Maladie de Chagas,

de l'Organisation mondiale de la Santé - OMS



Contrôle, élimination, éradication : où en est-on dans les MTN ?

Journée scientifique dématérialisée de la SFMTSI (ex SPE)

Jeudi 25 novembre 2021

Sur inscription uniquement
Visio conférence

une maladie tropicale négligée typique...



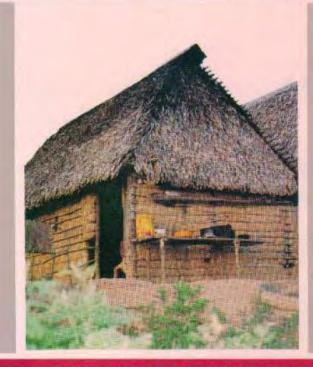
7 common features of NTDs (2005)

proxy for poverty and disadvantage	A proxy for poverty and disadvantage		
eglected tropical diseases have an enormous impact on individuals, families and communities developing countries in terms of disease burden, quality of life, loss of productivity and the aggravation of poverty as well as the high cost of long-term care. They constitute a serious obstacle a socioeconomic development and quality of life at all levels.			
Affect populations with low visibility and little political voice	Affect populations with low		
his group of diseases largely affects low-income and politically marginalized people living in rural and urban areas. Such people cannot readily influence administrative and governmental decisions nat affect their health, and often seem to have no constituency that speaks on their behalf. Diseases ssociated with rural poverty may have little impact on decision-makers in capital cities and their expanding populations.	visibility and little political voice		
Do not travel widely	Do not travel widely		
Unlike influenza, HIV/AIDS and malaria and, to a lesser extent, tuberculosis, most NTDs generally do not spread widely, and so present little threat to the inhabitants of high-income countries. Rather, their distribution is restricted by climate and its effect on the distribution of vectors and reservoir nosts; in most cases, there appears to be a low risk of transmission beyond the tropics.			
Cause stigma and discrimination, especially of girls and women	Cause stigma and discrimination,		
Many NTDs cause disfigurement and disability, leading to stigma and social discrimination. In some cases, their impact disproportionately affects girls and women, whose marriage prospects may diminish or who may be left vulnerable to abuse and abandonment. Some NTDs contribute to	especially of girls and women		
adverse pregnancy outcomes.	→ Have an important impact		
lave an important impact on morbidity and mortality	· · · · · · · · · · · · · · · · · · ·		
The once-widespread assumptions held by the international community that people at risk of NTDs experience relatively little morbidity, and that these diseases have low rates of mortality, have been comprehensively refuted. A large body of evidence, published in peer-reviewed medical and cientific journals, has demonstrated the nature and extent of the adverse effects of NTDs.	on morbidity and mortality		
Are relatively neglected by research	 Are relatively neglected by research 		
Research is needed to develop new diagnostics and medicines, and to make accessible interventions operevent, cure and manage the complications of all NTDs.			
Can be controlled, prevented and possibly eliminated using effective and feasible solutions	Can be controlled, prevented and		
The five strategic interventions recommended by WHO (preventive chemotherapy; intensified case- nanagement; vector control; the provision of safe water, sanitation and hygiene; and veterinary sublic health) make feasible control, prevention and even elimination of several NTDs. Costs are elatively low.	possibly eliminated using effective and feasible solutions		

Ethical duty

Roberto Briceño-León

LA CASA ENFERMA



Fondo Editorial Acta Científica de Venezuela y Consorcio de Ediciones Capriles La Casa Enferma: Sociología de la Enfermedad de Chagas. Roberto Briceño-León. Fondo Editorial Acta Científica de Venezuela y Consorcio de Ediciones Capriles C. A.: Caracas, Venezuela, 1990. 149 p., figuras, tabelas e bibliografia. (Brochura) ISBN 980-6201-08-6

1990s (in 15 years)

- Fight against vectorial transmission
- With the AIDS pandemic, blood/blood products screening for Chagas disease

2005-2020 (in 15 years)

- Neglected Tropical Diseases
- Production and access to antiparasitic medicines
- WHO List of essential medicines
- WHO Partners
- Chagas disease in the world
- Technical Groups (5)
- Patients care at the same level of vectorial control, transfusional control...
- Patients associations, Findechagas, IAPO...
- IEC and the last Technical Group 6
- World Chagas disease Day
- WHO List of essential diagnostics
- 2021-2030 Road map

World Health Organization

The hidden Chagas disease burden in Europe

P Albajar-Viñas (albajarvinasp@who.int)1, J Jannin1

1. World Health Organization (WHO), Department of Control of Neglected Tropical Diseases, WHO, Geneva, Switzerland

Citation style for this Albajar-Viñas P, Jannii Euro Surveill. 2011;16

SURVEILLANCE AND OUTBREAK REPORTS

Chagas disease in Italy: breaking an epidemiological silence

Chagas disease countries outsit vectorial transr to light since t of the disease i population mob century, Chaga endemic countries

A Angheben (andrea.angheben@sacrocuore.it)^{1,2}, M Anselmi^{1,2}, F Gobbi^{1,2}, S Marocco¹, G Monteiro¹, D Buonfrate^{1,2}, S Tais³, M Talamo⁴, G Zavarise⁵, M Strohmeyer^{6,2}, F Bartalesi⁶, A Mantella⁶, M Di Tommaso⁷, K H Aiello⁷, G Veneruso⁸, G Graziani⁹, M M Ferrari¹⁰, I Spreafico¹⁰, E Bonifacio¹¹, G Gaiera¹², M Lanzafame¹³, M Mascarello¹³, G Cancrini¹⁴, P Albajar-Viñas¹⁵, Z Bisoffi^{1,2}, A Bartoloni^{6,2}

- Centre for Trage
 COHEMI project
- 3. Service of Ep
- 4. Infectious Di
- 5. Paediatric Di
- 6. Infectious an
- Obstetric and
 Infectious Di
- 9. Immunohaen
- 10. Obstetrics ar
- 11. Obstetrics ar
- 12. Infectious Di
- 13. Infectious Di 14. Public Health
- 15. WHO Program Organization

Citation style for this Angheben A, Anselm

KH, Veneruso G, Graz

disease in Italy: brea Euro Surveill. 2011;10

SURVEILLANCE AND OUTBREAK REPORTS

Chagas disease in European countries: the challenge of a surveillance system

L Basile¹, J M Jansà², Y Carlier³, D D Salamanca⁴, A Angheben⁵, A Bartoloni⁶, J Seixas⁷, T Van Gool⁸, C Cañavate⁹, M Flores-Chávez⁹, Y Jackson¹⁰, P L Chiodini¹¹, P Albajar-Viñas (albajarvinasp@who.int)¹², Working Group on Chagas Disease¹³

- 1. Department of Health, Generalitat of Catalonia, Barcelona, Spain
- 2. Directorate General of Public Health and Foreign Healthcare, Ministry of Health, Social Affairs and Equality, Madrid, Spain
- 3. Faculty of Medicine, Free University of Bruxelles, Brussels, Belgium
- 4. French Institute for Public Health Surveillance (Institut de Veille Sanitaire, InVS), Saint Maurice, France
- 5. Centre for Tropical Diseases, COHEMI network, Hospital S. Cuore, Don Calabria, Negrar, Verona, Italy
- 6. University Hospital Centre Careggi, COHEMI network, Firenze, Italy
- 7. Clinical unit of Tropical Diseases, Institute of Hygiene and Tropical Medicine, New University of Lisbon, Lisbon, Portugal
- 8. Department of Medical Microbiology, University of Amsterdam, Amsterdam, the Netherlands
- 9. National Centre of Microbiology, Instituto de Salud Carlos III, Madrid, Spain
- 10. Division of primary care medicine, Geneva University Hospitals and University of Geneva, Geneva, Switzerland
- 11. Hospital for Tropical Diseases, London, United Kingdom

Diagnosed cases, observed and expected prevalence rates and percentage of underdiagnosis of Chagas disease in migrants from endemic areas residing in nine studied European countries, up to 2009

Country	Cases diagnosed	Observed prevalence rate (%)	Expected prevalence rate (min-max, %)	Index of underdiagnosis (min-max, %)
Belgium	19	0.043	1,6-2.1	97.2-97.9
France	111	0.066	1.3-1.7	94.8-96.1
Germany	2	0.002	1.3-1.7	99.8-99.9
Italy	114	0.03	1.7-3.1	98.3-99.0
The Netherlands	7	0.003	0.4-0.7	99.3-99.6
Portugal	8	0.007	1	99.4
Spain	3,821	0.218	2.7-4.9	92.0-95.6
Switzerland	180	0.223	2-4.8	89.2-95.2
United Kingdom	28	0.006	1.3-2.4	99.6-99.7
Total	4,290	0.13	2-3.6	93.9-96.4

L Basile¹, J M Jansà², Y Carlier³, D D Salamanca⁴, A Angheben⁵, A Bartoloni⁶, J Seixas⁷, T Van Gool⁸, C Cañavate⁹, M Flores-Chávez⁹, Y Jackson¹⁰, P L Chiodini¹¹, P Albajar-Viñas (albajarvinasp@who.int)¹², Working Group on Chagas Disease¹³

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Volume 28, Issue 1 January 2021

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Authors Contributions

Funding

Conflicts of Interest

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Ongoing mother-to-child transmission of Chagas disease in Italy: 2014–18 estimates

Lorenzo Zammarchi, MD , Andrea Angheben, MD, Luisa Galli, MD, Carlo Dani, MD, Mariarosaria Di Tommaso, PhD, Felice Petraglia, MD, Filomena Bruna Aliani, MD, Michele Trotta, MD, Michele Spinicci, MD, Pedro Albajar Viñas, MD ... Show more

Journal of Travel Medicine, Volume 28, Issue 1, January 2021, taaa201, https://doi.org/10.1093/jtm/taaa201

Published: 22 October 2020 Article history v

66 Cite Permissions Share v

Keywords: Trypanosomiasis, pregnancy, migrants, congenital, neonates, *Trypanosoma cruzi*

Issue Section: Letter to the Editor

We read with interest the systematic review and meta-analysis by Colombo V on Chagas disease (CD) in pregnancy. Mother-to-child transmission (MTCT), mostly congenital, is currently the second more common route of transmission for CD worldwide, accounting for 22.5% of the 38 593 incident cases per year in continental Latin America (LA). Outside LA, where the transmission by insect vectors does not occur and screening of blood donors and transplant donors and recipients have been implemented, MTCT is the first route of transmission hampering the elimination of the disease. In the USA, among 63 and 315 congenital infections per year are...

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Guggenbühl Noller et al. BMC Infectious Diseases https://doi.org/10.1186/s12879-020-05600-8 (2020) 20:919

BMC Infectious Diseases

RESEARCH ARTICLE

Open Access

Describing nearly two decades of Chagas disease in Germany and the lessons learned: a retrospective study on screening, detection, diagnosis, and treatment of *Trypanosoma cruzi* infection from 2000 – 2018



Jessica Michelle Guggenbühl Noller^{1,2†}, Guenter Froeschl^{1,2*†}, Philip Eisermann³, Johannes Jochum⁴, Stefanie Theuring⁵, Ingrid Reiter-Owona⁶, Alfred Lennart Bissinger⁷, Michael Hoelscher^{1,8}, Abhishek Bakuli¹, Franz-Josef Falkner von Sonnenburg¹, Camilla Rothe¹, Gisela Bretzel¹, Pedro Albajar-Viñas⁹, Lise Grout⁹ and Michael Pritsch¹

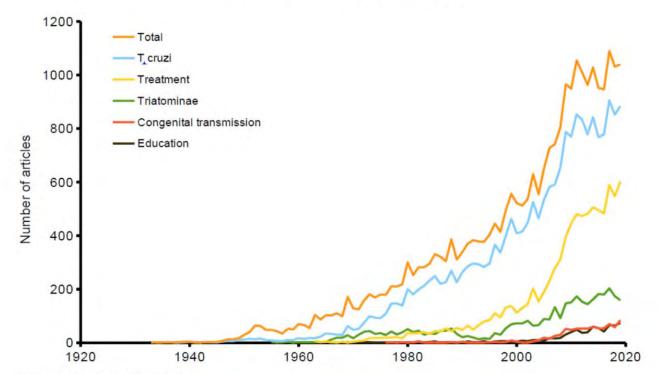
Abstract

Background: The highly complex and largely neglected Chagas disease (CD) has become a global health problem due to population movements between Latin America and non-endemic countries, as well as non-vectorial transmission routes. Data on CD testing and treatment from routine patient care in Germany of almost two decades was collected and analysed.

Methods: German laboratories offering diagnostics for chronic *Trypanosoma cruzi (T. cruzi*) infection in routine patient care were identified. All retrievable data on tests performed during the years of 2000–2018 were analysed. Additional clinical information regarding patients diagnosed with CD was collected through guestionnaires.

(Continued on next page)

Number of scientific articles published on main aspects of Chagas disease (1920-2020) Search carried out in Scopus in March 2020



Categories are not mutually exclusive

"Total" query: (TITLE-ABS-KEY(""chagas disease"" OR triatominae OR ""typanosoma cruzi""))

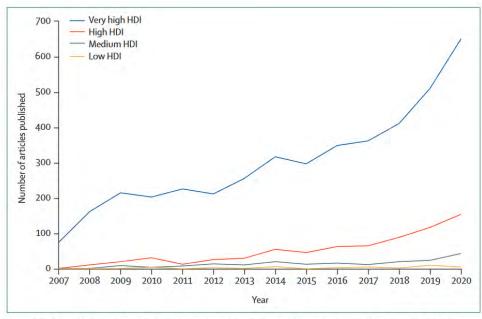


Figure 22: Scientific journal articles relating to health and climate change by 2019 HDI group of the main country of affiliation of the first author, 2007-20

The Lancet, October 20, 2021

Changement de scenarios?



