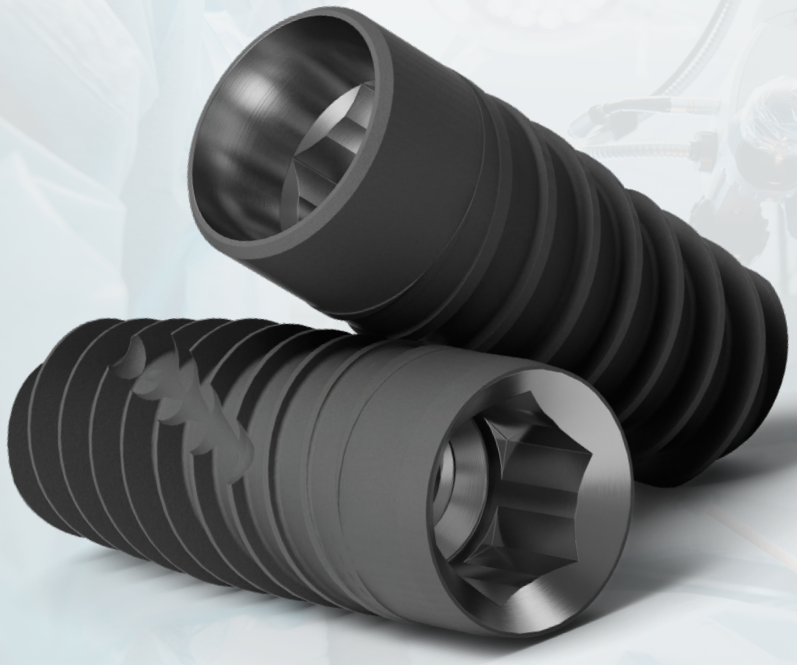
Clinical Perspectives

The Immediacy Advantage

Clinical case with the TSX® Implant



ZimVie

Immediate placement of TSX Implants in the anterior

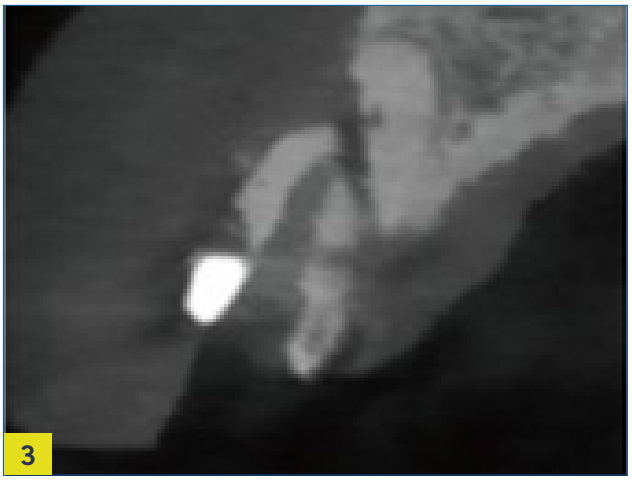
(Case images 1 through 4)

Patient profile: 52-year-old female with root fracture of the maxillary left central incisor

Diagnosis: Tooth extraction. A vertical crack line was identified along the apical direction on the labial side of the root of the left central incisor.

- Pre-operative clinical image: The affected tooth's gingival level was at the same level as the contra-lateral tooth.

- Pre-operative radiographic findings: revealed diffuse bone translucency around the root.



- After infiltration anesthesia, bone sounding with a probe was used to confirm the labial alveolar bone morphology.

- A flapless gentle extraction was performed, preserving the labial alveolar bone and inter-dental papilla.

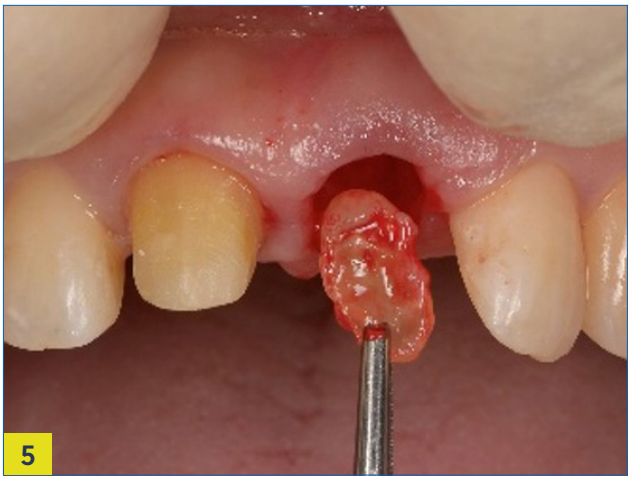
Clinical photographs courtesy of Takehiro Hayashi, DDS. Individual results may vary.

