“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”
Background

Urethroplasty + (AND) oral/buccal mucosa:
1999
2008
(Urological journals)
Background

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

Urethroplasty + (AND) oral/buccal mucosa:
- 1999
- 2008

(Urological journals)
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
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 “standard” technique

Two surgical teams work simultaneously
The “standard” technique

<table>
<thead>
<tr>
<th>Oral set</th>
<th>Perineal/urethral set</th>
</tr>
</thead>
</table>

Two sets of surgical instruments
The “standard” technique

Maximum graft size: length 4 cm / width 2.5 cm
The “standard” technique

Remove the graft leaving the muscle intact
The “standard” technique

Close the harvesting site
The “standard” technique

Close the harvesting site
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**
- Score 0: 35.2%
- Score 1: 46.8%
- Score 2: 16.9%
- Score 3: 1.6%

**Swelling**
- Score 0: 16.8%
- Score 1: 49.2%
- Score 2: 33.2%
- Score 3: 0.8%
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

- Score 0: 81.6%
- Score 1: 14.8%
- Score 2: 3.6%
- Score 3: 0%

Perioral numbness

- 7 days: 68%
- 30 days: 27.6%
- 90 days: 4.4%
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

<table>
<thead>
<tr>
<th>Advantages</th>
<th>Disadvantages</th>
</tr>
</thead>
<tbody>
<tr>
<td>Available in all patients</td>
<td>It may require a nasal intubation</td>
</tr>
<tr>
<td>Two grafts, thick, long and large</td>
<td>It may request a special retractor</td>
</tr>
<tr>
<td>Donor site scar is concealed</td>
<td></td>
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</tbody>
</table>
Take home message

- 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

Tank-you for your attention