[&]quot;T.cruzi" query: ((TITLE-ABS-KEY(""chagas disease"" OR triatominae OR ""trypanosoma cruzi"")) AND ("" trypanosoma cruzi ""))

[&]quot;Treatment" query: ((TITLE-ABS-KEY(""chagas disease"" OR triatominae OR ""trypanosoma cruzi"")) AND ("" treatment ""))

[&]quot;Triatominae" query: ((TITLE-ABS-KEY(""chagas disease"" OR triatominae OR ""trypanosoma cruzi"")) AND (""triatominae ""))

[&]quot;Congenital transmission" guery; ((TITLE-ABS-KEY(""chagas disease"" OR triatominae OR ""trypanosoma cruzi"")) AND (""congenital transmission ""))

[&]quot;Education" query: ((TITLE-ABS-KEY(""chagas disease"" OR triatominae OR ""trypanosoma cruzi"")) AND (""education""))





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Countries v

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WHO Model Lists of Essential Medicines

The WHO Model Lists of Essential Medicines has been updated every

WHO Model List of Essential Medicines

19th List

(April 2015)

(Amended November 2015)

Status of this document

This is a reprint of the text on the WHO Medicines website

http://www.who.int/medicines/publications/essentialmedicines/en/

es List (EML) MLc)



WHO Electronic EML

Short description: The eEML is a comprehensive, freely accessible, online database containing information on essential medicines.



WHO AWaRe

Short description: WHO framework based on three different categories – Access, WAtch and Reserve – which all together forms the AWaRe categorization of antibiotics.



WHO Global EML

Short description: Database of the essential medicines lists for 137 countries based on the World Health Organization's National Essential Medicines Lists Repository.



Funding for biomedical research across all health categories: Analysis of grants by major funders (May 2020)

Investments on grants for biomedical research by funder, type of grant, health category and recipient (World RePORT) https://www.who.int/research-observatory/monitoring/inputs/world-report grantamount/en/

WHO Global Observatory on Health R&D allows users to explore the distribution of funding for biomedical research. For example, data shows:

- > 3/4 of the total grants for biomedical research were awarded by the USA's National Institutes of Health (NIH).
- ➤ Almost 85% of all the grants were awarded to recipient organizations in the USA.
- ➤ Almost 2/3 of all the grants were awarded for noncommunicable diseases (NCDs); >25% of all investments in this area were for research relating to malignant neoplasms.
- Almost 85% of all grants awarded for communicable, maternal, perinatal and nutritional conditions were for research relating to infectious and parasitic diseases. Around 60% of this was for research relating to HIV (38%), malaria (13%) and tuberculosis (10%).
- > Only a tiny proportion of grants (approx. 1%) target a WHO neglected tropical diseases.

WHO Department of Information, Evidence and Research WHO Global Observatory on Health R&D

Health products in the pipeline from discovery to market launch for all diseases (https://www.who.int/research-observatory/monitoring/processes/health_products/en/) 11-Jul-19

New analysis shows for the first time a comprehensive overview of health products (medicines, vaccines and diagnostics that include an active pharmaceutical ingredient), from discovery to market launch for all indications, using the Springer Nature Adisinsight database.

The analysis of > 86 000 products currently tracked by this data source shows that:

- ✓ < 50% of these products are active
- ✓ Out of products that are active and in a clinical phase of development, far more are for noncommunicable diseases (87%) than for other disease categories
- ✓ Only a tiny proportion of active products target a WHO neglected tropical diseases (<0.5%) or a WHO R&D Blueprint pathogen (< 0.4%).



une maladie étroitement liée à des déterminants sociaux et environnementaux...

Colonization of Polynesia: DNA proves the thesis de Thor Heyerdahl

July 2020

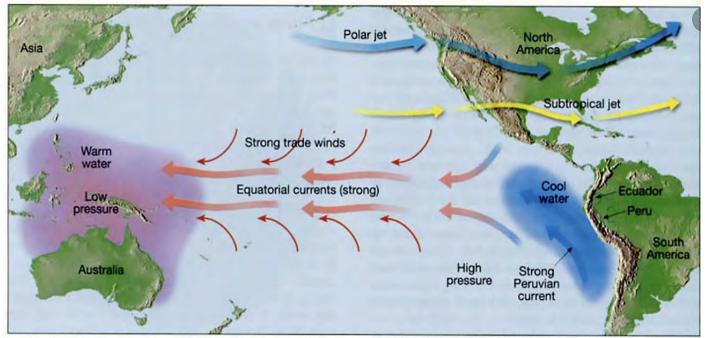
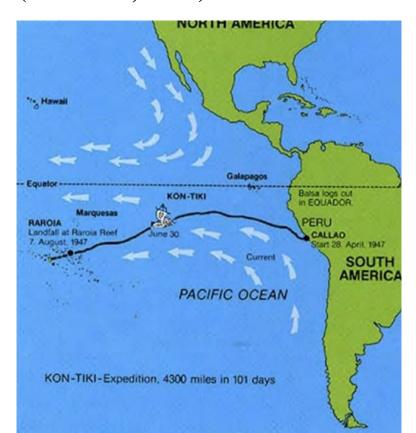
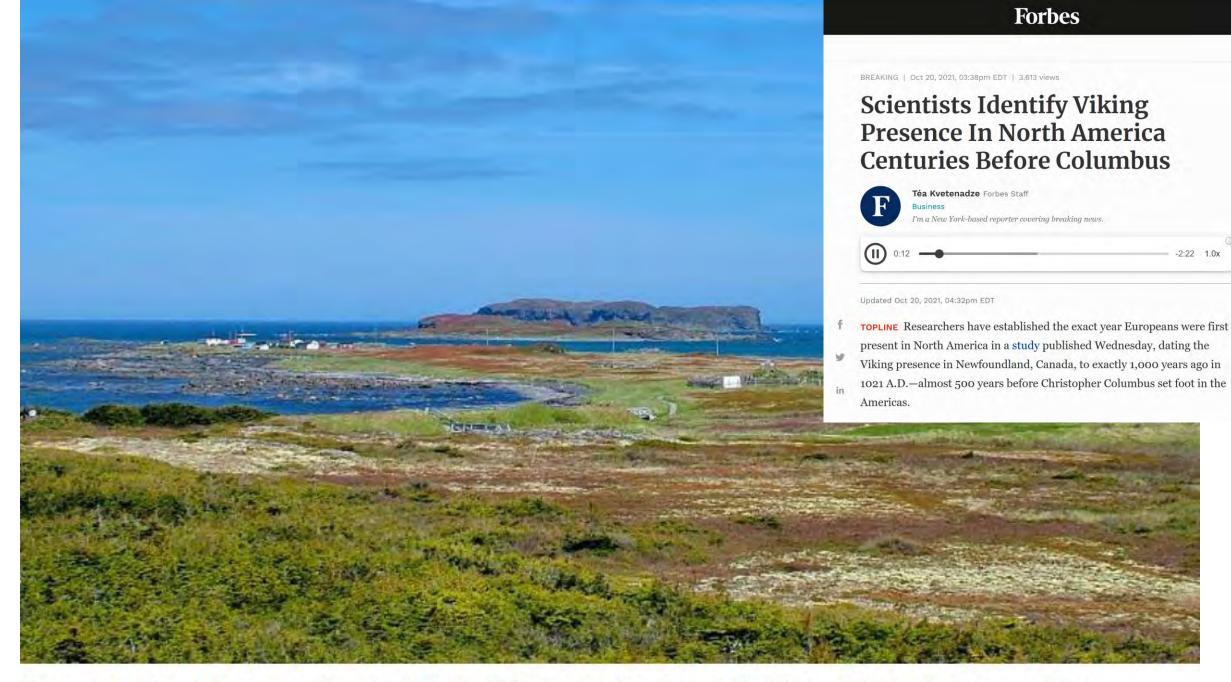


Fig.6 Normally, the trade winds and strong equatorial currents flow toward the west.

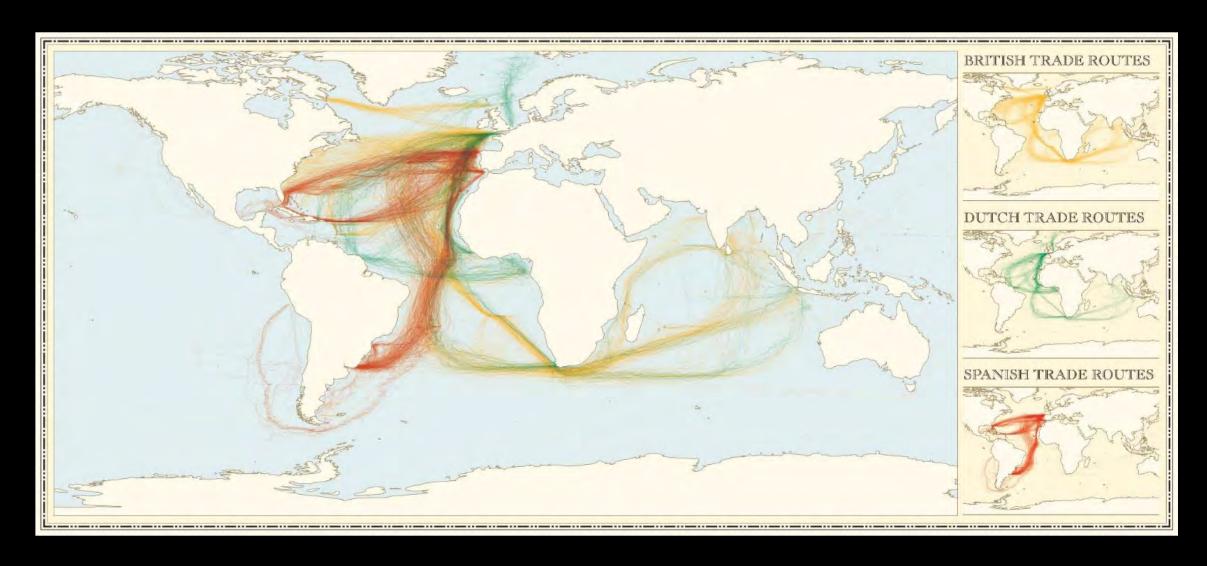
At the same time, an intense Peruvian current causes upwelling of cold water along the west coast of South America.







L'Anse aux Meadows, an archaeological site in Newfoundland, Canada where this study was conducted. - Bob



CDWO Sheshire J. 2014 Maritime Trade Routes



As the world population grows so does the number of internation migrants: there are three times more international migrants in 2015 than in 1970

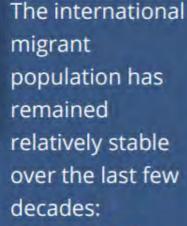
HEALTH OF MIGRANTS: RESETTING THE AGENDA

Report of the 2nd Global Consultation Colombo, Sri Lanka, 21–23 February 2017

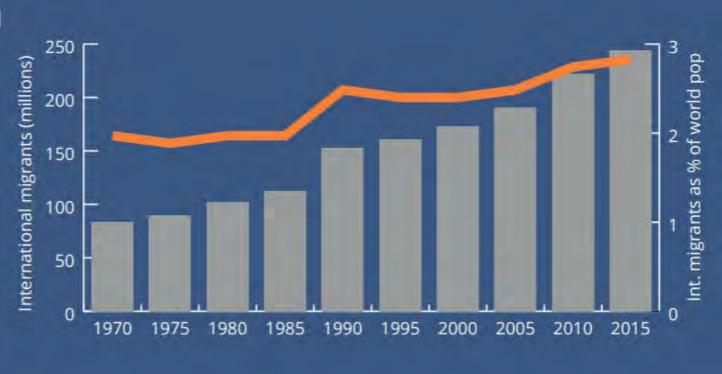


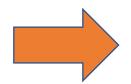






2.2 to 3.3 per cent of the world's population





WHO/EURO disputes the belief that immigrants transmit infectious diseases to the host population. January 25, 2019

1st Report on the health of refugees and migrants in the WHO European Region, published in collaboration with the Italian National Institute of Health, Migration and Poverty (INMP), and which summarizes the latest available evidence to from a review of >13,000 documents.

- ✓ Despite the assumption that refugees and migrants transmit infectious diseases to the host population, the data shows otherwise. WHO rates this risk as very low.
- Both immigrants and refugees have good general health.
- ✓ They may run the risk of getting sick during the transition or staying in receiving countries due to poor living conditions or lifestyle adjustments, meaning their risk of falling ill increases during the trip or in the country of destination.
- ✓ Around 68.5 million people worldwide are currently displaced, of which 25.4 million cross international borders in search of protection.
- ✓ International migrants represent only 10% (90.7 million) of the total population in the WHO European Region Less than 7.4% of these are refugees.
- √ 85% of refugees worldwide are housed in developing countries.



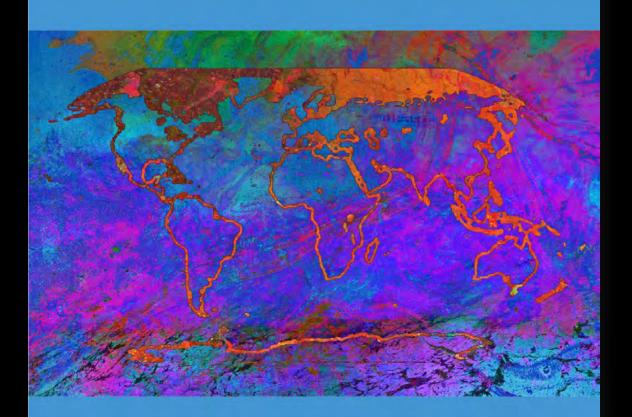
World Health Organization

Climate epochs and the anthropocene....

