



“Evaluation of early, late complications and patient satisfaction in 300 patients who underwent oral graft harvesting from a single cheek using a standard technique in a referral center experience”

AUA 2009, Chicago

Guido Barbagli, Arezzo, Italy; Fabio Fabbri, Milan, Italy; Giuseppe Romano, Michele De Angelis, Arezzo, Italy; Massimo Lazzeri, Florence, Italy*

Background



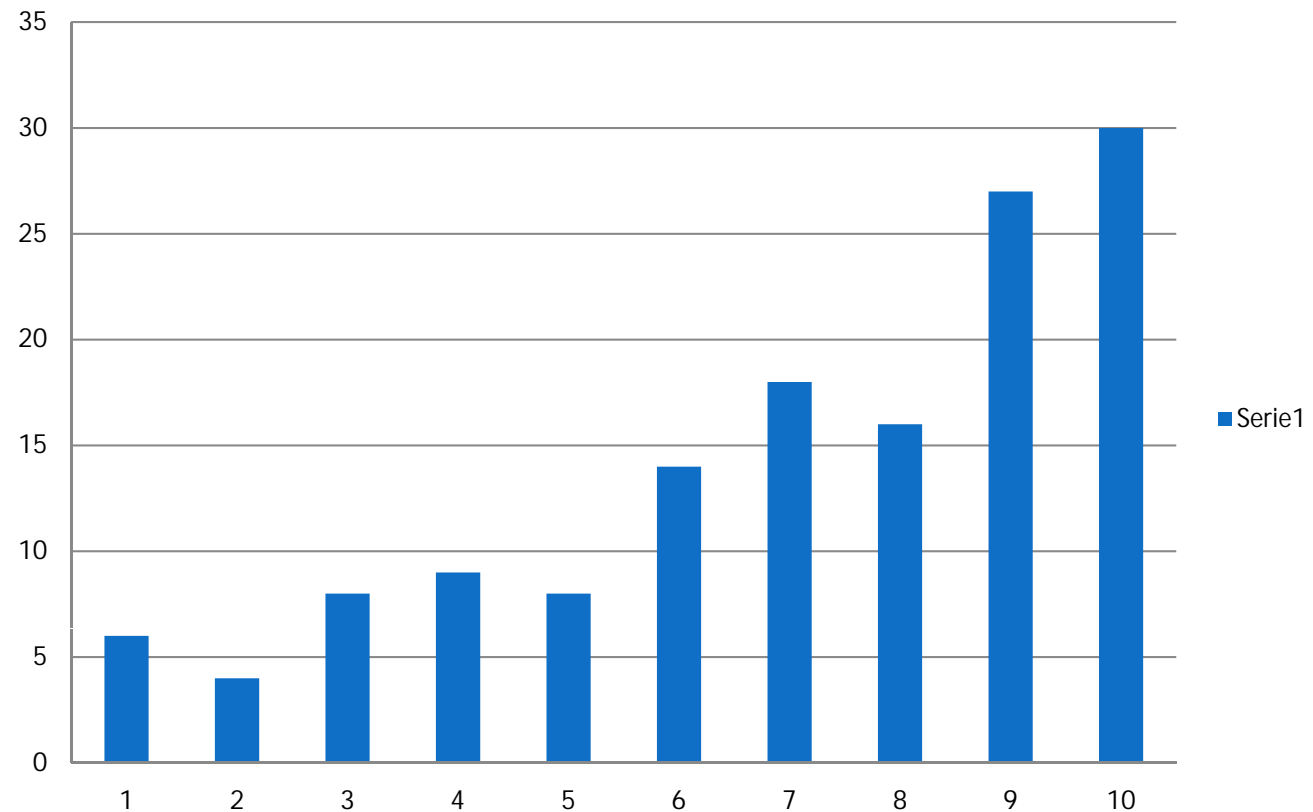
Urethroplasty
+(AND)
oral/buccal
mucosa:

1999

2008

(Urological
journals)

Papers/years





Background

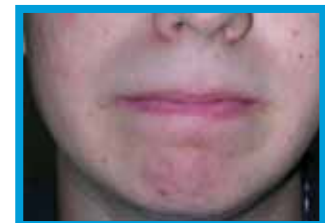
Urethroplasty
+(AND)
oral/buccal
mucosa:

1999

2008

(Urological
journals)

- Different donor sites
- Different techniques
- Different surgeons
- Low powered studies
- No homogeneous series
- Complication seldom reported
- Learning curve



