RESPUESTA EN CLIMA Y AMBIENTE PARA LA SALUD EN LAS AMÉRICAS

Gestión del trabajo en equipos transdisciplinarios

Estudio de caso

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43 Lancet Countdown Partners around the world
Lancet Countdown Health & Climate Change
5 working groups of the Lancet Countdown Global and SA

- Climate Change Impacts, Exposures & Vulnerability
- Adaptation Planning & Resilience for Health
- Mitigation Actions & Health Co-Benefits
- Economics and Finance
- Public and Political Engagement
Votación en Zoom
Lancet Countdown South America: Health and Climate Change
We are one of the regional centers for the Lancet Global Countdown on Climate Change and Health. We have a mandate to promote and develop research at the regional level on the impact of climate change on health.
Objectives

Build Capacities
1. Coordinate collaboration with academic and research institutions within South America

Promote Research
2. Develop case studies (local or regional)
3. Develop indicators to be published in the global Lancet Countdown report
4. Develop a SA regional report that mirrors the Lancet Countdown Annual Report

Promote Communication
5. Expand country-level communications and policy engagement
Climate Change has a differentiated impact on health in South American populations.
Why is SA different?
1. Build on capacities

Peru: Universidad Peruana Cayetano Heredia
Costa Rica: Universidad de Costa Rica
Chile: Pontificia Universidad Catolica de Chile
Ecuador: San Francisco de Quito
Argentina: Universidad de Rosario
Colombia: Universidad de los Andes
Brasil: Universidad de Caxias do Sul
Uruguay: Inter-american Institute for Global Change Research
Workshop for the SA Conceptual Model

**Objetivo del proceso**

1. Generar un marco conceptual de cómo el Cambio Climático afecta la Salud Humana en Sudamérica.
2. Este marco conceptual guiará el trabajo y las publicaciones (actual y futuras) de LCSA

**Hoja de ruta del proceso**

- Generar un “scoping review”
- Desarrollar un borrador de marco conceptual (3 sesiones)
- Ajustar el marco conceptual en mira a los resultados del “scoping review” (3 sesiones)
- Validar el marco conceptual con expertos
Modelo Conceptual

Lanot Countdown South America - Cambio Climático y Salud
Increase in greenhouse gas emissions and reduction of the absorption

Grupos 1, 2, 3, 4, 5
How to integrate methodologies into indicators.
• Climate Change Impacts, Exposures & Vulnerability
• Adaptation Planning & Resilience for Health
• Mitigation Actions & Health Co-Benefits
• Economics and Finance
• Public and Political Engagement
1.1.2: Exposure of Vulnerable Populations to Heatwaves

Headline Finding:
Adults older than 65 years were affected by 3.1 billion more person-days of heatwave exposure in 2016-2020 than in the 1986–2005 average. Chile: 7 million, Peru: 8 million and for Costa Rica: ~800,000

>65 year old

<1 year old
Headline Finding:
Exposure to heatwave events worsens expressed sentiment, with a 155% increase in negative expressions on Twitter during heatwaves in 2020 from the 2015–19 average.
1.1.6: Heat-related Mortality

Headline Finding:
Heat-related deaths in people older than 65 reached a record high of an estimated 345000 deaths in 2019; between 2018 and 2019, all WHO regions, except for Europe, saw an increase in heat-related deaths in this vulnerable age group.
Headline Finding:
The monetised value of global heat-related mortality increased by 6.7%, from 0.27% of gross world product in 2018 to 0.28% in 2019; Europe continued to be the worst affected region, facing costs equivalent to the average income of 6.1 million of its citizens.
Headline Finding:

- 295 billion hours of potential work were lost due to extreme heat exposure in 2020, with 79% of all losses in countries with a low HDI occurring in the agricultural sector.
- 10.6 billion hours of potential work were lost in SA, 5 times more than in 2000. 85% were in the agricultural sector.
- In Perú, 253 million hours of potential work, 60% in the agricultural sector.
Headline Finding:
Working in conditions of extreme heat is a health risk; such conditions could reduce the capacity for paid labour, with an impact on workers’ earnings equivalent to 4–8% of GDP in the low HDI country group in 2020.

