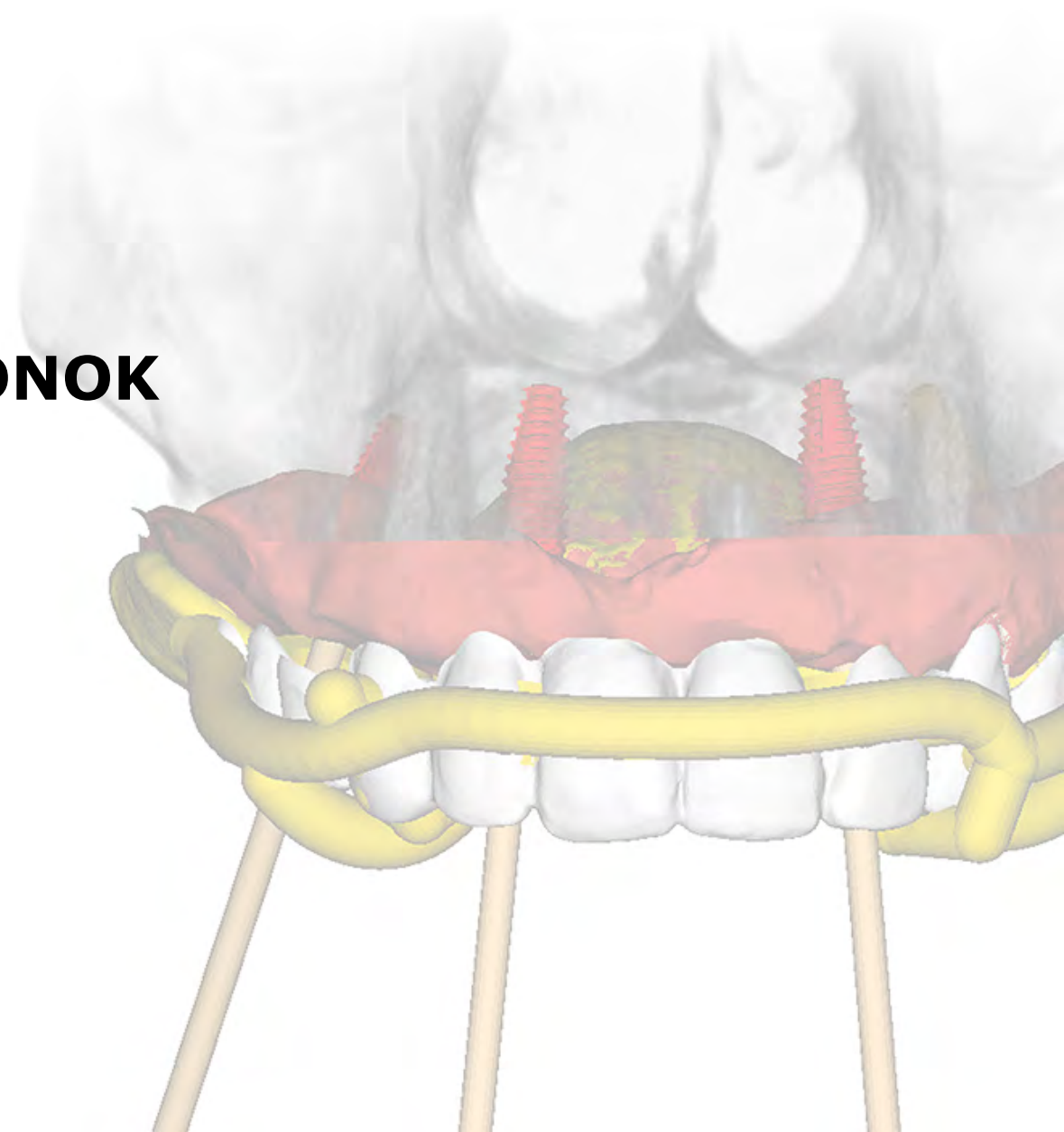


STACKABLE GUIDES avagy az **EGYMÁSRA ILLESZTHETŐ SABLONOK**

Teljesen parametrikus megoldású fúró sablonok,
melyek használata könnyű, gyors és pontos

