

Health and Health Service Utilization in South Africa : Evidence from SAGE

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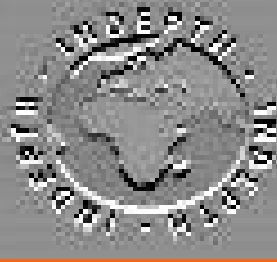
Dr. F. Xavier Gómez – Olivé, MRC/WITS Rural Public Health and Health Research Unit – Agincourt HDSS

**Ageing and health: from evidence to policy
Technical meeting, WHO, Geneva, 2-4 June 2010**

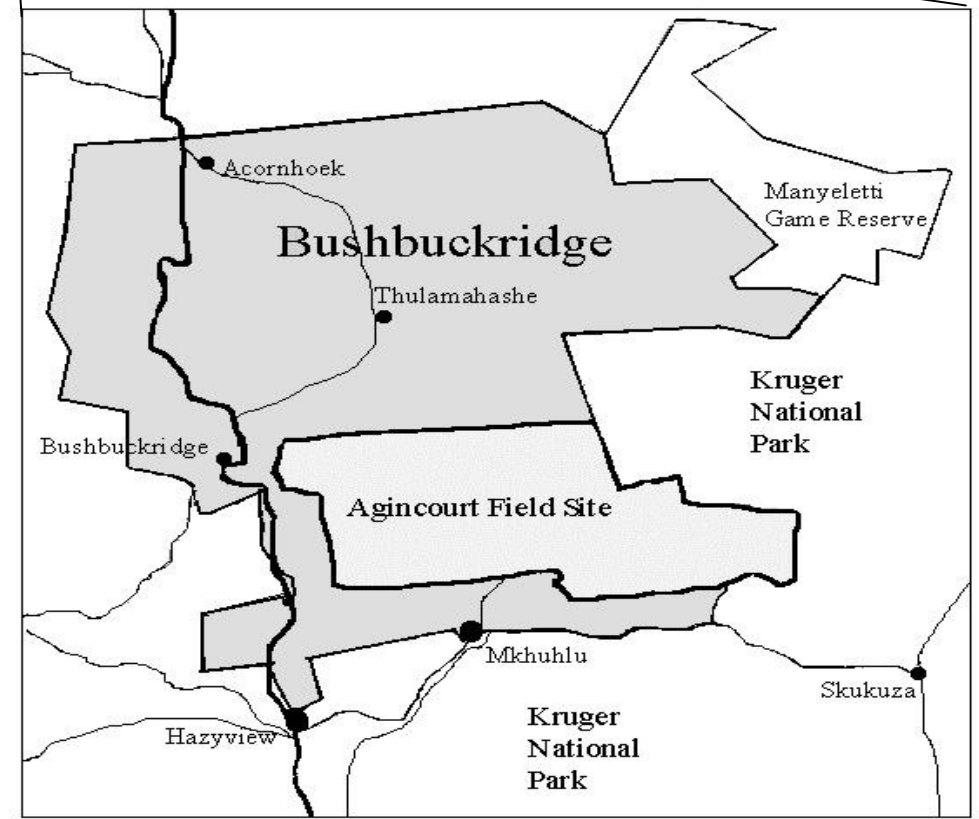
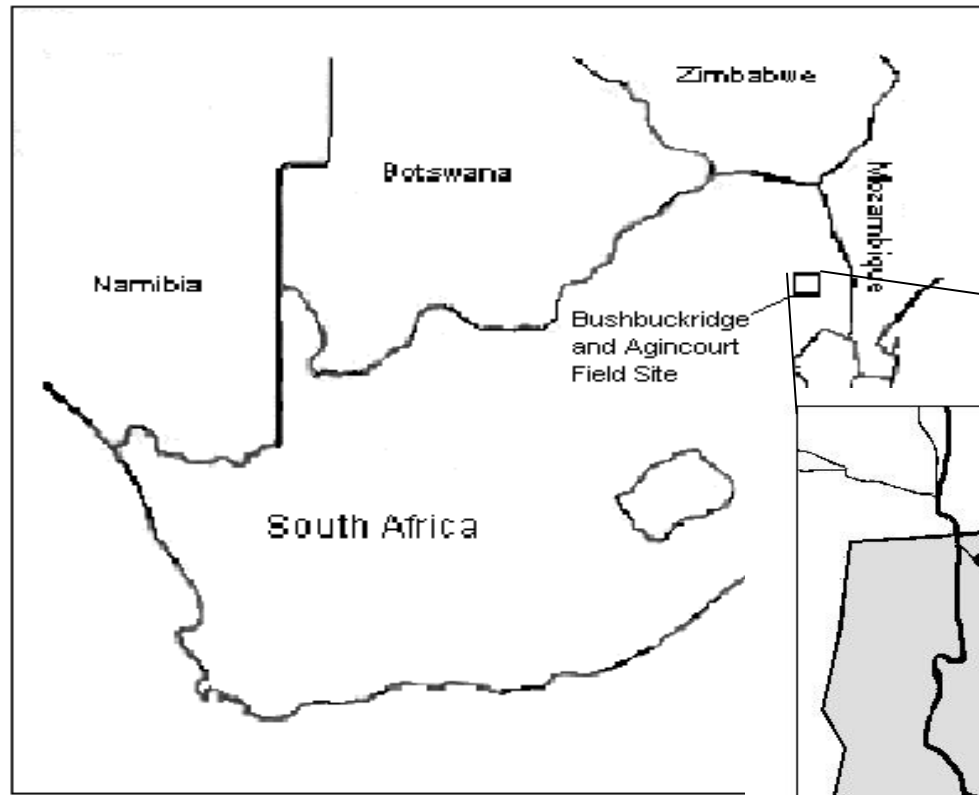
In this Presentation

- We explore the comparability of SAGE data at national and INDEPTH site levels
- We provide background information on Agincourt INDEPTH site
- We provide an overview of sampling, sample size and measures used: SAGE National/SAGE INDEPTH site
- We compare selected results:
 - Health status – self rated health, difficulty in performing work
 - Health service utilization – hospitalization and out patients
- Conclusions
- Acknowledgements

Sampling



- SAGE Sample – National
 - Multistage Stratified Random Cluster Sample using HSRC’s Master Sample (HSRC 2002) developed based on Census (Stats SA, 2001) was used as sampling frame – stratified by province, geotype & race.
- SAGE Sample – Agincourt Health and Demographic Surveillance Site, INDEPTH
 - A random sample of 575 adults 50 plus was selected from the 6,206 adults permanently living in the census study area in May 2006.



