Prioritizing Nutrition in the Management of Advanced HIV Disease in Zimbabwe – Secondary data analysis from the electronic Patient Management System(ePMS) <u>W. Dube<sup>1</sup></u>, T. Muteti<sup>2</sup>, H. Njovo<sup>2</sup>, C. Mupanguri<sup>3</sup>, E. Matangi<sup>4</sup>, R. Sapire<sup>5</sup>, T.M. Matsungo<sup>1</sup> 1. University of Zimbabwe, Department of Nutrition Dietetics and Food Sciences, Harare, Zimbabwe, 2. Ministry of Health and Child Care, National Nutrition Unit, Harare, Zimbabwe, 3. Ministry of Health and Child Care, AIDS and TB Unit, Harare, Zimbabwe, 4. Independent Consultant, Mathematician and Statistics, Harare, Zimbabwe, 5. Clinton Health Access Initiative, HIV Access, Boston, United States

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## Background

bidirectional There is а connection HIV between infection and inadequate nutrition, and this leads to increased impaired immune function and susceptibility to opportunistic infections (Ols) in people with HIV advanced disease (AHD). AHD clients are more susceptible to HIVmorbidity related and mortality when experiencing inadequate nutrition. The objective of the study was to assess the nutritional status of clients with AHD using pre-existing patient data in electronic Patient the Management System (ePMS) from all OI/ART Zimbabwe clinics in to inform nutrition interventions.

# Methods

secondary The data analysis utilized pre-existing data from the Ministry of Child Care Health and ePMS dataset between the 3<sup>rd</sup> quarter of 2014 until mid 2022. Proxy WHO standard clinical indicators captured by a clinician for assessing nutrition status among AHD clients and all people living HIV (PLHIV) were with used. These included, "Wasting Syndrome (WS)", "Weight loss >10% (WL)," and "Failure to Thrive (FT)". Body mass index (BMI) was not calculated due to data availability. Descriptive statistics were performed, and a logistic regression assessed sociodemographic factors associated with HIVrelated "WS," "WL," and

## Results

bidirectional There is а connection between HIV infection and inadequate nutrition, and this leads to increased impaired immune function and susceptibility to opportunistic infections (OIs) in people with advanced HIV disease (AHD). AHD clients are more susceptible to HIVrelated morbidity and mortality when experiencing inadequate nutrition. The objective of the study was to assess the nutritional status of clients with AHD using pre-existing patient data in Patient electronic the Management System (ePMS) from all OI/ART Zimbabwe to clinics in nutrition inform interventions.

## Conclusions

This assessment provided critical data on the burden of malnutrition among PLHIV, and specifically, AHD clients Zimbabwe. Routine in nutrition analysis from client records can help inform the design of nutrition interventions. There is need to prioritize regular nutrition assessments such as BMI and nutrition interventions as part of the package of care for clients with AHD to morbidity improve and mortality outcomes. The potential MMT is а intervention solution.

#### Keywords

Advanced HIV disease, AIDS, malnutrition, nutrition assessment, Menu Modelling.

"FT" among AHD clients. We also developed a Menu Modelling Tool (MMT) an e/online tool for nutrition education among AHD clients.

#### Acknowledgements

We acknowledge the support and contributions of all those that participated in the project across all the different stages. This work has been funded by Unitaid with support from CHAI through the Unitaid-CHAI Optimal project.











**IAS** 2023 23 – 26 July



Presented at IAS 2023, the 12th IAS Conference on HIV Science