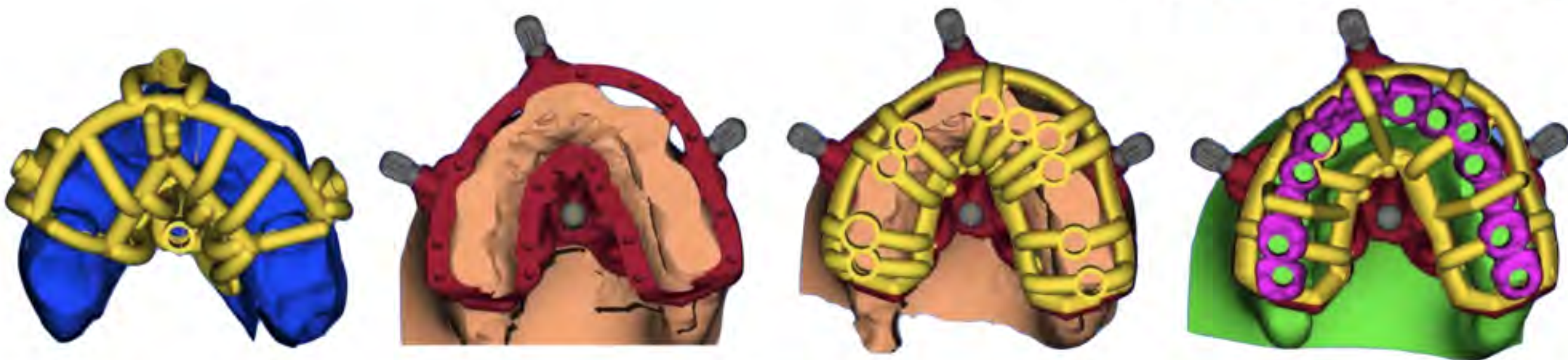


Problem: Large number of patients with tooth & bone loss lead to complex treatment options (US)

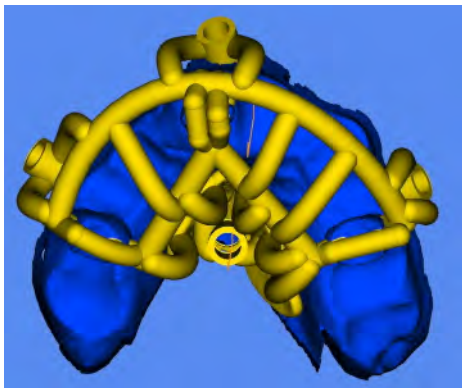
Solution: Provide a set of surgical templates to guide the surgeon through all steps of surgery incl. bone leveling, implant placement & direct fixation of temporary prosthetic solution

Advantages: one surgery only, reduced complexity in surgery, predictable accuracy, increased comfort and reduced pain for patient, reduced effort in design of separation plane of stackable guide through patented semi automatic algorithm, reduced cost

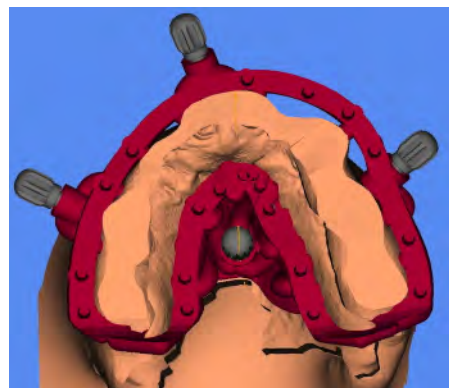
Budget and Timeline: 500'000 CHF, stage in last phase of testing



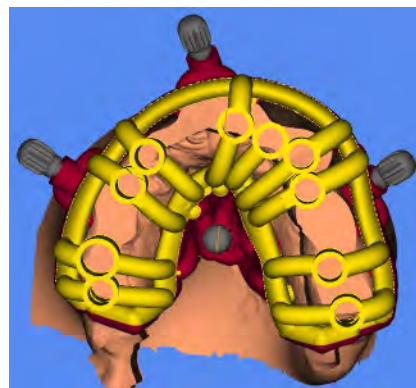
4 darabos fúrósablon készlet (4 fúrósablon)