Agincourt HDSS

South Africa

Agincourt Study Site

25 villages over 450 sq km
84,000 people; in 15,500 Households
2 health centres, 6 fixed clinics
3 hospitals 25 – 60 km away

Kruger
National
Park

Medical Facilities

- ⊕ Clinic
- ⊞ Health Centre
- ⊕ Private Clinic
- ⊕ Visiting points

Schools

- ⚑ Villages
- ⚑ Villages



420 sq km

Mpumalanga/Bushbuckridge
Local Municipality

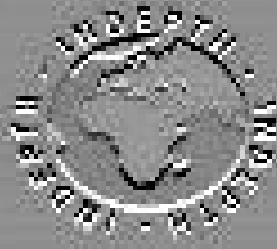
Kilometers

0 2.5 5 10



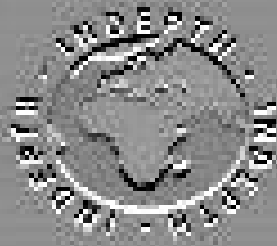
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Self Rated Health (SRH)



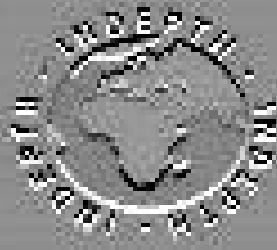
- Question asked is “*In general, how would you rate your health today?*”.
- Answers categorised from Very Good to Very Bad.
- Overall general self-reported health question has been well researched in epidemiological surveys.
- It has been a good predictor for numerous health and health-related outcomes.

Difficulty on working or performing HH activities



- Participants were asked *Overall in the last 30 days, how much difficulty did you have with work or household activities?*
- Answers categorised from None to Extreme.
- The time period was specified as the last 30 days and the respondents were asked to provide an average of the good and bad days.
- This question provides some indication of the impact of health on a person's functioning.

Health Service Utilization



- Outpatient: measured as the mean number of outpatient visits for the last 12 months
- Inpatient: measured categorically as having had any hospital stay during the last 3 years
- Satisfaction: Overall satisfaction with health care services in own country—Very Satisfied to Very Dissatisfied

Sample population



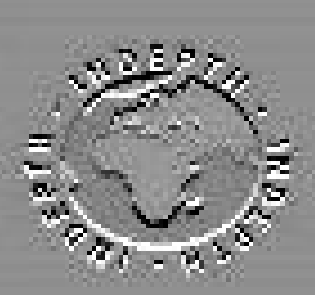
	SAGE National		Agincourt HDSS	
	Male N (%)	Female N (%)	Male N (%)	Female N (%)
	1638 (44.1)	2202 (55.9)	136 (32)	289 (68)
<i>Age</i>				
50-59	757 (52.1)	938 (48.1)	47 (34.6)	110 (38.2)
60-69	537 (30.7)	696 (30.6)	46 (33.8)	81 (28.1)
70+	344 (17.2)	568 (21.3)	43 (31.6)	97 (33.7)
<i>Locality type</i>				
Urban	1076 (65.9)	1485 (64.1)	0	0
Rural	561 (34.1)	715 (35.9)	136 (32)	289 (68)
<i>Population group</i>				
Black African	803 (73.7)	1250 (74)	136 (32)	289 (68)
White	132 (10.7)	137 (8.3)	0	0
Coloured	232 (11.8)	423 (13.5)	0	0
Indian or Asian	136 (3.7)	171 (3.9)	0	0

Sample population



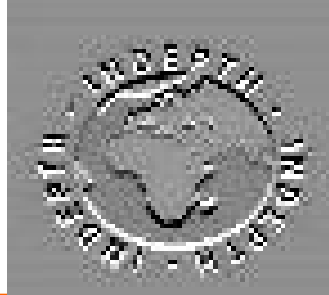
	SAGE National		Agincourt HDSS	
	Male N (%)	Female N (%)	Male N (%)	Female N (%)
	1638 (44.1)	2202 (55.9)	136 (32)	289 (68)
<i>Education</i>				
No education	315 (21.9)	539 (26.9)	78 (57.4)	192 (66.4)
Less than primary	310 (32.3)	493 (33.1)	38 (27.9)	72 (24.9)
Completed primary	305 (28.4)	474 (30.6)	13 (9.6)	18 (6.2)
Completed secondary	170 (16.5)	278 (20.7)	3 (2.2)	3 (1)
Completed high school	105 (11.5)	107 (10.7)	3 (2.2)	1 (0.4)
Completed college/university	69 (6.9)	59 (3.9)	0 (0)	3 (1)
Completed postgraduate	24 (4.5)	11 (0.9)	1 (0.7)	0 (0)
<i>Marital status</i>				
Never married	142 (8.4)	370 (18.5)	2 (1.5)	7 (2.4)
Currently married	1111 (71.9)	697 (31.9)	96 (70.6)	98 (33.9)
Cohabiting	119 (7.4)	80 (3.8)	2 (1.5)	4 (1.4)
Separated/divorced	87 (3.8)	143 (7.4)	20 (14.7)	41 (14.2)
Widowed	159 (7.6)	861 (36)	16 (11.8)	139 (48.1)

