

Why are Prosthetics in Latin America Underrepresented?

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INTRODUCTION



Technology has improved all throughout the years, technology which is the use of science is used for practical purposes in everyday life. Prosthesis falls under the category of technology because it involves the use of everyday mobility in order for everyone to live their everyday life. Despite the observations in prosthesis in Latin America it remains unclear why other countries are not receiving the same technological support.My research investigates that Latin America does not receive the same support because of many global issues and personal issues that are very common as stated in but these are just surface issues. Digging deeper the technology advancement in these Latin American countries do not have the materials needed to build these everyday life purpose prosthesis.

METHODS

The methods I used were databases such as google scholar, peer reviewed journals and taking advantage of the Wayne State library online with all the databases. Also by using website provided by pur professor. These are some keywords I used to condense my article results.

Key Words

- Prosthetics
- Latin America
- Technology
- Market
- Engineering

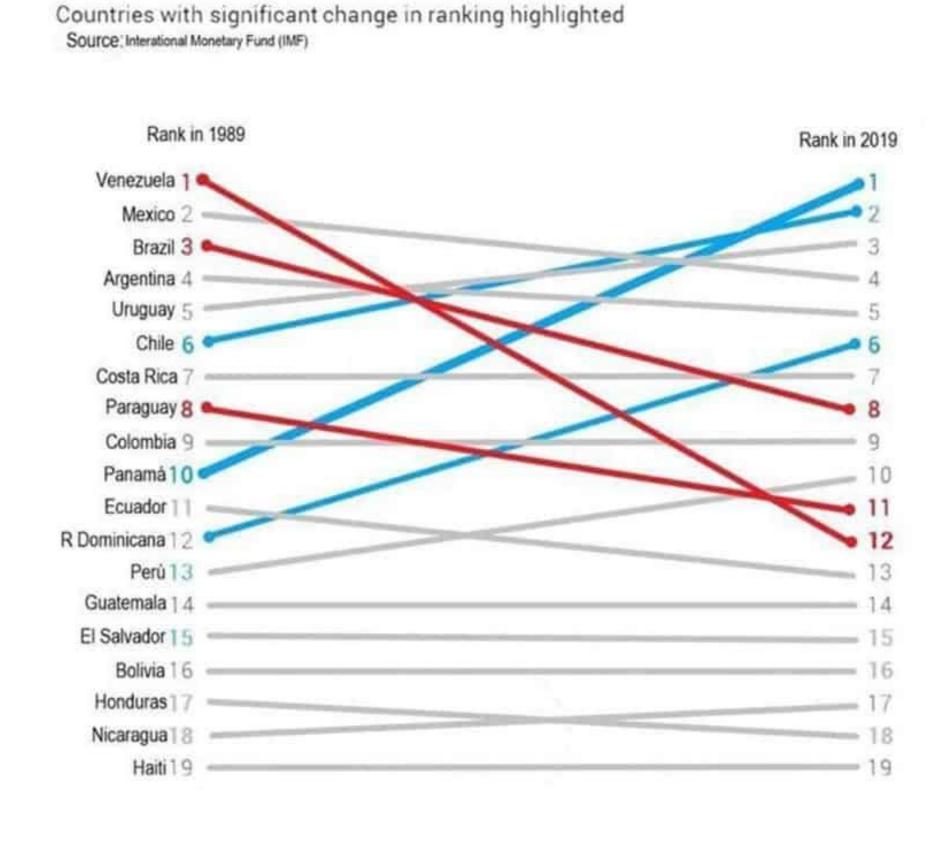


RESULTS

Prosthetics are essential to people with physical restrictions and health issues. With advanced technology not everyone is accessible but the demand is high. America has way more doctors and money for people to afford these prosthetics but why not Latin America? What is holding them back?

The first image represents how low the number of prosthetics are available to Latin America compared to other countries.

The second image to the right shows how some Latin America countries are ranked based off of their economic standings.



LatinoAmerican countries ranked by GDP (PPP) per capita: 1989 & 2019

In thie article,"Latin America and the Caribbean "professionals talk about how robotics with prosthetics has been growing and has been changing throughout the years with technology growing. It shows the different categories of how the report is separated into five parts: Technology, products, countries, application, and end users. It also talks about how the US prosthetic market is worth way more money than Latin America by a large gap in numbers. In this case professionals say when individuals go find resources they don't know anyone or they do not have the money to afford the proper procedure/ treatments it involves. Also, one may think that there are prosthetic laboratories all around but the main ones are in large cities which make it difficult for people to go and travel this makes it hard for people to access the resources they need to get physical therapy and treatment.

CONCLUSIONS

The prosthetic industry continues to grow in the United States, where we see that other places like Latin America are lacking the resources everyone needs to receive the proper care and surgery for prosthetics, a technology assembled artificial body part. This is a major gap in the medical field because we see more latin american communities population decreasing as well as the economy. In the map below it shows the countries ranked based off of their economy in 1989 and now in 2019. In the future more research that include doctors traveling to Latin American countries need to be done.

References

- 1. Aetna. "Health Care Quality in the Americas: Brazil, Argentina and Mexico." Aetna International, www.aetnainternational.com/en/about-us/explore/living-abroad/culture-lifestyle/health-ca
 - plore/living-abroad/culture-lifestyle/health-ca re-quality-in-the-americas.html.
- 2. Herberts, P., and L. Körner. "Ideas on Sensory Feedback in Hand Prostheses P. Herberts, L. Körner, 1979." SAGE Journals, 1 Jan. 1978, journals.sagepub.com/doi/10.3109/0309364 7909103104.
- 3. Landsberg, Alison. Prosthetic Memory: the Transformation of American Remembrance in the Age of Mass Culture. Columbia University Press, 2006.https://cup.columbia.edu/book/prosthetic-memory/9780231129275
- 4. Itd, Market Data Forecast. "Latin America Robotic Prosthetics Market Analysis Report 2019-2024: Mexico, Brazil, Argentina, Chile." Market Data Forecast, Latin America Robotic Prosthetics Market, 2019, www.marketdataforecast.com/market-report s/la-robotic-prosthetics-market.
- 5. Lucas, Jim. "What Is Biomedical Engineering?" LiveScience, Purch, 25 Sept. 2014, www.livescience.com/48001-biomedical-eng

ineering.html.

ica_carribean/en/.

6. Organization, World Health. "Latin America and the Caribbean." World Health Organization, World Health Organization, 9 Dec. 2010, www.who.int/management/country/latinamer

References part 2

Pan American Health Organization. "Prosthetics and Orthotics in Latin America: O&P Virtual Library." Prosthetics and Orthotics in Latin America | O&P Virtual Library,1979, www.oandplibrary.org/poi/1979_03_155.asp.