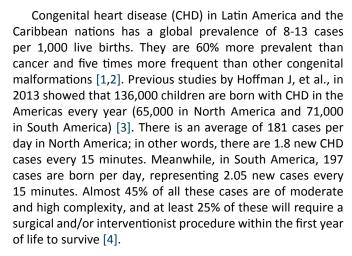
Editorial DOI: 10.36959/856/542

Adults with Congenital Heart Disease in South America: Where Are We Today and What Will the Immediate Future Look Like?

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Unfortunately for Latin American and Caribbean countries, especially those with low income, only 8% are able to access specialized CHD cardiology services in time, leaving a large number without coverage or timely access to cardiovascular healthcare systems, thus increasing infant mortality.

Every year, 15 million children around the world die or become seriously ill due to CHD. Interpreted differently, on average, one child dies from CHD every two seconds, and more than 90% of these deaths occur in low and middle-income countries (including Latin American and Caribbean countries) [5,6]. Despite this bleak regional picture, more than 85% of the children who do have timely access to specialized care manage to survive and reach adulthood. Of the others (those with late access), at least 50% survive and reach adulthood. Ultimately, all these children with repaired CHDs will become the new population of postoperative CHD adults. However, unlike industrialized countries, our population's phenotype is much sicker or has a higher burden of morbidity. This is due to late access to surgical repair in infancy, resulting in many of these children having serious hemodynamic sequelae that add morbidity in adulthood.

The estimated number of adults with CHD (ACHDs) to date is more than 1.8 million in South America and 657,000 in Central America and the Caribbean, and is expected to

grow 5-6% per year. In developed countries, the number of ACHDs has already surpassed the number of children with CHD. In the United States today, there are 2.2 million ACHDs compared to 1 million children with CHD [7].

Currently in our region, the number of children with CHD continues to be greater than the number of ACHDs (2.3 vs. 1.8 million, respectively, in South America) (Figure 1).

However, thanks to the improved survival of children with CHD and the centralization and improved ACHD care in our region, it is estimated that the number of ACHDs will equal the number of children with CHDs by 2030 (if the growth in children remains constant). Even more surprising is the estimate that between 2030 and 2040 the number of ACHDs could surpass that of children with CHDs, showing a similar behavior to that of developed countries (Figure 2).

In summary, the increase in ACHD is a challenge for all countries. With the expected immediate growth of the number of ACHDs in the region, healthcare policies must be implemented aimed at responding to the needs of the region's patients.

Conflicts of Interest

I have no conflicts of interest to declare.

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Accepted: January 02, 2024

Published online: January 04, 2024

Citation: Araujo JJ (2024) Adults with Congenital Heart Disease in South America: Where Are We Today and What Will the Immediate Future Look Like?. Ann Public Health Reports 8(1):328-331

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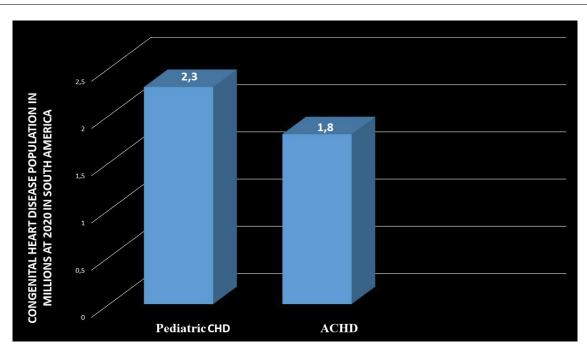


Figure 1: Current population of children and adults with congenital heart disease in South America for the year 2020. Pediatric population living with CHD 2.3 millions. Adult population living with CHD 1.8 millions.

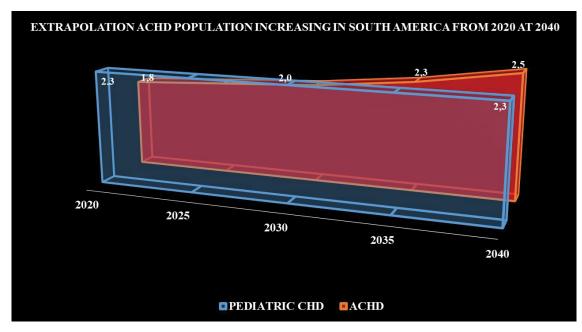


Figure 2: Projected growth of the adult population with congenital heart disease, from 2020 to 2040 in South America. The pediatric population with CHD is shown in transparent blue, if its growth remained constant through the time. In red color, the current ACHD population is observed with an annual growth of 5-6%, its number could be similar to the pediatric population in 2030, and between 2035 to 2040, The number of ACHD could exceed the number of children with CHD.

Funding

None.

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DOI: 10.36959/856/542

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