



## **Historical series of the number of organ, tissue and cell transplants performed in the Northeast Region from 2012 to 2021: A comparative study**

### **Série histórica do número de transplantes de órgãos, tecidos e células realizados na Região Nordeste nos anos de 2012 a 2021: Um estudo comparativo**

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#### **ABSTRACT**

In recent decades, transplants have had a profound impact on the care of end-stage patients with various types of diseases. Organ, tissue and cell transplants are medical procedures that involve replacing damaged organs, tissues or cells with healthy ones from a donor.

**Keywords:** Organ, Transplants, Ministry of Health.

#### **RESUMO**

Nas décadas recentes, os transplantes tiveram um profundo impacto no cuidado dos pacientes em estágio final de diversos tipos de doenças. Os transplantes de órgãos, tecidos e células são procedimentos médicos que envolvem a substituição de órgãos danificados, tecidos ou células por outros saudáveis, provenientes de um doador.

**Palavras-chave:** Órgãos, Transplantes, Ministério da Saúde.

#### **1 INTRODUCTION**

In recent decades, transplants have had a profound impact on the care of end-stage patients with various types of diseases. Organ, tissue and cell transplants are medical procedures that involve replacing damaged organs, tissues or cells with healthy ones from a donor. These transplants aim to restore function and improve the quality of life of people suffering from chronic diseases, severe injuries or dysfunctions in certain organs or tissues. In Brazil, public policies related to people in need of transplantation lack physical infrastructure, logistics, dissemination, and specialized teams in transplants of the most varied types. With all the deficiencies, Brazil today has the largest public transplant system in the world, in which about 95% of procedures and surgeries are performed with public resources. The Northeast Region is annually among the regions that perform the most organ transplants in the country, with successive records and the second region of the country with the highest number of organ, tissue and cell transplants, registered in the National Transplant System of the Ministry of Health.



## **2 OBJECTIVE**

Conduct a comparative study of the number of organ, tissue and cell transplants performed in the Northeastern States, according to the Ministry of Health report in the years 2012 to 2021.

## **3 METHODOLOGY**

This is a retrospective comparative epidemiological study of the number of organ, tissue and cell transplants from 2012 to 2021 performed in the Northeast Region, obtained from the Ministry of Health website by the National Transplant System.

## **4 DEVELOPMENT**

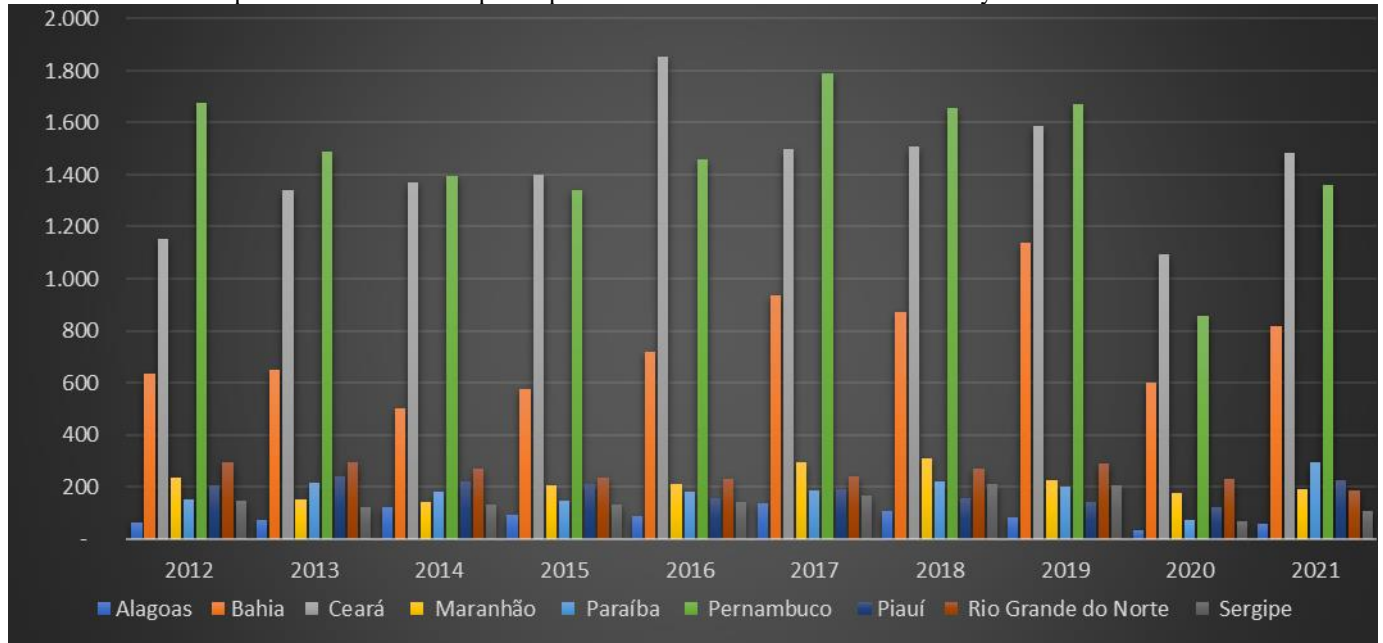
Based on the analysis of the Report of Transplants Performed, of the National Transplant System of the Ministry of Health for the period 2012 to 2021, we can confirm that the Northeast represents the second region of the country with the highest number of organ, tissue and cell transplant procedures in Brazil, with 47,090 thousand procedures of the general total in the analyzed period.

Among the organs, kidney transplantation is the most performed in Brazil, with more than 54,837 thousand procedures from 2012 to 2021. Following are liver (19,484 thousand) and heart (3,276 thousand). Cornea transplantation accounts for more than 137,020 thousand procedures in the ten years from 2012-2021.

With these data and from all regions of the country, the information in its entirety can contribute a lot to analyze the scenario of organ donation in Brazil. The Ministry of Health through the Secretary of Specialized Health Care explains that this is due to the difference between the number of people waiting for an organ for transplantation and the number of procedures performed by the number of people willing to donate, which significantly increases the chances of those waiting for an organ to be contemplated.



Graph 1: Number of Transplants performed in the Northeast States in the years 2012 to 2021.



Source: author.

## 5 FINAL CONSIDERATIONS

Therefore, according to the Public Policies of the Ministry of Health, Brazil has grown in absolute numbers of organ, tissue and cell transplant procedures, has invested more in physical structuring, logistics, disclosures and professionals to carry them out.



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