

Chagas disease

Chagas disease, also known as American trypanosomiasis, is a potentially life-threatening illness caused by the protozoan parasite *Trypanosoma cruzi*¹.

The disease affects approximately 6 million people¹, mainly in Latin America. Less than 1% of affected individuals receive proper treatment², and current available drugs have high rates of adverse effects and do not meet the need for the entire spectrum of the disease. Chagas disease usually begins with a bite by the triatomine bug, also known as the “kissing bug” because it usually bites people’s faces when they sleep. Often people are infected without even noticing it.



The disease sits at the crossroads between two worlds: it starts as a tropical parasitic disease but can end as a chronic disease. This is why preventing, treating and managing Chagas disease requires an integrated, end-to-end approach that covers both the acute and chronic phases.

Improving health outcomes for Chagas patients also requires being active on three fronts: novel drug discovery, clinical development, and healthcare system strengthening.

Together with strong partners, our [Biomedical Research teams focused on Global Health](#) are discovering novel parasite-specific growth inhibitors for the treatment of Chagas disease and other kinetoplastid diseases.

During the chronic phase, when the disease evolves, it can affect key organs as the heart, leading to cardiac disorders in up to 30% of patients and up to 10% may develop neurological and/or gastrointestinal disorders. Chagas cardiomyopathy accounts for the majority of death and disability among individuals affected by the disease. Against this background, in 2019, in collaboration with the Brazilian Clinical Research Institute, Novartis launched the first clinical study in people with heart failure due to chronic Chagas cardiomyopathy to assess an innovative therapy in this underserved patient population. This Phase IV trial also includes sub-studies that may help better understand the underlying pathophysiology of Chagas cardiomyopathy (biomarkers, arrhythmia burden, and use of magnetic resonance imaging to evaluate cardiac structure, function and fibrosis).

Further, we are working with health authorities and stakeholders in Latin America on healthcare system strengthening initiatives to improve health outcomes and access to innovation. For example, Novartis signed a collaboration agreement with IS Global to improve the well-being of Chagas patients in Bolivia. Aiming for long-term sustainability, local empowerment and impact, the interventions are implemented in phases hand-in-hand with Bolivian and regional stakeholders. In 2022, we were involved in a capability-building program, reaching more than 200 healthcare professionals. We are also collaborating with the Global Chagas Disease Coalition to develop an online medical platform for Chagas disease, which aims to build capability among healthcare professionals to adopt an integrated disease management approach.

We supported the World Heart Federation (WHF) and the Inter-American Society of Cardiology in developing an [end-to-end roadmap for Chagas disease](#), published in 2020. It explores the patient journey from diagnosis to treatment, and provides actionable recommendations for policymakers and healthcare professionals. In 2022, under a research collaboration with the WHF and the Federal University of Minas Gerais in Brazil, we kicked off the RAISE study (The buRden of ChAgas dISEase in the contemporary world) to assess the health and economic burden of Chagas disease globally.

In 2019, Novartis joined the [Global Chagas Disease Coalition](#), an alliance to increase disease awareness and foster synergies in controlling the disease and promoting access to diagnosis and treatment.

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[Download Chagas Disease factsheet](#)

[Read the photo story Chagas Disease: Bringing Chagas disease to people's attention](#)

[Read the photo story Chagas Disease: Breaking the silence](#)

Reimagining the fight against Chagas disease

Together with partners, Novartis is committed to reimagining the fight against Chagas disease and advocating for an integrated, end-to-end care approach.

[Learn More](#)

References:

1. World Health Organization: [https://www.who.int/en/news-room/fact-sheets/detail/chagas-disease-\(american-trypanosomiasis\)](https://www.who.int/en/news-room/fact-sheets/detail/chagas-disease-(american-trypanosomiasis))
2. Barcelona Institute for Global Health: <https://www.isglobal.org/en/enfermedad-de-chagas>

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