Aim



- EVALUATION OF EARLY, LATE **COMPLICATIONS**
AND PATIENT SATISFACTION IN 300 PATIENTS
WHO UNDERWENT ORAL GRAFT HARVESTING
FROM A SINGLE CHEEK USING A STANDARD
TECHNIQUE IN A REFERRAL CENTER EXPERIENCE



Material and Methods

- 300 patients,
 - mean age 39.6 years (range 14-77 years)
- OMG harvesting from a single cheek
- Standard technique
- Patient reported outcome
 - Questionnaire
 - Satisfaction

The "*standara*" technique



Two surgical teams work simultaneously



The "*standara*" technique

Oral set



Perineal/urethral set

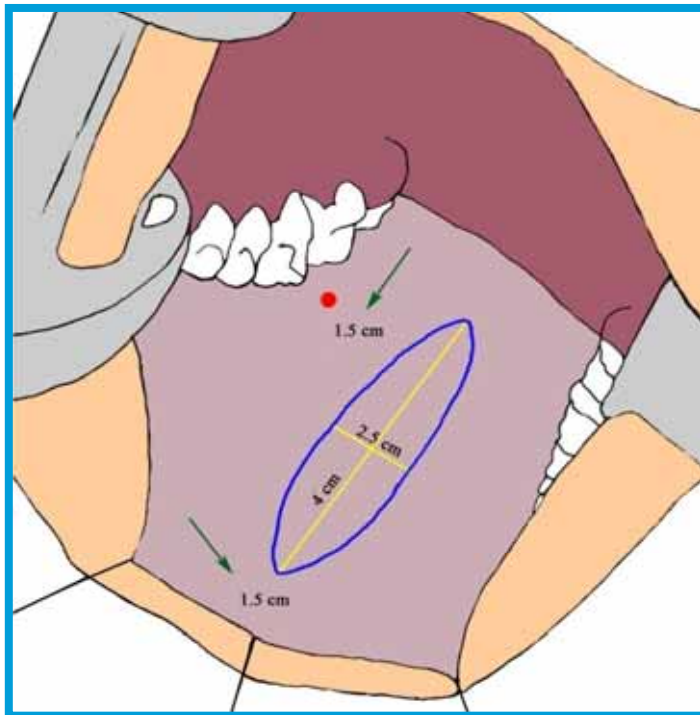


Two sets of surgical instruments

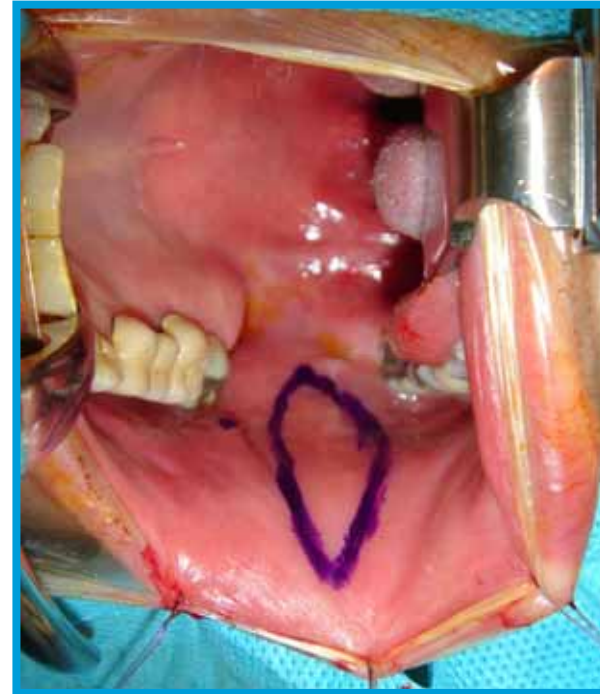


The "*standara*" technique

Drawing



Reality

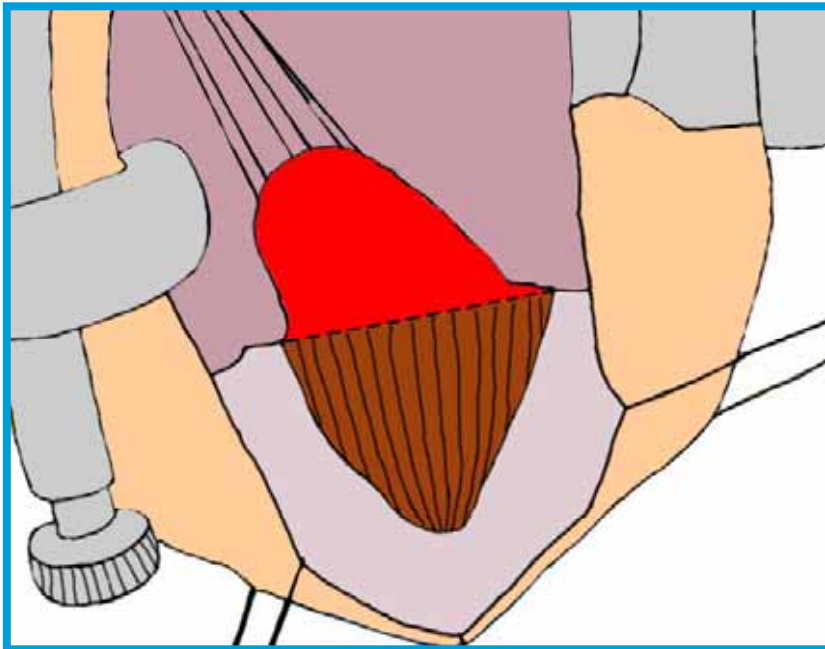


Maximum graft size: length 4 cm / width 2.5 cm

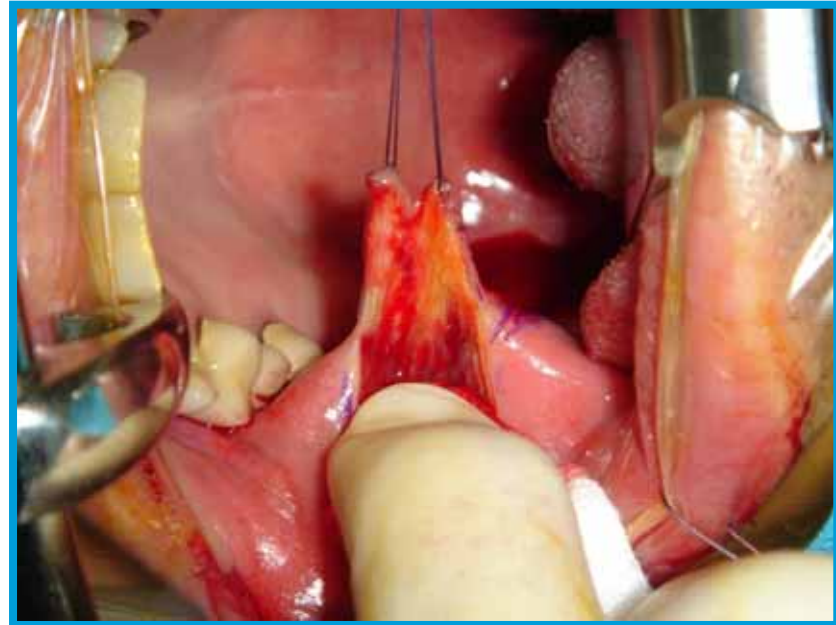


The "*standarda*" technique

Drawing



Reality



Remove the graft leaving the muscle intact



4 cm

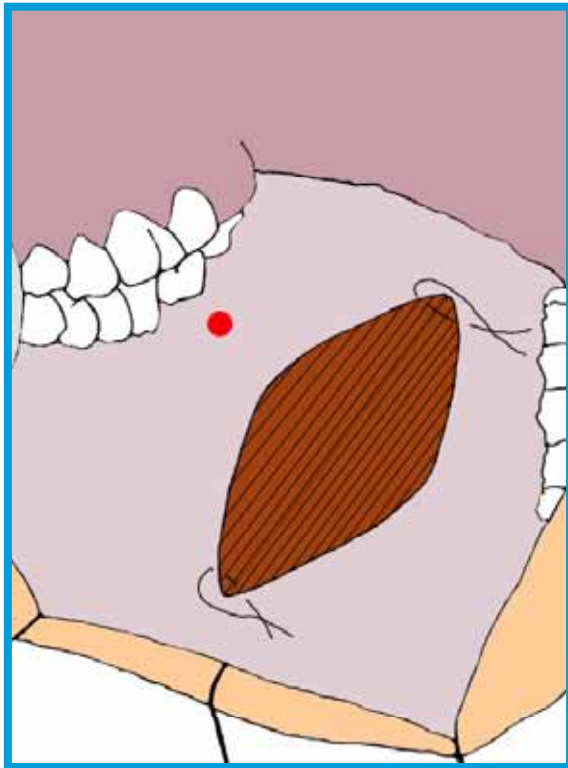


6 cm

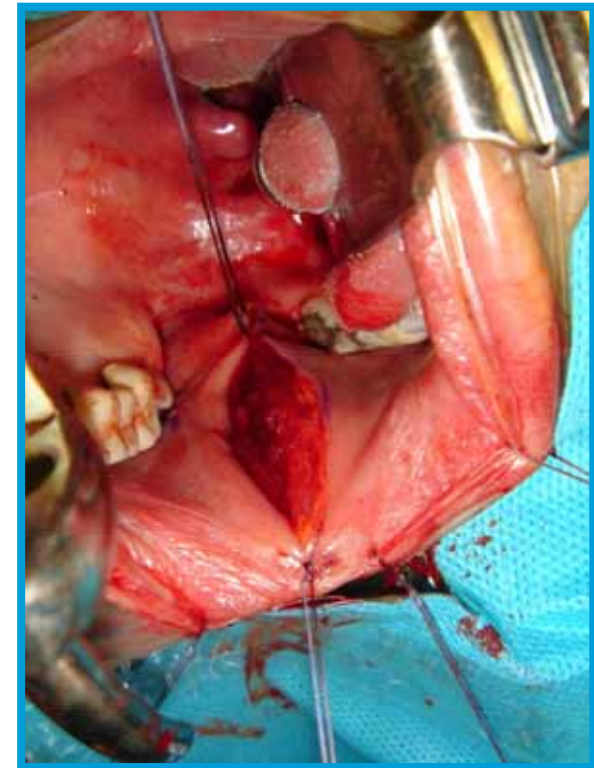