In the Forthcoming Slides

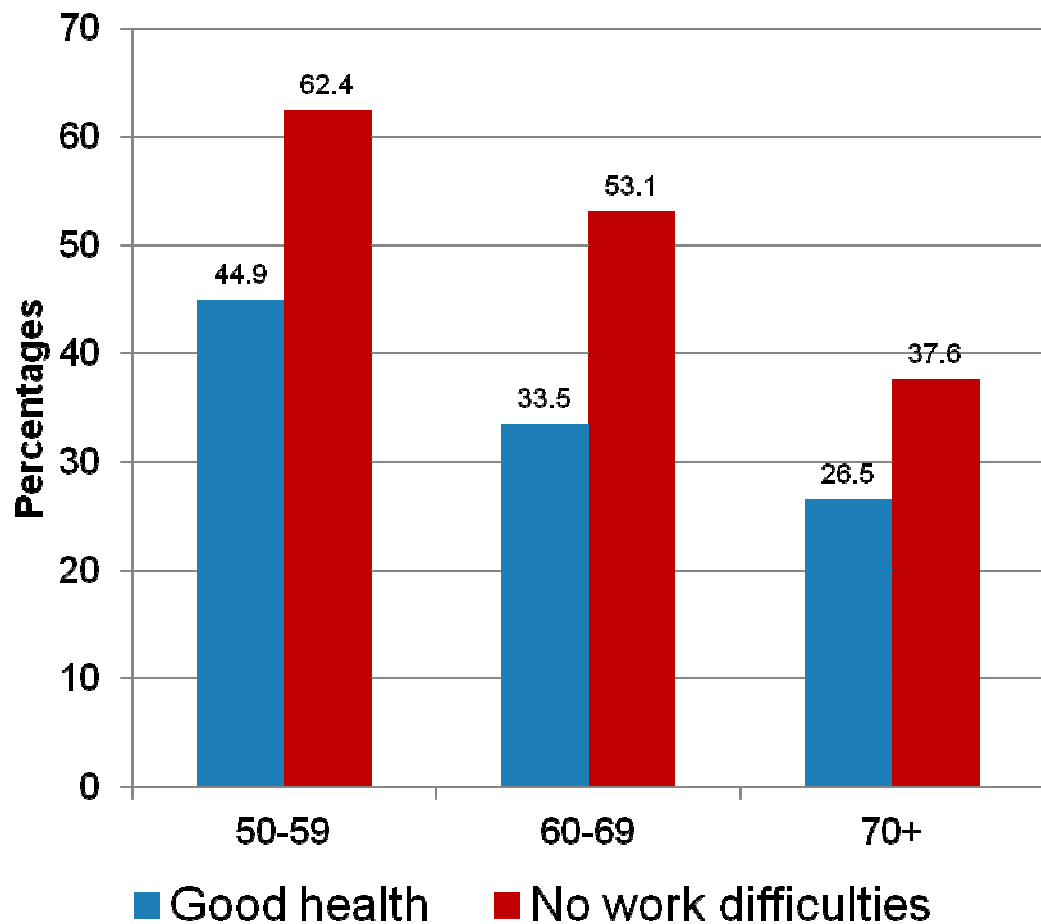


- Some basic frequencies of 3 variables to compare results between the SAGE National and INDEPTH site in South Africa by selected demographics
 - SRH, difficulty in performing HH activities, health care utilization
- Commonalities between the two samples – same measures, same age groups, same country
- Differences between the two samples: national vs site, large vs small sample
- Results are therefore presented not to make any conclusions but rather to stimulate desire for further analyses to compare results:
 - INDEPTH Site by INDEPTH Site
 - National by INDEPTH Site across all participating countries

