

HAI SNAKEBITE PROGRAMME – ZAMBIA



ABOUT SNAKEBITE ENVENOMING

- Conservative global estimates show that snakebite envenoming kills 81,000–138,000 people every year and permanently disables 400,000 more.^{1 2}
- In sub-Saharan Africa, alone, snakebite is estimated to cause about 32,000 deaths and 6,000 amputations a year.
- The economic burden from snakebite envenoming in sub-Saharan Africa is under-researched and largely unknown; however, a socio-economic analysis of snakebite in Sri Lanka found that, annually, snakebite costs the government over \$10 million—and victims \$4 million, despite free healthcare in the country.³

- Women and children comprise between 30–45% of snakebite cases, and workers in impoverished, rural areas are most at risk.^{4 5}
- The World Health Organization (WHO) and its Member States have started prioritising snakebite envenoming. The WHO added snakebite to its high-priority ('Category A') list of neglected tropical diseases in 2017; the 71st World Health Assembly adopted a Resolution on Snakebite Envenoming in 2018.

KEY ISSUES IN ZAMBIA & OTHER AREAS OF SUB-SAHARAN AFRICA

- **Under-reporting:** Up to 70% of snakebite cases go unreported in sub-Saharan Africa⁶.
- **Traditional healers:** Many snakebite victims continue to seek treatment from traditional

healers in sub-Saharan Africa. For example, at least 68% of snakebite victims in Kenya still seek initial treatment from traditional healers⁷; however, these treatments are not proven to work, can worsen snakebite injuries, and waste precious time for a victim to receive timely medical care.

- **Antivenom:** Quality antivenoms can make the difference between life and death, but there are serious shortages. Some antivenoms are not validated, safe, effective, or affordable. And poor access to healthcare services, limited transportation infrastructure, poverty, and cultural barriers also reduce treatment access in rural areas.
- **Survivors:** Many snakebite envenoming victims who survive are left with a permanent disability, such as a limb amputation and blindness. Survivors are also often plunged further into debt—even destitution—because of high treatment costs and the inability to work any longer.
- **Healthcare workers:** Most healthcare professionals in Zambia are not properly trained to treat snakebite.

THE HAI SNAKEBITE PROGRAMME

Health Action International's (HAI) Snakebite Programme operates in Zambia in collaboration with the Global Snakebite Initiative and Mr Liyoka Liyoka.

Programme Activities

- **Building a snakebite evidence base:** We are gathering much-needed data from healthcare facilities and communities on snakebite cases and antivenom treatment.
- **Conducting evidence-based advocacy:** We are recruiting and building the capacity of champions to review and use our data to call for policy changes by national stakeholders, including the Ministry of Health.
- **Increasing community education:** We are providing communities with information and tools to learn how to prevent snakebite and provide effective first-aid and treatment for it.

HAI is also contextualising and implementing this Programme in Uganda and Kenya.

Programme Goals

- **Empowered communities:** Communities across Zambia independently reduce the number of snakebite cases through awareness and education tools.
- **Mandatory snakebite reporting:** Government authorities make snakebite a notifiable or reportable disease by law.
- **Treatment available for all:** Zambian health authorities take steps to ensure antivenom is provided to everyone, and is validated, safe, effective, and affordable.
- **Effective healthcare interventions:** Evidence from our Programme encourages proper training of healthcare workers, including tools for rehabilitation and disability services.

WHO WE ARE

- **Health Action International (HAI)** is an independent non-profit organisation. Using research and advocacy, we advance policies that enable access to medicines and rational medicine use.
- **Global Snakebite Initiative (GSI)** is a non-profit organisation of experts created to give voice to the forgotten victims of snakebite. HAI is the secretariat for GSI.
- **Mr Liyoka Liyoka** is the National Coordinator of the HAI Snakebite Programme in Zambia.

FOR MORE INFORMATION

Ben Waldmann
Snakebite Programme Manager
Health Action International
E: ben@haiweb.org

Sophie von Bernus
Snakebite Programme Coordinator
Health Action International
E: sophie@haiweb.org

T: +31 (0) 20 412 4523
W: www.haiweb.org

ENDNOTES

¹ Kasturiratne, A., Wickremasinghe, A.R., de Silva, N., et al, 2008. The Global Burden of Snakebite: A Literature Analysis and Modelling Based on Regional Estimates of Envenoming and Deaths. *PLoS Medicine*, 5(11): e218. doi: [org/10.1371/journal.pmed.0050218](https://doi.org/10.1371/journal.pmed.0050218).

² Gutiérrez, J.M., Burnouf, T., Harrison, R.A., et al, 2014. A multicomponent strategy to improve the availability of antivenom for treating snakebite envenoming. *Bulletin of the World Health Organization*, 92(7):526-532. doi:10.2471/BLT.13.132431.

³ Kasturiratne A, Pathmeswaran A,, Wickremasinghe AR, et al, The socio-economic burden of snakebite in Sri Lanka. *PLoS Negl Trop Dis*. 2017; 11(7): p 6–11.

⁴ José MG, Juan J, Abdulrazaq G, et al. (2017) Snakebite envenoming. *Nature Reviews Disease Primers*; Vol 3, p 17064.

⁵ www.who.int/snakebites/epidemiology/en

⁶ www.who.int/snakebites/epidemiology/en

⁷ Harrison, R.A., et al., Snake envenoming: a disease of poverty. *PLoS Negl Trop Dis*, 2009. 3(12): p. e569.