STANDARDIZATION OF ONCOPLASTIC BREAST SURGERY

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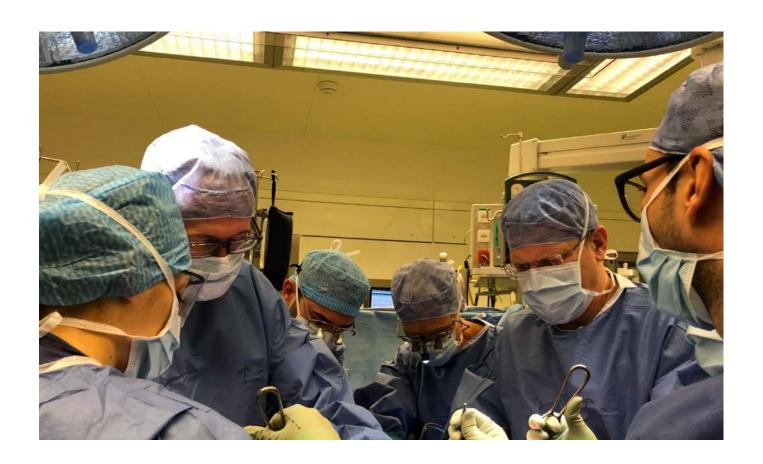




MSKCC breast service



Basel oncoplastic surgery team



Oncoplastic surgery

 Can oncoplastic breast conserving surgery (OPS) be considered an evidence-based standard?
 Weber WP, et al. Breast. 2017 Aug;34:78-81.

- 2. How can OPS be standardized?

 Weber WP, et al. Eur J Surg Oncol. 2017 Jul;43(7):1236-1243.
- 3. What are current OPS standards?

 Weber WP, et al. Breast Cancer Res Treat. 2017 Aug;165(1):139-149

Oncologic safety of OPS

- No randomized controlled trials
- Review of oncologic outcomes after OPS¹
 - 55 studies, 6011 patients, 4.2 y follow-up
 - OS 95%, DFS 90%
 - Local recurrence rate 3.2%
 - Positive margin rate 10.8%, re-excision rate 6%

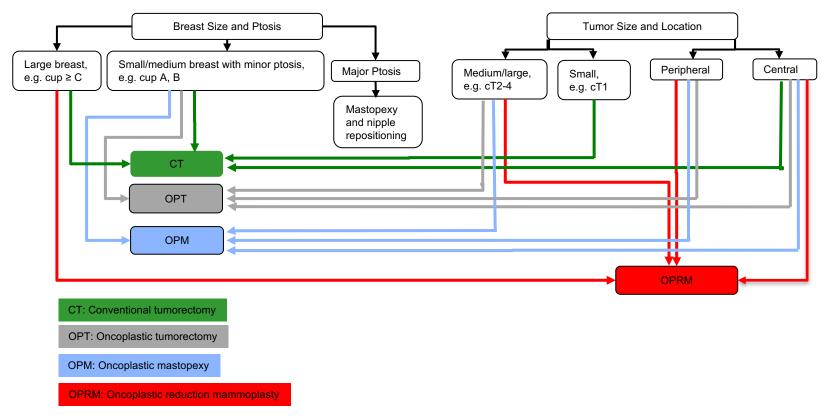
Complications of OPS → escalation of surgery

- Review of 11 prospective studies, 998 patients¹
 - Early complication rate around 20%
 - Delayed wound healing, surgical site infection, seroma
- Surgical antimicrobial prophylaxis within one hour before surgery²

¹Haloua MH, et al. Ann Surg. 2013 Apr;257(4):609-20.

²Weber WP, et al. Lancet Infect Dis. 2017 Jun;17(6):605-614.

