials in dwelling	0.251	0.434	0.0%	0.4%	2.0%	26.7%	72.9%	20.4%	0.08394
Has wood timber as wall materials in dwelling	0.004	0.062	0.0%	0.0%	0.1%	0.1%	0.2%	0.1%	0.00290
Has bricks, cement blocks, concrete as wall materials in dwelling	0.021	0.142	0.0%	0.0%	0.0%	0.4%	5.9%	1.3%	0.02839
Has stone as wall material in dwelling	0.002	0.049	0.0%	0.0%	0.1%	0.2%	0.2%	0.1%	0.00225
Has thatched as roofing materials in dwelling	0.336	0.472	97.4%	66.1%	24.5%	7.7%	0.7%	39.3%	-0.06519
Has corrugated iron as roofing materials in dwelling	0.641	0.480	2.1%	32.9%	75.4%	91.8%	93.7%	59.2%	0.05418
Has asbestos as roofing materials in dwelling	0.008	0.089	0.0%	0.0%	0.0%	0.1%	1.7%	0.4%	0.01710
Has tiles as roofing materials in dwelling	0.006	0.079	0.0%	0.0%	0.0%	0.0%	2.9%	0.6%	0.02946
Has tin as roofing materials in dwelling	0.001	0.028	0.0%	0.2%	0.0%	0.1%	0.1%	0.1%	0.00059
Has cement as roofing materials in dwelling	0.004	0.064	0.0%	0.0%	0.0%	0.1%	0.8%	0.2%	0.01729
Has other roofing materials in dwelling	0.004	0.059	0.4%	0.8%	0.0%	0.2%	0.1%	0.3%	-0.00309
Uses electricity for lighting	0.130	0.336	0.0%	0.0%	0.0%	0.0%	37.1%	7.4%	0.10181
Uses biogas for lighting	0.001	0.034	0.0%	0.2%	0.2%	0.0%	0.0%	0.1%	0.00123
Uses kerosene for lighting	0.823	0.381	95.9%	91.7%	95.1%	96.5%	60.1%	87.8%	-0.08619
Uses charcoal for lighting	0.009	0.092	0.0%	0.4%	0.9%	1.3%	1.1%	0.7%	0.00510
Uses dung for lighting	0.027	0.161	3.8%	6.1%	2.4%	1.9%	0.9%	3.0%	-0.01206
Uses other lighting	0.010	0.100	0.2%	1.5%	1.4%	0.4%	0.7%	0.8%	0.00059

PART V. SUPPORTING TABLES, 1995

- A. SAMPLE SIZES**
- B. STANDARD ERRORS**
- C. ASSET DISTRIBUTION AND WEIGHTS**

Uganda
1995 - SAMPLE SIZES

TOTAL SAMPLE

Indicator	Wealth Quintiles					Pop. Total
	Low	2nd	3rd	4th	High	
Number of household members						
All	7,184	7,096	7,238	7,166	7,186	35,871
Urban	100	155	214	454	3,350	4,273
Rural	7,085	6,941	7,024	6,712	3,837	31,598
Female	3,724	3,657	3,711	3,595	3,675	18,361
Male	3,444	3,427	3,522	3,566	3,508	17,466

Part I: HNP STATUS

Indicator	Wealth Quintiles					Pop. Total
	Low	2nd	3rd	4th	High	
Mortality rates						
All	3,026	2,814	2,736	2,640	2,545	13,761
Urban	41	63	80	184	1,217	1,585
Rural	2,985	2,751	2,656	2,457	1,328	12,176
Female	1,565	1,457	1,399	1,331	1,277	7,029
Male	1,461	1,357	1,337	1,309	1,268	6,732
Prevalence of fever, diarrhea, acute respiratory infection						
All	1,185	1,111	1,106	1,023	1,021	5,447
Urban	14	19	35	80	487	635
Rural	1,171	1,092	1,072	943	534	4,812
Female	633	581	571	496	508	2,789
Male	552	531	535	527	514	2,659
Total fertility rate						
All	4,077	3,902	3,817	3,714	4,313	19,823
Urban	67	104	141	282	2,333	2,927
Rural	4,010	3,797	3,676	3,432	1,980	16,895
Age-specific fertility rate 15-19						
All	955	1,002	938	898	1,190	4,983
Urban	12	30	38	69	696	845
Rural	943	972	900	829	494	4,138
Children's nutritional status						
All	1,049	994	972	883	878	4,775
Urban	11	18	29	66	413	537
Rural	1,037	976	942	817	465	4,237
Female	560	519	496	426	441	2,442
Male	489	475	475	457	437	2,333
Children's anemia status						
All	na	na	na	na	na	na
Urban	na	na	na	na	na	na
Rural	na	na	na	na	na	na
Female	na	na	na	na	na	na
Male	na	na	na	na	na	na

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1995 - SAMPLE SIZES**Part I: HNP STATUS (Cont.)**

Indicator	Wealth Quintiles					Pop. Total
	Low	2nd	3rd	4th	High	
Women's nutritional status						
All	746	650	628	583	611	3,218
Urban	9	11	22	49	305	396
Rural	737	638	606	535	306	2,822
Women's anemia status						
All	na	na	na	na	na	na
Urban	na	na	na	na	na	na
Rural	na	na	na	na	na	na
Girls' circumcision						
All	1,449	1,396	1,347	1,329	1,549	7,070
Urban	26	38	51	99	841	1,055
Rural	1,423	1,358	1,296	1,230	708	6,015
Women's circumcision						
All	1,449	1,396	1,347	1,329	1,549	7,070
Urban	26	38	51	99	841	1,055
Rural	1,423	1,358	1,296	1,230	708	6,015
Prevalence of genital discharge, ulcer, sore						
Female	1,341	1,257	1,239	1,202	1,345	6,384
Urban Female	24	33	47	92	729	925
Rural Female	1,317	1,224	1,192	1,110	617	5,460
Male	359	314	327	347	392	1,739
Urban Male	6	6	12	27	203	254
Rural Male	353	308	315	320	190	1,486