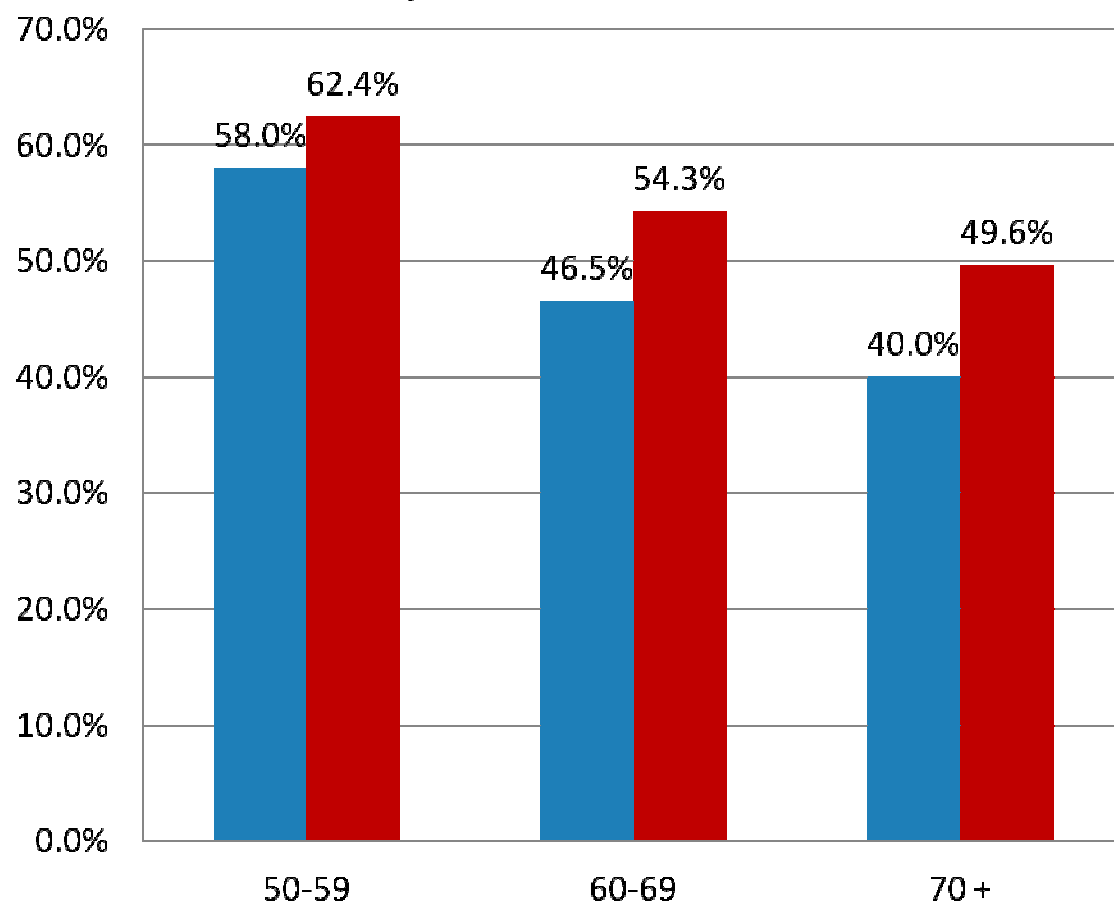
SRH & work difficulties by Age



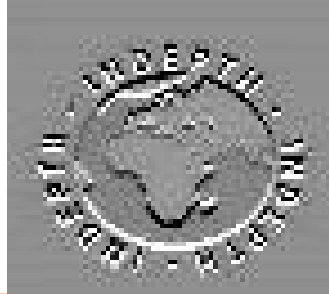
SAGE National



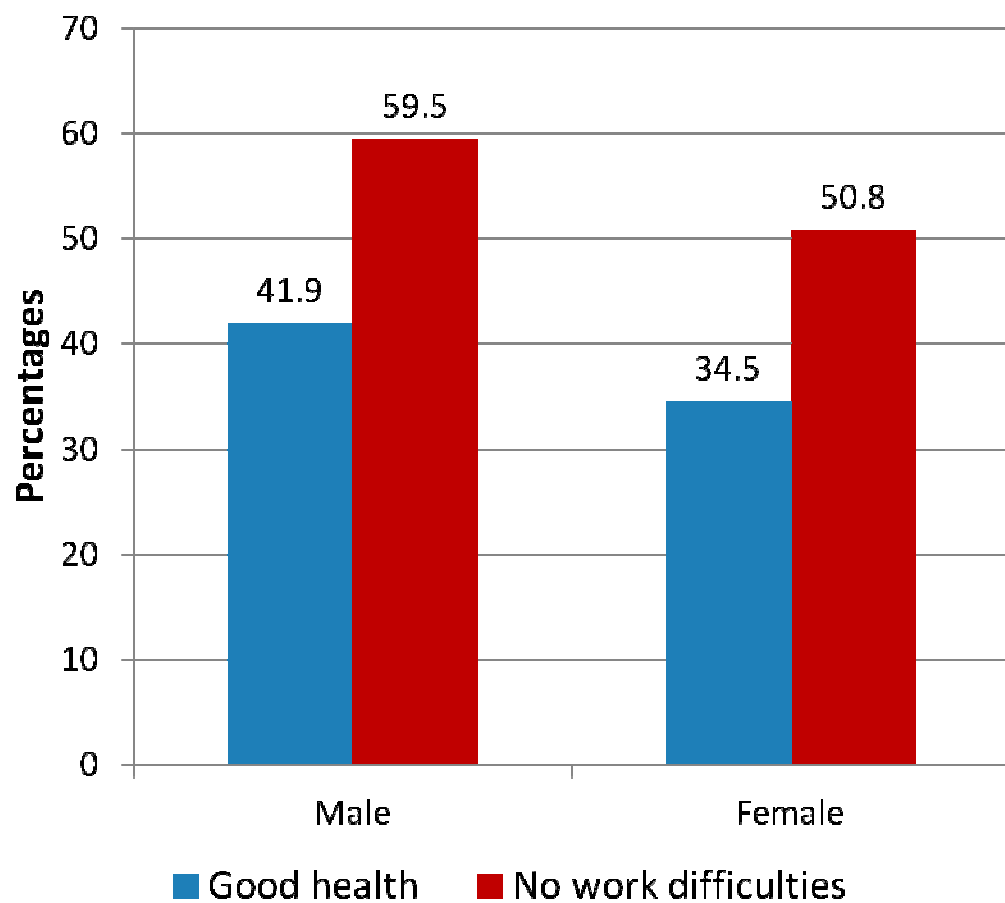
Agincourt HDSS



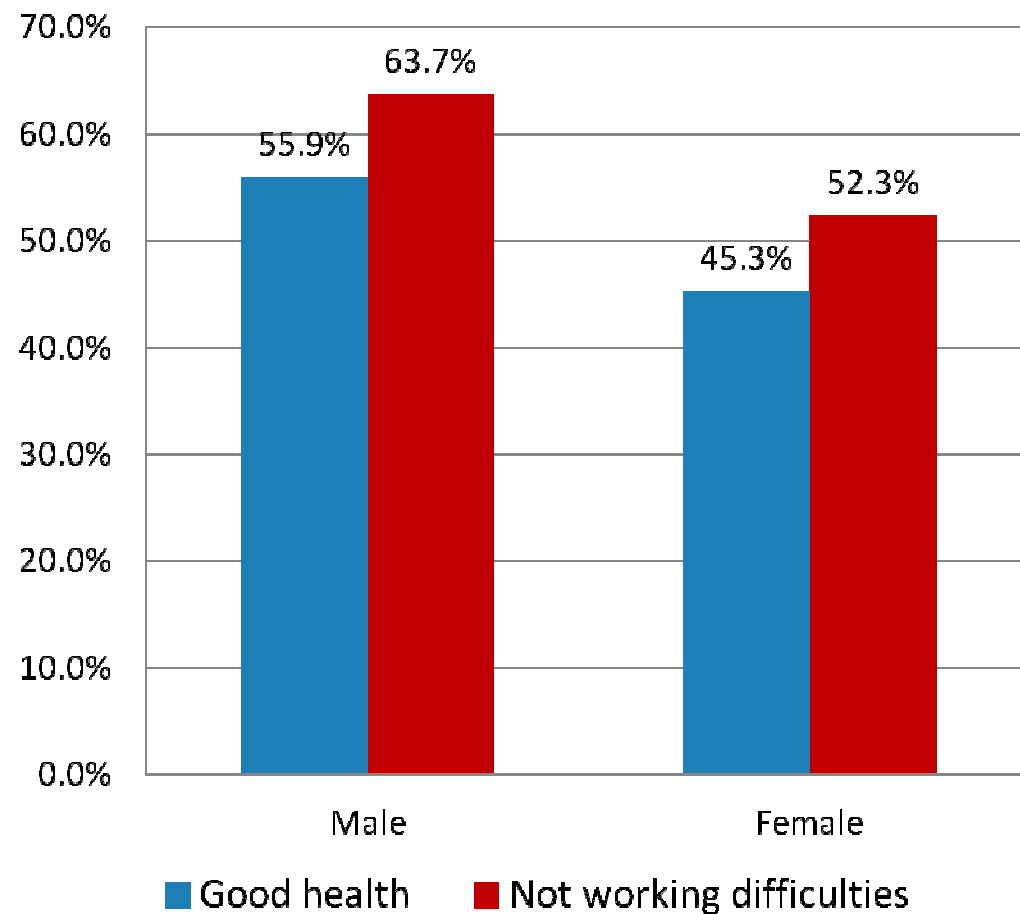
