An investigation for health and economic impact of HIV/AIDS in Mangochi District households (*Semi Urban and Rural areas):A Cohort Study* By

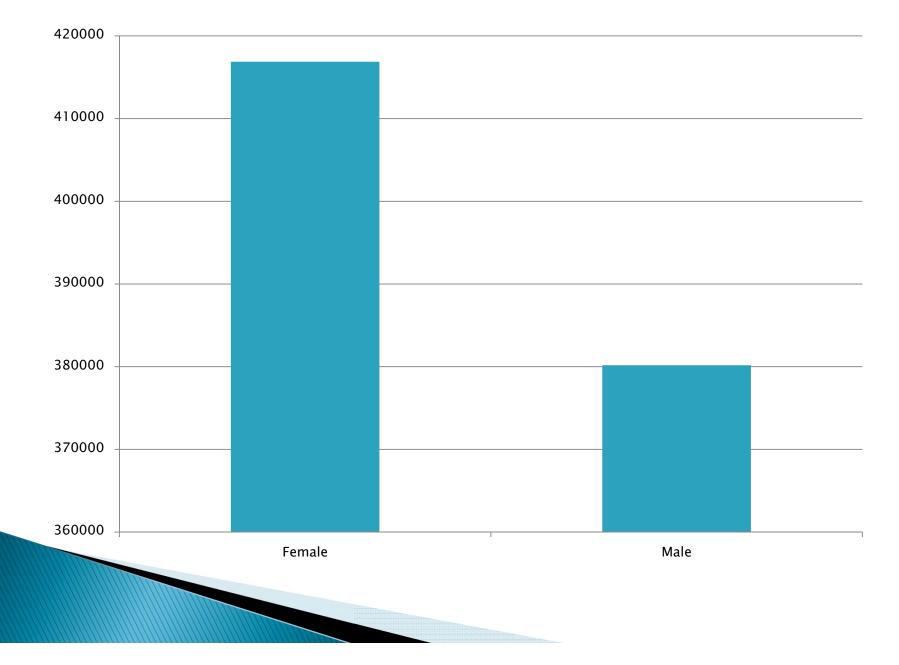
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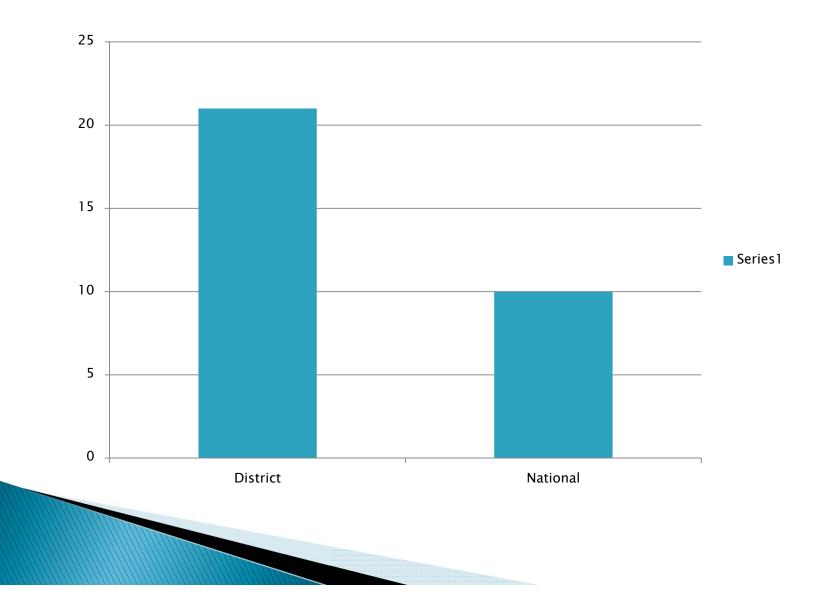
BACKGROUND Map of Malawi-Mangochi District



Mangochi District Population, 2008: 797,061



 District HIV/AIDS prevalence rate versus National prevalence rate



 HIV/AIDS is spreading rapidly in Malawi and it imposes a heavy financial burden on the individuals, households and the society

 Notable Households are severely affected by (HIV/AIDS)

 Health and economic impacts have not been quantified in controlled cohort studies in some Districts like Mangochi.

AIMS/RATIONALE

Compare changes in households' incomes and expenditures, in semi urban and rural setting



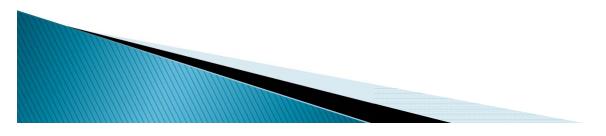
 Compare the physical, logistic and economic burdens of illness between households affected by HIV and unaffected neighbouring households.

METHODS

- Controlled cohort design, with individualand household-level data from households affected and unaffected by HIV
- The closest unaffected neighbouring household, in one semi urban and one rural area

 Subjects known to have HIV were asked by Centre staff for informed verbal consent for their households to take part in the study

- Eligible affected households were then visited
- Unaffected households were then identified
- Data were collected using intervieweradministered questionnaires.
- The design of the instrument- literature review of household impact research methods, focus group interviews with Semi structured.



- The questionnaire included questions on the demographic, economic and health in all
- Statistical analyses were conducted at household and individual levels with Stata
- Income and expenditure had positively skewed distributions and were logarithmically transformed before linear regression
- Changes in income and expenditure over 3 months were analysed in linear regression models using analysis of covariance

RESULTS

- Baseline information (Demographic and Economic)
- Affected 192
- > 212 unaffected 884 members.
- Of the Total 96% were followed up, providing repeated measure data on 94% of baseline individuals.

 Affected households' incomes per person were about half of, and their expenditures per person were about a third lower than, unaffected.

- Members of affected households, compared to members of unaffected households, were independently more likely to be continuously ill (adjusted odds ratio 2.1, 95% CI (1.3–3.4 at follow up), and to die (3.4, 95% CI 1.0–11), mainly due to infectious diseases
- Affected households were poorer than unaffected households at baseline (relative income per person 0.61, 95% CI 0.49-0.76).
- The expenditure and income decreased more rapidly in affected than in unaffected households (baseline-adjusted relative expenditure 0.9, 95% CI 0.75-0.99 and income 0.88, 95% CI 0.75-1.05).

CONCLUSION

 HIV appeared to affect income more than expenditure, presumably because HIV imposes additional costs on households, most important of which are health care and funeral costs.

In one poor rural and one semi urban area of the Mangochi District, households affected by HIV had a higher burden of illness and were substantially poorer than their neighbours.

Thank you very much for your attention