The "*standara*" technique

Drawing



Reality

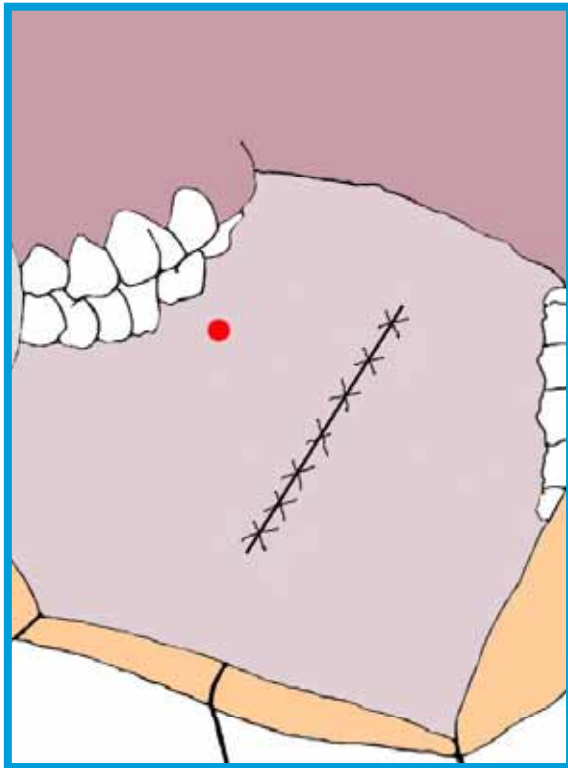


Close the
harvesting site



The "*standara*" technique

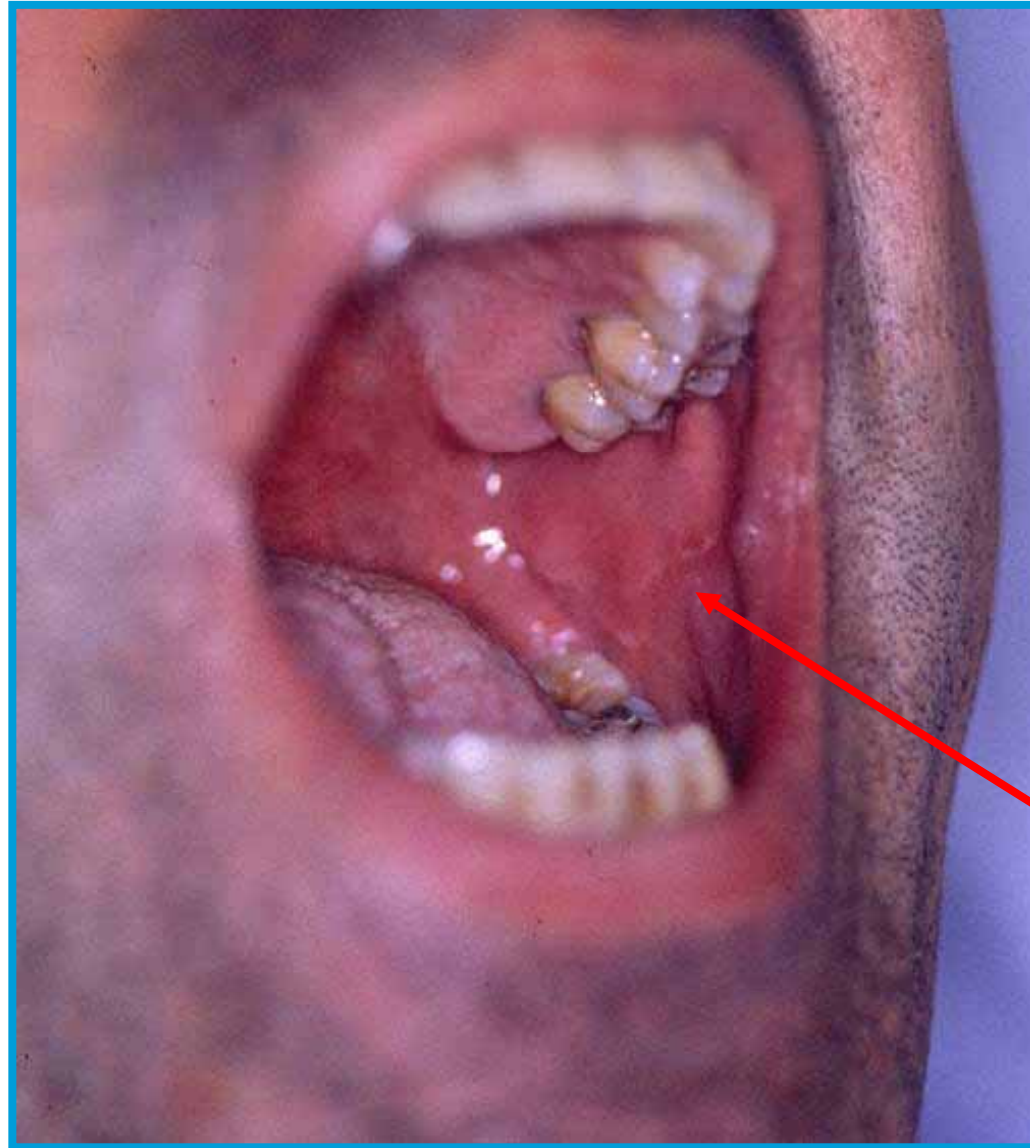
Drawing



Reality



Close the
harvesting site



6 months later

Patient report outcome: questionnaire



- ▶ The questionnaire was developed on the basis of a clearly defined conceptual framework
- ▶ The importance of patient's prospective and patients satisfaction were accurately investigated



