Implants

Listing of Standards By Task

IMPLANTS

1. Disinfect the impression and/or model
2. Evaluate the prescription for completeness
3. Document changes to the prescription and/or design requirements
4. Evaluate the impression or model for completeness
5. Pour the study model
6. Mount the models on the articulator
7. Determine if proposed clinical treatment plan is technically possible or suggest alternatives
8. Complete diagnostic set-up and/or wax-up
9. Send the wax-up to the Health Professional for try-in or verification
10. Fabricate a surgical stent to aid the surgeon in implant placement
11. Pack and send surgical stent to Health Professional
12. Disinfect impression and pour preliminary model
13. Fabricate custom tray
14. Package and send custom tray to Health Professional
15. Verify that impression quality is acceptable
16. Attach analogues to the impression transfer copings, if necessary, and re-seat copings in the impression
17. Pour final impressions to create master model
18. Fabricate an occlusal registration device(s), if needed, and record the components used
19. Send occlusal registraion device(s) to the Health Professional
20. Mount the master and opposing models on the articulator
21. Construct the restoration
22. Select and set-up teeth and wax-up
23. Send the wax-up to the Health Professional for try-in
24. Create a matrix of existing set-up, if necessary
25. Fabricate sub-assembly or substructure

Condition:

Given a shipment of an impression or model from a Health Professional

Task:

Disinfect the impression and/or model

Criteria:

Safety:

- So that gloves are worn at all times until disinfecting is completed
- So that the disinfectant used is compatible with the impression and/or model
- So that manufacturer's specifications for the disinfectant used, are followed
- So that the packaging material that was in direct contact with the impression or model is discarded
- So that the impression and/or model is disinfected according to the Universal Precaution -- at the minimum -- low level, as defined by the RCDSO guidelines, dated June 1995

Timing:

- Before proceeding any further

Condition:

Given a prescription from a Health Professional

Task:

Evaluate the prescription for completeness

Criteria:

Technical Quality:

- The prescription must include:
  - ⇒ the patient's name or identification number
  - ⇒ the Health Professional's name
  - ⇒ type and/or description of prosthesis or treatment objectives
  - ⇒ manufacturer of the implant
  - ⇒ materials used and teeth to be used
  - ⇒ shade
  - ⇒ date sent
- So that if in doubt, the dental technologist will consult the Health Professional before proceeding with the work

Condition:

Given that clarification and/or changes are needed due to an incomplete or unclear prescription from the Health Professional

Task:

Document changes to the prescription and/or design requirements

Criteria:

Technical Quality:

- So that any changes or modifications to a prescription or design as a result of discussions with the Health Professional, are documented and dated
- Documentation must include:
  - ⇒ date and time of discussion
  - ⇒ name of contact from Health Professional's office
  - ⇒ changes and modifications agreed to
  - ⇒ signature of the RDT or that of the person designated by the RDT

Conditions:

Given a prescription and impression or model from a Health Professional

Task:

Evaluate the impression or model for completeness

Criteria:

Technical Quality:

- The impression or model must --
  - ⇒ not have any flaws and/or visible distortions that will affect the work to be done

Condition:

Given a full arch impression with no defects

Task:

Pour the study model

Criteria:

Technical Quality:

- So that the model is clear of voids, has no air bubbles, has a dense smooth surface and is a faithful reproduction of the impression

Condition:

Given a Health Professional's prescription, upper and lower study models, occlusal registration, an articulator and luting material

Task:

Mount the models on the articulator

Criteria:

Technical Quality:

- So that the patient's jaw or occlusal relationship is established in accordance with the occlusal registration provided by the Health Professional

Condition:

Given articulated upper and lower study model and a proposed treatment plan

Task:

Determine if proposed clinical treatment plan is technically possible or suggest alternatives

Criteria:

Technical Quality:

- There must be sufficient room for the proposed prosthetic restoration
- So that the proper formula is used to avoid leverage of the implants in accordance with manufacturer's specifications
- So that the ideal location and angulation of fixtures is determined to best support the technical requirements of the restoration
- So that the proposed materials and components are compatible/suitable with the clinical treatment plan