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1995 - SAMPLE SIZES

Part II: Intermediate Determinants of HNP Status - HNP SERVICE USE

Indicator	Wealth Quintiles					Pop. Total
	Low	2nd	3rd	4th	High	
Immunization coverage						
All	341	320	349	293	285	1,588
Urban	4	8	10	22	130	174
Rural	336	313	340	271	155	1,415
Female	182	165	182	137	151	817
Male	159	155	167	156	134	771
Treatment of fever						
All	643	500	517	471	390	2,522
Urban	6	8	16	33	161	224
Rural	637	492	501	438	230	2,298
Female	303	252	252	259	210	1,276
Male	340	248	265	212	181	1,246
Treatment of acute respiratory infection						
All	379	320	301	287	190	1,478
Urban	4	5	11	16	85	121
Rural	375	315	291	272	105	1,358
Female	204	148	157	141	81	731
Male	175	173	144	147	109	748
Treatment of diarrhea						
All	354	244	251	254	174	1,278
Urban	3	5	10	19	86	123
Rural	351	239	241	236	88	1,155
Female	183	112	122	105	87	609
Male	172	132	129	149	87	669
Antenatal and delivery care						
All	924	853	845	797	790	4,209
Urban	12	16	28	64	383	503
Rural	913	837	817	732	407	3,706
Contraceptive prevalence						
Female	1,113	1,044	1,030	995	954	5,136
Urban Female	19	24	30	64	475	612
Rural Female	1,094	1,020	1,000	931	479	4,524
Male	290	244	247	240	231	1,252
Urban Male	5	4	8	19	120	156
Rural Male	284	239	240	221	111	1,095
Contraceptive source						
Female	23	28	42	62	246	401
Urban Female	2	2	3	14	152	172
Rural Female	21	26	39	48	94	229
Male	290	244	247	240	231	1,252
Urban Male	5	4	8	19	120	156
Rural Male	284	239	240	221	111	1,095
Treatment of genital discharge, ulcer, sore						
Female	45	24	59	48	74	250
Urban Female	1	3	5	5	48	62
Rural Female	44	21	55	42	27	189
Male	20	21	26	24	34	125
Urban Male	0	1	1	3	20	25
Rural Male	20	20	25	21	14	100

Uganda

1995 - SAMPLE SIZES

Part III: Intermediate Determinants of HNP Status - INDIVIDUAL AND HOUSEHOLD BEHAVIOR

Indicator	Wealth Quintiles					Pop. Total
	Low	2nd	3rd	4th	High	
Sanitary disposal of stools						
All	na	na	na	na	na	na
Urban	na	na	na	na	na	na
Rural	na	na	na	na	na	na
Wash hands prior to preparing food						
All	1,449	1,396	1,347	1,329	1,549	7,070
Urban	26	38	51	99	841	1,055
Rural	1,423	1,358	1,296	1,230	708	6,015
Handwashing facilities in household?						
All	1,539	1,537	1,503	1,546	1,547	7,672
Urban	27	47	60	131	813	1,078
Rural	1,512	1,489	1,443	1,415	734	6,593
Bednet ownership						
All	1,539	1,537	1,503	1,546	1,547	7,672
Urban	27	47	60	131	813	1,078
Rural	1,512	1,489	1,443	1,415	734	6,593
Bednet use by children						
All	975	933	945	934	899	4,686
Urban	12	22	28	73	440	575
Rural	963	911	917	861	459	4,111
Bednet use by pregnant women						
All	191	234	212	215	157	1,009
Urban	3	5	6	10	74	98
Rural	188	229	205	204	83	909
Exclusive breastfeeding						
All	89	84	83	76	77	409
Urban	1	1	4	5	37	48
Rural	88	83	79	71	40	361
Female	45	43	40	34	41	203
Male	45	41	43	42	36	207
Timely complementary breastfeeding						
All	117	97	89	93	91	487
Urban	2	1	2	6	41	52
Rural	115	96	87	86	49	433
Female	62	48	40	46	40	236
Male	54	49	49	47	50	249
Bottle-feeding						
All	347	298	284	286	268	1,483
Urban	4	6	10	21	129	170
Rural	343	292	273	264	139	1,311
Female	178	149	130	139	121	717
Male	169	149	154	146	146	764

Uganda

1995 - SAMPLE SIZES

Part III: Intermediate Determinants of HNP Status - INDIVIDUAL AND HOUSEHOLD BEHAVIOR (Cont.)

Indicator	Wealth Quintiles					Pop. Total
	Low	2nd	3rd	4th	High	
Iodized salt in household						
All	1,539	1,537	1,503	1,546	1,547	7,672
Urban	27	47	60	131	813	1,078
Rural	1,512	1,489	1,443	1,415	734	6,593
Vitamin A supplementation						
All	na	na	na	na	na	na
Urban	na	na	na	na	na	na
Rural	na	na	na	na	na	na
Female	na	na	na	na	na	na
Male	na	na	na	na	na	na
Tobacco and alcohol use, casual sexual partners, condom use for casual sex						
Female	1,449	1,396	1,347	1,329	1,549	7,070
Urban Female	26	38	51	99	841	1,055
Rural Female	1,423	1,358	1,296	1,230	708	6,015
Male	408	356	361	411	460	1,996
Urban Male	6	8	13	28	226	281
Rural Male	402	348	348	383	234	1,715
Domestic violence						
All	1,449	1,396	1,347	1,329	1,549	7,070
Urban	26	38	51	99	841	1,055
Rural	1,423	1,358	1,296	1,230	708	6,015

