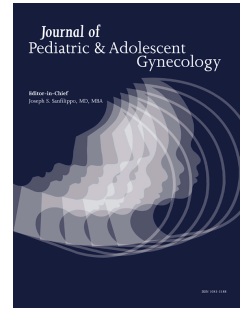


# Accepted Manuscript

Surgical Treatment of Adolescent Breast Disorders: Institutional Experience and National Trends

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**Abstract**

**Study Objective:** Adolescent breast disorders are rare and typically benign in nature; however, surgical treatments may require multiple operations. Due to the limited existing data, we sought to evaluate national trends and describe our institutional experience to help guide patient conversations.

**Design:** Retrospective review

**Setting:** National database and academic institution

**Participants:** Patients  $\leq 20$  years old who underwent a breast procedure in the Kids' Inpatient Database (KID) 1/2000-12/2012 and at Mayo Clinic-Rochester 1/2000-7/2016. Conditions were categorized into common and complex breast disorders.

**Interventions:** None

**Main Outcome Measures:** To assess any trend of adolescent breast procedures across the United States as a whole, weighted KID data were assessed using a Rao-Scott Chi-Squared test. Within the institutional data, the average numbers of procedures needed to correct common versus complex breast disorders were compared using an unequal variance t-test.

**Results:** In recent years, the estimated number of hospitalizations for breast procedures decreased in the United States from 1661 in 2000 to 1078 in 2012,  $p < 0.001$ . At our institution, 241 patients underwent a breast procedure (75.1% female) over 16 years. Common breast disorders were corrected with fewer procedures than complex breast disorders (mean 1.09 versus 2.22 procedures,  $p = 0.0003$ ).

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