- ✓ The current global and uniform temperature warming is unique in 2,000 years of history (Common era)
- ✓ Climate variability has always been naturally occurring (warmer and colder periods, more humid or drier ones)
- ✓ The coldest periods were: Little Ice Age in the XV century in the central and eastern Pacific Ocean, in the XVII century in northwestern Europe and southeastern North America, in the mid XIX century over most of the remaining regions.
- ✓ The warmest period is: during the XX century for >98% of the globe
- The great climate conundrum. Editorial. Nature Geoscience, 2019.
- No evidence for globally coherent warm and cold periods over the preindustrial Common Era. Neukom R et al. Nature, 2019
- Last phase of the Little Ice Age forced by volcanic eruptions. Brönnimann S et al. Nature Geoscience, 2019
- Consistent multidecadal variability in global temperature reconstructions and simulations over the Common Era. Nature Geoscience 2019



Climate Change 2021 The Physical Science Basis



Intergovernmental
Panel on Climate
Change (IPCC) is
the United Nations
body for assessing
the Science related
to climate change







Human influence has warmed the climate at a rate that is unprecedented in at least the last 2000 years

Changes in global surface temperature relative to 1850-1900

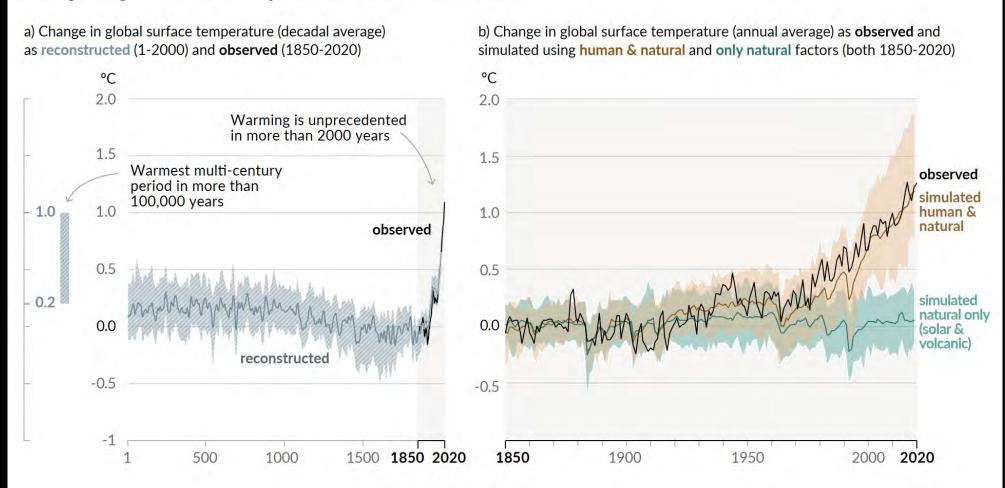
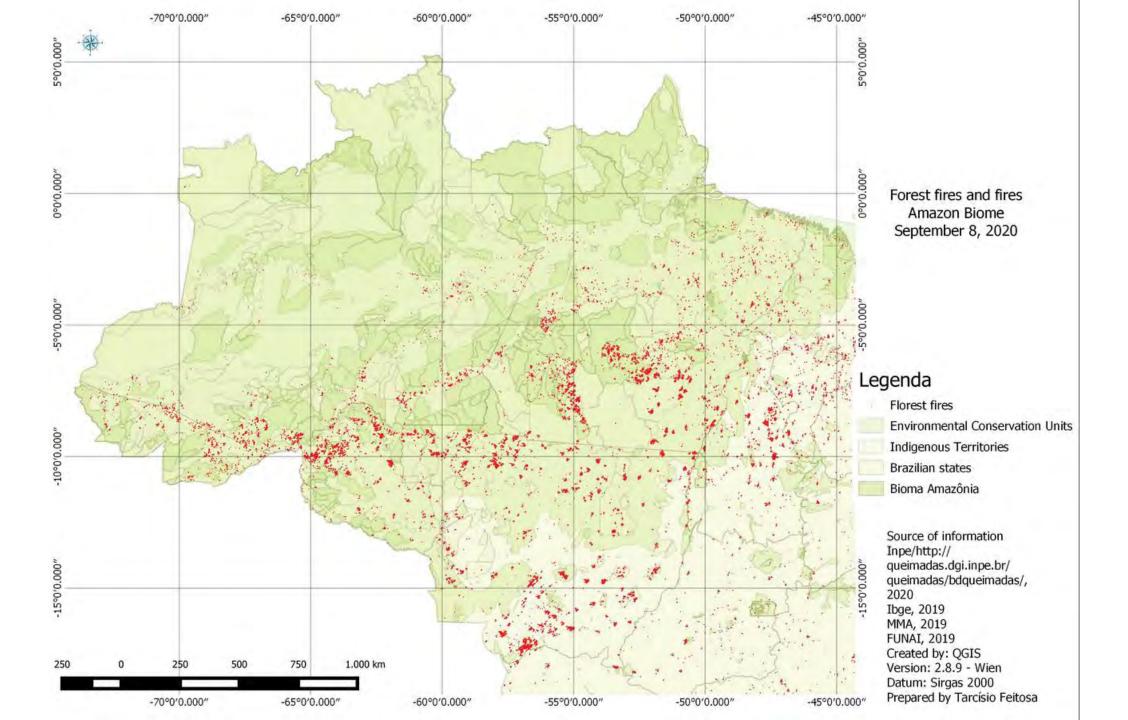


Figure SPM.1: History of global temperature change and causes of recent warming.





WMO GREENHOUSE GAS

The State of Greenhouse Gases in the Atmosphere Based on Global Observations through 2020

No. 17 | 25 October 2021

rest is absorbed by oceans and land ecosystems. The decreased pH due to CO₂ uptake [3] and the slowing fraction of emissions remaining in the atmosphere, of the meridional ocean circulation due to increased called airborne fraction (AF), is an important indicator melting of sea ice [4]. Timely and accurate information of the balance between sources and sinks. AF varies on changes in AF is critical to detecting future changes a lot from year to year, and over the past 60 years in the source/sink balance. the relatively uncertain annual averages have varied between 0.2 (20%) and 0.8 (80%). However, statistical analysis shows that there is no significant trend in the of atmospheric CO₂ m average AF value of 0.42 over the long term (about 60 years) (see Figure 1). This means that only 42% (GAW) Programme an of human CO₂ emissions remain in the atmosphere. Land and ocean CO₂ sinks have continued to increase proportionally with the increasing emissions. It is uncertain how AF will change in the future because the uptake processes are sensitive to climate and be combined with other land-use changes

Changes in AF will have strong implications for tracer transport model reaching the goal of the Paris Agreement, namely information on the st to limit global warming to well below 2° C, and will require adjustments in the timing and/or size of the and the factors contril emission reduction commitments. Ongoing climate change and related feedbacks, such as more frequent. Based on this direct obs droughts and the connected increased occurrence projections of CO2 leve and intensification of wildfires [2], might reduce CO, scenarios can be prov

Roughly half of the carbon dioxide (CO₂) emitted by uptake by land ecosystems. Ocean uptake might also be human activities today remains in the atmosphere. The reduced as a result of higher sea-surface temperatures,

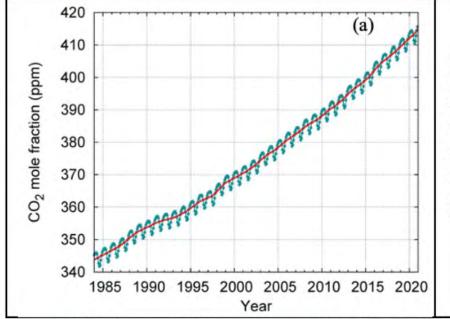
> Luckily, information is of stable isotope rati (O_a/N_a) ratio) and inverse

La transition d'une partie de l'Amazonie, d'un puits à une source de carbone, est déjà évidente...

Les gaz à effet de serre (CO₂, CH₄, N₂O) battent un nouveau record en 2020

CO₂ à 149% des niveaux préindustriels, CH₄ à 263% et N₂O à 123%

Carbon Dioxide (CO₂)



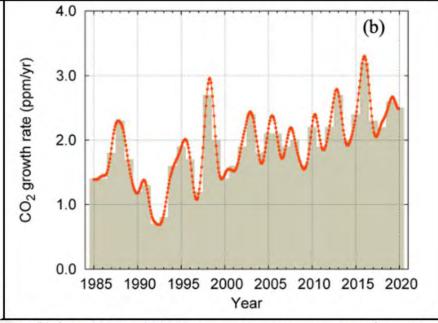
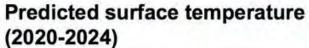
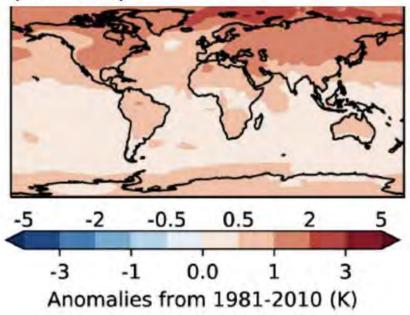


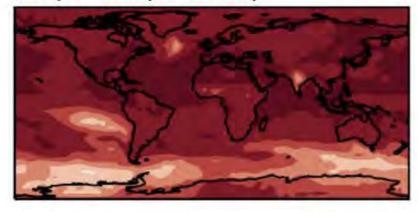
Figure 4. Globally averaged CO2 mole fraction (a) and its growth rate (b) from 1984 to 2020. Increases in successive annual means are shown as the shaded columns in (b). The red line in (a) is the monthly mean with the seasonal variation removed; the blue dots and blue line in (a) depict the monthly averages. Observations from 139 stations were used for this analysis.

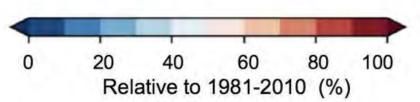
Global temperatures are predicted to continue to rise over the next five years





Probability of above average surface temperature (2020-2024)













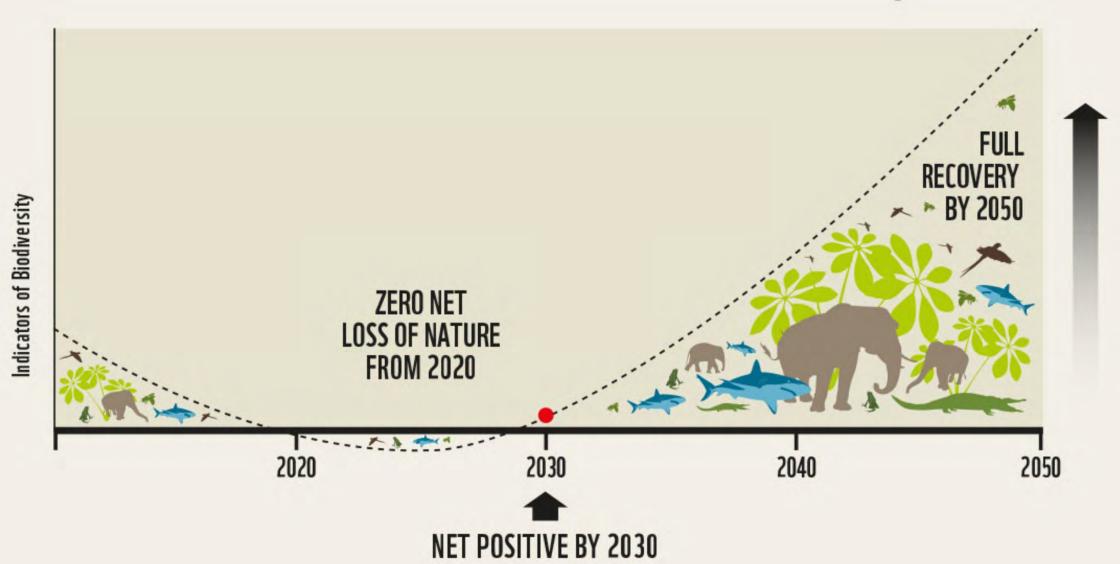
"It is still possible to bridge the Emissions Gap"



NATURE POSITIVE BY



Global Goal for Nature: Nature Positive by 2030









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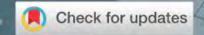
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The 2021 report of the Lancet Countdown on health and climate change: code red for a healthy future

Marina Romanello, PhD Alice McGushin, MSc Claudia Di Napoli, PhD Paul Drummond, MSc Nick Hughes, PhI

Louis Jamart, MSc et al. Show all authors

Published: October 20, 2021 DOI: https://doi.org/10.1016/S0140-6736(21)01787-6



References

Article Info

Linked Articles

The Lancet Countdown is an international collaboration that independently monitors the health consequences of a changing climate. Publishing updated, new, and improved indicators each year, the Lancet Countdown represents the consensus of leading researchers from 43 academic institutions and UN agencies. The 44 indicators of this report expose an unabated rise in the health

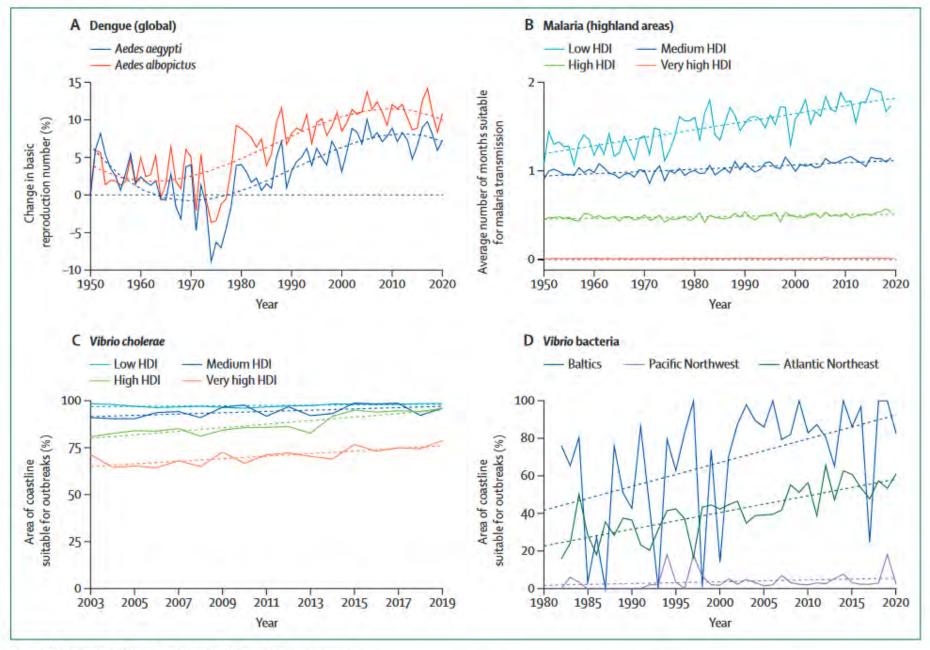


Figure 8: Change in climate suitability for infectious diseases

Solid lines represent the annual change. Dashed lines represent the trend since 1950 (for dengue and malaria), 1982 (for Vibrio bacteria), and 2003 (for Vibrio cholerae). HDI=human development index.