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1995 - SAMPLE SIZES

Part IV: UNDERLYING DETERMINANTS OF HNP STATUS

Indicator	Wealth Quintiles					Pop. Total
	Low	2nd	3rd	4th	High	
School completion (Grade 5)						
Female	1,470	1,407	1,412	1,391	1,556	7,235
Urban female	24	36	51	102	847	1,061
Rural female	1,446	1,371	1,361	1,288	709	6,174
Male	1,314	1,275	1,248	1,377	1,520	6,734
Urban male	19	32	50	101	822	1,023
Rural male	1,295	1,243	1,199	1,276	698	5,711
School participation						
Female	572	610	647	615	630	3,073
Urban female	10	14	18	38	279	359
Rural female	562	596	629	577	350	2,714
Male	609	620	622	620	532	3,003
Urban male	8	12	13	29	205	268
Rural male	601	608	608	591	326	2,735
Mass media exposure						
Female	1,449	1,396	1,347	1,329	1,549	7,070
Urban female	26	38	51	99	841	1,055
Rural female	1,423	1,358	1,296	1,230	708	6,015
Male	408	356	361	411	460	1,996
Urban male	6	8	13	28	226	281
Rural male	402	348	348	383	234	1,715
Knowledge of HIV/AIDS prevention						
Female	2,743	1,396	1,347	1,329	1,549	8,364
Urban female	26	38	51	99	841	1,055
Rural female	1,423	1,358	1,296	1,230	708	6,015
Male	408	356	361	411	460	1,996
Urban male	6	8	13	28	226	281
Rural male	402	348	348	383	234	1,715
Household decisionmaking and justification of violence						
All	1,449	1,396	1,347	1,329	1,549	7,070
Urban	26	38	51	99	841	1,055
Rural	1,423	1,358	1,296	1,230	708	6,015
Orphanhood						
All	3,628	3,651	3,760	3,652	3,658	18,348
Urban	47	73	95	219	1,543	1,977
Rural	3,581	3,578	3,665	3,434	2,114	16,371
Female	1,877	2,068	1,863	2,052	1,841	9,701
Male	1,744	1,572	1,867	1,595	1,816	8,594

Uganda

1995 - STANDARD ERRORS OF QUINTILE ESTIMATES FOR TOTAL POPULATION

Part I: HNP STATUS

Indicator	Wealth Quintiles					Avg.
	Low	2nd	3rd	4th	High	
A. Childhood illness and mortality						
Infant mortality rate	8.46	6.56	7.50	7.68	5.48	3.68
Under-five mortality rate	11.61	10.49	10.13	10.15	7.58	5.47
Prevalence of fever	2.50	2.29	2.07	2.12	2.31	1.24
Prevalence of diarrhea	2.90	1.82	1.54	1.74	1.32	0.97
Prevalence of acute respiratory infection	1.97	1.81	1.64	1.87	1.30	0.85
B. Fertility						
Total fertility rate	0.25	0.27	0.25	0.26	0.21	0.12
Adolescent fertility rate	20.00	20.00	20.00	10.00	10.00	10.00
C. Nutritional status						
<i>Children:</i>						
Moderate stunting	1.67	1.70	1.67	1.60	1.23	0.69
Severe stunting	1.58	1.51	1.24	1.35	1.25	0.69
Moderate underweight	1.79	1.75	1.52	1.59	1.12	0.78
Severe underweight	1.12	1.14	0.91	0.85	0.61	0.46
Mild anemia	na	na	na	na	na	na
Moderate anemia	na	na	na	na	na	na
Severe anemia	na	na	na	na	na	na
<i>Women:</i>						
Malnutrition	1.55	1.69	1.58	1.47	0.93	0.69
Mild anemia	na	na	na	na	na	na
Moderate anemia	na	na	na	na	na	na
Severe anemia	na	na	na	na	na	na
D. Female circumcision						
<i>Prevalence of circumcision:</i>						
Girls	na	na	na	na	na	na
Women	na	na	na	na	na	na
<i>Prevalence of occlusion:</i>						
Girls	na	na	na	na	na	na
Women	na	na	na	na	na	na
E. Sexually transmitted disease						
<i>Prevalence of genital discharge:</i>						
Women	0.28	0.16	0.35	0.26	0.17	0.13
Men	1.03	0.73	0.80	0.91	1.04	0.41
<i>Prevalence of genital ulcer:</i>						
Women	0.56	0.32	0.63	0.61	0.54	0.25
Men	1.49	1.53	1.44	1.16	1.24	0.66

Uganda

1995 - STANDARD ERRORS OF QUINTILE ESTIMATES FOR TOTAL POPULATION

Part II: Intermediate Determinants of HNP Status - HNP SERVICE USE

Indicator	Wealth Quintiles					
	Low	2nd	3rd	4th	High	Avg.
A. Childhood immunization						
BCG coverage	2.75	2.92	2.62	2.33	1.60	1.33
Measles coverage	4.02	3.46	3.16	3.11	3.29	1.83
DPT coverage	3.78	3.15	3.46	3.23	2.73	1.91
Full basic coverage	3.60	3.41	3.36	3.63	3.43	1.82
No basic coverage	2.62	2.81	2.43	2.25	1.49	1.26
Hepatitis B coverage	na	na	na	na	na	na
Yellow fever coverage	na	na	na	na	na	na
B. Treatment of childhood illnesses						
<i>Treatment of fever:</i>						
Medical treatment of fever	3.66	2.67	2.60	2.94	3.10	1.66
Treatment in a public facility	2.59	2.34	2.15	2.58	2.43	1.22
Treatment in a private facility	2.36	2.56	2.64	2.26	2.85	1.34
<i>Treatment of acute respiratory infection (ARI):</i>						
Medical treatment of ARI	4.87	3.36	3.68	3.90	4.29	2.21
Treatment in a public facility	3.18	3.56	3.74	3.68	4.00	1.81
Treatment in a private facility	4.08	3.58	3.65	4.10	5.05	2.03
<i>Treatment of diarrhea:</i>						
Use of oral rehydration therapy	3.05	4.61	3.39	2.86	3.39	1.58
Medical treatment of diarrhea	5.31	3.62	4.14	4.05	4.27	2.30
Treatment in a public facility	3.51	4.07	3.65	3.21	4.32	1.81
Treatment in a private facility	4.44	4.22	3.87	4.00	4.86	2.52
C. Antenatal and delivery care						
<i>Antenatal care (ANC) visits:</i>						
To a medically trained person	1.76	1.30	1.25	1.16	0.67	0.71
To a doctor	0.80	1.01	1.33	1.28	1.58	0.59
To a nurse or trained midwife	1.98	1.58	1.69	1.49	1.72	0.83
Multiple visits to a medically trained person	2.38	1.97	1.99	1.91	1.27	1.03
<i>Antenatal care content:</i>						
Tetanus toxoid	2.22	1.88	1.68	1.80	1.46	1.01
Prophylactic antimalarial treatment	na	na	na	na	na	na
Iron supplementation	na	na	na	na	na	na
<i>Delivery attendance:</i>						
By a medically trained person	2.39	2.33	2.15	2.49	2.21	1.65
By a doctor	0.32	0.52	0.64	0.75	1.36	0.38
By a nurse or trained midwife	2.37	2.25	2.09	2.44	2.18	1.52
In a public facility	1.97	1.72	1.69	1.78	2.23	1.19
In a private facility	1.26	1.42	1.43	1.85	1.99	1.00
At home	2.46	2.22	2.06	2.50	2.30	1.62
D. Contraceptive services						
<i>Contraceptive prevalence:</i>						
Women	0.54	0.71	0.75	0.98	1.77	0.60
Men	1.23	1.20	1.60	2.62	3.17	0.98
<i>Source of contraception - public sector:</i>						
Women	*	*	7.31	6.33	3.70	3.19
Men	na	na	na	na	na	na