SRH & work difficulties by Gender



SAGE National



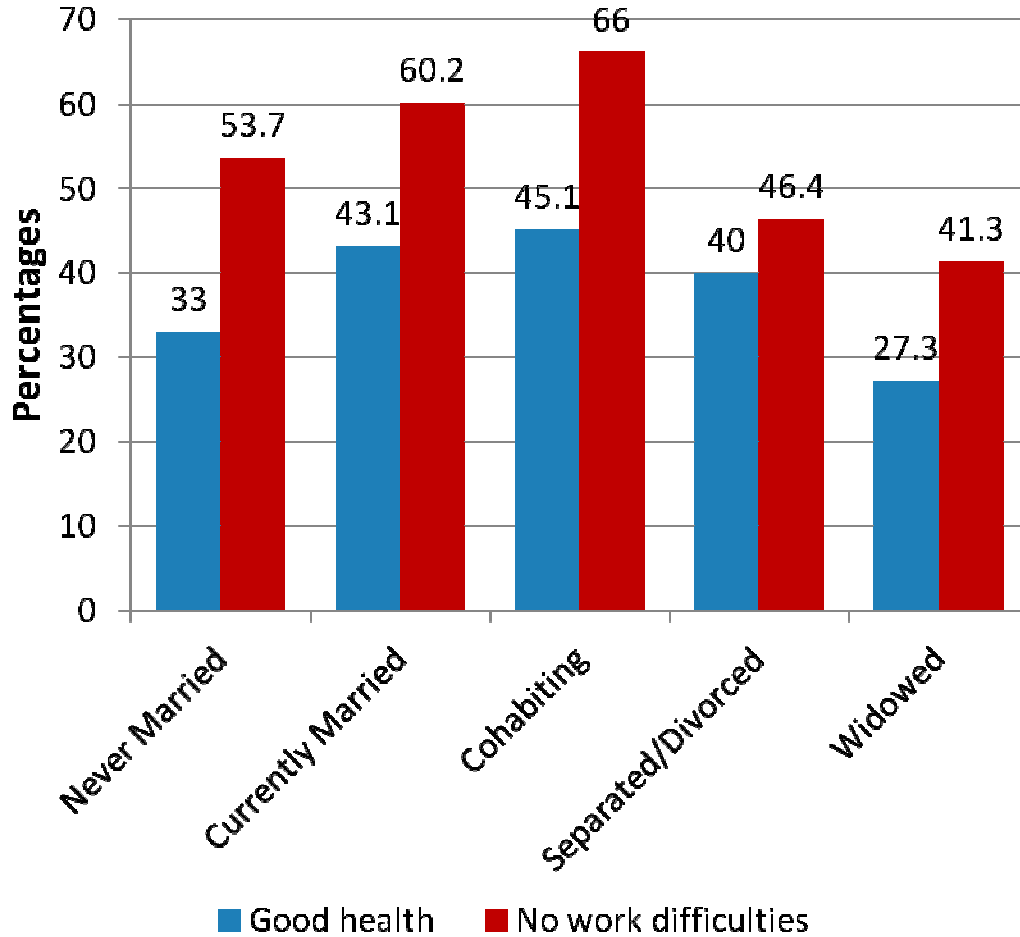
Agincourt HDSS



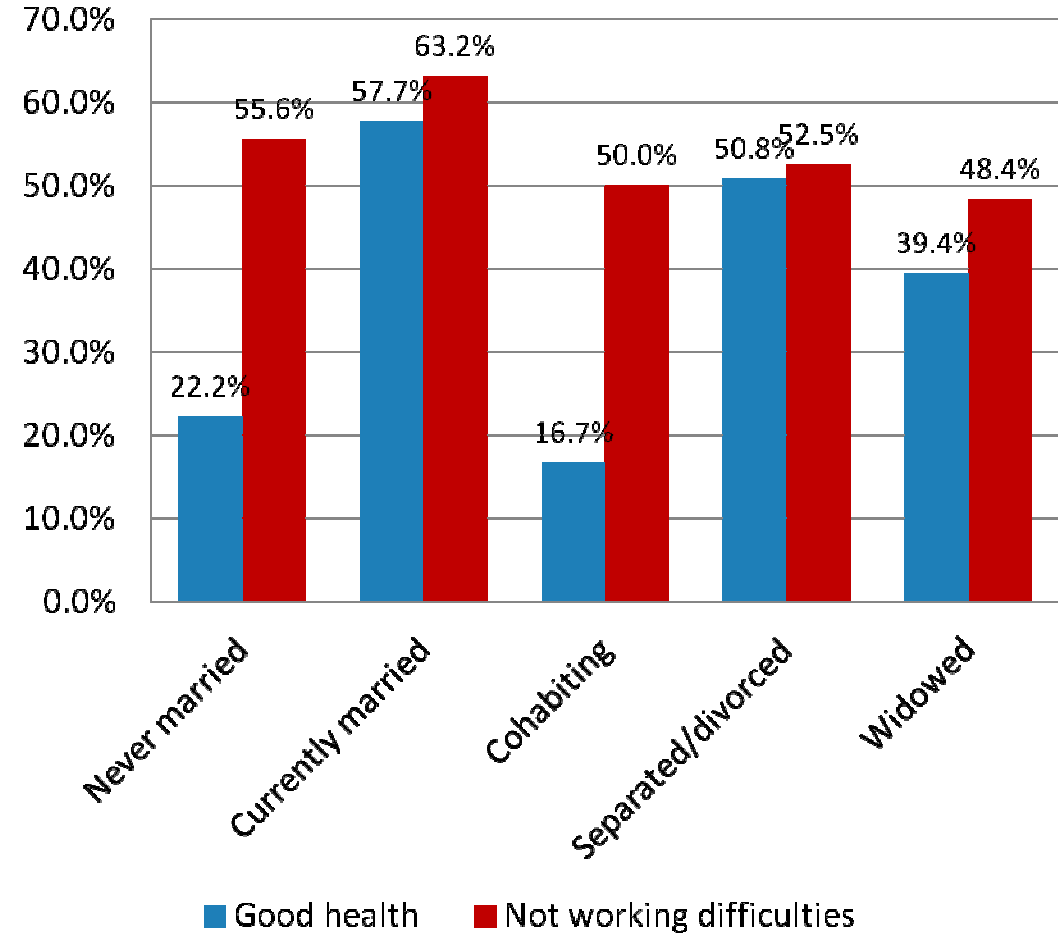
SRH & work difficulties by Marital Status