Zaidel EJ, et al. COVID-19: Implications for People with Chagas Disease. Global Heart. 2020; 15(1): 69. DOI: https://doi.org/10.5334/gh.891

REVIEW

COVID-19: Implications for People with

Chagas Disease

Ezequiel José Zaidel^{1,2}, Col Antonio Luiz P. Ribeiro^{7,8}, Luis Eduardo Echeverría¹¹, Pablo Perel^{14,15}, Sheba K. N Sergio Sosa-Estani^{3,18}

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CLINICAL RESEARCH



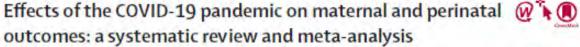
VOL. ■. NO. ■. 2021



SARS-CoV-2 Infects Human Engineered **Heart Tissues and Models COVID-19 Myocarditis**

Adam L. Bailey, MD, PhD, a,* Oleksandr Dmy Pan Ma, PhD, b Jing Liu, MS, b Vinay Penna, Ajith P. Nair, MD, Kent A. Heck, MD, Anik Dan Hobohm, MD,¹ W. Tom Stump, PhD,⁻ Ja Pei-Yong Shi, PhD, L Travis Hinson, MD, I, Florian Leuschner, MD, Chieh-Yu Lin, MD, Kory J. Lavine, MD, PhDa,b,p,†

Articles





Barbara Chmielewska, Imagen Barratt, Rosemany Townsend, Erkan Kalafat, Jan van der Meulen, Ipek Gurd-Urganici, Pat O'Brien, Edward Morris, Tim Draycatt, Shakila Thangar atinam, Kirsty Le Doare, Shamez Ladhani, Peter von Dadelszen, Lawa Magee, Asma Khalil

oa

Summary

Background The COVID-19 pandemic has had a profound impact on health-care systems and potentially on pregnancy Long Glob Hook (2021)

Neglected tropical diseases

About us

Diseases

Preventive chemotherapy and transmission control

Innovative and intensified disease management

Vector ecology and management

Neglected zoonotic diseases

Water, sanitation and hygiene

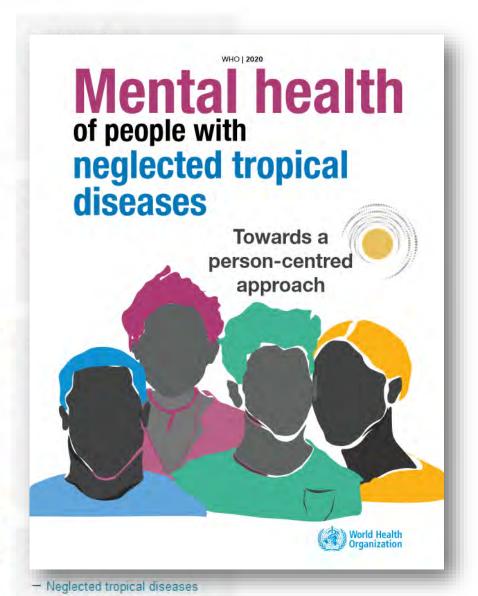
Neglected tropical diseases: tackling stigmatization, discrimination and mental health through a person-centred approach

12 October 2020 | Geneva — Women in sub-Saharan Africa affected by genital schistosomiasis suppress their health-seeking behaviour and are reluctant to speak about their condition, fearing matrimonial and societal consequences. Children as young as 12 years with swollen legs from lymphatic filariasis are booed at school. People with leprosy resist health-seeking behaviour for fear of stigmatization and ostracization. Buruli ulcer is often attributed to mystical causes, prompting people to seek treatment from traditional healers. Individuals affected by Chagas disease are discriminated against because the disease is almost always associated with the poorest populations who live in thatched homes infested by triatomine bugs that can carry *Trypanosoma cruzi*, the causative parasite.

These are a few real-life stories that panelists evoked to illustrate the stigmatization, discrimination and societal attitudes towards people affected by neglected tropical diseases (NTDs) and the link with mental health during the webinar on What role does disability, stigma and mental health play in achieving the NTD road map targets? held on 7 October 2020.



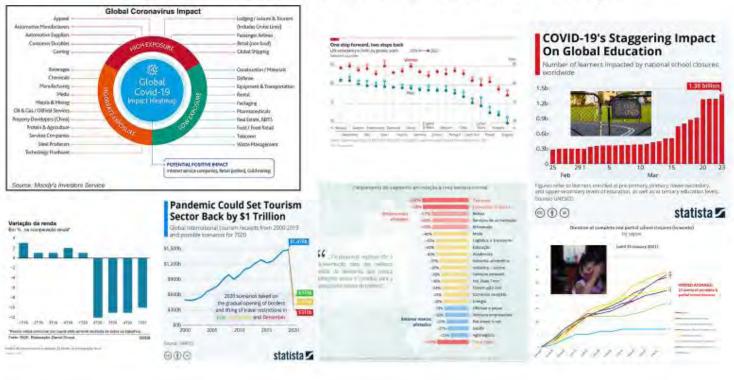
Fatima Harouk Individuals affected by neglected tropical disases are often reluctant to speak about their conditions, fearing societal consequences

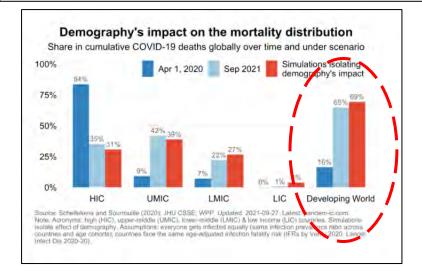


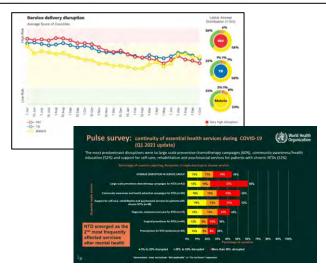
Impacte de la pandémie de COVID-19

- Impact sur le système de santé (perturbation de l'accès au dépistage et aux soins médicaux
- Pauvreté avec équité reduite
- Discrimination et stigmatisation accrues

Impacto na saúde, economia, turismo & educação







Neglected tropical diseases

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COVID-19: WHO issues interim guidance for implementation of NTD programmes

1 April 2020 | Geneva — The COVID-19 pandemic has prompted almost every country to implement unprecedented public health measures. WHO continues to provide guidance to Member States to assist them to respond quickly and confidently to this emergency. A range of public health measures are being implemented that include hand hygiene, respiratory etiquette, and practicing physical distancing.



RTI International/Damien Schumann
Volunteers administer treatment for trachoma during a treatment campaign in Mozambique., 2019

Consistent with these public health measures, particularly physical distancing, WHO recommends that community-based surveys, active case-finding activities and mass treatment campaigns for neglected tropical diseases be postponed until further notice.

Further reading

- Neglected Tropical Diseases
- WASH and COVID-19
- Coronavirus disease (COVID-19) advice for the public

THE WORLD'S CHANGING DEMOGRAPHIC PROFILE 2010 1950 2050 100+ 100+ 100+ 95-99 95-99 95-99 90-94 90-94 †90-94 ****** 85-89 185-89 ** 85-89 180-84 H 80-84 M ******** 80-84 H 75-79 M 111 75-79 ********* 75-79 ****** 70-74 ****** **** 70-74 ******* 70-74 **111** 65-69 **111 †††††** 65-69 *********** 65-69 ********* 60-64 tttt 60-64 **** †††† 55-59 **†††**† H######### 55-59 **#######** 55-59 **††††††** 50-54 **#######** 50-54 ************** 50-54 *********** 45-49 11111111111111145-49 ************ 40-44 ********** 40-44 H####### 35-39 **††††††††** 30-34 **************** 30-34 ************* 30-34 *********** 25-29 SOURCE: UN POPULATION DIVISION

SOURCE: UN POPULATION DIVISION

Quelles sont les avancées sans précédent en matière de contrôle et d'élimination?

☐ History beginning

- Progressive appearance of writing in Mesopotamia, Egypt, India, China,
 Mesoamerica, agricultural and Neolithic societies...
- Creation of nations that needed to fix memory, laws..., and official writers were the first to learn how to read and write...

□ Printer revolution

- XV Century (Gutenberg, 1439): reproduction outside castles, monasteries...

□ Industrial revolutions

- 1760-1850: steam power and telegraph (energy and communication...)
- 1850-1945: petrol vehicles, phone, radio, TV...

☐ Digital revolutions

- 1945-today: global connectivity...
- Internet of things, artificial intelligence...



World Health Organization

10 medical advances that will revolutionize the future

Toni Pou & Lara Bonilla, 01/06/2019 (https://www.ara.cat/dossier/Avencos-medics-que-revolucionaran-futur_0_2244975540.html)

"Customized treatments -> Stop treating illnesses in people and treat people with illness..."

- 1) Genetic editing: AIDS prevention, new medications, genetic therapy
- 2) Assisted reproduction
- 3) Bioprint of tissues
- 4) Nanotechnology
- 5) Microbiotics and Immunotherapy
- 6) Celular therapy
- 7) Mecanics of the cells or Mecano-biology
- 8) Telemedicine and telesurgery
- 9) Research with gender vision
- 10) Big data, artificial intelligence, virtual reality

Trends on urbanization and technology

- > Today there are more people living in cities than outside, a transition that required about 5,000 years to consolidate.
- Today, >50% of the planet's population is connected, although only 25 years have passed since the network began its release.
- ➤ Only in the last 3 years about 726 million people have joined the online world. China is still growing at a high speed. But much of the increase comes from poorer environments, especially from India and Africa.
- In reach societies the online world has been used to socialize, play..., but in poor societies or for migrant population the contact Apps will permit to keep contact with their families, friends...
- ➤ People is afraid about fake news, polarization, persecution of minorities..., but it is also true that smartphones will make possible: farmers to contrast harvest prices; population to be trained through online education...









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Background

E-PHR

Re-Health

Re-Health2

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La informació mèdica, al mòbil

- JA POTS PAGAR AMB Waylet

≜ diariandorra.ad

Diari d[®]Andorra Q ≡

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08:04 ₹

Govern crea l'app AndorraSalut, que permetrà consultar i gestionar les dades sanitàries



Home > E-PHR

E-PHR

The aim of the **electronic Personal Health Record (e-PHR)** and its platform is to enhance knowledge amongst stakeholders about refugees' migrants' health needs; to ensure that migrant health assessment records are available at transit and destination countries; and to strengthen natic and cross-border disease surveillance and response capacities.

PHR AND ACCOMPANYING HANDBOOK FOR HEALTH PROFESSIONALS











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WISCENTD

Introduction

The importance of data

Neglected tropical diseases (NTDs) disfigure and disable, leading to stigmatization and social discrimination. Severe complications and death can result if treatment is not provided early and adequately. This group of diseases largely affects low-income, politically marginalized people living in rural and periurban areas with low visibility and little political voice and with limited access to health care. NTDs are mainly focal and present in remote areas. However, they can be controlled, prevented and possibly eliminated or even eradicated with proven interventions. Strong surveillance systems should be in place in order to understand the burden of NTDs, to describe their geographical distribution and to identify populations at risk in order to best target control interventions in this resource constrained context and take evidence-based decisions.

In May 2013, the Sixty-sixth World Health Assembly adopted resolution WHA66.12 on neglected tropical diseases, urging Member States to "further strengthen the disease surveillance system especially on neglected tropical diseases targeted for eradication" and requesting WHO "to monitor progress in achieving the targets for neglected tropical diseases set in WHO's roadmap for accelerating work to overcome the global impact of neglected tropical diseases, and to provide support to Member States in their efforts to collect, validate and analyse data from national surveillance systems".

WHO is also focusing on a global world information and surveillance system to control Chagas disease. Surveillance is a key intervention to break the epidemiological silence (in different times and geographical spaces) of a 'silent and silenced' disease.

