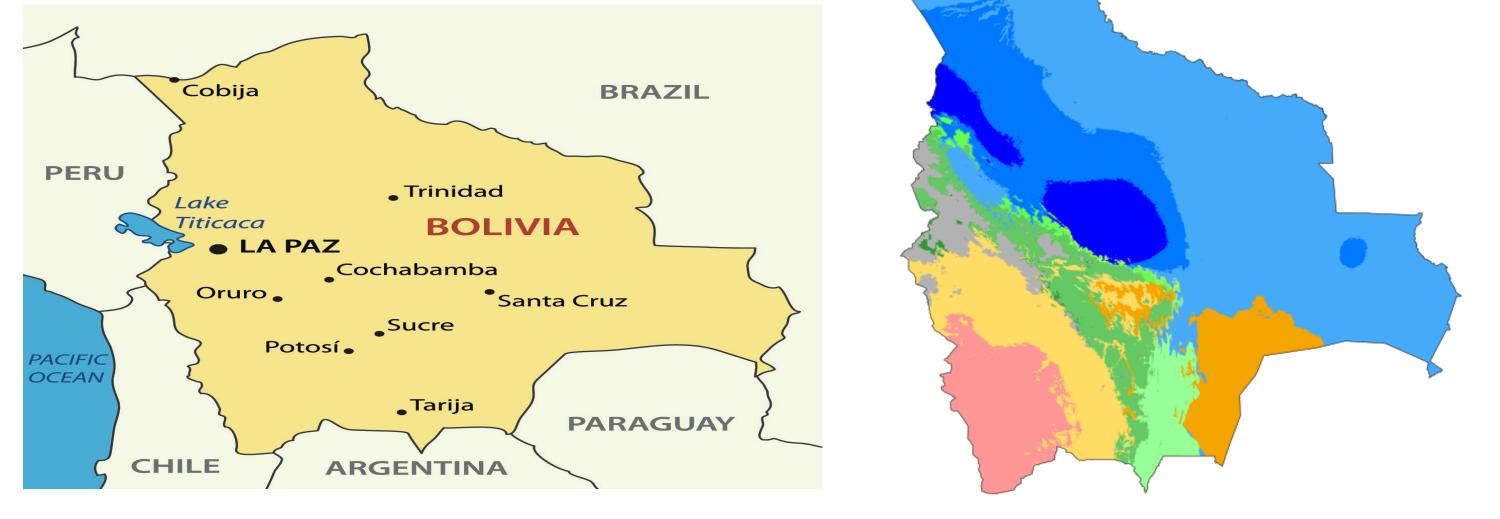


Children's Nutritional Health in Bolivia Cris Wright and Morgan Heinz

Bolivian Diversity

Bolivia Has:

- 424 square miles with 5 border countries
- a variable climate of tropical conditions in the east, polar in the Antiplano of the Western Andes, and semi-arid sub- \setminus tropical in the Chaco Plain
- 11 million people with about 50% native groups
- Main languages: Spanish, Guaraní, Aymara, Quechua



History and Economy

- Tiwanaku Empire 600 1000 AD
- Inca Empire 1438-1523
- 1523-1825 Colonized by Spain
- 1825 Republic
- 1982 Social Unitarian State, democracy
- Human Development Index: 0.718 Gross Nat. Income \$8,554.
- Gross National Product: \$40.56 in 2019, mainly minerals and gas
- Economy negatively affected by lack of private sector investment and competition with production in other nations
- 20 IMF arrangements since 1945 for poverty reduction, social equity, healthcare, education, and social services to rural and underserved urban populations.

Global Patterns of Young Child Mortality

Main global problems: respiratory infections and diarrhea

- diarrhea, lack of sanitation (Troeger et al. 2019)
- disability, iron-deficiency anemia (Kyu et al. 2016)

Köppen-Geiger climate classification map for Bolivia (1980–2016)

perate, dry winter, cold summer (Cwc Polar, frost (EF

Effects

Risk Factors

- Diarrhea highly associates with anemia

Nutritional Support

The Borgen Project (2014) nonprofit monitoring malnutrition and policy in US to counteract it abroad Action Against Hunger (2020) fundraising for hunger relief Inter-Development Bank [Internet]. (2013) loans for reaching development goals

Medical Support

Hospitals are only in the temperate cities of Bolivia.

