

Evaluation of prepectoral implant placement and complete coverage with TiLOOP® Bra mesh for breast reconstruction: a prospective study on long term and patient reported BREAST-Q outcomes

▶ Casella D., Di Taranto G., Marcasciano M., Sordi S., Kothari A., Kovacs T., Lo Torto F., Cigna E., Calabrese C., Ribuffo D.
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Method

Between January 2012 and March 2015, 179 patients were enrolled in this prospective study. Patients underwent mastectomy and immediate pre-pectoral breast reconstruction with the titanium-coated mesh TiLOOP® Bra.

Primary endpoint

- ▶ Quality of life of patients 2 years postoperatively and the comparison to preoperative assessment measured by BREAST-Q questionnaire

Secondary endpoints

- ▶ Peri- and postoperative complications
- ▶ Aesthetic outcome
- ▶ Capsular contracture rate evaluated by Baker scale
- ▶ Oncological outcome

Exclusion criteria: BMI > 35, breast size > C cup, pregnancy

The mean follow-up was 38.5 months.

Quality of life

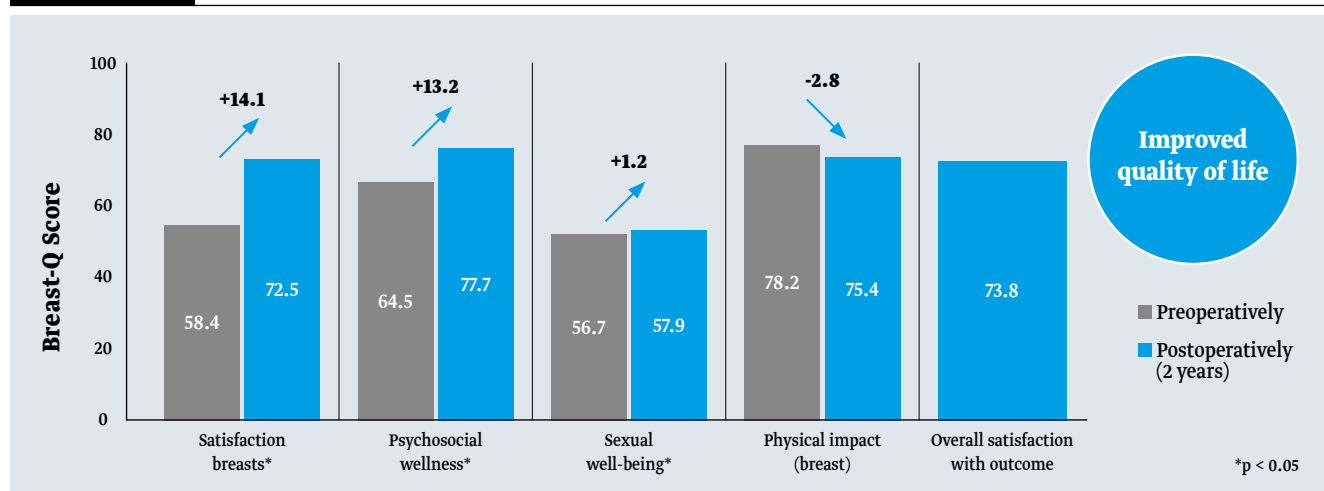


Fig. 1: Quality of life of the patients measured by BREAST-Q questionnaire; comparison of the preoperative and postoperative evaluation (mean values); the higher the score, the higher the quality of life (score scale from 0 - 100 points)

Capsular contracture rate according to Baker

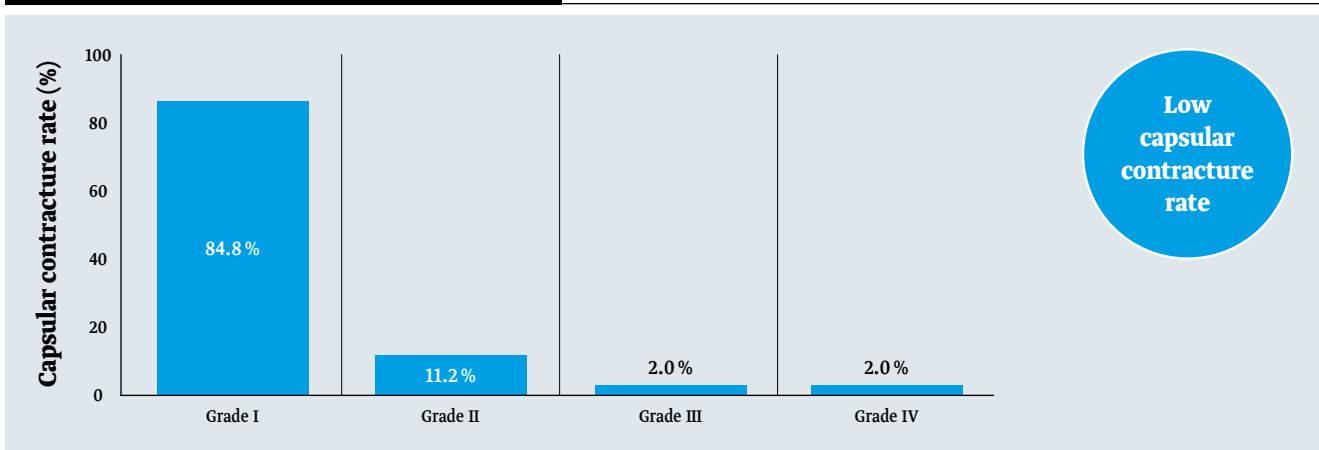


Fig. 2: Capsular contracture rate evaluated by Baker scale, 2 years postoperatively

Results

- ▶ From a total of 179 patients included in the study, 71 patients underwent bilateral surgery and 108 patients unilateral surgery.
- ▶ Accordingly, a total of 250 mastectomies were performed, of which 136 (54.4%) were nipple-sparing mastectomies (NSM) and 114 (45.6%) skin-sparing mastectomies (SSM).
- ▶ Of the 250 mastectomies performed, 6 cases (2.4%) showed complications requiring a re-operation. Types of complications: two necroses of the nipple / skin (0.8%), two infections (0.8%), one wound dehiscence (0.4%) and one haematoma (0.4%).
- ▶ Implant losses with following sub-pectoral placement of an expander were reported in 3 cases (1.2%).
- ▶ The overall postoperative aesthetic outcome was evaluated on a 10-point scale and achieved an average of 8.7 out of 10 points (1 = very poor result, 10 = very good result).

Conclusion

The pre-pectoral primary breast reconstruction with the titanized mesh TiLOOP® Bra increases the quality of life of the patients, leads to a very high patient satisfaction as well as very good aesthetic results and a low complication rate. The results confirm that the muscle-sparing pre-pectoral technique can be a valid alternative to traditional sub-pectoral breast reconstruction.

References

Further information:
www.pfmmedical.com/meshimplants-professionals

PubMed:
www.ncbi.nlm.nih.gov/pubmed/30303929



Contact

Should you have any questions our Regulatory and Clinical Affairs Team will be glad to assist you.

✉ pms@pfmmedical.com ☎ +49 (0)2236 9641-99 272

pfm medical ag
 Wankelstraße 60
 50996 Köln, Germany

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