SAGE National



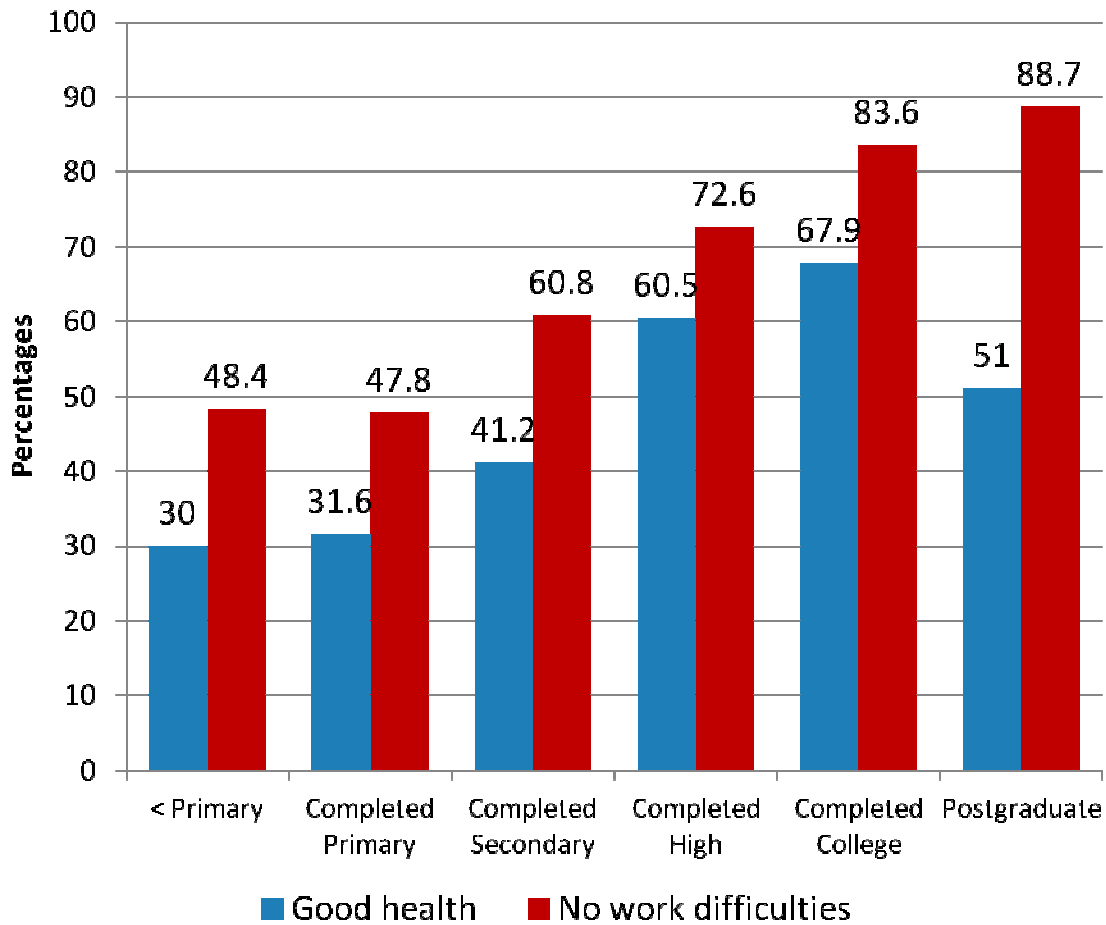
Agincourt HDSS



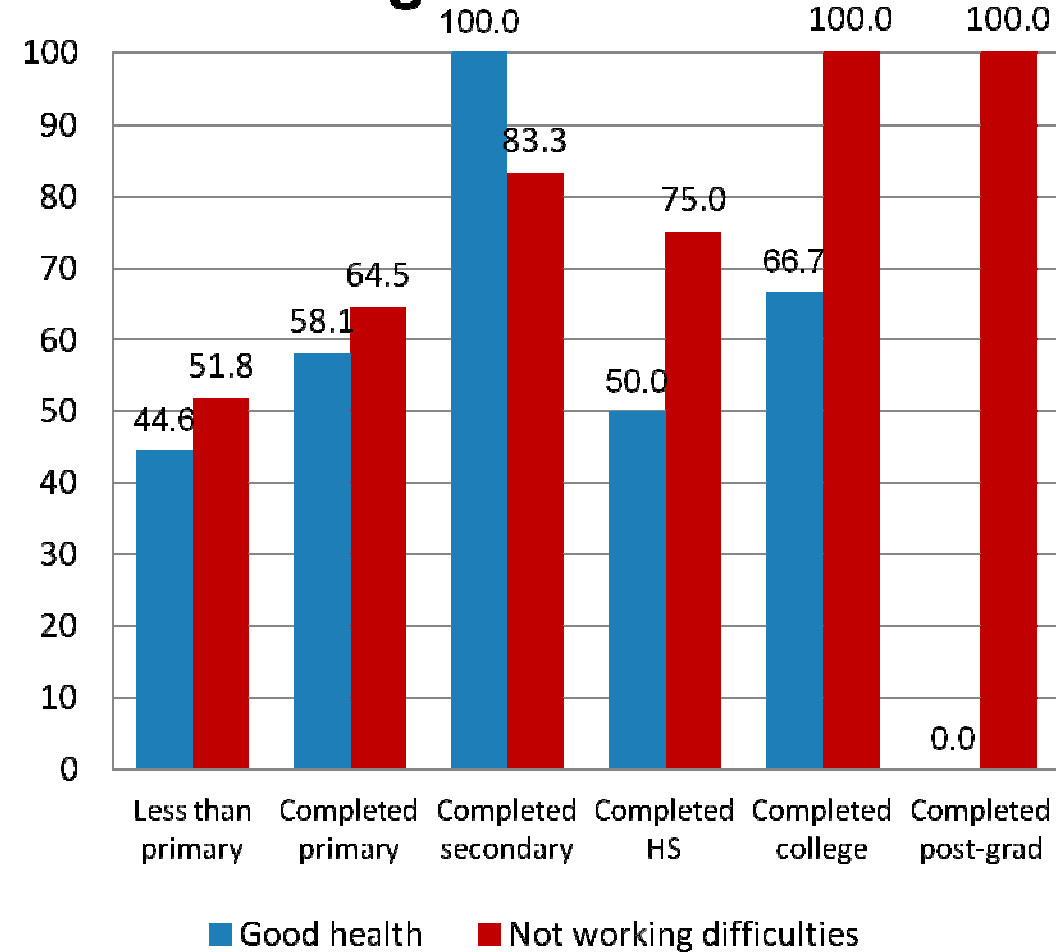
SRH & work difficulties by Education



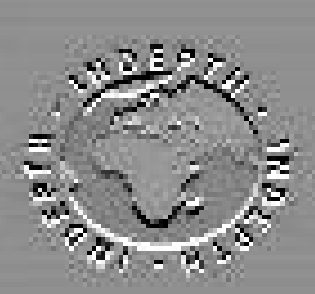
SAGE National



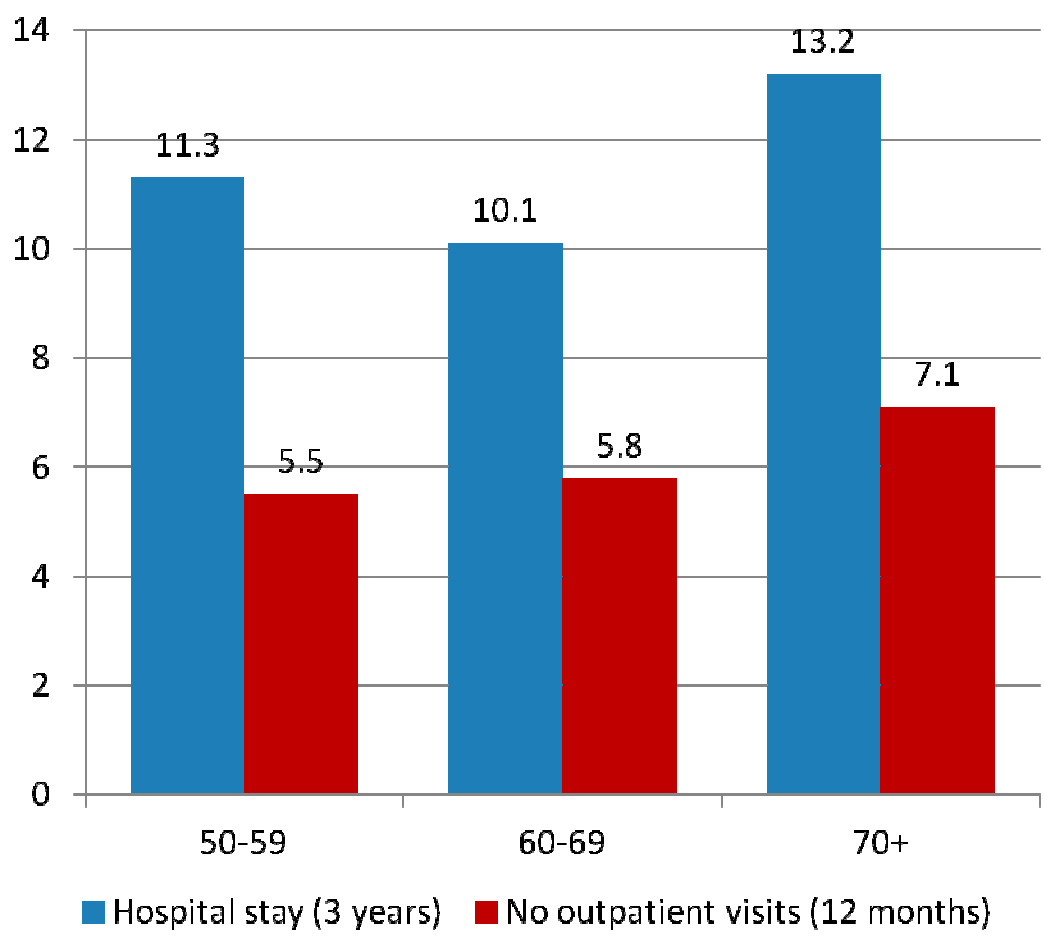
Agincourt HDSS



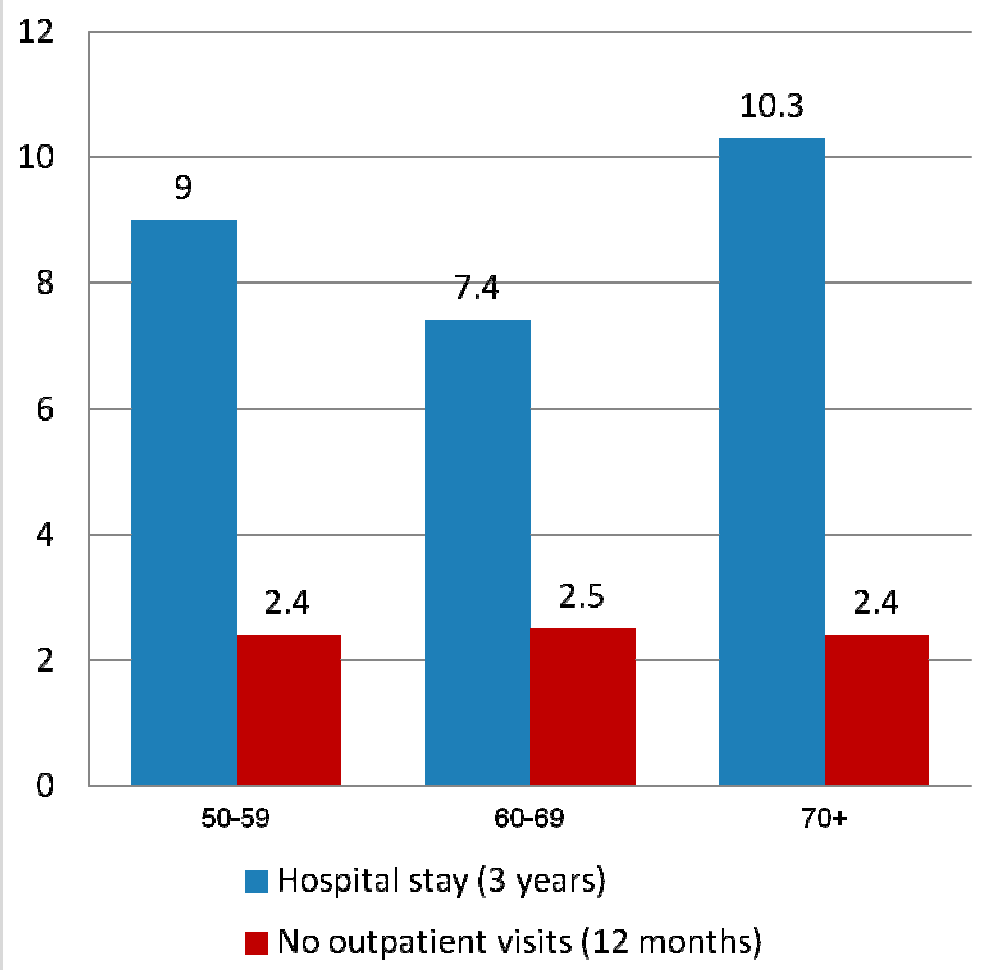
Health care utilization by age



SAGE National



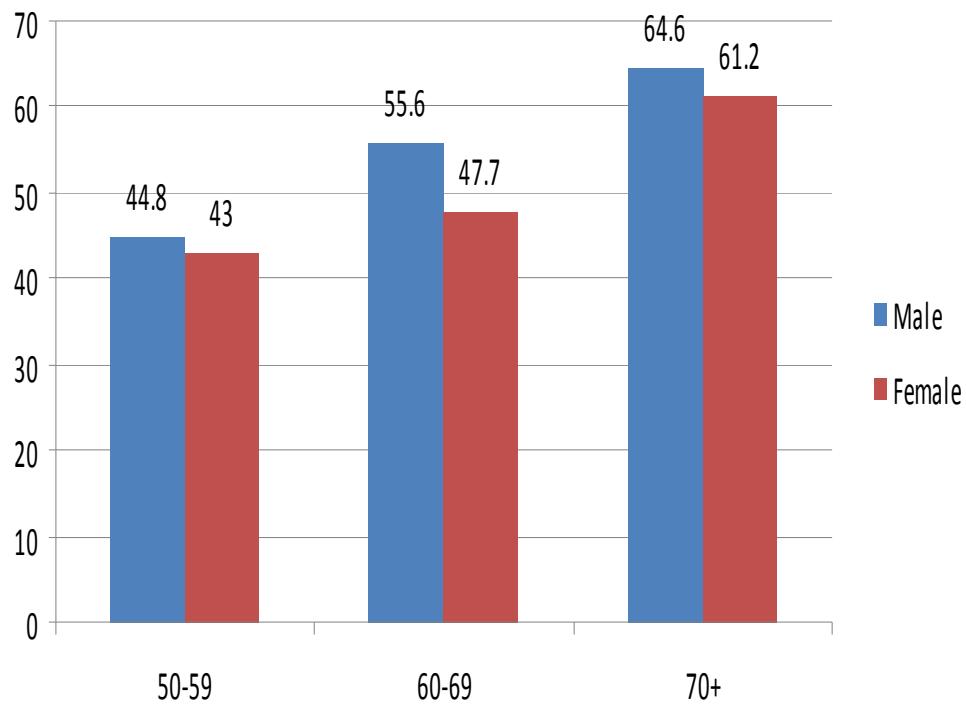
Agincourt HDSS



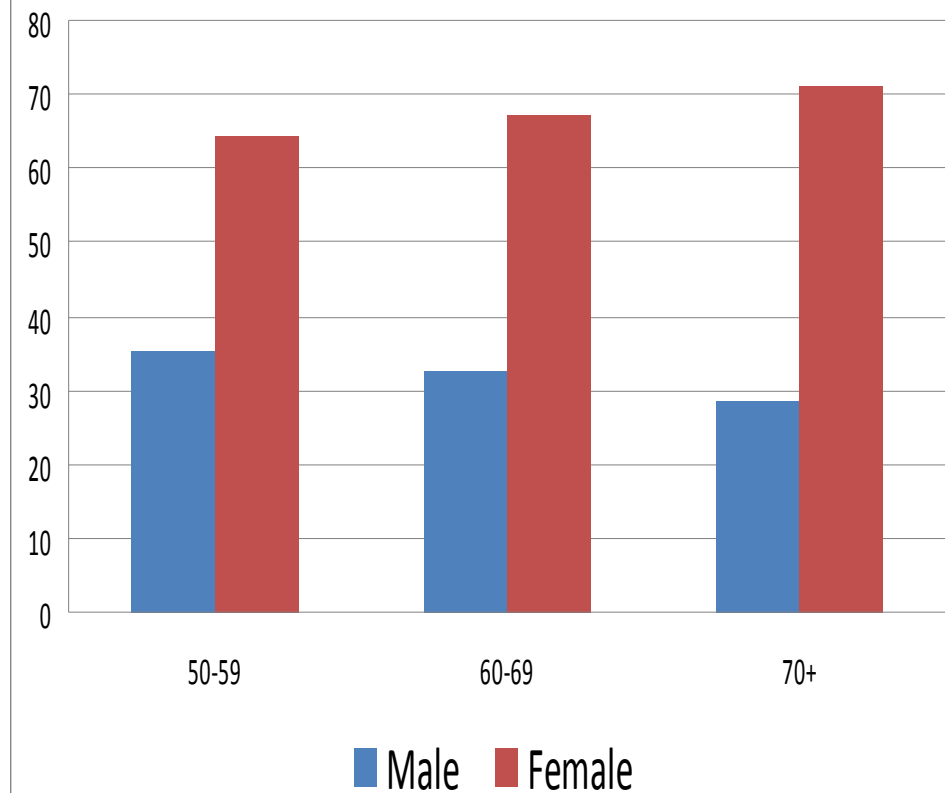
Satisfaction with health services in country by Age & Sex