Immediate placement of TSX Implants in the anterior

(Case images 5 through 8)

Patient profile: 52-year-old female with root fracture of the maxillary left central incisor

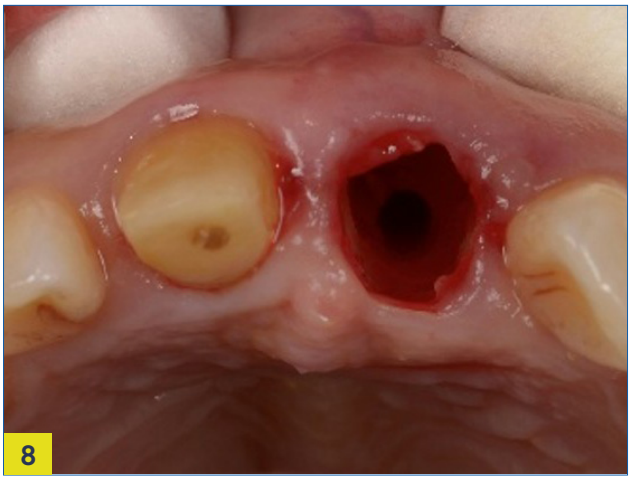
Diagnosis: Tooth extraction. A vertical crack line was identified along the apical direction on the labial side of the root of the left central incisor.



- According to the TSX extraction socket drill protocol, final preparation was performed with a 2.3 mmD drill.

- The palatal bone edge was prepared with a diamond-guided drill.

- The implant diameter was selected to allow for a distance of approximately 3 mm between the labial implant surface and the lateral wall of the labial bone.



- A TSX 3.7 mmD x 13 mmL Implant (TSX37B13) was placed medial to the incisal line, at the basal tuberosity.

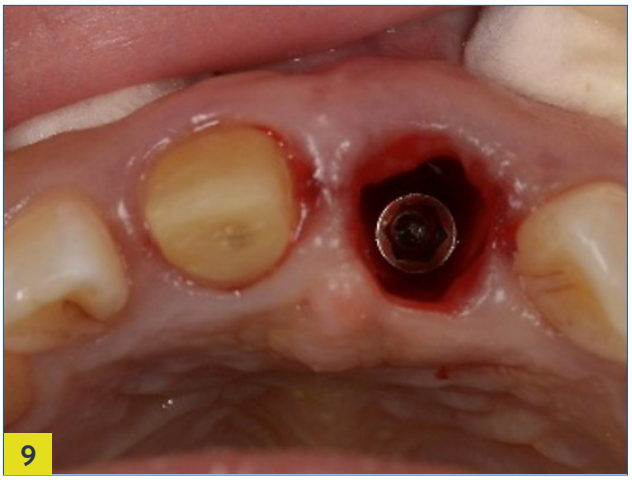
Clinical photographs courtesy of Takehiro Hayashi, DDS. Individual results may vary.

Immediate placement of TSX Implants in the anterior

(Case images 9 through 12)

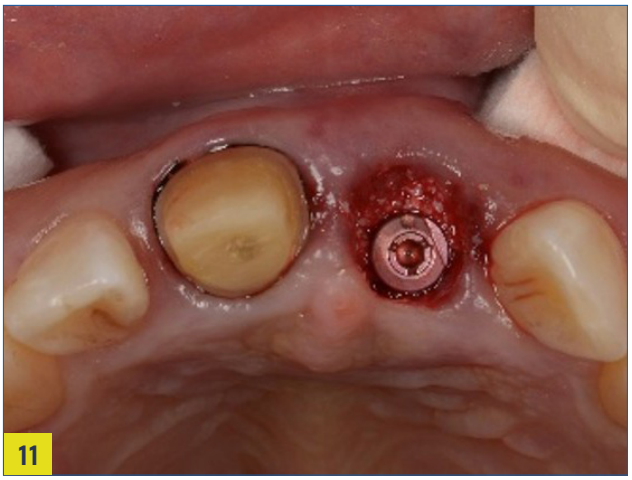
Patient profile: 52-year-old female with root fracture of the maxillary left central incisor

Diagnosis: Tooth extraction. A vertical crack line was identified along the apical direction on the labial side of the root of the left central incisor.