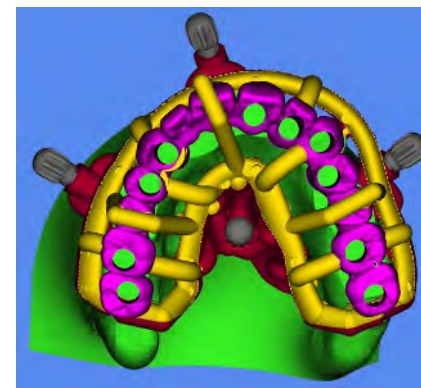
Rögzítő csap fúrósablon



Alap sablon



Fúrósablon



Ideiglenest tartó
sablon

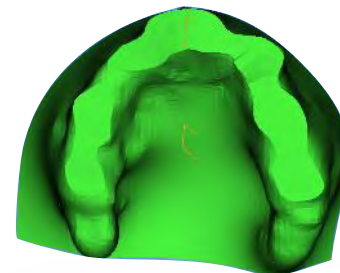
További 3D testek, melyek támogatják a többrészes sablon tervezést



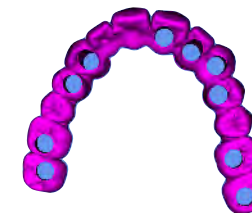
Rögzítő csap fúrósablon



Szeparációs felület



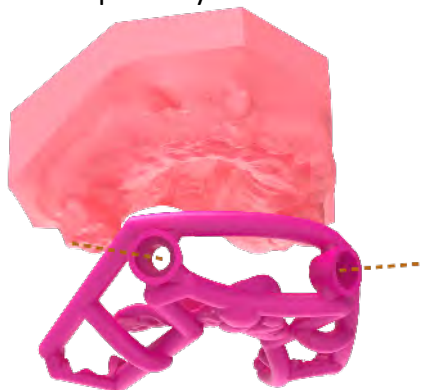
Alap model



Ideiglenes provízió

Eszközök és a munkafolyamat (Műtét)

1. Helyezze a rögzítőcsap sablont az állcsontra
2. Fúrja meg a rögzítő csapok helyét



Rögzítőcsap sablon

1. Távolítsa el a rögzítőcsap sablont
2. Rögzítse az alapsablont az előbb megfúrt furatokba a rögzítő csapok segítségével



Alap sablon

1. Pattintsa a fúrósablon az alapsablont
2. Fúrja meg az implantátumok furatait
3. Helyezze be az implantátumokat a sablonon keresztül



Fúró sablon

1. Távolítsa el a fúrósablon
2. Helyezze fel az ideiglenes felépítményeket az implantátumokra
3. Helyezze az ideiglenes pótlást az ideiglenest tartó sablonba
4. Pattintsa az ideiglenest tartó sablont az alap sablonra
5. Polimerizálja az ideiglenes pótlást a felépítményekhez