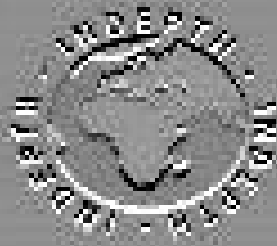
National SAGE



Agincourt HDSS

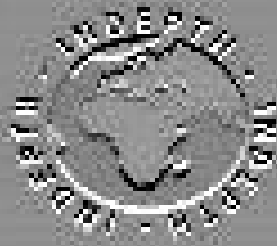


Conclusions



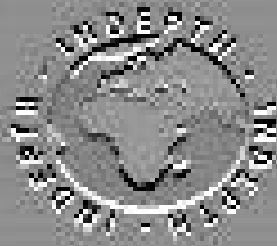
- The purpose of this paper is to explore comparability not to make conclusions due to following:
 - Large vs small sample
 - Nationally representative study vs site specific study
 - Rural/urban based study vs rural based study
- To a large extent, the results are comparable, e.g. in both sites:
 - Men tended to rate their health positively than females and report less difficulty in performing HH duties
 - Positive health rating and not having difficulty in performing HH duties was higher for respondents with higher education
 - Married/co-habiting respondents had none or mild difficulties in performing HH activities, tended to rate their health positively
- Further analyses are needed across INDEPTH Sites and countries

Acknowledgements



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 - Prof Refilwe Nancy Phaswana-Mafuya – PI
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THANK YOU