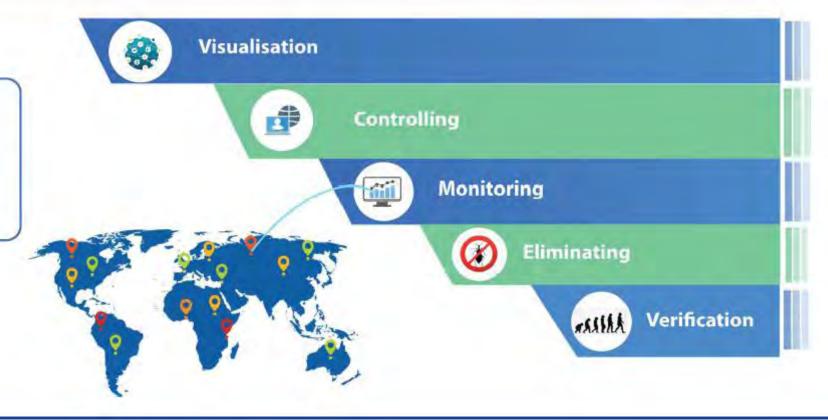
The global information and surveillance system created by WHO is an open-source system used to collect available information on Chagas disease from different sources (official documents, WHO Event Management System, medicine distribution system, and the WHO pharmacovigilance system in collaboration with the Uppsala Monitoring Centre, among others), detects possible epidemiological silences (in time and space) and facilitates: (i) access to disease statistics and dashboard elements; (ii) monitoring and guidance about the control and elimination of the disease; and (iii) verification processes to sustain the

WHO 2030 roadmap for NTDs

By 2030, close to 900 verification processes (for either eradication or elimination) are expected to be finished for different NTDs (e.g., 15 for Chagas elimination) in different countries.

Surveilance processes require an information system

Surveilance Processess





















Vision

Researchers/Academia

Providing research outcomes, data, study results and getting epidemiological information. Also using downloaded datasets in their studies.

MoH/country representatives

Direct use of the system gathering and providing information to monitor the evolution in the corresponding region of the World.

Researchers / Academia



Ministries of Health

VISCENTD
System
to Control/Eliminate NTDs

General & Affected Population



Partners (Manufacturers, Foundations, NGOs...)

General & Affected Population:

The ultimate beneficiary, getting benefits through the use of the system

Partners

Crucial pillars for the system. Different types of support and getting epidemiological information





Publicado em: 19/02/2020 | Edição: 35 | Seção: 1 | Página: 97 Órgão: Ministério da Saúde/Gabinete do Ministro

PORTARIA Nº 264, DE 17 DE FEVEREIRO DE 2020

Altera a Portaria de Consolidação nº 4/GM/MS, de 28 de setembro de 2017, para incluir a doença de Chagas crônica, na Lista Nacional de Notificação Compulsória de doenças, agravos e eventos de saúde pública nos serviços de saúde públicos e privados em todo o território nacional.

O MINISTRO DE ESTADO DA SAÚDE, no uso das atribuições que lhe conferem os incisos I e II do parágrafo único do art. 87 da Constituição, e

Considerando a Lei nº 6.259, de 30 de outubro de 1975, que dispõe sobre a organização das ações de Vigilância Epidemiológica, sobre o Programa Nacional de Imunizações, estabelece normas relativas à notificação compulsória de doenças, e dá outras providências;

Considerando a Lei nº 10.778, de 24 de novembro de 2003, que estabelece a notificação compulsória, no território nacional, do caso de violência contra a mulher que for atendida em serviços de saúde, públicos ou privados;

Considerando a Lei nº 12.527, de 18 de novembro de 2011, que regula o acesso às informações previsto no inciso XXXIII do art. 5º, no inciso II do § 3º do art. 37 e no § 2º do art. 216 da Constituição Federal; altera a Lei nº 8.112, de 11 de dezembro de 1990; revoga a Lei nº 11.111, de 5 de maio de 2005, e dispositivos da Lei nº 8.159, de 8 de janeiro de 1991; e dá outras providências; e

Considerando a necessidade de atualizar a Lista Nacional de Notificação Compulsória de doenças, agravos e eventos de saúde pública no âmbito do Sistema Único de Saúde (SUS), resolve:

Art. 1º Esta Portaria inclui, na Lista Nacional de Notificação Compulsória de doenças, agravos e eventos de saúde pública, a doença de Chagas crônica, a criptococose, a esporotricose humana e a paracoccidioidomicose.





nin / Conner Informa

Conass informa n. 42/2020 – Publicada a Portana GM n. 264 que altera a Portana de Consolidação nº 4/GM/MS, tie 28 de setembro de 2017, para incluir a doença de Chagas crônica, na Lista Nacional de Notificação Compulsória de doenças, agravos e eventos de saúde pública nos serviços de saúde públicos extratores de consolidad de públicos extratores de consolidad de pública nos serviços de saúde públicos extratores de consolidad de pública nos serviços de saúde públicos extratores de consolidad de consolid

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Publicado em 119 fev 2020



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Neglected tropical diseases

Draft road map for neglected tropical diseases 2021-2030

Report by the Director-General

1. In decision EB146(9) (2020), the Executive Board at its 146th session, having considered the report on neglected tropical diseases¹ and recalling resolution WHA66.12 (2013) on neglected tropical diseases, WHO's road map for accelerating work to overcome the global impact of neglected tropical diseases (2012–2020) and Member States¹ commitment to target 3.3 of Sustainable Development Goal 3, requested the Director-General to develop, in consultation with Member States and in collaboration with relevant stakeholders, the road map for neglected tropical diseases 2021–2030, aligning it with Sustainable Development Goal targets for 2030, in order to maintain the momentum and sustain the gains achieved in addressing neglected tropical diseases, as well as applying lessons learned from implementing the road map for 2012–2020, and to submit it for consideration by the Seventy-third World Health Assembly.

e virtually from 9-14 November 2020, in light of the ongoing ble follow proceedings on the webcast below.

duced (*de minimis*) meeting of 18-19 May 2020. All in documents page for the WHA73.

DATES:

18-19 May 2020 (de minimis)

9-14 November 2020 (resumed)

Decision approved on 12 November 2020, at 12:48'

Chagas disease

Chagas disease is a potentially life-threatening illness caused by infection with the protozoan parasite *Trypanosoma cruzi*. The disease is mainly a chronic condition and co-infections and co-morbidities are common.

Disease and epidemiology

- Chagas disease is a potentially life-threatening illness caused by infection with the protozoan parasite *Trypanosoma cruzi*.
- Transmission of infection is (i) vector-borne (through the faeces and urine of triatomine bugs) in the Americas and (ii) oral/foodborne, (ii) congenital, (iv) transfusional (through blood products), (v) organ transplantation and (vi) laboratory accidents everywhere.
- During the acute and chronic phases, most patients have no (or nonspecific) symptoms; without treatment, up to 30% develop cardiac alterations and up to 10% digestive, neurological or mixed alterations. Afterwards, the destruction of the muscle and nervous system can lead to cardiac arrhythmias and/or heart failure and sudden death.
- The disease is mainly a chronic condition and co-infections and co-morbidities are common.

Progress against WHO 2020 targets

Impact indicator	2020 target	Current status
Interruption of transfusional transmission by 2015	Americas, European and Western Pacific regions	66% of countries are at an advanced stage
Interruption of domiciliary vectoral transmission by 2020	Region of the Americas	33% of countries have succeeded

Core strategic interventions

Preventive chemotherapy	N/A		
WASH	Good hygiene practices in food preparation, transportation, storage and consumption		
Vector control	Spraying with residual insecticides to remove triatomine bugs from dwellings Home cleanliness and housing improvements (e.g. crack-free walls, bednets)		
Veterinary public health	N/A		
Case management	 Two antiparasitic medicines (benznidazole and nifurtimox) can cure infection during the acute or early chronic phase, or can prevent or curb progression of the disease Life-long medication or surgery may be necessary for specific heart and/or digestive alterations 		
Other	 Blood screening is vital to prevent transmission through blood transfusions and organ transplantation Treatment of girls or women of childbearing age can prevent congenital transmission 		

Indicator	2020 (baseline)	2023	2025	2030
Number of countries achieving interruption of transmission through the four transmission routes (vectoral, transfusion, transplantation and congenital), with 75% antiparasitic treatment coverage of the target population	0/41 (0%)	4/41 (10%)	10/41 (24%)	15/41 (37%)
Number of countries achieving verification of interruption of domiciliary vectoral transmission	7/21 (33%)	9/21 (43%)	14/21 (66%)	18/21 (86%)
Number of countries achieving verification of interruption of transfusional transmission	0/41 (0%)	5/41 (0%)	20/41 (49%)	41/41 (100%)
Number of countries achieving verification of interruption of transplantation transmission	0/41 (0%)	5/41 (0%)	20/41 (49%)	41/41 (100%)
Number of countries achieving verification of interruption of congenital transmission	0/41 (0%)	4/41 (10%)	10/41 (24%)	15/41 (37%)

Estimated number of *T. cruzi* infected people worldwide according to 1990-2017 **Burden of disease** publications, millions

6–7 million
people infected with T. cruzi
in 2018

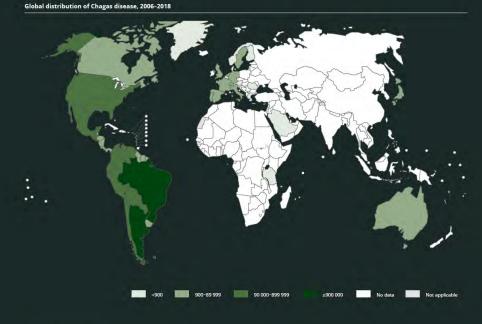
About 10 000 deaths in 2017

Chagas disease occurs principally in 21 continental Latin American countries. During the past decades, however, population mobility has led to increased detection of the disease in the USA.

About
75 million
people at risk of infection

200
150
150
160
561
664, Spanulos
1640 Chw
1650 Chw
1650

Canada, many European and some Western Pacific countries.



1 Argentina, Belize, Bolivia (Plurinational State of), Brazil, Chile, Colombia, Costa Rica, Ecuador, El Salvador, French Guiana, Guatemala, Guyana, Honduras, Mexico, Nicaragua, Panama, Paraguay, Peru, Suriname, Uruguay and Venezuela (Bolivarian Republic of)

Que met sur la table la feuille de route 2021-2030 ?

1. Vérification de l'interruption de la transmission des insectes vecteurs domestiques

2. Vérification de l'interruption de la transmission transfusionnelle

3. Vérification de l'interruption de la transmission par greffe d'organe

4. Élimination de la maladie de Chagas congénitale

5. 75 % de couverture du traitement antiparasitaire de la population mondiale éligible

Roadmap evaluation parameters

2023: progress evaluation coinciding with end of GPW 13

 2025: mid-review evaluation to potentially re-adjustment of strategies/targets

2030: End of NTD roadmap and Sustainable Development Goals





Chagas disease: Current status of 1/6 ways of transmission in 21 countries of 1 region

Without any 1st
administrative
division with
interruption of
domiciliary vectorial
transmission

Bolivarian Republic of Venezuela Ecuador

Active transmission of domiciliary vectorial transmission due to sylvatic cycles

Plurinational State of Bolivia

Brazil

Colombia

Ecuador

French Guiana

Guyana

Panama

Peru

Suriname

Bolivarian Republic of

Venezuela

1st administrative divisions with interruption of domiciliary vectorial transmission

Argentina
Plurinational State
of Bolivia
Colombia
French Guiana

Guyana Mexico Peru Domiciliary vectorial transmission by the principal triatomine bug transmitting *T. cruzi* infection interrupted

Belize
Brazil
Chile
Costa Rica
El Salvador
Guatemala
Honduras
Nicaragua
Paraguay
Uruguay

Domiciliary vectorial transmission interrupted



Belize
Chile
Costa Rica
Honduras
Nicaragua
Paraguay
Uruguay

2 (10%) 10 (48%)

7 (33%)

10 (48%)

7 (33%)

2019-20 priorities: 1. Increase case detection & follow-up; 2. Monitoring & verification of new achievements



Chagas disease: Current status of 1/6 ways of transmission in 41 countries of 3 regions

Blood/blood products transfusional transmission interruption moderate	Blood/blood products transfusional transmission interruption intermediate	Blood/blood products transfusional transmission interruption advanced	Elimination of Transmission Verified
Australia USA	Austria Belgium Canada Croatia Denmark Finland Italy Germany Luxembourg The Netherlands Romania	Argentina, Belize, Plurinational State of Bolivia, Brazil, Chile, Colombia, Costa Rica, Ecuador, El Salvador, Guatemala, Guyana, Honduras, Mexico, Nicaragua, Panama, Paraguay, Peru, Suriname, Uruguay, Bolivarian Republic of Venezuela France, Japan, Portugal, Spain, Sweden, Switzerland, United Kingdom	(The challenge of different ways of transmission in different territories of the world)
2 (5%)	11 (27%)	27 (66%)	

2019-20 priorities: 1. Increase case detection & follow-up; 2. Monitoring & verification of new achievements



Hindawi BioMed Research International Volume 2020, Article ID 1803515, 9 pages https://doi.org/10.1155/2020/1803515



Research Article

Development of a New Lateral Flow Assay Based on IBMP-8.1 and IBMP-8.4 Chimeric Antigens to Diagnose Chagas Disease

Edimilson D. Silva, Angelo A. O. Silva, Emily F. Santos, Leonardo M. Leony, Natália E. M. Freitas, Ramona T. Daltro, Antônio G. P. Ferreira, Rafaela L. Diniz, Aline R. Bernardo, Alejandro O. Luquetti, Marco A. Krieger, Paola A. F. Celedon, Pedro A. Viñas, Nilson I. T. Zanchin, and Fred L. N. Santos

Correspondence should be addressed to Fred L. N. Santos; fred.santos@fiocruz.br

Received 15 April 2020; Revised 5 July 2020; Accepted 21 July 2020; Published 18 August 2020

Academic Editor: Pengjun Shi

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³Center of Studies for Chagas Disease, Federal University of Goiás, Goiânia, Brazil

⁴Carlos Chagas Institute (Fiocruz/PR), Curitiba, Brazil

⁵Molecular Biology Institute of Paraná (IBMP), Curitiba, Brazil

⁶Chagas Disease Program, Neglected Tropical Diseases (NTD), World Health Organization (WHO), Geneva, Switzerland

Geographical origin of chronic Chagas disease patients in Brazil impacts the performance of commercial tests for anti-T. cruzi IgG

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⁷World Health Organization, Department of Control of Neglected Tropical Diseases, Geneva, Switzerland

BACKGROUND Chagas disease, caused by *Trypanosoma cruzi*, affects nearly six million people worldwide. Various serological tests have been developed for its diagnosis.

