# **Research Article**

**Open Access** 

# Keywords:

### Introduction

Citation: Alem M, Kena T, Baye N, Ahmed R, Tilahun S (2013) Prevalence of Anemia and Associated Risk Factors among Adult HIV Patients at the Anti-Retroviral Therapy Clinic at the University of Gondar Hospital, Gondar, Northwest Ethiopia. 2: 662 doi:10.4172/scientif.creports.662

## Page 3 of 5

# Discussion

 $\begin{array}{c} \begin{array}{c} & & \\ & & \\ \end{array} \end{array} \hspace{0.5cm} \begin{array}{c} & & \\ \end{array} \hspace{0} \hspace{0} \end{array} \hspace{0} \end{array} \hspace{0} \hspace{0} \end{array} \hspace{0} \end{array} \hspace{0} \end{array} \hspace{0} \hspace{0} \end{array} \hspace{0} \end{array} \hspace{0} \end{array} \hspace{0} \hspace{0} \end{array} \hspace{0} \end{array} \hspace{0} \hspace{0} \end{array} \hspace{0} \end{array} \hspace{0} \end{array} \hspace{0} \hspace{0} \end{array} \hspace{0} \end{array} \hspace{0} \hspace{0} \end{array} \hspace{0} \hspace{0} \end{array} \hspace{0} \hspace{0} \end{array} \hspace{0} \end{array} \hspace{0} \hspace{0} \hspace{0} \end{array} \hspace{0} \hspace{0} \end{array} \hspace{0} \end{array} \hspace{0} \hspace{0} \hspace{0} \end{array} \hspace{0} \end{array} \hspace{0} \hspace{0} \end{array} \hspace{0} \hspace{0} \end{array} \hspace{0} \hspace{0} \end{array} \hspace{0} \end{array} \hspace{0} \hspace{0} \end{array} \hspace{0} \end{array} \hspace{0} \hspace{0} \hspace{0} \end{array} \hspace{0} \hspace \hspace{0} \end{array} \hspace{0} \end{array} \hspace{0} \hspace{0} \end{array} \hspace{0} \hspace{0} \end{array} \hspace{0} \hspace{0} \hspace{0} \end{array} \hspace{0} \hspace{0} \end{array} \hspace{0} \end{array} \hspace{0} \hspace{0} \hspace{0} \end{array} \hspace{0} \hspace{0} \end{array} \hspace{0} \end{array} \hspace{0} \hspace{0} \hspace{0} \end{array} \hspace{0} \end{array} \hspace{0} \hspace{0} \end{array} \hspace{0} \end{array} \hspace{0} \hspace{0} \end{array} \hspace{0} \end{array} \hspace{0} \end{array} \hspace{0} \hspace{0} \end{array} \hspace{0} \hspace{0} \end{array} \hspace{0} \hspace{0} \end{array} \hspace{0} \end{array} \hspace{0} \hspace{0} \end{array} \hspace{0} \hspace{0} \end{array} \hspace{0} \end{array} \hspace{0} \hspace{0} \end{array} \hspace{0} \hspace{0} \end{array} \hspace{0} \end{array} \hspace{0} \end{array} \hspace{0} \hspace{0} \end{array} \hspace{0}$ 

 Citation: Alem M, Kena T, Baye N, Ahmed R, Tilahun S (2013) Prevalence of Anemia and Associated Risk Factors among Adult HIV Patients at the Anti-Retroviral Therapy Clinic at the University of Gondar Hospital, Gondar, Northwest Ethiopia. 2: 662 doi:10.4172/scientifcreports.662

# Conclusion

4. · · · 1.1.1 · 11 . . 1 1 1 ••, •10 - 17 1. 1. 1 · · · · · · · · · , , .,. '., • ..... , . . · , .Y 1 11 . . . . . .

### Acknowledgement

We are very grateful for school of Biomedical and Laboratory Sciences and we pass our sincere appreciation to ART clinic staff of Gondar University hospital.

#### References

1. Perkocha LA, Rodgers GM (1988) Hematologic aspects of human

immunodef ciency virus infection: laboratory and clinical considerations. Am J Hematol 29: 94-105.

- 2. Evans RH, Scadden DT (2000) Haematological aspects of HIV infection. Baillieres Best Pract Res Clin Haematol 13: 215-230.
- Mukaya JE, Ddungu H, Ssali F, O'Shea T, Crowther MA (2009) Prevalence and morphological types of anaemia and hookworm infestation in the medical emergency ward, Mulago Hospital, Uganda. S Afr Med J 99: 881-886.
- 4. Kreuzer KA, Rockstroh JK (1997 ( A

Citation: Alem M, Kena T, Baye N, Ahmed R, Tilahun S (2013) Prevalence of Anemia and Associated Risk Factors among Adult HIV Patients at the Anti-Retroviral Therapy Clinic at the University of Gondar Hospital, Gondar, Northwest Ethiopia. 2: 662 doi:10.4172/scientifcreports.662

Page 5 of 5

HIV treatment-naïve infected patients: a cross-sectional analytical study. BMC Res Notes 3: 230.

- Mlisana K, Auld SC, Grobler A, van Loggerenberg F, Williamson C, et al. (2008) Anaemia in Acute HIV-1 Subtype C Infection. PLoS ONE 3: e1626.
- 9. Volberding P (2002) The impact of anemia on quality of life in human immunodefciency virus-infected patients. J Infect Dis 185: S110–S114.
- Zon L, Arkin C, Groopman JE (1988) Hematologic manifestations of the human immunodef ciency virus (HIV). Semin Hematol 25: 208-219.
- Mocroft A, Kirk O, Barton SE, Dietrich M, Proenca R, et al. (1999) Anaemia is an independent predictive marker for clinical prognosis in HIV-infected patients from across Europe. EuroSIDA study group. AIDS 13: 943-950.
- van der Werf MJ, van Benthem BH, van Ameijden EJ (2000) Prevalence, incidence and risk factors of anaemia in HIV-positive and HIV-negative drug users. Addiction 95: 383-392.
- Sullivan PS, Hanson DL, Chu SY, Jones JL, Ward JW (1998) Epidemiology of anemia in human immunodefciency virus (HIV)-infected persons: results from the multistate adult and adolescent spectrum of HIV disease surveillance project. Blood 91: 301-308.
- Dikshit B, Wanchu A, Sachdeva RK, Sharma A, Das R (2009) Profile of hematological abnormalities of Indian HIV infected individuals. BMC Blood Disor 9: 5.

15.