Ideiglenest tartó sablon

1. Távolítsa el az ideiglenest tartó sablont
2. Távolítsa el az alap sablont



Végső állapot



Brandon Osborn

12 March at 20:45 · 🌐

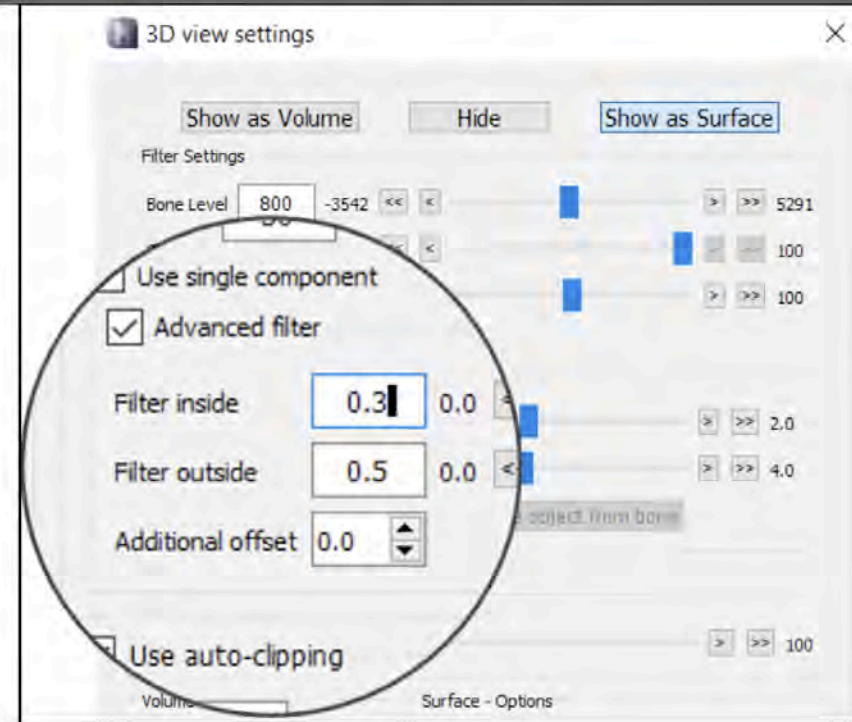
Stackable for maxilla and mandible. Also carrying the provisionals on the base guide for ease and accuracy of delivery. Thank you to the [Smop Swissmeda](#) team for the lovely software to make this happen.



- [STG Base and Drilling Guide](#) – a stackable guide consisting of 2 parts: Base (Base Guide) and Drilling Guide.
- [STG Fixation \(base supported\)](#) – a stackable fixation guide which lies on Base Guide.
- [Standard Guide](#) – a standard stand-alone surgical guide designed to guide implant placement.
- [Standard Guide \(denture supported\)](#) – a standard surgical guide designed using an imported denture scan as a base model.
- [Fixation stand-alone guide \(teeth supported\)](#) – a surgical guide designed using Model STL as a base model. The construction rests on remained teeth and guides the drilling of fixation elements. The positions of fixation elements are used by subsequent stackable guides.
- [Fixation stand-alone guide \(denture supported\)](#) – a surgical guide designed using denture scan as a base model, for edentulous cases. The guide rests on physical denture to drill the holes for fixation elements.
- [Provisional Holder \(cage\)](#) – a stackable guide consisting of 3 parts: Prefabricated Provisional, Provisional Holder and Base Guide. For the “cage” type the Prefabricated Provisional is inserted into the Provisional Holder which is attached to Base Guide.
- [Provisional Holder \(fuse\)](#) – a stackable guide consisting of 2 parts: Base Guide and Provisional Holder. For the “fuse” type, the Prefabricated Provisional and arches fused to it are considered Provisional Holder and are attached to Base Guide.

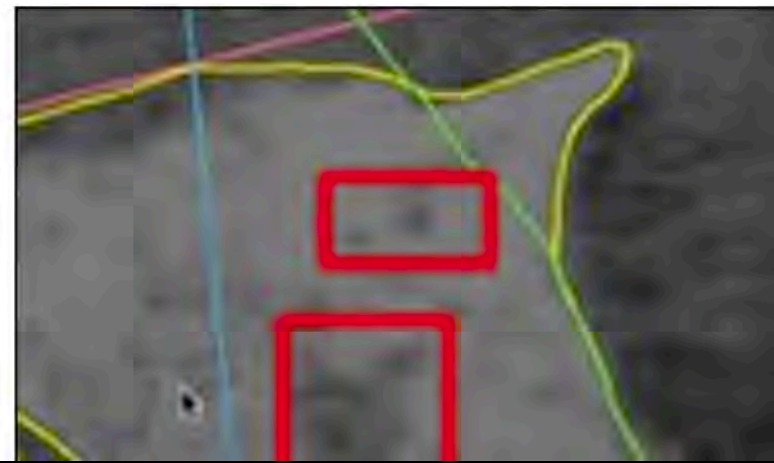
The **Advanced filter** checkbox activates the section and allows you to set the parameters for filtering. There are 3 options available for filtering: **Filter inside**, **Filter outside** and **Additional offset**.