OBJECTIVE Examine the performance of a set of commercial immunological assays in relation to the geographical origin of the patient sample comparing four states of Brazil: Amazonas (AM), Mato Grosso do Sul (MS), Minas Gerais (MG) and Piauí (PI).

METHODS Seven immunoassays were employed to detect anti-*T. cruzi* IgG antibodies in 379 patient samples that had been previously diagnosed using the two-step protocol required by the Brazilian Ministry of Health.

FINDINGS A significant variation in the percent reactive was calculated for the samples from AM and MS, while the PI and MG showed a significant variation in the percent non-reactive. The average reactivity index was significantly higher for samples from the states of PI and MG states than AM and MS.

MAIN CONCLUSIONS All tests presented a satisfactory performance overall. Yet, variations were observed that were associated to the region of origin of the samples. Our analyses suggest that future evaluations of immunoassays should include a sampling of sera from regions where the test will be applied in addition to the available International Biological Reference Standards.

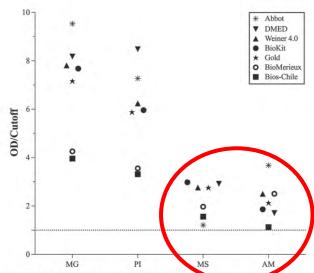


Fig. 4: the reactivity index (OD/CO) measured from each test in the detection of anti-*T. cruzi* IgG according to the Brazilian state of origin. The mean optical density measured by each kit for reactivity biological samples were divided by the cutoff to generate the RI and plotted according to the state of Brazil where the sample was collected. MG - Minas Gerais; PI - Piaui; MS - Mato Grosso do Sul; AM - Amazonas.

Application of WHO International Biological Reference Standards to evaluate commercial serological tests for chronic Chagas disease

Amadeo Sáez-Alquezar¹/+, Angela Cristina Verissimo Junqueira², Andressa da Matta Durans^{3,4}, André Valpassos Guimarães¹, José Abol Corrêa¹, D William Provance Jr^{3,4}, Pedro Hernan Cabello^{5,6}, José Rodrigues Coura², Pedro Albajar Viñas⁷

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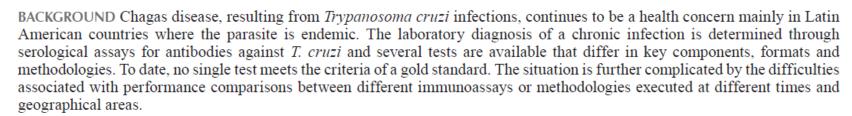
³Fundação Oswaldo Cruz-Fiocruz, Centro de Desenvolvimento Tecnológico em Saúde, Rio de Janeiro, RJ, Brasil

⁴Fundação Oswaldo Cruz-Fiocruz, Instituto Oswaldo Cruz, Laboratório Interdisciplinar de Pesquisas Médicas, Rio de Janeiro, RJ, Brasil

Fundação Oswaldo Cruz-Fiocruz, Instituto Oswaldo Cruz, Laboratório de Genética Humana, Rio de Janeiro, RJ, Brasil

⁶Universidade do Grande Rio, Laboratório de Genética, Rio de Janeiro, RJ, Brasil

⁷World Health Organization, Department of Control of Neglected Tropical Diseases, Geneva, Switzerland



OBJECTIVE To improve the diagnosis of Chagas disease, the WHO coordinated the development of two International Biological Reference Standards for antibodies against anti-*T. cruzi*: NIBSC 09/186 and NIBSC 09/188 that respectively represent geographical regions with the highest prevalence of TcII and TcI lineages of the parasite.

METHODS The principle goal of this study was to verify the behavior of these standards when assayed by several commercially available serological tests that employ different methods to capture and detect human anti-*T. cruzi* antibodies.

FINDINGS AND MAIN CONCLUSIONS The results reinforce the recommendation that these standards be considered for performance evaluations of commercialised immunoassays and should be an integral step in the development of new test components or assay paradigms.





Semtsi

Con el patrocinio científico de la:

Detección, monitoreo y evaluación de la infección por el *Trypanosoma cruzi* en el umbral de una nueva década (2021-2030).

Desafíos, oportunidades y la (aún) inexistente comparabilidad en el tiempo y en el espacio.

Second WHO Model List of Essential In Vitro Diagnostics

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Making available free paediatric medicine can accelerate elimination of congenital Chagas disease

Français



VIEWPOINTS

Congenital Chagas disease: Updated recommendations for prevention, diagnosis, treatment, and follow-up of newborns and siblings, girls, women of childbearing age, and pregnant women

Yves Carlier 1,20 *, Jaime Altcheh 30, Andrea Angheben 40, Hector Freilij 30, Alejandro O. Luquetti 50, Alejandro G. Schijman 50, Manuel Segovia 70, Noemie Wagner 80, Pedro Albajar Vinas 90

1 Laboratoire de Parasitologie, Faculté de Médecine, Université Libre de Bruxelles (ULB), Brussels, Belgium, 2 Department of Tropical Medicine, School of Public Health and Tropical Medicine, Tulane University, New Orleans, Louisiana, United States of America, 3 Servicio de Parasitología, Hospital de Niños Ricardo Gutiérrez (Centro colaborador en Chagas pediátrico OPS/OMS), Instituto Multidisciplinario de Investigación en Patologías Pediátricas (IMIPP), CONICET-GCBA, Buenos Aires, Argentina, 4 Centro per le Malattie Tropicali, IRCCS Ospedale "Sacro Cuore—Don Calabria," Negrar (Verona), Italy, 5 Laboratório de Chagas, Hospital das Clínicas, Universidade Federal de Goiás, Goiânia, Goiás, Brazil, 6 Laboratorio de Biología Molecular de la Enfermedad de Chagas, INGEBI-CONICET, Buenos Aires, Argentina, 7 Unidad Regional de Medicina Tropical, Hospital Clínico Universitario Virgen de la Arrixaca, El Palmar (Murcia), Spain, 8 Hôpitaux Universitaires de Genève, Geneva, Switzerland, 9 Department of Control of Neglected Tropical Diseases, World Health Organization, Geneva, Switzerland

- These authors contributed equally to this work.
- * ycarlier@ulb.ac.be



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Citation: Carlier Y, Altcheh J, Angheben A, Freilij H, Luquetti AO, Schijman AG, et al. (2019) Congenital Chagas disease: Updated recommendations for prevention, diagnosis, treatment, and follow-up of newborns and siblings, girls, women of childbearing age, and pregnant women. PLoS Negl Trop Dis 13(10): e0007694. https://doi.org/10.1371/journal.pntd.0007694

Introduction

In 2005, the World Health Organization (WHO) recognized Chagas disease (CD; *Trypanosoma cruzi* infection) as a neglected tropical disease (NTD) [1] and included it into the global plan to combat NTDs [2]. The Target 3.3 of the United Nations Sustainable Development Goals (UN/SDG) aims at ending the epidemics of NTDs by 2030 [3]. Mother-to-child (congenital/connatal) transmission is currently the main mode of transmission of *T. cruzi* over

Neglected tropical diseases

Neglected tropical diseases



ve chemotherapy and

ve and intensified disease ment

Vector ecology and management

Neglected zoonotic diseases

Water, sanitation and hygiene

Preventing mother-to-child transmission of Chagas disease: from control to elimination

16 November 2018 | Geneva | Murcia (Spain) — The World Health Organization (WHO) is shifting its focus towards active screening of girls and women of childbearing age to detect the presence of *Trypanosoma cruzi*, the causative parasite of Chagas disease. Recent evidence¹,² demonstrates that diagnosing and treating women of this age group before pregnancy can effectively prevent congenital transmission.

"Identifying pregnant women already infected with the parasite, as well as newborns and siblings, has been a major challenge in both endemic and non-endemic countries" said Dr Pedro Albajar Viñas, Medical Officer, WHO Department of Control of Neglected Tropical Diseases. "With the progressive control of transmission by vectors and through blood transfusion, updating, reinforcing and expanding standardized screening measures for congenital transmission make absolute sense"



25 NOVEMBER 2019 | STATEMENTS

Unitaid seeks to support new approaches to tackle Chagas disease



Brasilia – Unitaid has launched a call for proposals for new projects that can help eliminate congenital infection of Chagas disease through better diagnosis and treatment, within the context of its work in maternal and child health. The new call reflects increased global attention and country commitment to fight Chagas disease.



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Panamá Paraguay Perú Portugal

SEMANA DE LA INNOVACIÓN PÚBLICA

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Δσend:

Detalle agenda/

5/ marzo 2019

Presentación de la campaña iberoamericana "Ningún Bebé con Chagas" | 🖪 🖪 🖪

Martes 5 de marzo, 11:00h. Secretaría General Iberoamericana, Paseo de Recoletos, 8, Madrid, España

El martes 5 de marzo a las 11:00h tendrá lugar la presentación de la campaña iberoamericana "Ningún Bebé con Chagas" en Madrid.

El evento contará con la presencia de Rebeca Grynspan, secretaria general iberoamericana; Pedro Albajar, director del programa de Chagas en la OMS; Javier Martos, director ejecutivo de UNICEF

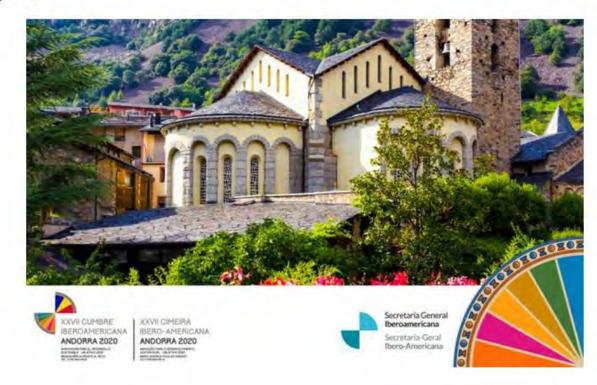


para dialogar sobre la situación actual de la región y los temas que se elevarán a la reunión de Jefes de Estado, a ser celebrada en Andorra, en abril de 2021.

La XXVII Cumbre Iberoamericana de Jefes de Estado y de Gobierno se celebrará el 21 de abril de 2021 f y in

Será la primera vez que Andorra acoja la Cumbre Iberoamericana, cuyo lema será "Innovación para el desarrollo sostenible. Objetivo 2030. Iberoamérica frente al reto del coronavirus".

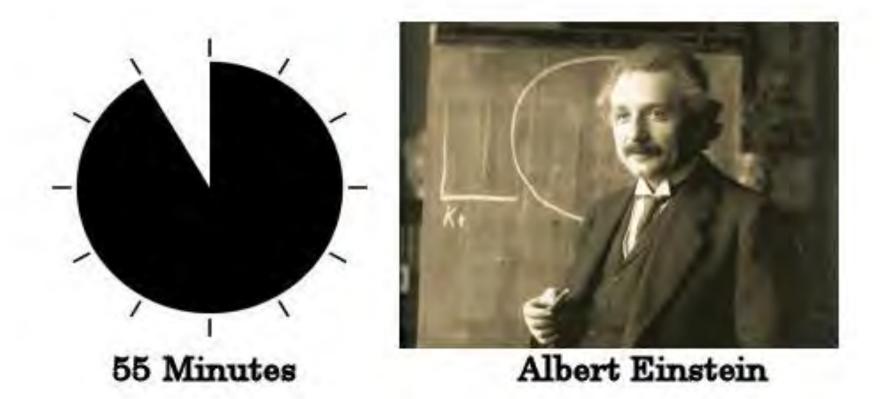
16 February 2021



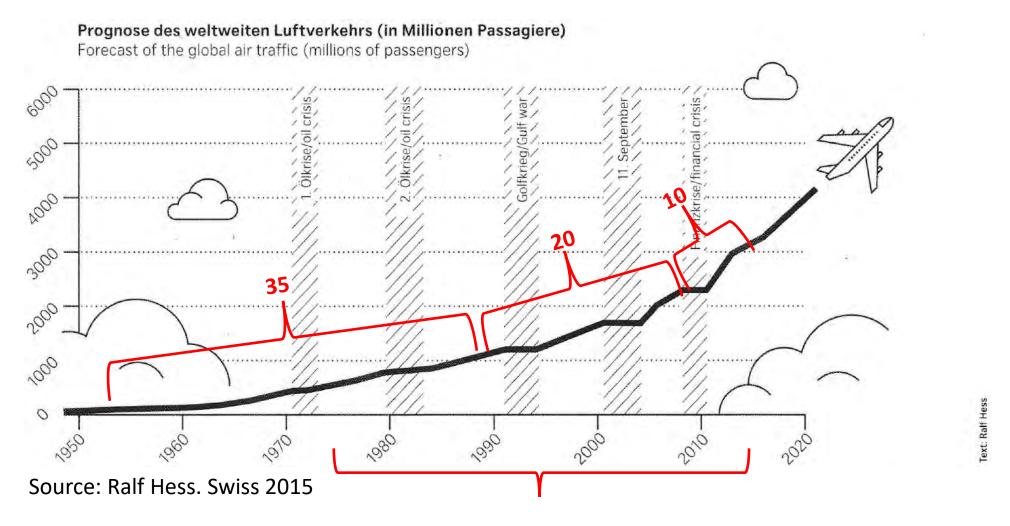
Réflexions finales...