Uganda

1995 - STANDARD ERRORS OF QUINTILE ESTIMATES FOR TOTAL POPULATION**Part II: Intermediate Determinants of HNP Status - HNP SERVICE USE (Cont.)**

Indicator	Wealth Quintiles					
	Low	2nd	3rd	4th	High	Avg.
D. Contraceptive services (cont.)						
<i>Source of contraception - private sector:</i>						
Women	*	*	6.32	6.39	3.90	3.43
Men	na	na	na	na	na	na
E. Treatment of adult illnesses						
<i>Treatment of genital discharge, ulcer, sore:</i>						
Women	7.91	*	7.74	8.39	3.69	3.23
Men	*	*	*	11.35	8.87	4.70
<i>Treatment of genital discharge, ulcer, sore in public facilities:</i>						
Women	0.28	0.16	0.35	0.26	0.17	0.13
Men	1.53	1.71	1.56	1.32	1.46	0.76
<i>Voluntary counseling and testing for HIV/AIDS:</i>						
Women	0.60	0.54	0.65	0.75	0.91	0.39
Men	1.34	1.46	1.54	1.94	1.89	0.84

Uganda

1995 - STANDARD ERRORS OF QUINTILE ESTIMATES FOR TOTAL POPULATION

Part III: Intermediate Determinants of HNP Status - INDIVIDUAL AND HOUSEHOLD BEHAVIOR

Indicator	Wealth Quintiles					
	Low	2nd	3rd	4th	High	Avg.
A. Hygienic practices						
<i>Disposal of children's stools:</i>						
Sanitary disposal	na	na	na	na	na	na
<i>Handwashing:</i>						
Wash hands prior to preparing food	na	na	na	na	na	na
Handwashing facilities in household	na	na	na	na	na	na
B. Bednet ownership and use						
<i>Bednet ownership:</i>						
Bednet ownership	na	na	na	na	na	na
Treated bednet ownership	na	na	na	na	na	na
<i>Bednet use:</i>						
By children	na	na	na	na	na	na
By pregnant women	na	na	na	na	na	na
C. Breastfeeding						
Exclusive breastfeeding	5.89	6.26	5.27	6.64	5.64	2.80
Timely complementary feeding	7.85	5.88	4.68	5.25	5.20	2.63
Bottle-feeding	2.47	1.00	1.82	1.86	2.62	1.04
D. Micronutrient consumption						
<i>Iodized salt:</i>						
Availability of iodized salt in household	na	na	na	na	na	na
<i>Vitamin A:</i>						
Children	na	na	na	na	na	na
Women	na	na	na	na	na	na
E. Tobacco and alcohol use						
<i>Tobacco:</i>						
Women	na	na	na	na	na	na
Men	na	na	na	na	na	na
<i>Alcohol:</i>						
Women	na	na	na	na	na	na
Men	na	na	na	na	na	na
F. Sexual practices						
<i>Non-regular sexual partnerships:</i>						
Women	0.40	0.42	0.49	0.62	0.33	0.20
Men	2.73	2.29	1.86	2.26	2.14	1.22
<i>Condom usage with non-regular partner:</i>						
Women	6.52	*	4.17	5.68	7.87	3.35
Men	4.65	6.22	6.94	4.99	4.25	2.50
G. Domestic violence						
Ever experienced violence	na	na	na	na	na	na
Experienced violence in past year	na	na	na	na	na	na