Condition:

Given a Health Professional's approved treatment plan, or prescription, articulated models, teeth and/or wax

Task:

Complete diagnostic set-up and/or wax-up

Criteria:

Technical Quality:

- Following the Health Professional's prescription and/or instructions, including aesthetic requirements
- So that the shade of the teeth matches the prescription
- So that the teeth are set-up or waxed-up to achieve the required occlusal relationship
- So that wax-up is done according to anatomical requirements and implant locations

Condition:

Given a completed diagnostic set-up and/or wax-up

Task:

Send wax-up to the Health Professional for try-in or verification

Criteria:

Technical Quality:

- Packing it so that it will be received by the Health Professional with no damage or distortion

Condition:

Given the treatment plan, study models, and/or diagnostic wax-up, materials and equipment to fabricate a surgical stent

Task:

Fabricate a surgical stent to aid the surgeon in implant placement

Criteria:

Technical Quality:

- So that the surgical stent fits the tissue or occlusal surface without distortion
- So that the suggested implant placement will be aesthetically acceptable without compromising function

Safety:

- So that materials used are either ADA, CDA, Health Canada or FDA approved
- So that if materials do not have either ADA, CDA, Health Canada or FDA approvals, the RDT must inform the prescribing Health Professional and record the Health Professional's approval and the materials used

Condition:

Given the polished and clean surgical stent, shipping bag and/or container

Task:

Pack and send the surgical stent to the Health Professional

Criteria:

Technical Quality:

- Packing it so that it will be received by the Health Professional with no damage or distortion

Condition:

Given a new full arch preliminary impression with no defects and treatment plan or prescription

Task:

Disinfect impression and pour preliminary model

Criteria:

Technical Quality:

- So that the model is clear of voids, has no air bubbles, has a dense smooth surface and is a faithful reproduction of the impression

Condition:

Given a preliminary model with identifiable implant sites, custom tray material and treatment plan or prescription

Task:

Fabricate custom tray

Criteria:

Technical Quality:

- So that the custom tray conforms with the anatomical outlines and landmarks provided on the preliminary model
- So that the custom tray provides proper design for the chosen material or impression technique to be used as prescribed
- So that the design conforms to the technique determined by the implant system used

Safety:

- So that materials used are either ADA, CDA, Health Canada or FDA approved
- So that if materials do not have either ADA, CDA, Health Canada or FDA approvals, the RDT must inform the prescribing Health Professional and record the Health Professional's approval and the materials used

Condition:

Given a completed custom tray

Task:

Package and send custom tray to the Health Professional

Criteria:

Technical Quality:

- Packing it so that it will be received by the Health Professional with no damage or distortion

Condition:

Given a final impression, treatment plan or prescription, and written verification of the accuracy of the component fit from a Health Professional

Task:

Verify that impression quality is acceptable

Criteria:

Technical Quality:

- So that the impression is clear of voids or air bubbles in the technically critical areas

Condition:

Given a master impression, treatment plan or prescription, a magnification device and analogues

Task:

Attach analogues to the impression transfer coping, if necessary, and reseat copings in the impression

Criteria:

Technical Quality:

- So that the analogues are fitting flush with transfer impression copings
- So that there is no movement of the analogues
- The impression transfer screw must be secure
- So that there are no voids around the screws
- So that the screws are locked in position and cannot be rotated or moved

Condition:

Given the implant final impression with analogues and copings in place with written verification of accuracy of component fit from a Health Professional (i.e. dentist or denturist)

Task:

Pour final impressions to create master model

Criteria:

Technical Quality:

- So that the model is clear of voids, has no air bubbles, has a dense smooth surface and is a faithful reproduction of the impression
- So that soft tissue material is poured wherever the interface of the analogue impression coping is below tissue level
- So that the model displays all anatomical tissue landmarks
- So the components have not shifted or moved

Condition:

Given a final model, treatment plan or prescription and selected components

Task:

Fabricate an occlusal registration device(s), if needed, and record the components used

Criteria:

Technical Quality:

- According to the requirements of the type of implant restoration
- According to the technique specified in the prescription
- So that the occlusal registration device(s) has a passive fit to the master model according to the technique prescribed
- So that there is full and complete contact between the abutting surfaces of the occlusal registration device(s) and the implant cylinder
- So that the occlusal registration device(s) is constructed so as to enable the Health Professional to establish the patient's jaw relationship
- So that the identification of the component parts used is recorded

Safety:

- So that materials used are either ADA, CDA, Health Canada or FDA approved
- So that if materials do not have either ADA, CDA, Health Canada or FDA approvals, the RDT must inform the prescribing Health Professional and record the Health Professional's approval and the materials used

Condition:

Given a completed occlusal registration device(s)

Task:

Send occlusal registration device(s) to the Health Professional

Criteria:

Technical Quality:

- Packing it so that it will be received by the Health Professional with no damage or distortion

Condition:

Given the master and opposing models, occlusal registration device(s) treatment plan or prescription and an articulator

Task:

Mount the master and opposing models on the articulator

Criteria:

Technical Quality:

- So that the patient's jaw or occlusal relationship is established in accordance with the occlusal registration(s) provided by the Health Professional

FIXED CROWN & BRIDGE RESTORATION

Condition:

Given a master model with a treatment plan or prescription specifying crown & bridge, and the selected components

Task:

Construct the restoration

- Follow Crown & Bridge Standards #8-15
- Note that the criteria listed below apply to Crown & Bridge Standards #8-15 when implants are involved

Criteria:

Technical Quality:

- Following the Health Professional's prescription
- So that the appropriate and selected implant components as per the treatment plan are used
- So that the restoration has a passive fit on abutments or implants
- So that the components used are recorded

OVER DENTURE OR FIXED DETACHABLE RESTORATION (HYBRID)

Condition:

Given the treatment plan or prescription, articulated master models and implant components, teeth and wax

Task:

Select and set-up teeth and wax-up

Criteria:

Technical Quality:

- Following the Health Professional's prescription and/or instructions
- So that the shade of the teeth matches the prescription
- So that the mold is selected in accordance with the manufacturer's suggested criteria
- So that the teeth are set-up to achieve the required occlusal relationship
- So that the wax-up is done according to anatomical requirements
- So that the aesthetic requirements specified by the Health Professional are met
- According to the anatomical and implant system requirements

OVER DENTURE OR FIXED DETACHABLE RESTORATION (HYBRID)

Condition:

Given a completed set-up and wax-up

Task:

Send the wax-up to the Health Professional for try-in

Criteria:

Technical Quality:

- Packing it so that it will be received by the Health Professional with no damage or distortion

OVER DENTURE OR FIXED DETACHABLE RESTORATION (HYBRID)

Condition:

Given a set-up that has been approved by a Health Professional, and given that any required adjustments are noted on the prescription

Task:

Create a matrix of existing set-up, if necessary

Criteria:

Technical Quality:

- So that the matrix is dimensionally stable and transferable
- So that the matrix represents an accurate reproduction of the placement of the teeth and denture base contour

OVER DENTURE OR FIXED DETACHABLE RESTORATION (HYBRID)

Condition:

Given the treatment plan or prescription, articulated master model(s), matrix, implant components, teeth and wax

Task:

Fabricate sub-assembly or substructure

- Follow Crown & Bridge Standards #8-15 and then Full Denture Standards #12-24
- Note that the criteria listed below apply to Crown & Bridge Standards #8-15 and Full Denture Standards #12-24 when implants are involved

Criteria:

Technical Quality:

- Following the Health Professional's prescription
- So that the substructure is free of porosity or voids
- So that the substructure has passive fit to the master model
- So that the substructure is designed to support the chosen restoration
- So that the appropriate and selected components and materials as defined by the treatment plan are used
- So that the metal seat of the implant cylinder is not damaged