- ✤ 5 in La Paz that is the capital city.

Lack of hospitals in the periphery regions and tropical areas.

Action Against Hunger 2020. [cited 2021 May 26]. Available from: https://www.actionagainsthunger.org The Borgen Project [Internet]. 2014 November 26. Tacoma, WA. Combatting malnutrition in Bolivia. [cited 2021 May 26]. Available from: https://borgenproject.org/combatting-malnutrition-bolivia/ Celhay P. et al. 2020. Measuring socioeconomic gaps in nutrition and early child development in Bolivia. International Journal for Equity in Health. 19(1):122-148. DOI: 10.1186/s12939-020-01197-1 Cordero D et al. 2019. Anemia in Bolivian children: A comparative analysis among three regions of different altitudes. Ann N Y Acad Sci. 1450(1): 281-290. DOI: 10.1111/nyas.14038 Frost MB. 2005. Maternal education and child nutritional status in Bolivia: Finding the links. Social Science & Medicine. 60(2): 395-407. DOI: 10.1016/j.socscimed.2004.05.010 Inter-Development Bank [Internet]. 2013 March 4 News. Washington, DC. Finding ways to change eating habits in Bolivia. [cited 2021 May 26]. Available from: https://www.iadb.org/en/news/webstories/2013-03-04/bolivia-fights-malnutrition%2C10320.html Kyu HH et al. 2016. Global and national burden of diseases and injuries among children and adolescents between 1990 and 2013: Findings from Global Burden of Disease 2013 study. [cited 2021 May 25]. Available from: http://www.healthdata.org/research-article/global-and-national-burden-diseases-and-injuries-among-children-and-adolescents Lipus AC et al. 2018. "It is not natural anymore": Nutrition, urbanization, and Indigenous identity on Bolivia's Andean Plateau. Qual Health Res. 28(11):1802-1812. DOI: 10.1177/1049732318761862 Miranda M et al. 2020. Malnutrition in all its forms and socioeconomic status in Bolivia. Public Health Nutr. 23(S1):s21-s28. DOI: 10.1017/S1368980019003896. Troeger C. et al. 2019. Quantifying risks and interventions that have affected the burden of diarrhoea among children younger than 5 years: an analysis of the Global Burden of Disease Study 2017. The Lancet Infectious Diseases. [cited 2021 May 25]. Available from: http://www.healthdata.org/research-article/quantifying-risks-and-interventions-have-affected-burden-diarrhea-among-children UNICEF. 2021. Malnutrition data. [cited 2021 May 26]. Available from: https://data.unicef.org/topic/nutrition/malnutrition/#

Wikipedia 2021. Bolivia and the International Monetary Fund. Accessed [cited 2021 June 2]. Available from: https://en.wikipedia.org/wiki/Bolivia_and_the_International_Monetary_Fund

Malnutrition of Children in Bolivia

Under- age five mortality in Bolivia was 26 per 1000 children in 2019 ((UNICEF 2021) 12.7% Bolivian children stunted in 2020 (UNICEF 2021)

! Low SES >40% anemia, >30% stunted (Miranda et al. 2020)

Maternal risk factors: low formal education, anemia

Indigenous-language fluency and culture (Cordero et al. 2019; Frost 2005)

Indigenous identity and mountain location risks (Lipus et al. 2018)

Initiatives for Relief of Malnutrition

◆ 10 in Santa Cruz is the largest department (state) with many types of businesses: agriculture, animal husbandry, forestry, mining. It is the financial center of Bolivia with the most foreign investment. ◆ 2 in Cochabamba that has the oil industry.

WORKS CITED

