Proportion of deaths occurring outside of health facilities attributable to HIV/AIDS

872

Newton L Kalata, Alinune Kabaghe [2], George Mtonga [3], Emmanuel Mkambankhani, Masauso Mussa, Amos Nyaka, Kondwani Nkanaunena, Verita Buie, Ramesh Sethi, Rodrick Langwe, Kelsey Mirkovic, Nellie Wadonda-Kabondo
[1]US Centers for Disease Control and Prevention, Lilongwe, Malawi; [2]Elizabeth Glazer Pediatric AIDS Foundation, Lilongwe, Malawi; [3]National Registration Bureau-Ministry of Homeland Security, Lilongwe, Malawi; [3]Ministry of Health, Lilongwe, Malawi

BACKGROUND

- Malawi currently relies on cause of death information from deaths occurring in health facilities.
- However, **> 80%** (range: 62-86%) of **deaths occur outside health facilities in communities** *[Malaria Vaccine Initiative Program data; unpublished]*
  - Need to understand the true burden of all-cause and HIV/AIDS-related mortality as Malawi is on course to achieve the UNAIDS 95-95-95.
- Malawi is piloting cause of death reporting using 2016 WHO verbal autopsy tool for community deaths.

METHODS

- We used interVA5 software to analyze VA data collected between January and August 2022.
- We compared the VA data with health facility mortality data collected within the same period in the same district.
- We estimated proportion of deaths occurring in community due to HIV/AIDS.

Table 1: Characteristics of deceased

	Community N=190 (54%)	Health facility N=164 (46%)
Assigned a CoD (%; 95% CI)	91% (90%-92%)	52% (45%-59%)
Median age (years; 95% CI)	69 (58-73)	44 (24-57)
Females (%; 95%CI)	45% (38%-52%)	44% (34%-55%)

In Malawi, a **17%** of deaths occurring in the ***community*** are ***attributable to HIV/AIDS,*** compared to **5%** for ***health facilities deaths.***

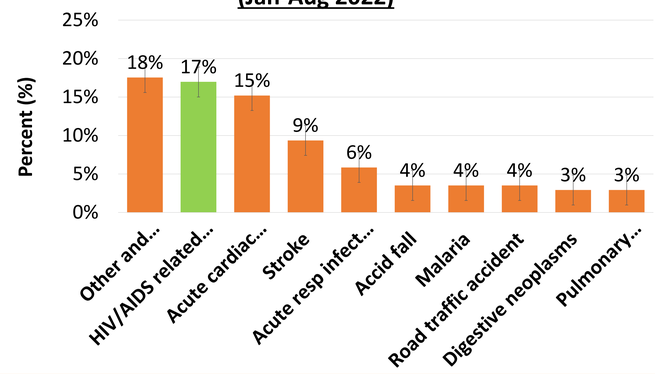
RESULTS

- Total **354 deaths** were recorded; **54% were from the community.**
  - **Cause of death** was successfully assigned to more **community (91%; 90-92%) than facility (52%; 45-59%) deaths.**
- **Median age:**
  - **69 years (95% CI 58-73)** for community deaths **vs 44 years (95% CI 24-57)** for health facility deaths.
- **Gender distribution:**
  - **Similar gender distribution between community and health facility.**
- For community deaths, **HIV/AIDS was the responsible for 17% (95% CI 12-23) of all the deaths compared to 5% (95% CI 4-16) for** health facilities deaths.

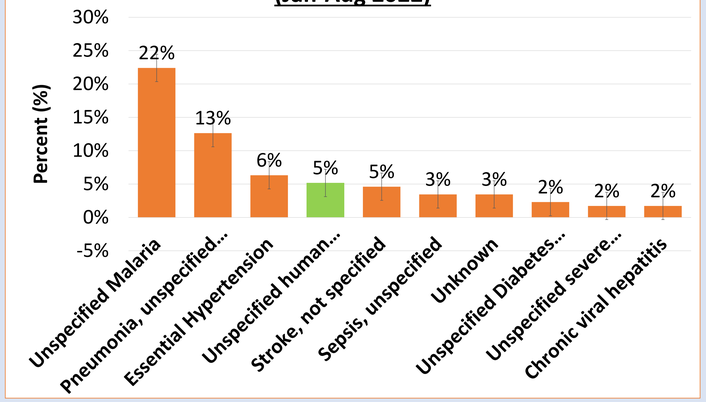
CONCLUSION

- Cause of death information were more complete in community than heath facility deaths.
- Relying on information from health facility deaths alone may provide biased measure of deaths and cause of deaths, .
- Scaling up of VA may supplement and improve measurement of national cause-of-death and true burden of HIV/AIDS-related mortality in Malawi.

Top 10 causes of death in community in Mchinji (Jan-Aug 2022)



Top 10 causes of death in health facility in Mchinji (Jan-Aug 2022)



ADDITIONAL INFORMATION

Acknowledgment

- We acknowledge the relatives of the deceased involved in the study.
- Malawi Ministry of Health
- National Registration Bureau
- Elizabeth Glazer Pediatric AIDS Foundation

Author Contact Information
Email: nkalata@cdc.gov
Mobile: +265881240668

ELIZABETH GLASER PEDIATRIC AIDS FOUNDATION
www.pedaids.org