**Supplement 5a. Patient reported outcomes (PROMs): removable prostheses.**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Author/date** | **Prosthetic rehabilitation type** | **Type of PROMs** | **PROMs evaluation method** | **Results** |
| 1. Eccellente et al. 2011 | Maxillary overdentures Syncope Abutments retained | Satisfaction | 7-items questionnaire (insufficient, sufficient, excellent):Operative phasePostoperative phasePhoneticsMasticatory functionEstheticsDenture stabilityOral hygiene | Operative phase: insufficient 16%, sufficient 51%, excellent 33%Postoperative phase: insufficient 9%, sufficient 49%, excellent 42%Phonetics: insufficient 2%, sufficient 51%, excellent 47%Masticatory function: sufficient 42%, excellent 58%Esthetics: insufficient 7%, sufficient 56%, excellent 37%Denture stability: sufficient 24%, excellent 76%Oral hygiene: insufficient 5%, sufficient 31%, excellent 64% |
| 2. Zhou et al. 2013 | Maxillary overdentures supported by: Group 1: telescopic crownsGroup 2: bar attachmentGroup 3: locators | Satisfaction | Questionnaire (score 0 – unsatisfied, 1 – partially satisfied, 2 – fully satisfied): Facial contourComfortSpeechFunction | Group 1:Facial contour: all patients - 2Comfort: all patients - 2Speech: all patients - 2Function: all patients – 2Group 2:Facial contour: all patients - 2Comfort: 9 patients – 2, 1 patient - 1Speech: all patients - 2Function: all patients – 2Group 3: Facial contour: all patients - 2Comfort: all patients - 2Speech: all patients - 2Function: all patients – 2 |

**Supplement 5 b. Survival of restorations, technical complications**

**Fixed prostheses.**

|  |  |  |  |
| --- | --- | --- | --- |
| **Author** | **Year** | **Survival of prostheses** | **Technical complications** |
| 1.Adell et al. | 1986 | NR | NR |
| 2. S. W. Yi et al. | 2001 | 100% | 3 fractures of porcelain and 1 of acrylic teeth  |
| 3. Martens et al. | 2014 | NR | NR |
| 4. Tallarico et al | 2016 | 100% | During healing period: 4 complications (prosthetic screw loosening, fracture of acrylic provisional prostheses).After definitive prosthesis delivery: 4 complications (fracture of veneering material). |
| 5. Li et al.  | 2017 | Provisional prostheses: 85%Definitive prostheses: 100% | During healing period: 3 complications (fracture of provisional prostheses).After definitive prosthesis delivery: 5 patients (29.5%) experiences mechanical complications (abutment screw loosening, artificial teeth separation) |
| 6. Cercadillo-Ibarguren et al.  | 2017 | 100% | No major technical complications (i.e., no framework fracture or mobility of the prosthesis). |
| 7. Windael et al. | 2018 | 100% | NR |
| 8. Barootchi et al.  | 2020 | 5-year survival:Zirconia prostheses: 93.7% ± 5.5%Metal-acrylic prostheses: 83.0% ± 11.1%8-year survival: Zirconia prostheses: 88% ± 8.8% Metal-acrylic prostheses: 67.6%± 14.8% 10-year survival: Metal-acrylic prostheses: 51.7% ± 12.1%  | Metal-acrylic group Minor complications:Single tooth fracture: 94 times, 22 prosthesesMultiple teeth chipping/fracture: 40 times Zirconia groupMinor complications:Single tooth chipping: 36 times, 9 prosthesesMultiple teeth chipping/fracture: 17 times Number of complications was slightly higher in meta-acrylic group (72.1% vs. 61.3%).Major complications (i.e., the ones that could be repaired) were more prominent in metal-acrylic group (41.9% vs. 25.8%) Catastrophic (i.e., total failure): 2 prostheses per each group. |

NR- not reported.

**Supplement 5 c. Survival of restorations, technical complications**

**Removable prostheses.**

|  |  |  |  |
| --- | --- | --- | --- |
| **Author** | **Year** | **Survival of prostheses** | **Technical complications** |
| 1. Van Assche et al.  | 2012 | 100% | Screw loosening (2 patients);Need of relining and adaptation (1 patient.). |
| 2. Eccellente et al.  | 2011 | 96% | Abutment loosening (3 patients);Partial denture fracture (7 patients);Complete denture fracture (2 patients).  |
| 3. Zou et al.  | 2013 | 100% | Telescopic crown attachment group:58 maintenance procedures required (4 abutment/screw loosening, 4 matrix activation/renewals, 8 prosthetic teeth replacements, 14 denture margin adaptation, 28 overdenture rebasings).Bar-retained group: 51 maintenance procedures required (3 abutment/screw loosening, 2 matrix activation/renewals, 4 prosthetic teeth replacements, 12 denture margin adaptation, 30 overdenture rebasings).The incidence of maintenance efforts tended to be higher in the telescopic crown group (p = 0.16). |