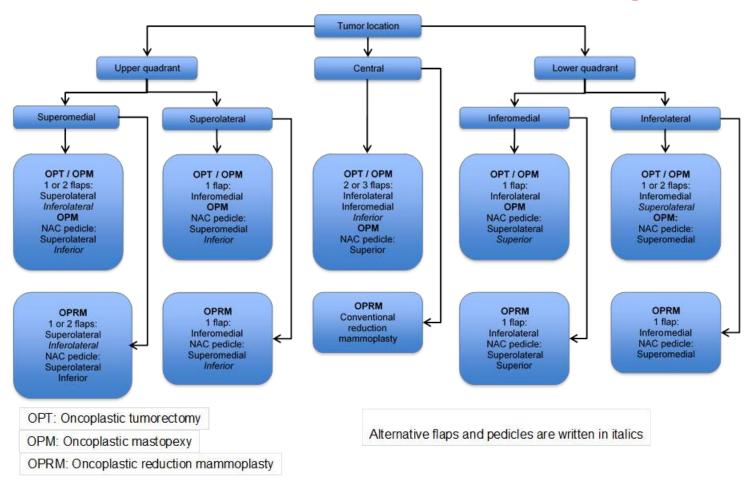
Standardization of OPS Basel indication algorithm



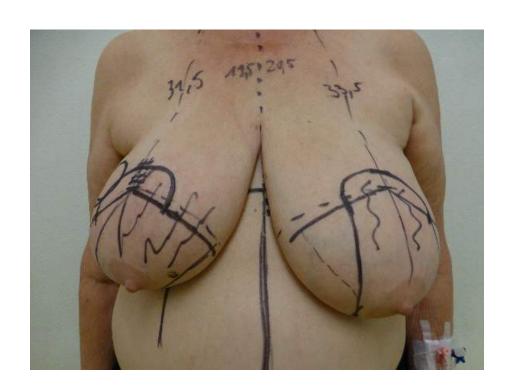
Cup = Bra size; cT = American Joint Committee on Cancer clinical tumor stage

Weber WP, Haug M, et al. Eur J Surg Oncol. 2017 Jul;43(7):1236-1243.

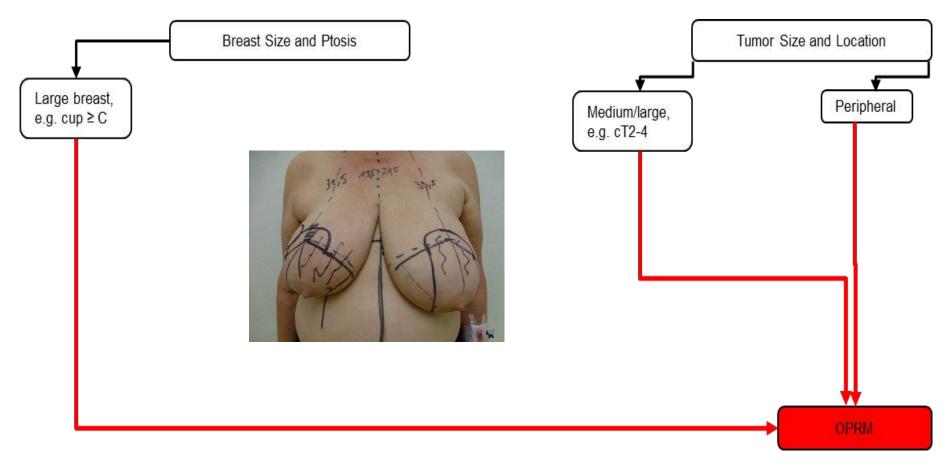
Standardization of OPS Basel partial breast reconstruction algorithm



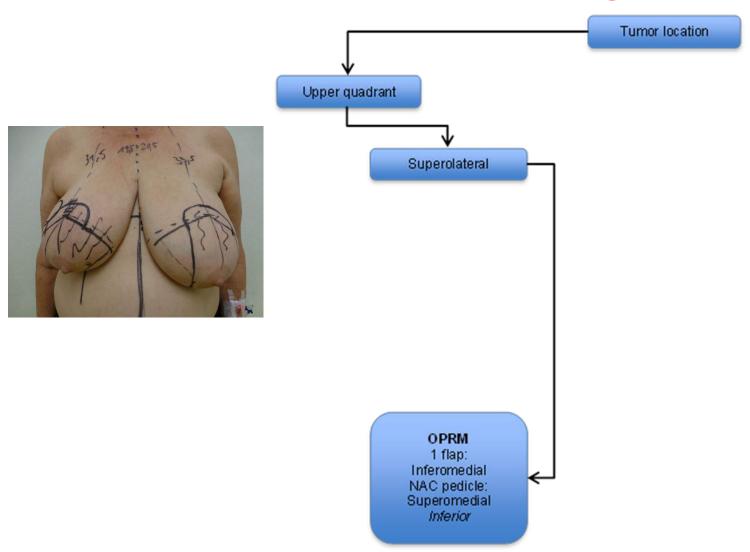
How are these alogorithms used?