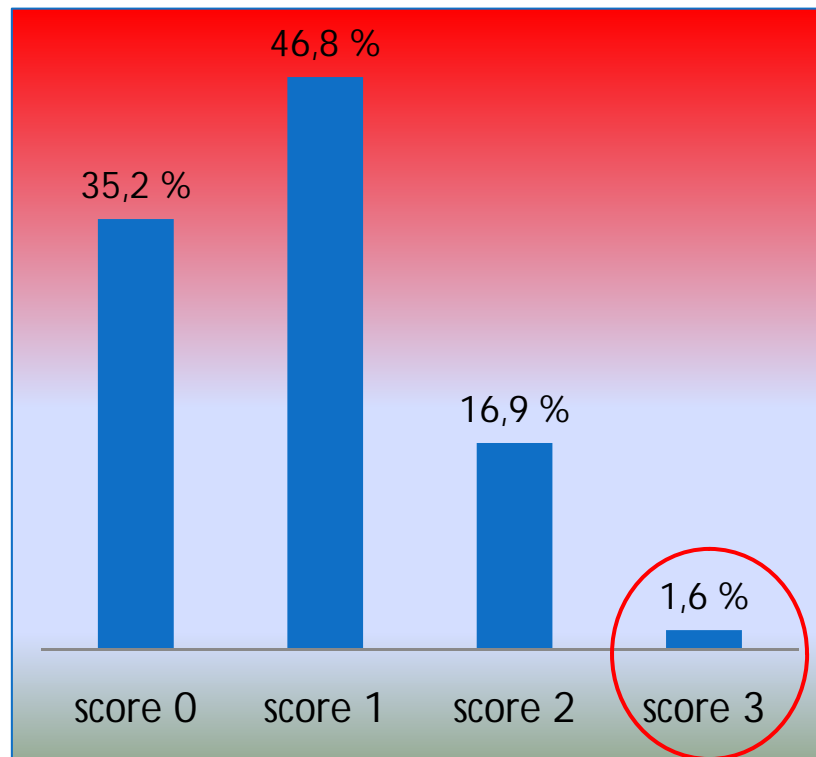
Questionnaire

- The questionnaire included:
 - 6 questions to investigate the early complications (first 10 post-operative days)
 - 14 questions to investigate the late complications (3 months after surgery)
 - Score
 - 0 = absence of complication/no bother report
 - 3 = maximum bother
- Patients satisfaction:
 - *Would you repeat this type operation again?*