« Sí j'avaís 1 heure pour résondre un problème, je passeraís 55 minutes à étudier le sujet et 5 minutes à proposer une solution »



Forecast of the global air traffic per year (millions of passengers)



In 40 years an increase of >7 times

The multidimensional comprehension of Chagas disease. Contributions, approaches, challenges and opportunities from and beyond the Information, Education and Communication field

Mariana Sanmartino¹/+, Colin J Forsyth², Andrea Avaria³, Mar Velarde-Rodriguez^{4,5}, Jordi Gómez i Prat⁶, Pedro Albajar-Viñas⁷

¹Consejo Nacional de Investigaciones Científicas y Técnicas, Instituto de Física de Líquidos y Sistemas Biológicos,

Grupo de Didáctica de las Ciencias, La Plata, Buenos Aires, Argentina

²Drugs for Neglected Diseases *initiative* - Latin America, Rio de Janeiro, RJ, Brasil

³Universidad Autónoma de Chile, Facultad de Ciencias Sociales y Humanidades, Santiago, Región Metropolitana, Chile

⁴Swiss Tropical and Public Health Institute, Department of Epidemiology and Public Health, Basel, Switzerland

⁵University of Basel, Basel, Switzerland

6 Hospital Universitari Vall d'Hebron, Servei de Medicina Preventiva, Unitat de Salut Internacional Drassanes-Vall d'Hebron, Eguip de Salut Pública i Comunitària, Barcelona, Catalunya

⁷World Health Organization, Department of Control of Neglected Tropical Diseases, Geneva, Switzerland

Chagas is a complex, multidimensional phenomenon in which political, economic, environmental, biomedical, epidemiological, psychological, and sociocultural factors intersect. Nonetheless, the hegemonic conceptualisation has long envisioned Chagas as primarily a biomedical question, while ignoring or downplaying the other dimensions, and this limited view has reinforced the disease's long neglect. Integrating the multiple dimensions of the problem into a coherent approach adapted to field realities and needs represents an immense challenge, but the payoff is more effective and sustainable experiences, with higher social awareness, increased case detection and follow-up, improved adherence to care, and integrated participation of various actors from multiple action levels. Information, Education, and Communication (IEC) initiatives have great potential for impact in the implementation of multidimensional programs of prevention and control successfully customised to the diverse and complex contexts where Chagas disease persists.

Key words: Chagas disease - multidimensional comprehension - information - education - communication - public health



Interlocking gears to address the multidimensionality of Chagas (Illustration: Iván Pasanau)



-> L'Amazonie est aujourd'hui le territoire du monde avec le plus grand nombre de cas aigus...

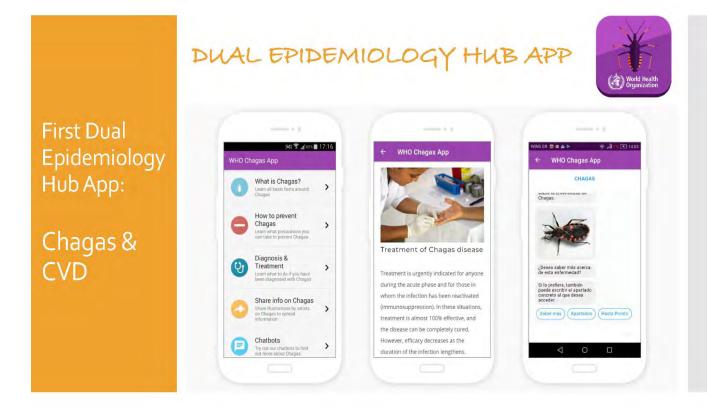
3 scénarios épidémiologiques en Amazonie :

- indigènes (indigènes, saigneurs de caoutchouc...) liés à l'extractivisme, la chasse et la pêche (maladie vectorielle, professionnelle);
- les migrants arrivés avec l'infection ou la maladie (migration et santé);
- concentrations urbaines et transmission orale par des aliments consommés localement ou exportés!

3 grands défis actuels :

- détection précoce des cas ou des foyers de transmission oral, avec leur notification essentielle;
- suivi (dans le temps et dans l'espace) des personnes concernées;
- pérennité des actions et réalisations de prévention et de contrôle

La détection, le suivi et surtout la pérennité des actions sont directement liés au degré de communication et d'implication des personnes affectées, de leurs communautés et des organisations de la société civile (groupements, associations, organisations...).



- places the patient as the first and principal actor;
- is an instrument of **information**, **education** and **communication** (IEC) for those affected (infected, family, friends ...) and health personnel;
- > simultaneously addresses chronic diseases (infectious and non-infectious) that pose a heart risk: Chagas disease, rheumatic heart disease, hypertension, diabetes, obesity, cardio-renal syndrome ...;
- promotes an operational and basic research agenda on the subject of coinfections and co-morbidities, at the level of risk factors, management ...







Implementation through "opportunities for systematic integration" - OSI:

- Opportunities occur in the **coincidence** of two or more processes **in time and space**;
- They already exist and the challenge is to **identify them**;
- Possibility of increasing efficiency and effectiveness in detection, diagnostic confirmation, health care, prevention, control, cost-effectiveness...
- Once an OSI has been identified, its non-use could be categorized as malpractice.
- Many examples: diagnosis of hemoparasitic infections (malaria, filariasis, and Chagas disease) through malaria films; HIV, hepatitis B, syphilis and Chagas disease screening at birth; screening for opportunistic infections that define AIDS; addressing dual epidemiology (for infectious and noninfectious diseases) in screening for chronic diseases that can cause heart disease...





Haemoparasites detection in malaria films:

- *Plasmodium* spp.
- Filariasis
- Trypanosoma cruzi

An Automatic System for Computing Malaria Parasite Density in Thin Blood Films

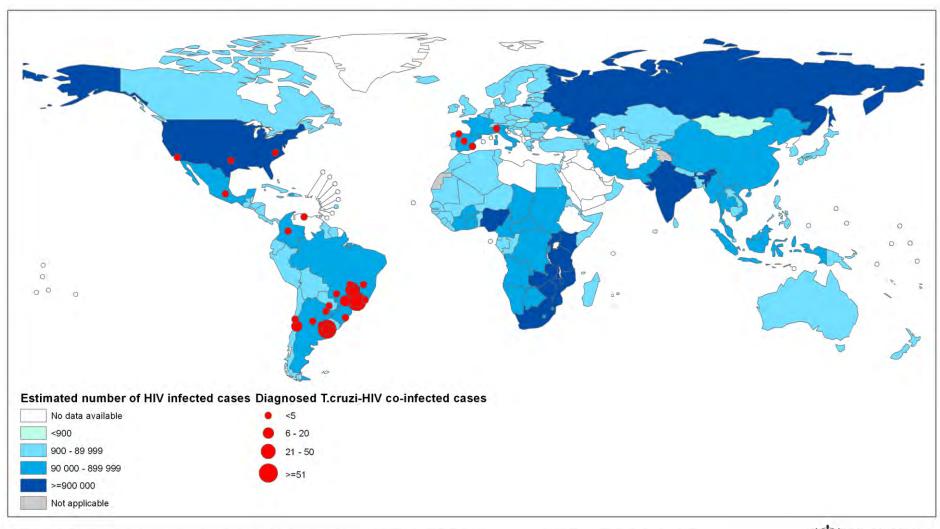
Allisson Dantas Oliveira¹, Bruno M. Carvalho¹(S), Clara Prats², Mateu Espasa³, Jordi Gomez i Prat³, Daniel Lopez Codina², and Jones Albuquerque⁴

- Department of Informatics and Applied Mathematics, UFRN, Natal, Brazil allissondantas@gmail.com, bruno@dimap.ufrn.br
- Barcelona Tech, Universitat Politècnica de Catalunya, Barcelona, Spain {clara.prats, daniel.lopez-codina}@upc.edu
- Microbiology Department, Vall dHebron University Hospital, Barcelona, Spain {mespasa, j.gomez}@vhebron.net
 - Department of Statistics and Informatics, UFRPE, Recife, Brazil jones.albuquerque@gnail.com

Abstract. Malaria is a major worldwide health problem, specially in countries with tropical climates and remote areas. In this paper, we present an automatic system for estimating malaria parasite density in thin blood smears. The proposed approach is based on simple image processing methods that can be implemented efficiently even on low budget devices. The method has been tested on images acquired under different illumination and acquisition setups and has produced encouraging results, achieving a sensitivity of 89.3%.

Keywords: Malaria · Parasite density · Medical image processing

Global map of diagnosed *T. cruzi* – HIV co-infected cases and officially estimated number of HIV infected cases per country, 2006-2010



The boundaries and names shown and the designations used on this map do not imply the expression of any opinion whatsoever on the part of the World Health Organization concerning the legal status of any country, territory, city or area or of its authorities, or concerning the delimitation of its frontiers or boundaries. Dotted and dashed lines on maps represent approximate border lines for which there may not yet be full agreement.

Data Source: World Health Organization Map Production: Control of Neglected Tropical Diseases (NTD) World Health Organization





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WHO to continue support for Chagas disease programme that promotes patient self-care Français

Hindawi Journal of Tropical Medicine Volume 2018, Article ID 7218534, 10 pages https://doi.org/10.1155/2018/7218534



Research Article

Coinfections between Persistent Parasitic Neglected Tropical Diseases and Viral Infections among Prisoners from Sub-Saharan Africa and Latin America

Lilian Da Silva Santos,^{1,2} Hans Wolff,¹ François Chappuis,² Pedro Albajar-Viñas,³ Marco Vitoria, Nguyen-Toan Tran,¹ Stéphanie Baggio,¹ Giuseppe Togni,⁵ Nicolas Vuilleumier,⁶ François Girardin,⁷ Francesco Negro,⁸ and Laurent Gétaz, ^{1,2}

Correspondence should be addressed to Laurent Gétaz; laurent.getaz@hcuge.ch

Received 19 April 2018; Revised 23 August 2018; Accepted 3 October 2018; Published 6 November 2018

Guest Editor: Claire D. Bourke

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Department of HIV/AIDS & Global Hepatitis Program, World Health Organization, Geneva, Switzerland

⁵Microbiology Laboratory, Unilabs, Coppet, Switzerland

⁶Division of Laboratory Medicine, Department of Genetics and Laboratory Medicine,

Geneva University Hospitals and Faculty of Medicine, Geneva, Switzerland

⁷Medical Direction, Geneva University Hospitals and University of Geneva, Geneva, Switzerland

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Revista da Sociedade Brasileira de Medicina Tropical

Journal of the Brazilian Society of Tropical Medicine Vol.:53:(e20200048): 2020



https://doi.org/10.1590/0037-8682-0048-2020

Major Article

Community-based approaches for malaria case management in remote communities in the Brazilian Amazon

Jordi Gómez i Prat^[1], Paulo Morais^[2], Mercè Claret^[3], Pere Badia^[4], Romeo R. Fialho^[5], Pedro Albajar-Vinas^[6], Leopoldo Villegas^[7] and Carlos Ascaso^[8]

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[4]. Site supervisor EE.RR. IDOM, Barcelona, Spain.

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[6]. Department of Control of Neglected Tropical Diseases, World Health Organization, Geneva, Switzerland.

[7]. Freelance, Washington, USA.

[8]. Department of Public Health, University of Barcelona, Barcelona, Spain.

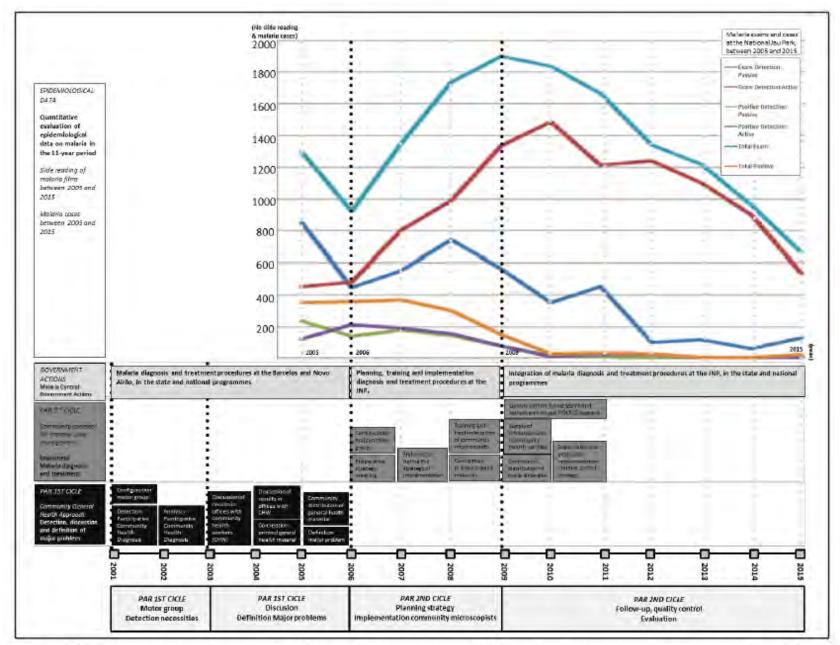


FIGURE 2: Timeline of project interventions at the Jaú National Park between 2001 and 2015, with epidemiological malaria data between 2005 and 2015.