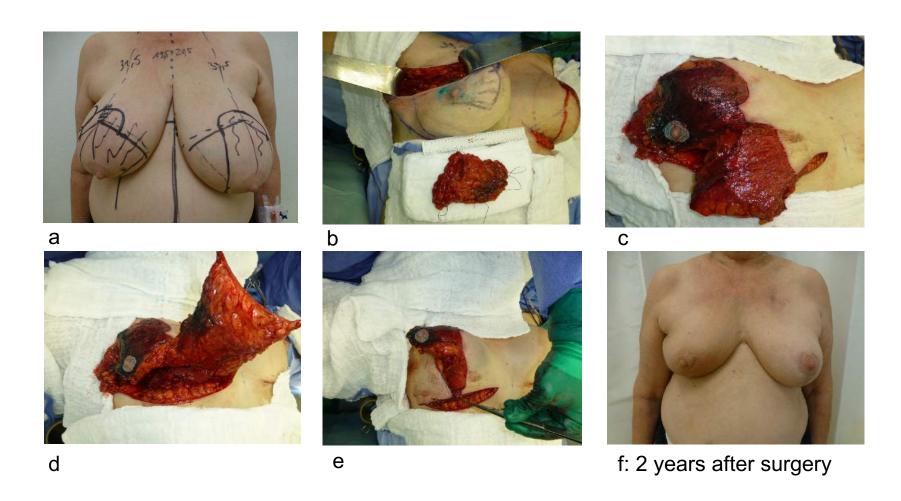
Standardization of OPS Basel indication algorithm



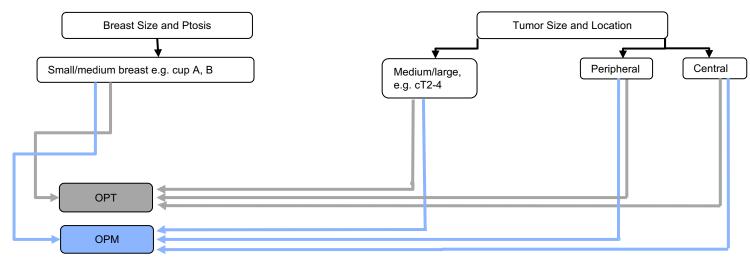
Standardization of OPS Basel partial breast reconstruction algorithm



Oncoplastic reduction mammoplasty with superomedial pedicle and inferomedial glandular flap

