



Positioning guide for provisionalization in the esthetic zone

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Purpose:

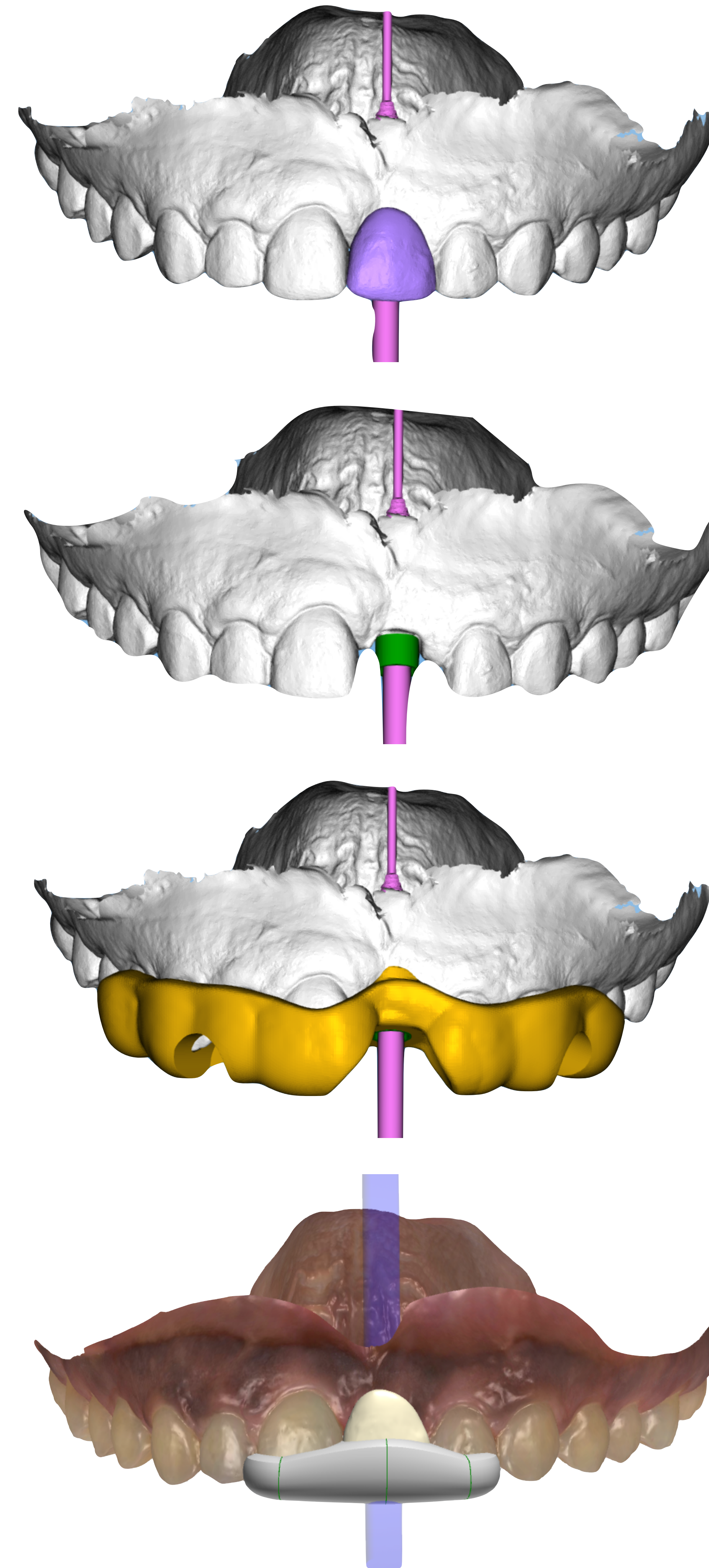
Describe a technique for placing the provisional precisely, matching the exact position of the implant planned digitally.

Introduction:

- A 23-year-old female with missing tooth #9, wanted to be rehabilitated with implant therapy.
- The implant placement was planned to be fully guided and restored immediately, therefore, a positioning guide was designed to facilitate the fabrication of the provisional.

Methodology:

- Intraoral scanning and CBCT were taken.
- Both files were aligned and a digital wax-up was designed with CAD/CAM software mirroring the contralateral tooth number 8.
- A 3.5x10mm implant was planned to be placed based on the new tooth (wax-up) position and a tooth-supported surgical guide was designed.
- After that, a positioning guide was designed overlaying the incisal edges of the planned provisional and the adjacent teeth (#8 and #10) to ensure the provisional position.
- Finally, the screw access hole was designed for both the guide and the provisional following the implant axis.



Results:

- The provisional 3D position was successfully maintained by the guide.
- The cylinder pick-up was easy and fast to perform.
- Chairside fabrication was facilitated by the guide.

Discussion:

- Immediate implant loading has been reported to reach consistently high success rates, comparable to conventional loading protocol in both the mandible and maxilla.
- Some of the critical advantages of immediate restoration are significantly shortened treatment time, fewer surgeries, and immediate esthetic rehabilitation.
- The use of a provisional restoration at the time of implant placement may provide a platform to promote peri-implant soft tissue healing.
- The positioning guide can be used as a predictable option to fabricate the provisional in the planned 3D position.

Conclusions:

- The positioning guide has been shown to be an extremely useful tool for esthetic zone provisionalization when immediate loading.
- It makes the provisionalization easier and faster.

References