Uganda

1995 - STANDARD ERRORS OF QUINTILE ESTIMATES FOR TOTAL POPULATION

Part IV: UNDERLYING DETERMINANTS OF HNP STATUS

Indicator	Wealth Quintiles					
	Low	2nd	3rd	4th	High	Avg.
A. Education						
<i>School completion:</i>						
Women	2.33	1.75	1.76	2.24	1.31	1.57
Men	3.70	2.27	1.95	2.04	1.38	1.68
<i>School participation:</i>						
Girls	3.26	2.42	2.86	2.56	1.89	1.65
Boys	3.49	2.57	2.63	2.27	2.12	1.45
B. Exposure to mass media						
<i>Newspaper readership:</i>						
Women	1.03	0.98	1.23	1.16	1.53	0.88
Men	3.17	2.84	2.83	4.20	2.59	1.88
<i>Radio listenership:</i>						
Women	1.03	1.53	1.89	1.85	1.57	1.21
Men	1.74	3.35	3.38	3.08	2.22	2.08
<i>Television viewership:</i>						
Women	0.14	0.66	0.10	0.31	1.53	0.49
Men	0.07	0.86	0.74	1.21	3.08	0.86
C. Knowledge and attitudes about HIV/AIDS						
<i>Knowledge about sexual transmission of HIV/AIDS:</i>						
Women	2.02	0.49	0.44	0.38	0.25	0.55
Men	0.48	0.49	0.65	0.47	0.37	0.21
<i>Knowledge about mother-to-child transmission of HIV/AIDS:</i>						
Women	3.14	1.69	1.35	1.13	0.90	0.97
Men	2.43	3.18	2.30	1.86	1.52	1.23
<i>Attitudes toward HIV/AIDS:</i>						
Women	na	na	na	na	na	na
Men	na	na	na	na	na	na
D. Status of women						
<i>Household decisionmaking:</i>						
Can seek own health care	na	na	na	na	na	na
Can seek children's health care	na	na	na	na	na	na
Can make daily household purchases	na	na	na	na	na	na
Can make large household purchases	na	na	na	na	na	na
Can make meal-related decisions	na	na	na	na	na	na
<i>Freedom of movement:</i>						
Can travel to visit family/relatives	na	na	na	na	na	na
<i>Other decisionmaking, attitudes:</i>						
Can decide how to spend own money	3.12	2.92	3.27	2.92	1.82	1.75
Can decide whether to have sex	na	na	na	na	na	na
Justifies domestic violence	na	na	na	na	na	na
E. Orphanhood						
Paternal orphan prevalence	1.23	0.90	0.97	0.99	0.61	0.47
Maternal orphan prevalence	0.46	0.49	0.58	0.52	0.59	0.26
Double orphan prevalence	0.29	0.26	0.33	0.28	0.39	0.16

Uganda
1995 - ASSET DISTRIBUTION AND WEIGHTS
(FACTOR SCORE)

Asset Variable	Unweighted		Wealth Quintiles						Factor Score
	Mean	Std. Deviation	Low	2nd	3rd	4th	High	Avg.	
			Percentage of Population						
Has electricity	0.129	0.335	0.0%	0.0%	0.0%	0.0%	34.7%	6.9%	0.15178
Has radio	0.433	0.496	1.5%	17.4%	41.9%	67.1%	82.0%	42.0%	0.08277
Has television	0.050	0.219	0.0%	0.0%	0.0%	0.0%	18.5%	3.7%	0.12077
Has refrigerator	0.014	0.117	0.0%	0.0%	0.0%	0.0%	4.9%	1.0%	0.09765
Has bicycle	0.340	0.474	24.9%	33.5%	47.0%	50.8%	48.5%	40.9%	0.00331
Has motorcycle	0.010	0.101	0.0%	0.0%	0.0%	0.4%	4.7%	1.0%	0.03528
Has car	0.021	0.143	0.0%	0.0%	0.0%	0.0%	9.8%	2.0%	0.08555
Has telephone	0.129	0.335	0.0%	0.0%	0.0%	0.0%	34.7%	6.9%	0.15178
Has video recorder	0.012	0.108	0.0%	0.0%	0.0%	0.0%	4.0%	0.8%	0.09731
Has cooker	0.020	0.139	0.0%	0.0%	0.0%	0.0%	5.5%	1.1%	0.10199
Has a domestic worker not related to head	0.006	0.075	0.0%	0.0%	0.0%	0.0%	1.9%	0.4%	0.05402
Works on own or family's agricultural land	0.389	0.488	78.1%	68.0%	60.7%	44.3%	23.8%	55.0%	-0.06015
Uses piped drinking water in residence	0.047	0.212	0.0%	0.0%	0.0%	0.0%	9.0%	1.8%	0.11146
Uses piped drinking water in public tap	0.092	0.289	0.0%	0.0%	0.4%	2.2%	18.2%	4.2%	0.04683
Uses inside well drinking water	0.004	0.063	0.0%	0.0%	0.0%	0.0%	1.4%	0.3%	0.02316
Uses river, canal or surface water for drinking	0.442	0.497	75.7%	55.0%	52.5%	45.6%	28.0%	51.4%	-0.06098
Uses other source of drinking water	0.006	0.079	0.0%	0.0%	0.1%	0.9%	1.0%	0.4%	0.01039
Uses shared flush toilet	0.014	0.117	0.0%	0.0%	0.0%	0.2%	2.3%	0.5%	0.04009
Uses pit latrine	0.773	0.419	51.0%	80.7%	88.2%	91.8%	82.0%	78.7%	-0.02213
Uses VIP latrine	0.023	0.150	0.0%	0.0%	0.1%	0.9%	7.2%	1.6%	0.03335
Uses bush,field as latrine	0.157	0.364	48.7%	19.3%	11.0%	6.3%	1.8%	17.4%	-0.04360
Uses other type of latrine	0.008	0.091	0.0%	0.0%	0.5%	0.7%	1.1%	0.5%	0.00476
Has dirt, earth principal floor in dwelling	0.568	0.495	82.0%	77.0%	68.6%	66.1%	17.1%	62.1%	-0.09250
Has cement principal floor	0.246	0.431	0.0%	0.0%	0.0%	1.2%	72.1%	14.7%	0.13098
Has tile flooring	0.001	0.033	0.0%	0.0%	0.0%	0.0%	0.2%	0.0%	0.01321
Has other type of flooring	0.001	0.036	0.0%	0.0%	0.0%	0.0%	0.3%	0.1%	0.00062
Uses rain for drinking water	0.004	0.061	0.0%	0.0%	0.0%	0.3%	1.8%	0.4%	0.01439
Uses a public well	0.214	0.410	13.2%	23.5%	30.3%	29.8%	19.2%	23.2%	-0.01683
Uses own flush toilet	0.023	0.150	0.0%	0.0%	0.0%	0.0%	5.4%	1.1%	0.10040
Uses a borehole well	0.175	0.380	10.8%	20.5%	14.4%	18.3%	19.0%	16.6%	-0.00685
Uses a gravity flow scheme	0.015	0.123	0.2%	1.1%	2.2%	3.0%	2.1%	1.7%	-0.00454
Has dung for floor surface	0.177	0.382	18.0%	22.7%	30.4%	32.2%	9.0%	22.5%	-0.03378
Has parquet or polished wood floors	0.002	0.041	0.0%	0.0%	0.0%	0.0%	0.3%	0.1%	0.02773
Has vinyl or asphalt strips for floor	0.002	0.045	0.0%	0.0%	0.0%	0.0%	0.7%	0.1%	0.01637
Uses pot to store drinking water	0.606	0.489	87.7%	71.9%	62.5%	58.1%	53.6%	66.7%	-0.05042
Uses a jerry can to store drinking water	0.263	0.440	9.1%	23.8%	31.3%	30.7%	24.8%	23.9%	-0.00562
Uses a pan to store drinking water	0.004	0.063	0.2%	0.4%	0.1%	0.6%	0.8%	0.4%	0.00066
Uses a calabash to store drinking water	0.016	0.127	2.4%	1.9%	2.5%	1.4%	0.4%	1.7%	-0.00928
Uses other item to store drinking water	0.053	0.224	0.7%	1.9%	3.2%	8.6%	7.8%	4.5%	0.01006
Has a "surplus" level of consumption	0.027	0.163	0.0%	0.0%	0.5%	3.8%	7.9%	2.4%	0.03113
Has neither surplus nor deficit level consumption	0.266	0.442	0.0%	7.8%	19.1%	45.6%	45.8%	23.7%	0.05657
Has occasionally deficit level consumption	0.392	0.488	26.3%	49.9%	55.4%	38.4%	34.4%	40.9%	-0.01250
Has always deficit level of consumption	0.312	0.463	73.5%	42.2%	24.6%	12.1%	11.5%	32.8%	-0.05201
Has unknown level of consumption	0.001	0.026	0.0%	0.0%	0.2%	0.0%	0.2%	0.1%	0.00181
Number of members per sleeping room	2.781	1.773	3.7	3.2	3.3	3.0	3.2	3.3	0.00178