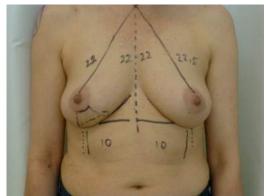


Standardization of OPS Basel indication algorithm

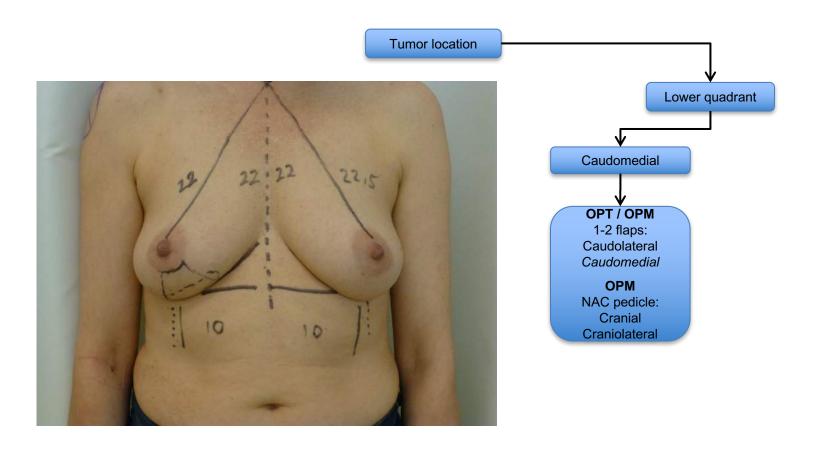


OPT: Oncoplastic tumorectomy

OPM: Oncoplastic mastopexy

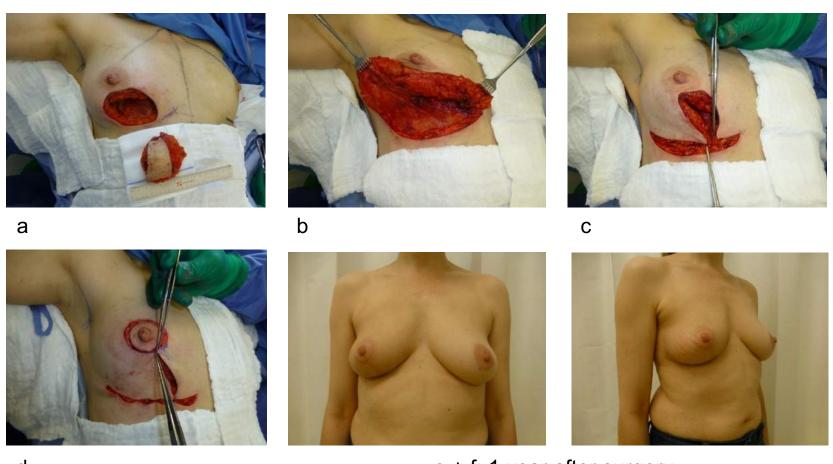


Standardization of OPS Basel partial breast reconstruction algorithm



Weber WP, Haug M, et al. Eur J Surg Oncol. 2017 Jul;43(7):1236-1243.

Oncoplastic mastopexy Triangle excision¹ or V-mammoplasty²

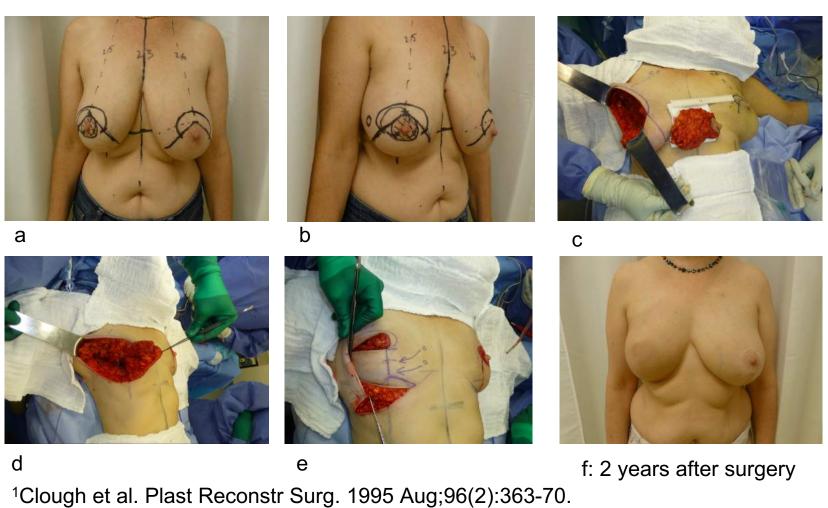


e + f: 1 year after surgery

¹ Silverstein MJ et al. Journal of Surgical Oncology 2014;110:82–89

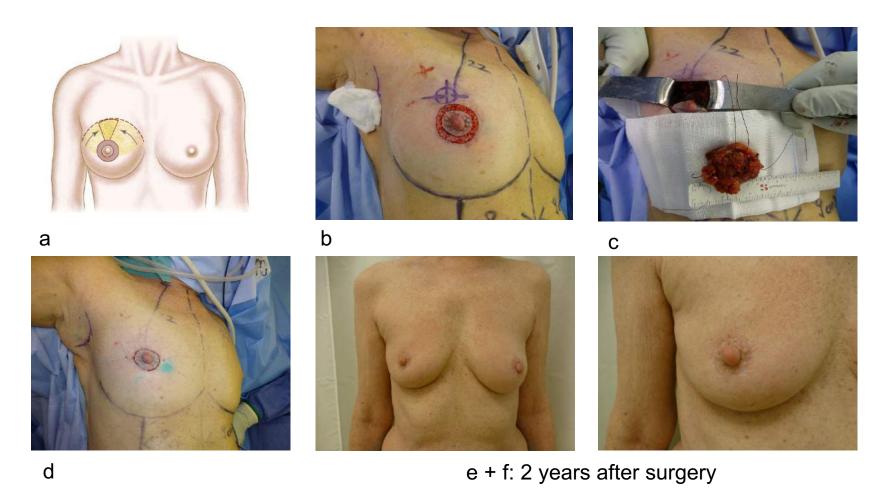
² Clough KB, et al. Ann Surg Oncol. 2010 May;17(5):1375-91.

