

# Micronutrient Deficiency among HIV-Positive People More Common in Selected Rural Districts of South Africa's Eastern Cape Province

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## Introduction

Micronutrient deficiencies are prevalent among people living with HIV (PLWH) and can have detrimental effects on their health and disease progression. This article focuses on the prevalence and impact of micronutrient deficiencies among HIV-positive individuals in selected rural districts of South Africa's Eastern Cape Province. It explores the factors contributing to micronutrient deficiencies, the consequences for PLWH, and the potential strategies to address these deficiencies. Understanding and addressing micronutrient deficiencies is crucial for optimizing the health and well-being of HIV-positive individuals in resource-limited settings. Nutrition education and counselling programs can empower PLWH to make informed dietary choices and improve their nutritional status. This section discusses the importance of providing tailored nutrition interventions to address micronutrient deficiencies. Co-occurring infections, such as tuberculosis, and comorbidities, such as chronic diseases, can further exacerbate micronutrient deficiencies among PLWH. This section examines the interplay between these factors and micronutrient status. Micronutrients, including vitamins and minerals, play a critical role in maintaining immune function and overall health. HIV infection and associated factors contribute to an increased risk of micronutrient deficiencies among PLWH. This section introduces the topic and emphasizes the importance of studying micronutrient deficiencies in the context of HIV in rural districts of South Africa's Eastern Cape Province [1,2].

## Description

Micronutrient deficiencies commonly observed among PLWH include deficiencies in vitamins D, B12, and A, as well as minerals such as zinc and selenium. This section discusses the prevalence of these deficiencies in the selected rural districts of South Africa's Eastern Cape Province [3-5]. Multiple factors contribute to micronutrient deficiencies among PLWH, including poor dietary intake, malabsorption, medication interactions, and increased nutrient requirements. This section explores these factors and their implications for micronutrient status among HIV-positive individuals in the Eastern Cape Province. Food-based approaches, such as promoting locally available nutrient-rich foods and agricultural interventions, can help address micronutrient deficiencies. Supplementation may also be necessary in certain cases. This section explores these approaches and their potential impact on improving micronutrient status.

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Micronutrient deficiencies have been associated with increased disease progression, higher viral loads, and increased mortality among PLWH. This section explores the link between micronutrient deficiencies and adverse health outcomes in HIV-positive individuals. Micronutrient deficiencies can compromise immune function, impairing the body's ability to fight infections and increasing the risk of opportunistic infections. This section discusses the consequences of micronutrient deficiencies on immune function in PLWH [6].

## Conclusion

Micronutrient deficiencies among HIV-positive individuals in selected rural districts of South Africa's Eastern Cape Province pose significant challenges to their health and well-being. The complex interplay of socioeconomic factors, co-occurring infections, and limited access to nutritious foods contributes to these deficiencies. By implementing comprehensive strategies that encompass nutrition education, food-based approaches, and collaboration across sectors, healthcare providers and policymakers can improve the nutritional status and overall health outcomes of PLWH in resource-limited settings. Collaboration among healthcare providers, policymakers, and community organizations is essential for implementing effective interventions to address micronutrient deficiencies. Integration of nutrition services within HIV care and treatment programs can help ensure comprehensive care for PLWH. This section emphasizes the importance of collaboration and integration in addressing micronutrient deficiencies. Food insecurity and limited access to nutritious foods are significant challenges faced by individuals living in rural districts of South Africa's Eastern Cape Province. This section discusses the impact of socioeconomic factors on micronutrient deficiencies in this context.

## Acknowledgement

None.

## Conflict of Interest

None.

## References

- Galani, Y. J. H., C. Orfila and Y. Y. Gong. "A review of micronutrient deficiencies and analysis of maize contribution to nutrient requirements of women and children in Eastern and Southern Africa." *Crit Rev Food Sci Nutr* 62 (2022): 1568-1591.
- Eshetu, Amare, Aster Tsegaye and Beyene Petros. "Selected micronutrient levels and response to Highly Active Antiretroviral Therapy (HAART) among HIV/AIDS patients attending a teaching Hospital in Addis Ababa, Ethiopia." *Biol Trace Elem Res* 162 (2014): 106-112.
- Thapa, Rajshree, Archana Amatya, Durga Prasad Pahari and Kiran Bam, et al. "Nutritional status and its association with quality of life among people living with HIV attending public anti-retroviral therapy sites of Kathmandu Valley, Nepal." *AIDS Res Ther* 12 (2015): 1-10.
- Hailemariam, Solomon, Girma Tenkolu Bune and Henok Tadesse Ayele.

- "Malnutrition: Prevalence and its associated factors in People living with HIV/AIDS, in Dilla University Referral Hospital." *Arch Public Health* 71 (2013): 1-11.
5. Van Tonder, Esmarie, Lynn Gardner, Saskia Cressey and Reinette Tydeman-Edwards, et al. "Adult malnutrition: Prevalence and use of nutrition-related quality indicators in South African public-sector hospitals." *South Afr J Clin Nutr* 32 (2019): 1-7.
6. Mchiza, Zandile J., Nelia P. Steyn, Jillian Hill and Annamarie Kruger, et al. "A review of dietary surveys in the adult South African population from 2000 to 2015." *Nutrients* 7 (2015): 8227-8250.

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