Note: *The metric system is in millimeters.*



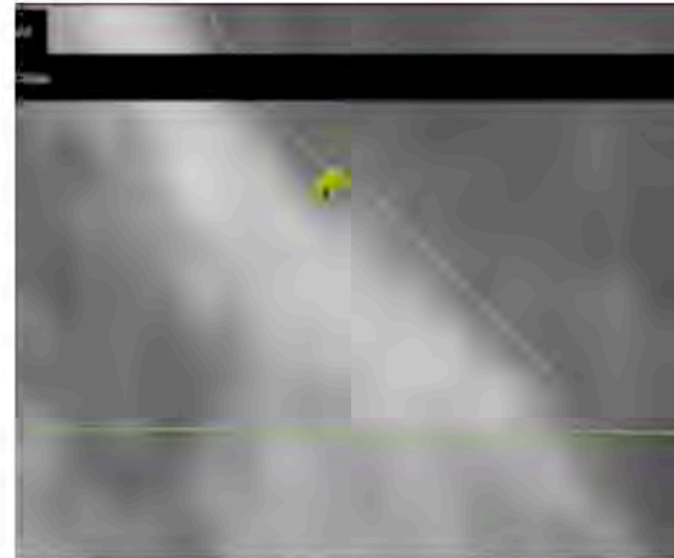
Advanced filters

- **Filter inside** — set the radius length (in mm) for the interior part of the bone surface to apply filters to. The filter cleans up all 'noise' inside of the bone surface. The standard parameter for inside filtering is 0.3 millimeters, but you need to decide by yourself which parameter meets your expectation.