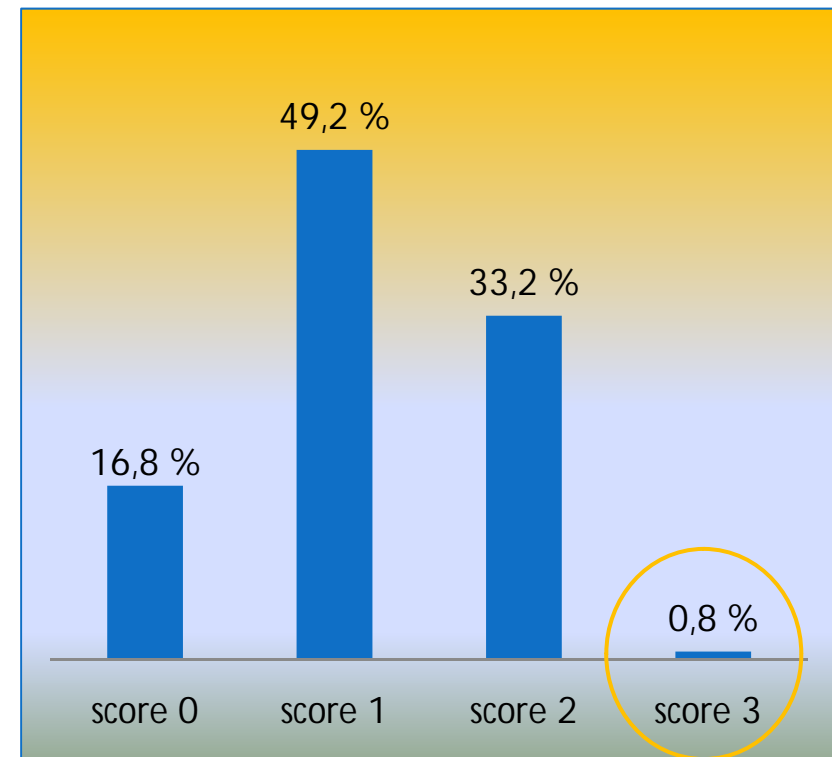


Early complications

Pain



Swelling





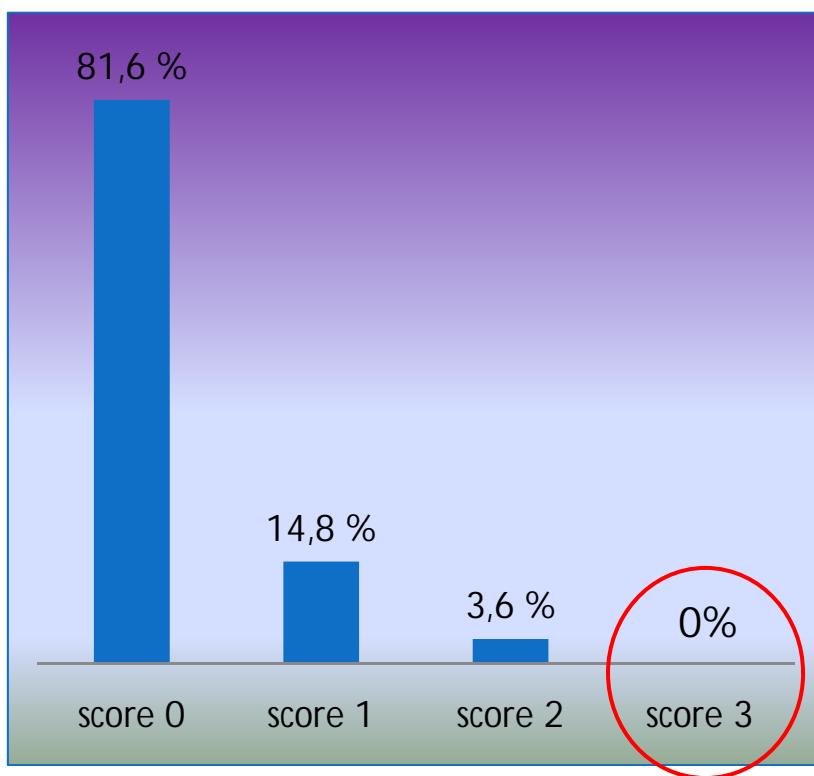
Early complications

- Bleeding: 3.6%
- Use of anti-inflammatory (for oral pain): 5.2%
- Ability to resume normal diet:
 - 156 pts (52.%) within 3 days
 - 108 pts (36%) within 6 days
 - 36 pts (12%) within 10 days

