The Australian Breast Device Registry (ABDR) is a clinical quality registry for breast devices - implants, tissue expanders and acellular dermal matrices (ADM)/mesh. The ABDR aims to identify and report possible trends and complications associated with breast device surgery; track the long-term safety and performance of breast devices; identify best surgical practice; and optimal patient health outcomes. This report does not represent national coverage.

Recruitment 2012 - 2016

- **13,019 patients**
- **Opt out rate <1%**
- **338 participating surgeons**
- **216 healthcare sites**

Procedures captured

- **Total procedures 14,303**
- **85% bilateral procedures**
- **15% unilateral procedures**
- **Breast level procedures 26,505***

Reason for procedures

<table>
<thead>
<tr>
<th>Reason</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cosmetic</td>
<td>72%</td>
</tr>
<tr>
<td>Breast Reconstruction</td>
<td>21%</td>
</tr>
<tr>
<td>Developmental Deformity</td>
<td>3%</td>
</tr>
<tr>
<td>Not stated</td>
<td>4%</td>
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</tbody>
</table>

*primary and revision procedures

** Median age by reason for the procedure**

- 72% Cosmetic: 33 years
- 21% Breast Reconstruction: 50 years
- 3% Developmental Deformity: 26 years
- Not stated: 4%
From 2012 to 2016, there were 5076 breasts with breast implant revisions captured by the ABDR with no record of the initial (primary) insertion of the implanted device. Reasons for this may include that the initial (primary) procedure occurred prior to commencement of the ABDR, before the site joined the registry or overseas. The starting point of the breast implant journey for this cohort is therefore unknown, and these breasts are categorised as legacy implant breasts.

From this cohort of legacy implant breasts, 96% had one implant revision procedure captured by the ABDR, and 4% had multiple implant revisions captured.

Device types (n=19,757)
- 9% tissue expanders
  - 22% with ADM*
- 91% implants
  - 2% with ADM*

Implant shell (n=18,050)
- 6% polyurethane**
- 19% smooth
- 75% textured

Implant shape (n=18,050)
- 44% anatomical**
- 56% round

Implant fill (n=18,050)
- 1% saline^**
- 99% silicone

*acellular dermal matrices or similar
**includes 9 not stated
^includes 13 silicone/saline implants and 9 not stated

**Primary** refers to when the initial insertion of the device was captured by the ABDR

Procedures by primary implant breasts (n=17,987 individual breasts)
- 17,595 (97.8%) Implant inserted & insitu (no revision recorded)
- 369 (2.1%) Insertion & 1 revision
- 18 (0.1%) Insertion & 2 revisions
- 5 (0.0%) Insertion & 3 revisions

Types of implant revisions recorded for primary implant breasts** (n=420)
- 339 Replacement
- 31 Explant
- 16 Reposition
- Not stated

Cumulative revision incidence rates between primary breast implant and the first implant revision (390 breasts revised)*

Issues identified at revision of primary implant breast^ (n=420)
- Device Malposition (n=137)
- Capsular Contracture (n=116)
- Deep Wound Infection (n=27)
- Seroma/Haematoma (n=26)
- Skin Scarring (n=16)
- Device Rupture (n=7)
- Device Deflation (n=5)
- Breast Cancer (n=1)
- Anaplastic Large Cell Lymphoma (ALCL) (n=1)

* has not been risk-adjusted and excludes breasts where reason for procedure was not stated

^multiple issues may be recorded at one revision procedure

Legacy implant procedures

From 2012 to 2016, there were 5076 breasts with breast implant revisions captured by the ABDR with no record of the initial (primary) insertion of the implanted device. Reasons for this may include that the initial (primary) procedure occurred prior to commencement of the ABDR, before the site joined the registry or overseas. The starting point of the breast implant journey for this cohort is therefore unknown, and these breasts are categorised as legacy implant breasts. From this cohort of legacy implant breasts, 96% had one implant revision procedure captured by the ABDR, and 4% had multiple implant revisions captured. The entire ABDR 2016 report is available at www.abdr.org.au/publications/