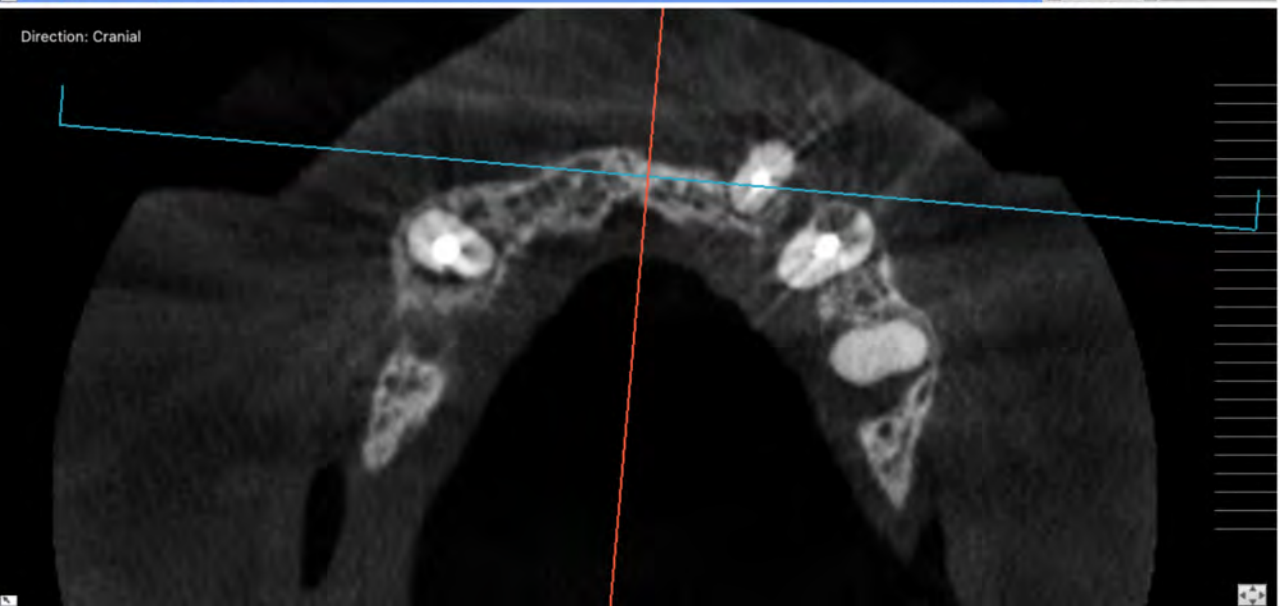
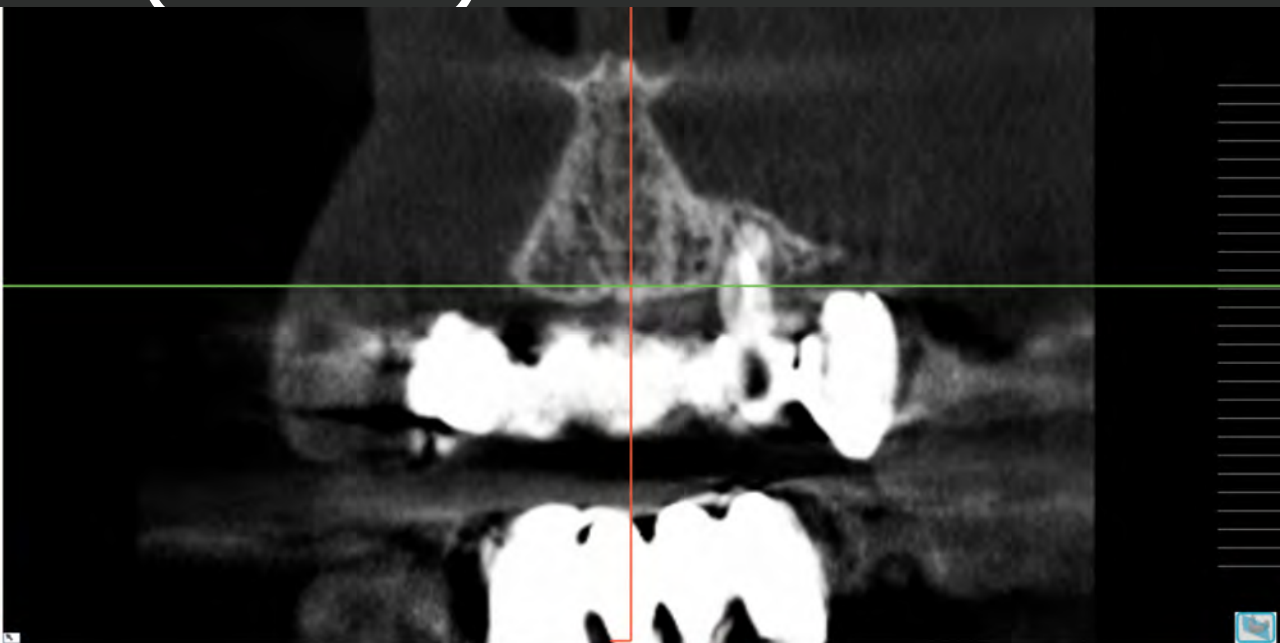
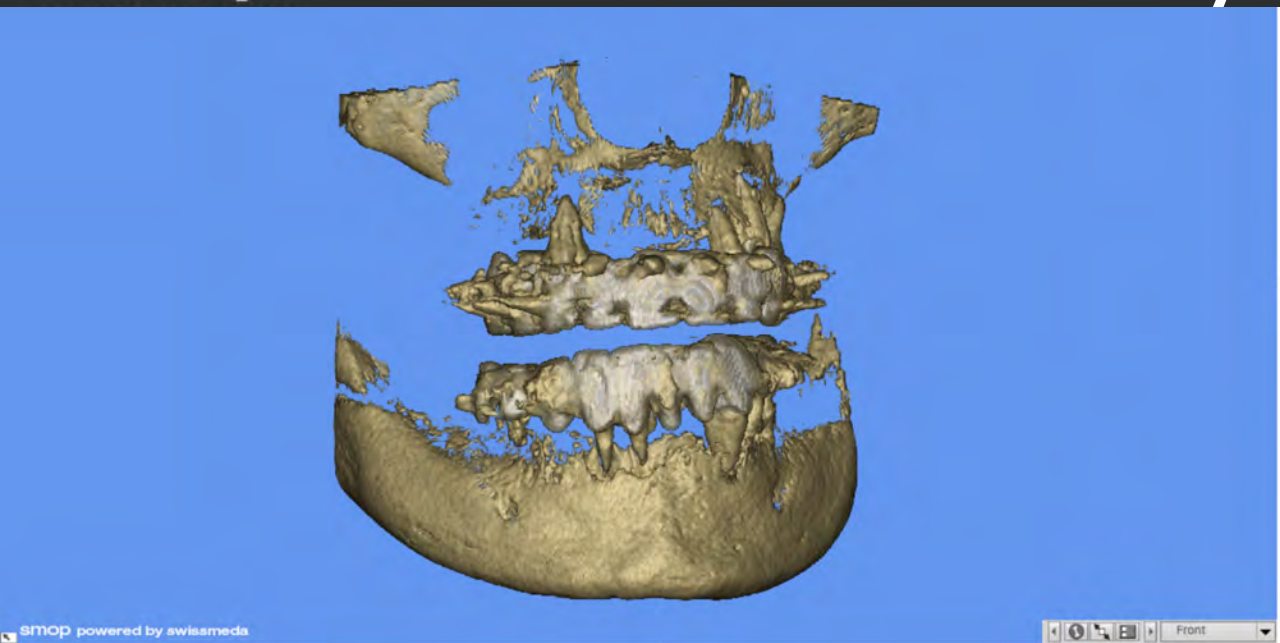
the whole cavity will be filtered out and covered with the bone surface.