Top 6 OPS procedures Nr. 1: Oncoplastic reduction mammoplasty¹



^{a-f} Weber WP, Haug M, et al. Eur J Surg Oncol. 2017 Jan 31 [Epub ahead of print]

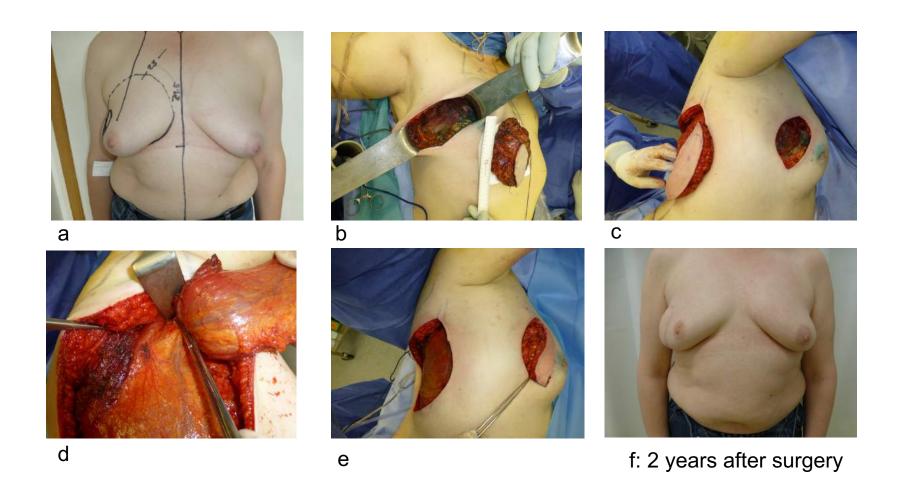
Top 6 OPS procedures Nr. 2: Donut (round block / Benelli) mastopexy



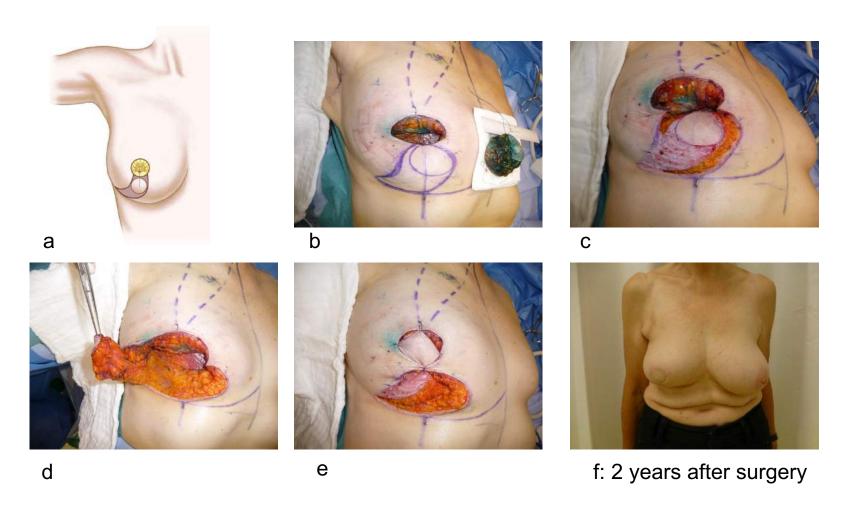
¹Benelli L. Aesthetic Plast Surg. 1990 Spring;14(2):93-100.