PART VI. ANNEXES

- A. SOURCES OF ADDITIONAL INFORMATION**
- B. USE OF INFORMATION FROM THIS REPORT TO MONITOR THE ECONOMIC STATUS OF PEOPLE SERVED BY HNP PROGRAMS**
- C. COUNTRIES COVERED BY THE HNP-POVERTY REPORT PROJECT**

ANNEX A. SOURCES OF ADDITIONAL INFORMATION

ADDITIONAL INEQUALITY DATA

World Bank HNP/Poverty Country Report Website:
<http://www.worldbank.org/hnp/povertyandhealth/countrydata>.

This World Bank website provides the full texts and tables for all fifty-six countries covered by the HNP/Poverty Country Report Project. (A list of the countries covered appears in annex C, at the end of this report.) Also available at the site are summary tables, organized by indicator, designed to facilitate cross-country comparisons in inequality with respect to particular indicators.

DHS Country Reports: <http://www.measuredhs.com/countries>.

All DHS final country reports produced since 2003 include quintile-specific tabulations in approximately 50-100 of the reports' HNP indicator tables. The tables deal with some of the indicators covered in this volume, and with many that are not.

UNICEF Multi-Indicator Cluster Survey Website:
<http://www.childinfo.org/MICS2/natlMICSrepz/MICSnatrep.htm>.

The UNICEF Multi-Indicator Cluster Survey (MICS) project is generally similar to the DHS program, but covers a somewhat different set of countries and indicators. The “standard tables” section for each country listed at the MICS website provides wealth-based, quintile-specific information in around 40-45 of the tables related to hnp, education, and child labor. In deriving these quintile-specific estimates, the MICS investigators have employed a wealth index similar to the one used here.

World Health Organization World Health Survey Website:
<http://www.who.int/healthinfo/survey/en/index.html>.

The World Health Organization's World Health Survey (WHS) includes such issues as self-assessed adult health status; coverage of interventions against adult chronic diseases and against maternal and child health problems; household health expenditures; insurance coverage; and health system responsiveness. Approximately seventy countries – developed as well as developing – have been covered thus far. Household wealth information has been collected and used to prepare quintile-specific estimates for many of the indicators appearing in the reports on these countries.

METHODS AND RESOURCES FOR FURTHER INEQUALITY ANALYSIS

Shea Oscar Rutstein and Kiersten Johnson, *The DHS Wealth Index*, DHS Comparative Reports No. 6 (Calverton, Maryland, USA: ORC Macro, August 2004) (Available at: http://www.measuredhs.com/pubs/pub_details.cfm?ID=470&srchTp=type).

This DHS publication, by two of the co-authors of the current report, describes in detail the construction of the wealth index that underlies the data presented in the basic tables.

Deon Filmer and Lant H. Pritchett, "Estimating Wealth Effects without Expenditure Data – or Tears: An Application to Education Enrollments in States in India," *Demography* 38, no.1 (February 2001): 115-132.

This seminal piece gave birth to the wealth index procedure used in the current volume. It also includes three of the previously-cited country case studies demonstrating the close relationship between results produced using wealth and those based on consumption as an indicator of household economic status.

Owen O'Donnell, Eddy van Doorslaer, Adam Wagstaff, and Magnus Lindelow. *Quantitative Techniques for Health Equity Analysis*. Washington D.C.: The World Bank, forthcoming.

Among the topics covered in this comprehensive overview of available quantitative techniques are the measurement of living standards using a wealth index and other approaches (chapter 6) and the concentration index as a measure of inequality (chapter 8).

DHS Country Data Sets: <http://www.measuredhs.com/accesssurveys/search>.

The data sets for all DHS surveys undertaken since 2003 include two pieces of information for each household that are designed to help investigators prepare quintile-specific tabulations for any indicator. These are: 1) the household wealth score; and 2) the economic quintile to which individuals in the household belong. Any tabulation using these pieces of information will be comparable to the figures appearing here.

ANNEX B. USE OF INFORMATION FROM THIS REPORT TO MONITOR THE ECONOMIC STATUS OF PEOPLE SERVED BY HNP PROGRAMS

The wealth or asset approach employed in this report can be used to monitor the economic status of people served by health, nutrition, and population (hnp) programs in two ways. The first, simpler way is suitable for monitoring nationwide, facility-based programs. A second, fuller version can also be employed for other types of programs, such as initiatives undertaken only in some parts of a country, or activities like mass education or outreach programs that do not operate through facilities.