- The implant platform was positioned 4 mm below the gingival margin.

- Since reliable initial stability was achieved, the doctor planned to take an immediate impression using an intraoral scanner.



- Following the IOS Workflow, a PVR Ovate Pontic was placed on the Encode® Healing Abutment to preserve the gingival margin.

- After six weeks to allow time for soft tissue healing, the PVR was removed and maxillary and bite scans were performed.

Clinical photographs courtesy of Takehiro Hayashi, DDS. Individual results may vary.

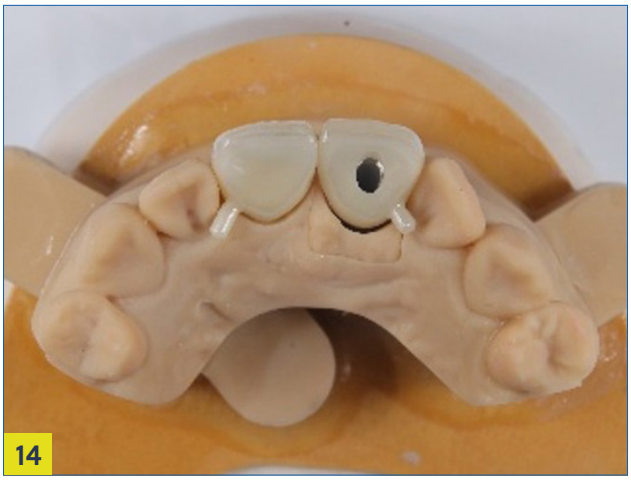
Immediate placement of TSX Implants in the anterior

(Case images 13 through 16)

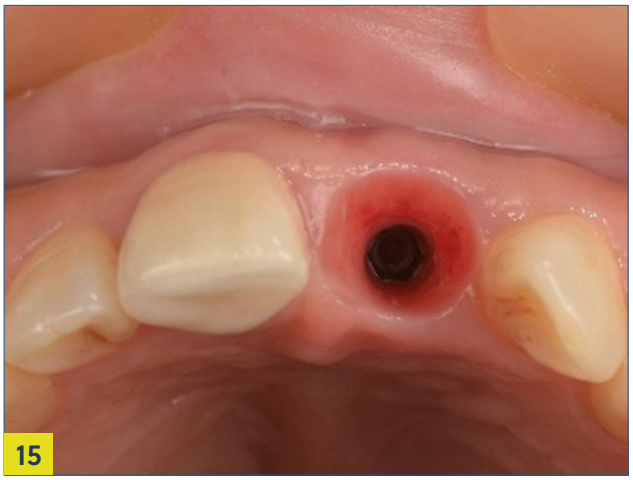
Patient profile: 52-year-old female with root fracture of the maxillary left central incisor

Diagnosis: Tooth extraction. A vertical crack line was identified along the apical direction on the labial side of the root of the left central incisor.

- The prosthetic form was confirmed on a 3D printed model.



- Prosthetic design: The transgingival portion was raised straight from the platform, and the emergence angle was set within 30°.



- Frontal view after definitive prosthesis placement, 10 weeks after implant placement.

- Definitive prosthetic

Clinical photographs courtesy of Takehiro Hayashi, DDS. Individual results may vary.

Takehiro Hayashi, DDS Practice

Dr. Takehiro Hayashi is an experienced implant and esthetic dentistry clinician based in Tokyo. Since founding Yoshiki Dental Clinic in 2004, he has focused on implant dentistry, esthetic rehabilitation, and interdisciplinary treatment planning, with an emphasis on long-term functional and esthetic outcomes. He is a ZimVie Japan Instructor and an ICOI and OJ Fellow.

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