GOPEN ACCESS

Citation: Gómez i Prat J, Peremiquel-Trillas P, Claveria Guiu I, Caro Mendivelso J, Choque E, de los Santos JJ, et al. (2020) Comparative evaluation of community interventions for the immigrant population of Latin American origin at risk for Chagas disease in the city of Barcelona. PLoS ONE 15(7): e0235466. https://doi.org/10.1371/journal.pone.0235466

Editor: Wen-Jun Tu, Chinese Academy of Medical Sciences and Peking Union Medical College, CHINA

Received: October 30, 2019

RESEARCH ARTICLE

Comparative evaluation of community interventions for the immigrant population of Latin American origin at risk for Chagas disease in the city of Barcelona

Jordi Gómez i Prat₀^{1,2}*, Paula Peremiquel-Trillas^{1,3,4}, Isabel Claveria Guiu^{1,2}, Johanna Caro Mendivelso¹, Estefa Choque^{1,2}, Juan José de los Santos⁵, Elena Sulleiro¹, Hakima Ouaarab Essadek¹, Pedro Albajar Viñas⁶, Carlos Ascaso Terren⁷

1 Drassanes—Vall d'Hebron International Health Unit, International Health Programme, Institut Català de la Salut, Barcelona, Spain, 2 Asociación de Amigos de las Personas con Enfermedad de Chagas (Association of Friends of Chagas Affected Patients)—ASAPECHA, Barcelona, Spain, 3 Preventive Medicine and Epidemiology Department, Vall d'Hebron University Hospital, Barcelona, Spain, 4 Unit of Molecular Epidemiology and Genetics in Infections and Cancer, IDIBELL, Catalan Institute of Oncology, L'Hospitalet de Llobregat, Barcelona, Spain, 5 Fundación Mundo Sano—España, Madrid, Spain, 6 Department of Control of Neglected Tropical Diseases, Cluster for Communicable Diseases, World Health Organization, Geneva, Switzerland, 7 Department of Public Health, University of Barcelona, Spain, August Pi i Sunyer Biomedical Research Institute (IDIBAPS), Barcelona, Spain

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Abstract

Introduction

Chagas disease presents bio-psycho-social and cultural determinants for infected patients, their family members, close friends, and society. For this reason, diagnosis and treatment require an active approach and an integral focus, so that we can prevent the disease from creating stigma and exclusion, as is actively promoting access to diagnosis, medical atten-

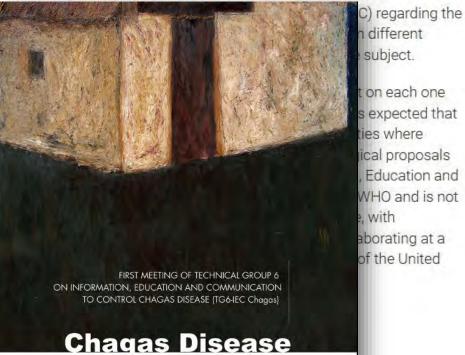


TG61EC

Technical Group 6 (WG6-IEC) is convened by the Chagas Disease Control Program, Department of Control of Neglected Tropical Diseases, WHO, to make technical

contributions in the problem of Chagas disciplines and geo

It's not centered or without me tell you the group will meet Chagas exists, eval to address in a con Communication (IE representative of its evaluations and ted global level on the in Nations.



World Health Organization

Kick-off Meeting

Programme on control of chagas disease innovative and intensified disease management unit, department of control of neglected tropical diseases.

Octubre 2017: Primera reunión del Grupo Técnico en la sede de la Organización Mundial de la Salud. Ginebra (Suiza)

"Insight and Impact Measurement"

is one of the Communications key roles and responsibilities

The Framework's 4 Basic Elements: IMPACT INPUTS **OUTPUTS** OUTCOMES The things you do The things you deliver The effects your activities The behavioral shifts caused by communication* have on audiences Advocacy/Campaigns Voice: Did you land your Understanding of a particular issue Financial and messages?" Stakeholder political support Trust/Reputation of the World Bank Reach: "Did you reach the right engagement Thought leadership Sector Leadership in a specific area audience?" Media/Social media Policy change/regulatory Influence on audience's opinions Engagement: "Did the right Events action or actions audience respond?

VALUE

COST

FINDECHAGAS.ORG

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Castellano

English

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Siguenos en redes sociales

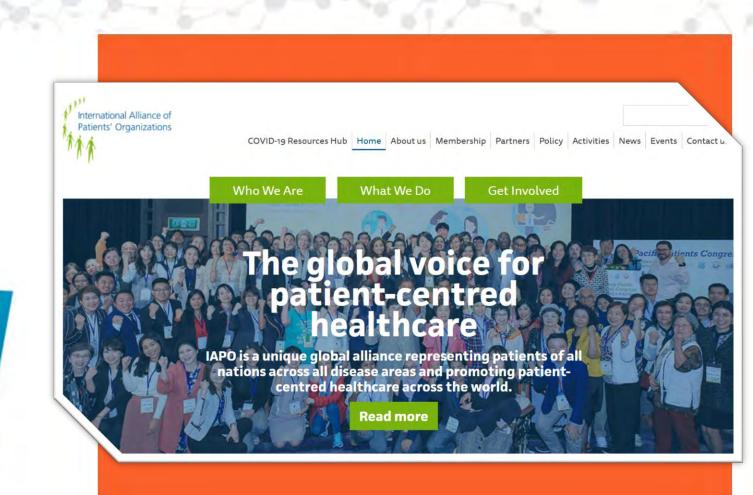






FINDECHAGAS

EL CAMINO PARA FORTALECER LA ACCIÓN COLECTIVA





ASSOCIATIONS OF PEOPLE AFFECTED BY CHAGAS DISEASE

ASIA

25. Asociación Nipona de Afectados de Chagas - ANACHA (Japan)

EUROPA

- 16. Asociación de Amigos de las Personas con la Enfermedad de Chagas - ASAPECHA Barcelona, Catalunya (Spain) *
- 17. Asociación de Chagas de la Comunidad Valenciana -ACHACOVA (Spain) *
- 18. Asociación de Amigos de las Personas con la Enfermedad de Chagas - ASAPECHAMUR (Spain) *
- 19. ILLIMANI (Spain) *
- 20. ACHAFRANC (France) *
- 21. Associazione Italiana per la Lotta alla Malattia di Chagas - AILMAC (Italy) *
- 22. ASWISSCHAGAS (Switzerland) *

NORTH AMERICA

- 13. Asociación Mexicana de Personas Afectadas por la Enfermedad de Chagas - AMEPACH (Mexico) *
- 15. Latin American Society of Chagas LASOCHA (USA) *

OCEANIA

23. Australian Chagas Disease Association (Australia)



* Miembros asamblearios de la Federacion Internacional de Asociaciones de Personas Afectadas por la Enfermedad de Chagas (FINDECHAGAS)

SOUTH AMERICA

- 1. Asociación Buenos Aires Sur Frente Al Chagas ASOBA (Argentina) *
- 2. Entre Ríos Unidos Frente Al Chagas (Argentina) *
- 28. Chagas disease aliance, Buenos Aires (Argentina)
- 3. Asociación De Afectados, Amigos Y Médicos Unidos Por El Chagas -ASSAMUCH (Santa Cruz, Bolivia) *
- 4. Asociación . Monteagudo (Bolivia) *
- 5. Corazones Unidos Por El Chagas (Aiquile, Bolivia)
- 6. Corazones Unidos Por El Chagas (Cochabamba, Bolivia) *
- 27. ACHABENI Trinidad-Beni (Bolivia)
- 7. Associação dos Chagásicos da Grande São Paulo ACHAGRASP (Brazil)
- 8. Associação dos portadores de doença de Chagas do Rio de Janeiro (Brazil) *
- 9. Associação dos Portadores de doença de Chagas, Insuficiência Cardíaca e Miocardiopatia de Pernambuco- APDCIM (Brazil) *
- 10. Associação dos portadores de doença Chagas de Campinas e região- ACCAMP (Brazil) *
- 11. Associacao Goiana Dos Portadores De Doencas De Chagas AGPDC (Brazil) *
- 24. Associação de Chagas da Bahia ACHABA (Brazil) *
- 12. ASOCHAGAS (Colombia) *
- 26. Fundación Ecuatoriana Nuevo Amanecer sin Chagas FENASCH (Ecuador)
- 14. Fundacion De Unichagas (Venezuela)

































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Neglected tropical diseases

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Diseases

Preventive chemotherapy and transmission control

Innovative and intensified disease management

Vector ecology and management

Neglected zoonotic diseases

Water, sanitation and hygiene

World Chagas Disease Day: raising awareness of neglected tropical diseases

24 May 2019 | Geneva — The 72nd World Health Assembly today approved the designation of a World Chagas Disease Day which aims, among others, to raise public awareness of this neglected tropical disease (NTD) that affects mainly poor people.



Further reading

- Chagas disease fact sheet

- Chagas disease website

"An annual day celebrated at global level is bound to attract international attention," said Dr Pedro Albajar Viñas, WHO Medical Officer (Chagas disease). "These days can help to provide visibility and commit countries to enhance control interventions for a disease that has remained largely neglected, but still present in many countries."

Chagas disease, also called American trypanosomiasis, has also been termed as a "silent and silenced disease", not only because of its slowly progressing clinical course but also because it affects mainly poor people who have no political voice or access to health care.

Juring the past decades, it has been increasingly detected

in the United States of America and Canada and in many European and some Western Pacific countries. cardiac and digestive alterations and become fatal.

WORLD CHAGAS DISEASE DAY LET'S MAKE CHAGAS DISEASE VISIBLE NOW

Campaign materials

Chagas disease is prevalent mainly among poor populations of continental Latin America and affects 6–7

million people

More



i D beatchagas.info/en/home/



BEATCHAGAS PLATFORM TECHNICAL GROUP IEC TOOLS ▼ PUBLICATIONS CONTRIBUTE Español English



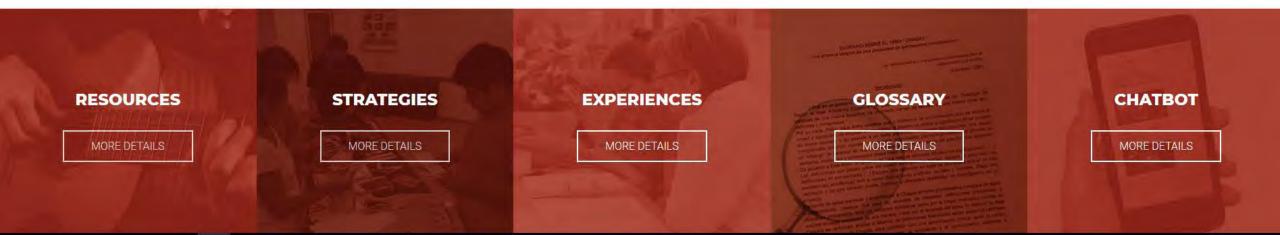


BEATCHAGAS PLATFORM

BeatChagas Platform is a tool used by the Technical Group on Information, Education and Communication (TG6IEC Chagas Disease) from WHO created to share information related with activities organized by this

It contains some news, Information, and Educactional and Communicative materials (IEO) in order to give support to the objectives themselves as well as to the execution of different activities proposed by the World Health Organization (WHO) in order to control and prevent Chagas Disease around the world and to share some other interesting information.

In 2017 the Technical Group 6 was created with information and training with some assistance provided by World Health Organization (TG6IEC Chagas Disease - WHO). It is composed by different researchers working on the psycho-social field.

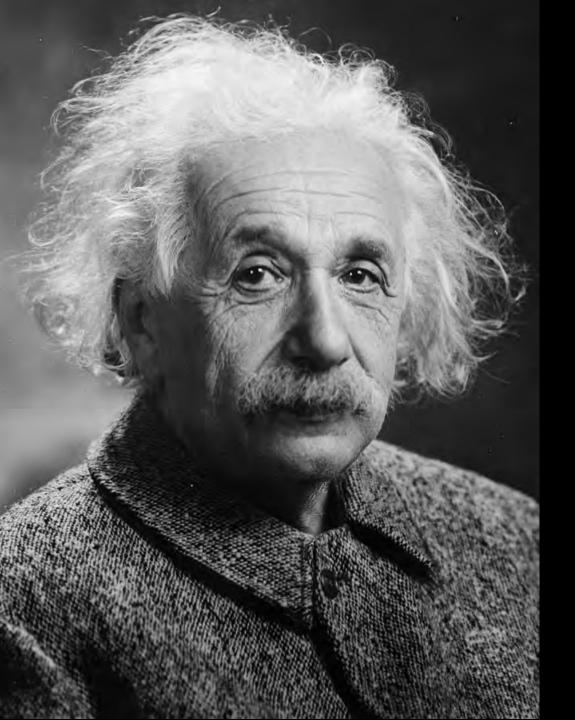


Thème proposé par Findechagas (https://findechagas.org/) pour la deuxième édition de la Journée mondiale de la maladie de Chagas, le 14 avril 2021

Appel à une prise de charge universelle et globale des personnes touchés par la maladie de Chagas

Commentaires:

- Le thème proposé pour cette année 2021 a été fortement conditionné par le contexte et les expériences vécues durant la pandémie actuelle de COVID-19.
- Le concept important d'accessibilité (équité) est inclus dans celui d'universalité.
- La notion de diagnostic d'infection et maladie est incluse dans celle de soins.
- Le concept d'intégralité comprend les trois niveaux de soins médicaux, les références et les contre-références nécessaires, ainsi que d'autres types de soins nécessaires et de prévention de la maladie.



« Étrange est notre situation ici sur Terre.

Nous venons chacun pour une brève visite, sans savoir pourquoi, mais semblant parfois deviner un but.

Du point de vue de la vie quotidienne, cependant, il y a une chose que nous savons : que l'homme est ici (à cause de) pour le bien des autres hommes »

Merci beaucoup pour votre attention!