BASIC MONITORING OF NATIONWIDE FACILITY-BASED PROGRAMS

The economic distribution of patients in a nationwide, facility-based program (say, a network of rural health posts, antenatal care clinics, emergency obstetrical facilities, or hospitals) can be determined through an exit survey of facility patients, using the wealth questionnaire and the set of quintile cut-off points that immediately follow this text, and which have been created using the information presented in part III.C. The questionnaire can be employed to measure the economic status of any individual responding to the questions on it. The set of cut-off points can serve to compare the distribution of the respondents' economic status with that of the nationally-representative sample of people interviewed by the DHS survey on which the present report is based.

The first step is to use the questionnaire in interviewing an adequately-large sample of patients attending the facility-based services of interest. The wealth score for each patient can then be calculated by multiplying the response to each question by the item scores also provided on the questionnaire, and summing the results. After this has been done, the quintile cut-off points can be used to place each individual in the economic quintile to which (s)he belongs. The number of patients and percentage of total patients in each quintile can then be calculated.

Since each quintile defined by the cut-off points contains 20 percent of the individuals in the nationally-representative DHS sample, the patients belonging to any such quintile containing significantly more (or less) than 20 percent of the total are over- (under-) represented relative to the national population. When the percentage of patients in each of the five quintiles is viewed as a whole, the result is a frequency distribution that indicates the spread of service beneficiaries across economic classes of individuals.²¹ For example:

- A service that favors the poorest people would have substantially more than 20 percent of its patients in each of the lowest one or two economic quintiles; considerably less than 20 percent of its patients in each of the highest quintiles.

²¹ That is, across economic classes of all individuals in the sample population. Estimates pertaining to quintiles of only those individuals needing services require adjusting the results of the procedure described here through application of the relevant quintile-specific, sample-size figures presented in part III.A.

- A service that reaches all economic classes equally would draw roughly the same proportion of total patients from the lower and upper quintiles.
- A service that favors the least poor population groups would have well over 20 percent of its patients in each of the highest one or two quintiles, considerably less than 20 percent of its patients in each of the lowest quintiles.

FULLER MONITORING OF FACILITY-BASED AND OF OTHER PROGRAMS

While capable of providing far more information than currently exists about the distribution of a program's beneficiaries, the approach just described has important limitations. For example, it cannot deal with the many important types of health programs that do not deliver services primarily through facilities – mass media health education, household visits by health workers, and many social marketing initiatives, for example. It is also limited in its ability to assess programs working only with certain areas within a country: it can compare the economic status of the programs' beneficiaries with that of the national population, but not with that of the specific sub-national areas where the programs are active. Further, it focuses primarily on only one of the two important dimensions of monitoring the distribution of program beneficiaries: that is, incidence or focus – the percentage of program benefits that flow to the poor. It cannot deal nearly so well with the second dimension, which concerns coverage, or the percentage of the poor that the program reaches.

These limitations can be overcome by a modified version of the approach described above that relies on a household- rather than facility-based survey. A household survey can generate a set of data containing the full range of information needed to produce an equity assessment by collecting two types of information: first, about the household's wealth or assets, using the questions in the left-hand column of the attached questionnaire;²² and second, about the household members' use of or exposure to the services provided by the program(s) of interest. The collected data can be analyzed in either (or both) of two ways, depending on the type of information desired:

- One way would be to use only data from the household survey. The procedure would be analogous to that for a DHS survey employed in this report:
 - Asset information from the survey-generated data set would be used as the basis for the construction of a wealth index, weighting the individual items using some method like principal components analysis.
 - The individuals in the sample would be ranked in order of the index values for their households, then divided into groups like quintiles.
 - The coverage rates in each quintile for the service of interest would be calculated.
- A second approach would be to use the weights for each item appearing on the attached questionnaire in determining the wealth of each individual, instead of calculating the weights from the new household data set. Once the individuals' wealth is determined, the individuals would be ranked, divided into quintiles, and the coverage rate in each quintile would be calculated. In the case of programs undertaken in only one region of the country, it would

²² Or, if one is willing to forego the benefits of the second analytical approach described below, using any of several other asset questionnaires that exist. Examples include the INDEPTH health equity survey tool (available at: www.indepth-network.org/core_documents/indepthtools.htm) or the model questionnaire developed by M. Mahood Khan and David Hotchkiss of the PHR Plus project (which can be found at: www.phrplus.org).

provide a comparison of the economic status of the people served with that of the entire country rather than of only the region where the programs are active;²³ in the case of nationwide as well as regional programs, it would permit a comparison with the other service programs covered in this report.

²³ This additional perspective could be particularly helpful in an assessment of a program seeking to reach the poor by focusing on especially backward districts. A report presenting only a finding that the program was reaching the better-off people in those districts could produce an impression that it had failed to reach its intended beneficiaries. But a comparison between the economic status of the program's beneficiaries with that of the national population might well reveal that most of the beneficiaries were poor by national standards and that the program was thus considerably more successful than otherwise thought.