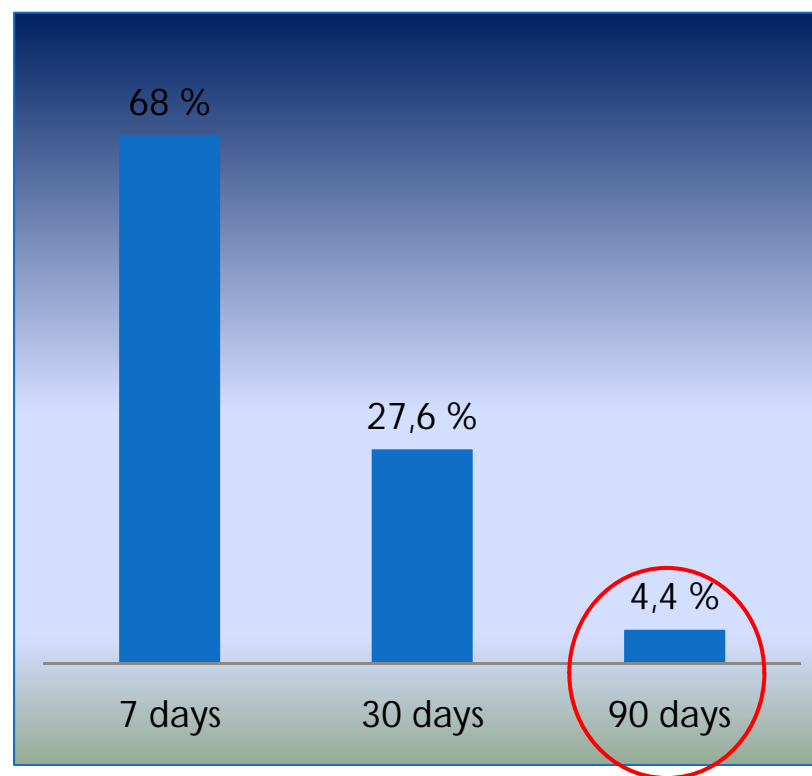


Late complications

Scar bother



Perioral numbness





Late complications

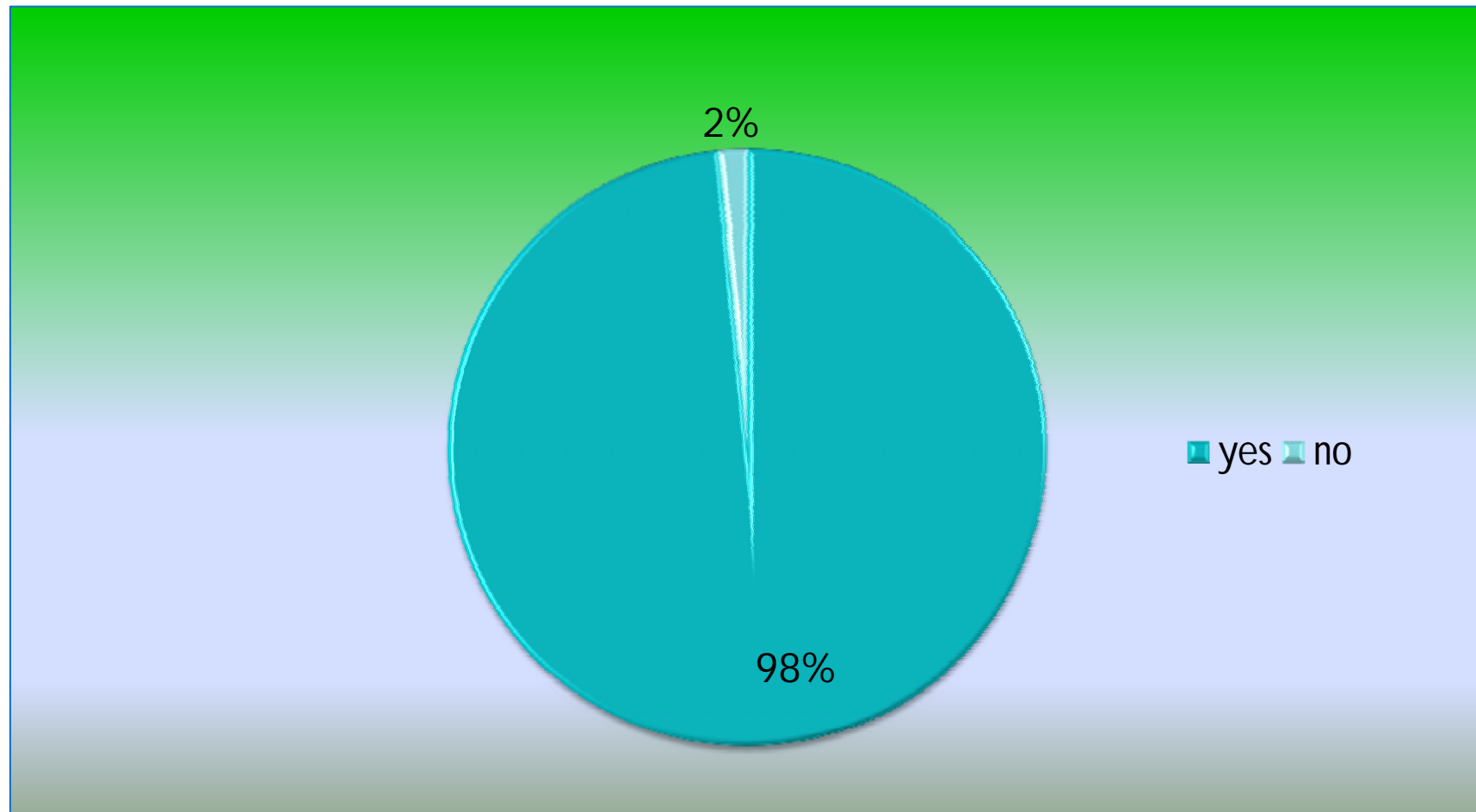
- **Difficulty with mouth opening:**
 - ▣ Score 0: 98%
 - ▣ Score 1: 1.6%
 - ▣ Score 2 (0.4%)
- **Difficulty to smile:**
 - ▣ Score 0: 99%
 - ▣ Score 1: 0
 - ▣ Score 2: 1
- **Changes in the face physiognomy:**
 - ▣ Score 0: 99%
 - ▣ Score 1: 0
 - ▣ Score 2: 1%



Late complications

- **Dry mouth:**
 - ▣ Score 0: 94.8%
 - ▣ Score 1: 4.8%
 - ▣ Score 2: 0.4%
- **Check swelling after meals:**
 - ▣ Score 0: 98%
 - ▣ Score 1: 2%
- **To be able to eat and chew any meals without discomfort:**
 - ▣ 275 pts (91.6%) within 1 month
 - ▣ 18 pts (6%) within 2 months
 - ▣ 7 pts (2.3%)

Would you repeat the operation again?



Harvesting oral mucosal graft from the cheek



Advantages

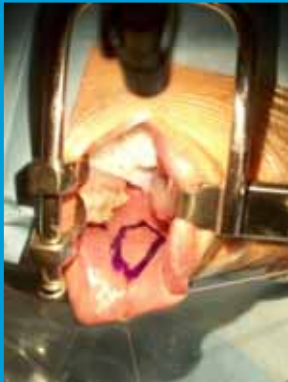
- Available in all patients
- Two grafts, thick, long and large
- Donor site scar is concealed

Disadvantages

- It may require a nasal intubation
- It may request a special retractor



Take home message



Tank-you for
your attention

- OMG harvesting from a single cheek, with **adequate size and shape**, with closure of the donor site, is a safe procedure with an incredible high patient's satisfaction