Top 6 OPS procedures

Nr. 3: Volume replacement

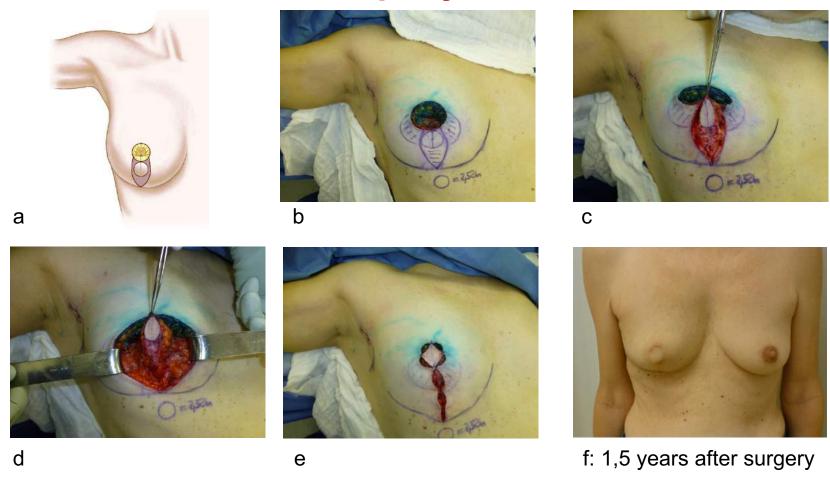


Top 4 OPS procedures Nr. 4: Grisotti¹ mastopexy (B technique)



¹Galimberti V, Grisotti A, et al. Eur J Cancer. 1993;29A(8):1093-6.

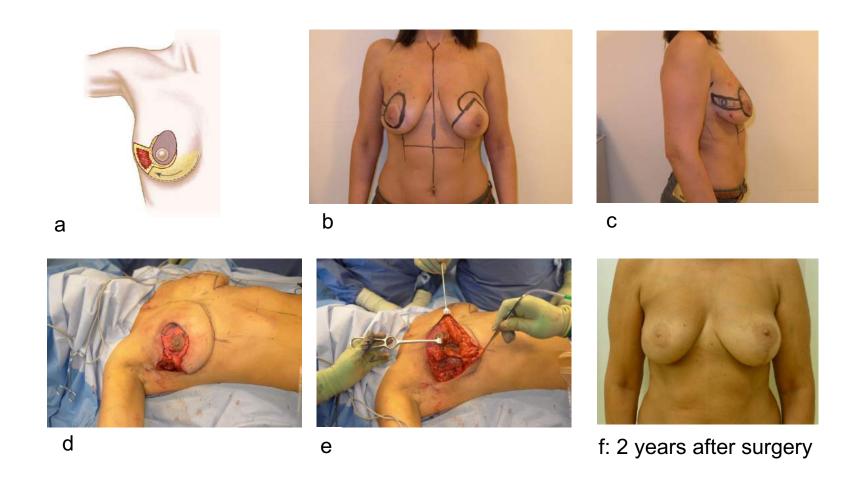
Retroareolar tumors Modified Grisotti mastopexy



¹Galimberti V, Grisotti A, et al. Eur J Cancer. 1993;29A(8):1093-6. b-f Weber WP, Haug M, et al. Eur J Surg Oncol. 2017 Jul;43(7):1236-1243.

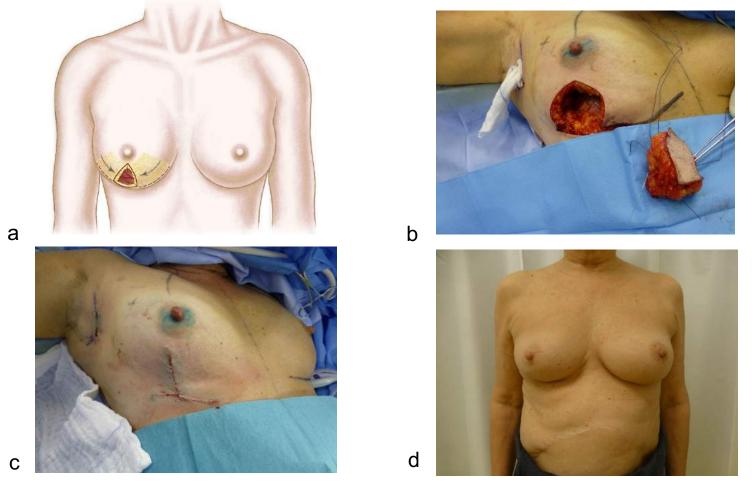
Top 6 OPS procedures

Nr. 5: Racquet (hemibatwing) mammoplasty



Top 6 OPS procedures Nr. 6: Triangle excision or V-man

Nr. 6: Triangle excision or V-mammoplasty



3 years after surgery

¹Silverstein MJ et al. Journal of Surgical Oncology 2014;110:82–89

What are current OPS standards? 1st international OPS consensus conference

- German, Austrian and Swiss (D-A-CH) panel
- Basel, Feb 2017
- 26 panelists
- 4 hours
- 60 questions