Uganda
2000 / 01 - ASSET QUESTIONNAIRE

Question	Score if "Yes"	Score if "No"	Item Score
<i>1. In your household, is/are there?</i>			
Electricity	0.24923	-0.04101	_____
One or more radios	0.04883	-0.06190	_____
One or more televisions	0.27100	-0.02480	_____
One or more refrigerators	0.34028	-0.01234	_____
One or more bicycles	-0.01006	0.00569	_____
One or more motorcycles	0.15343	-0.00478	_____
One or more cars, trucks	0.30406	-0.00722	_____
One or more telephones	0.32113	-0.01429	_____
One or more lanterns	0.08418	-0.05217	_____
One or more cupboards	0.09638	-0.04368	_____
One or more donkeys	-0.02685	0.00013	_____
One or more boats, canoes	-0.00686	0.00006	_____
<i>2. Do the members of your household work their own or family's agricultural land?</i>			
	0.00590	-0.01760	_____
<i>3. What is the principal source of drinking water for your household?</i>			
Piped water in residence	0.38393	-0.00608	_____
Piped water outside of residence	0.25388	-0.00600	_____
Piped water in public tap	0.12169	-0.02256	_____
Open well in yard, plot	0.14235	-0.00007	_____
Open well outside yard, plot	-0.04935	0.01358	_____
Protected well in yard, plot	0.01517	-0.00002	_____
Protected well outside yard, plot	-0.02112	0.00382	_____
Borehole well in yard, plot	0.08851	-0.00018	_____
Borehole well outside yard, plot	-0.02538	0.00727	_____
Springwater	-0.06484	0.00458	_____
River, canal, surface water	-0.07719	0.00631	_____
Rainwater	0.08220	-0.00035	_____
Tanker truck	0.26421	-0.00007	_____
Bottled water	0.18150	-0.00032	_____
Gravity flow scheme	-0.04804	0.00032	_____
Other	0.11688	-0.00084	_____
<i>4. What is the principal source of fuel for cooking used by your household?</i>			
Electricity	0.36048	-0.00482	_____
Gas	0.50695	-0.00026	_____
Biogas	0.44556	-0.00034	_____
Kerosene	0.12804	-0.00450	_____
Coal	0.13031	-0.04157	_____
Charcoal	-0.06018	0.13919	_____
Wood, straw	-0.04908	0.00002	_____
Other	0.07002	-0.00074	_____
<i>5. What is the principal type of toilet facility used by your household?</i>			
Own flush toilet	0.28861	-0.00945	_____
Shared toilet	0.04956	-0.03236	_____
Traditional pit latrine	-0.00279	0.01142	_____
VIP latrine	0.17968	-0.00564	_____
Bush,field	-0.09447	0.01374	_____
Other	-0.06777	0.00034	_____
<i>6. What is the principal material used for the floors in your household?</i>			
Dirt, earth, dung	-0.06566	0.06648	_____
Cement	0.15780	-0.03732	_____
Parquet	0.15877	-0.00048	_____
Vinyl or asphalt tile	0.16047	-0.01558	_____

Uganda
2000 / 01 - ASSET QUESTIONNAIRE (Cont.)

Question	Score if "Yes"	Score if "No"	Item Score
<i>6. What is the principal material used for the floors in your household? (Cont.)</i>			
Ceramic tile	0.37657	-0.00057	_____
Other	0.04521	-0.00007	_____
<i>7. What is the principal material used for the walls of your household?</i>			
Thatch	-0.08915	0.00102	_____
Mud and poles	-0.06449	0.07205	_____
Unburnt bricks	-0.05449	0.00655	_____
Burnt bricks and mud	0.00195	-0.00016	_____
Burnt bricks and cement	0.14480	-0.04865	_____
Wood timber	0.04691	-0.00018	_____
Bricks, cement blocks, concrete	0.19599	-0.00411	_____
Stone	0.04572	-0.00011	_____
<i>8. What is the principal material used for the roof of your household?</i>			
Thatched	-0.09170	0.04634	_____
Corrugated iron	0.04054	-0.07240	_____
Asbestos as roofing	0.19053	-0.00153	_____
Tiles	0.36870	-0.00235	_____
Tin	0.02144	-0.00002	_____
Cement	0.27079	-0.00110	_____
Other	-0.05175	0.00018	_____
<i>9. What is the principal means of lighting in your household?</i>			
Electricity	0.26352	-0.03933	_____
Biogas	0.03644	-0.00004	_____
Kerosene	-0.03992	0.18605	_____
Charcoal	0.05470	-0.00048	_____
Dung	-0.07293	0.00200	_____
Other	0.00580	-0.00006	_____
Total Household Asset Score (sum of individual item scores)			_____

2000 / 01 - QUINTILE CUT-OFF POINTS

Wealth Quintile	Asset Index Value	
	Bottom Cut-Off	Top Cut-Off
Low	Low	-0.77074
Second	-0.77074	-0.58393
Third	-0.58393	-0.35712
Fourth	-0.35712	0.14116
High	0.14116	High

ANNEX C. COUNTRIES COVERED BY THE HNP - POVERTY REPORT PROJECT*

East Asia and Pacific

Cambodia	2000
Indonesia	1997, 2002-03
Philippines	1998, 2003
Vietnam	1997, 2002

Europe and Central Asia

Armenia	2000
Kazakhstan	1995, 1999
Kyrgyz Rep.	1997
Turkey	1993, 1998
Turkmenistan	2000
Uzbekistan	1996

Latin America and the Caribbean

Bolivia	1998, 2003
Brazil	1996
Colombia	1995, 2000, 2005
Dominican Rep.	1996, 2002
Guatemala	1995, 1998-99
Haiti	1994-95, 2000
Nicaragua	1997- 98, 2001
Paraguay	1990
Peru	1996, 2000

Middle East and North Africa

Egypt	1995, 2000
Jordan	1997
Morocco	1992, 2003-04
Yemen	1997

South Asia

Bangladesh	1996-97, 1999-2000, 2004
India	1992-93, 1998-99
Nepal	1996, 2001
Pakistan	1990-91

Sub-Saharan Africa

Benin	1996, 2001
Burkina Faso	1992-3, 1998-9, 2003
Cameroon	1991, 1998, 2004
Central African Rep.	1994-95
Chad	1996-97, 2004
Comoros	1996
Cote d'Ivoire	1994
Eritrea	1995
Ethiopia	2000
Gabon	2000
Ghana	1993, 1998, 2003
Guinea	1999
Kenya	1993, 1998, 2003
Madagascar	1997
Malawi	1992, 2000
Mali	1995-96, 2001
Mauritania	2000-01
Mozambique	1997, 2003
Namibia	1992, 2000
Niger	1998
Nigeria	1990, 2003
Rwanda	2000
Senegal	1997
South Africa	1998
Tanzania	1996, 1999, 2004
Togo	1998
Uganda	1995, 2000-01
Zambia	1996, 2001-02
Zimbabwe	1994, 1999

* Note: electronic versions of reports for all countries are currently available at: www.worldbank.org/povertyandhealth/countrydata. While supplies last, paper copies may be obtained at no charge by sending a request to the World Bank's health advisory service: healthpop@worldbank.org.