**Supplement 4**

**Supplement 4a.** Implant and prosthesis information: fixed prostheses.

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| **Author** | **Year** | **Type/implant brand** | **NR of implants per jaw** | **Implant distribution** | **Bone augmentation** | **Implant placement (immediate/delayed; one-stage, two-stage)** | **Type of prostheses** | **Loading protocol (immediate/early/conventional)** | **Time to load (months)** | **Opposing dentition (partially edentulous (PE)/fully edentulous (FE))** |
| 1.Adell et al. | 1986 | Branemark | Upper jaw: 6 implantsLower jaw: 5 to 6 implants | NR | No | Delayed, two-stage | Fixed, screw-retained  | Conventional | NR | FE |
| 2. S. W. Yi et al. | 2001 | Astra Tech | NR | NR | In situations with uncovered implant threads amounting to at least 30% of the threaded part of the implant, guided bone regeneration (GBR) was performed using Goretex membrane (polytetrafluoroethylene) in combination with autogenous bone. | Delayed, two-stage | Fixed, cross-arch design | Conventional | 3 to 8 months | FE |
| 3. Martens et al. | 2014 | Biomet 3i | 4 to 6 | NR | No | Delayed, one-stage | Fixed, screw-retained | Immediate | Within 72 hours | PE + FE |
| 4. Tallarico et al | 2016 | NobelSpeedy Groovy 3.3. or 4 mm diameter | Test: 4 implantsControl: 6 implants | Anterior-posterior | No | Delayed, one-stage | Fixed cross-arch | Immediate | - | PE + FE |
| 5. Li et al.  | 2017 | Nobel Biocare | 4 | Anterior-posterior | No | Immediate, one-stage | Fixed, all ceramic with metal framework (CAM/CAM) | Immediate | - | PE + FE |
| 6. Cercadillo-Ibarguren et al.  | 2017 | Replace Tapered, Nobel Biocare AB | 4 to 6 | Anterior-posterior | When bone defects were present, autologous bone chips and /or xenograft (BioOss) were used along with resorbable membrane (BioGide) | Immediate: 133 (35.2%)Delayed, one-stage: 245 (64.8%)) | Fixed, screw-retained | Immediuate | 6 to 48 hours | PE+ FE |
| 7. Windael et al. | 2018 | Fluoride-modified | 5 | Interforaminal | No | Delayed, one-stage | Fixed screw-retained | Immediate | - | PE + FE |
| 8. Barootchi et al.  | 2020 | NR | 40.5% of prostheses supported with 6 implants, 33.9% with 5 implants, 9.45% with 7 implants, and 17.56% with 8 implants | Anterior-posterior | 25 (34%) of patients received bone augmentation procedures | Immediate implants: 4 (0.89%)Delayed implant placement: 448 (99.11%) | Group 1: metal-acrylic prosthesesGroup 2: zirconia fixed prostheses | Immediate loading:22 (30%) patientsConventional loading: 52 (70%) patients  | Conventional loading: NR | PE +FE |

FE – fully edentulous, PE – partially edentulous, NR – not reported

**Supplement 4b.** Implant and prosthesis information: removable prostheses.

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| **Author** | **Year** | **Type/implant brand** | **NR of implants per jaw** | **Implant distribution** | **Bone augmentation** | **Implant placement (immediate/delayed; one-stage, two-stage)** | **Type of prostheses** | **Loading protocol (immediate/early/conventional)** | **Time to load (months)** | **Opposing dentition (partially edentulous (PE)/fully edentulous (FE))** |
| 1. Van Assche et al.  | 2012 | Straumann SLA Active, standard Plus | 6 | Anterior-posterior | No | Delayed, one-stage | Bar-retained overdentures. | Early | 6 weeks | FE + PE |
| 2. Eccellente et al.  | 2011 | Ankylos | 4 | Anterior-posterior | In cases of fenestrations, simultaneous grafting with autogenous bone chips was done | 49 implants – immediately36 implants – 4 to 10 weeks post extraction85 implants – 6 months or more post extraction | Synope Abutments retained | Immediate | - | FE+PE |
| 3. Zou et al.  | 2013 | ITI, Straumann | At least 4 implants | NR | No | Delayed | Group 1: telescopic crowns retained overdenturesGroup 2: bar retained overdentures | Conventional | 3 to 4 months | FE+PE |

FE – fully edentulous, PE – partially edentulous, NR – not reported