4.1.3: Loss of Earnings from Heat-Related Labour Capacity Reduction
Headline Finding:
Globally in 2020, 27% of urban centres were classified as being moderately green or above, an increase from 14% in 2010; the percentage of cities under this classification varied from 17% of urban centres in the low HDI country groups to 39% of urban centres in the very high HDI country group.
1.3.1: Climate Suitability for Infectious Disease Transmission

**Headline Finding:**
Globally, the potential for dengue transmission was 13% higher for A aegypti in 2020 than in 1950–54. In Peru, the environmental suitability for A aegypti transmission was 48% higher in 2016-20 than in 1950-54.
1.3.2: Vulnerability to Mosquito-Borne Diseases

Headline Finding:
Although vulnerability to arboviruses transmitted by *A. albopictus* and *A. aegypti* has decreased across all countries since 2000, people in countries in the low HDI group are still the most vulnerable on average.
Fórmula y fuentes

Vulnerabilidad = UP * HCAQ

HCAQ= 100 - % de muertes prevenibles

- UP: % de población urbana en escala de 1 a 100 (Fuente: World Bank, World Development Indicators.)

- HCAQ: % de acceso y calidad de la atención médica es escala de 1 a 100 (Fuente: Global Burden of Disease Collaborative Network. Global Burden of Disease Study 2019 (GBD 2019))
- Baseline
- Adaptation proposal
- Leadership/ accountability
- Financing
- Indicators of success
Communication and dissemination

Societal practice

- Societal problems
  - Relevant for everyday life
  - Actor specific

Actors-specific societal discourse

- Administration
- Institutions
- NGOs
- Corporations
- Politics
- Media

Results useful for societal practice

- Strategies
- Concepts
- Measures
- Prototypes

Transdisciplinary research process

- Problem framing, Team building
- Co-creation of solution-oriented transferable knowledge
- (Re-)Integration and application of created knowledge

- Phase 1
- Phase 2
- Phase 3

Scientific practice

- Scientific problems
  - Uncertainty
  - Lack of methods
  - Disciplinary specialisation
  - Generalisation

Scientific discourse

- Institutions of higher education
- Non-university research
- Industrial research

Results relevant for scientific practice

- Generic insights
- Methodological and theoretical innovations
- New research questions
Expandir las comunicaciones

Eventos de Lancet Countdown en el Mundo

- **Canada Policy Brief**
  - Launch: 22 de Octubre
- **UK Policy Brief**
  - Launch: TBA
- **Noruega Policy Brief**
  - Launch: 22 de Octubre
- **Alemania Policy Brief**
  - Launch: 28 de Octubre
- **USA Policy Brief**
  - Launch: 21 de Octubre
- **Colombia Policy Brief**
  - Launch: 9 de Noviembre
- **Costa Rica Policy Brief**
  - Launch: 23 de Noviembre
- **Europa Policy Brief**
  - Launch: 3 de Diciembre
- **Perú Policy Brief**
  - Launch: 27 de Octubre
- **Brasil Policy Brief**
  - Launch: 5 de Noviembre
- **Australia Policy Brie**
  - Launch: 21 de Octubre
- **Chile Policy Brief**
  - Launch: 28 de Octubre
- **India Policy Brief**
  - Launch: TBA

Encuentra tu informe político local y el evento de lanzamiento y únete a nosotros para explorar en un contexto local los impactos del cambio climáticos en nuestra salud

Únete a nosotros para el lanzamiento de los Policy Briefs de 2021
Si deseas asistir a alguno de los eventos, encontrarás más información aquí: https://bit.ly/3aTHPGZ

#LancetClimate21
Thank you

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THE LANCET

LANCET COUNTDOWN: HEALTH AND CLIMATE CHANGE IN SOUTH AMERICA