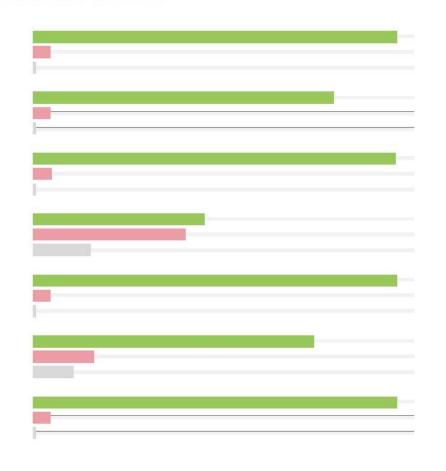


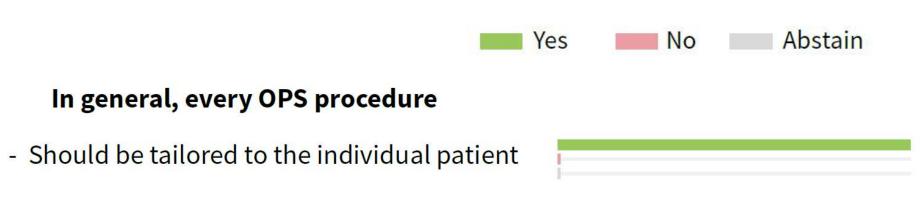
Weber WP, et al. Breast Cancer Res Treat. 2017 Aug;165(1):139-149.



There is a need for standardization of OPS

- Nomenclature
- Indications
- Contraindications
- Reconstruction choice selection
- Outcome assessment
- In clinical practice
- In clinical research



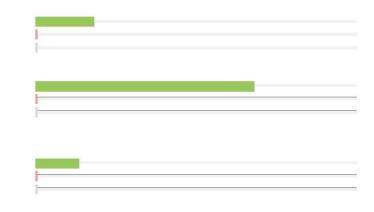




Which one of the three proposed classification systems is most useful

In clinical practice for indicating, planning and performing the procedure

- The Tübingen complexity-based classification
- The Clough bilevel classification and quadrant per quadrant atlas
- The Basel nomenclature, indication and reconstruction algorithms

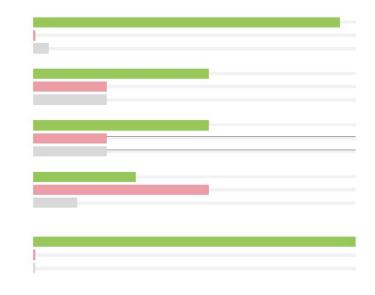




Goals and Indications of OPS

Compared to conventional breast conserving surgery, OPS can be used to

- Improve esthetic outcomes
- Improve quality of life
- Reduce reoperation rates for positive margins
- Reduce local recurrence rates
- Broaden the indication to larger or multifocal tumors as alternative to mastectomy





Outcome assessment of OPS should be standardized in clinical practice

- To include pre- and postoperative pictures
- To include patient-reported outcome measurements



Yes No Abstain

Outcome assessment of OPS should be standardized in clinical practice

- To include all scales of the BreastQ-Breast Conserving Therapy Module
- To include selected scales of the BreastQ-Breast Conserving Therapy Module*
 - *e.g. satisfaction with breasts scale +/- psychosocial well-being



Oncoplastic Breast Consortium



- www.oncoplasticbc.org
 - 407 surgeons
 - 34 patient advocates
 - 70 countries
 - → Consensus conferences
 - → Research
 - → Education





Weber WP, et al. Breast Cancer Res Treat. **2018** Dec;172(3):523-537. Weber WP, et al. Breast Cancer Res Treat. **2017** Aug;165(1):139-149.

OPBC Award Committee

Walter P. Weber Switzerland



Florian Fitzal
Austria







→ First OPBC Award in Sept 2019 during next OPBC consensus conference with 60 of the world's best breast surgeons from 24 countries

OPBC Award Committee

Walter P. Weber Switzerland



Florian Fitzal
Austria







OPBC Award Winner 2019: Zoltán Mátrai

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