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REGIONAL DIFFERENCES OF BREAST CANCER RECONSTRUCTIVE SURGERIES AMONG BRAZIL'S PUBLIC HEALTHCARE USERS: A 10 YEAR STUDY

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Objective: Analyze the temporal evolution of the breast reconstructions made on breast cancer patients treated by the Brazilian National Health System (*Sistema Único de Saúde* – SUS) between 2008 and 2017, as well as evaluate the differences of surgical treatment in Brazil's regions. **Methodology:** Descriptive time-series study of breast cancer reconstructions, according to the population-based database on hospital information (DATASUS/SIH), all data of breast reconstruction, with prosthesis or myocutaneous flaps. The absolute number of procedures was analyzed with Poisson regression, using Jointpoint Regression program and for the Annual Percentual Change (APC) was acquired for the trend, with a confidence interval of 95% and statistical significance when $p < 0.05$. A linearity test was used to assess the differences among Brazil's regions. **Results:** During the period studied, nearly 254,000 breast cancer surgeries were performed, with 9,838 myocutaneous flaps reconstructions and 14,222 with silicone prosthesis. We found an increasing trend of myocutaneous flap in the Southeast (APC 12,34), Midwest (APC 26,56), Northeast (APC 26,42), and South from 2012-2017 (APC 32,44) and stabilization in the North. Regarding silicone prosthesis reconstruction, we found an increasing trend in the North (APC 20,18) and Southeast from 2008–2014 (APC 5,08), and Midwest (APC 4,88), with stabilization in the Southeast during 2014–2017, Northeast and South regions. **Conclusions:** During the period analyzed, we found an increase of breast reconstructive surgeries in Brazil and in its regions. However, there were some differences among those regions, not only at the total number of surgeries but also as the type of surgery performed.