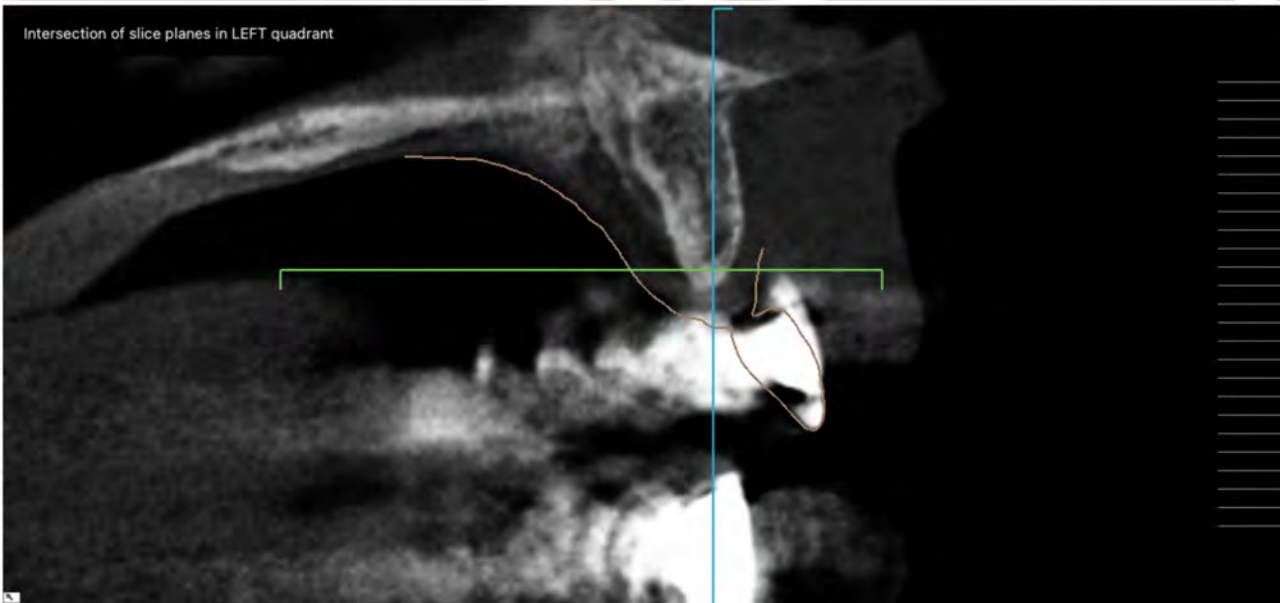
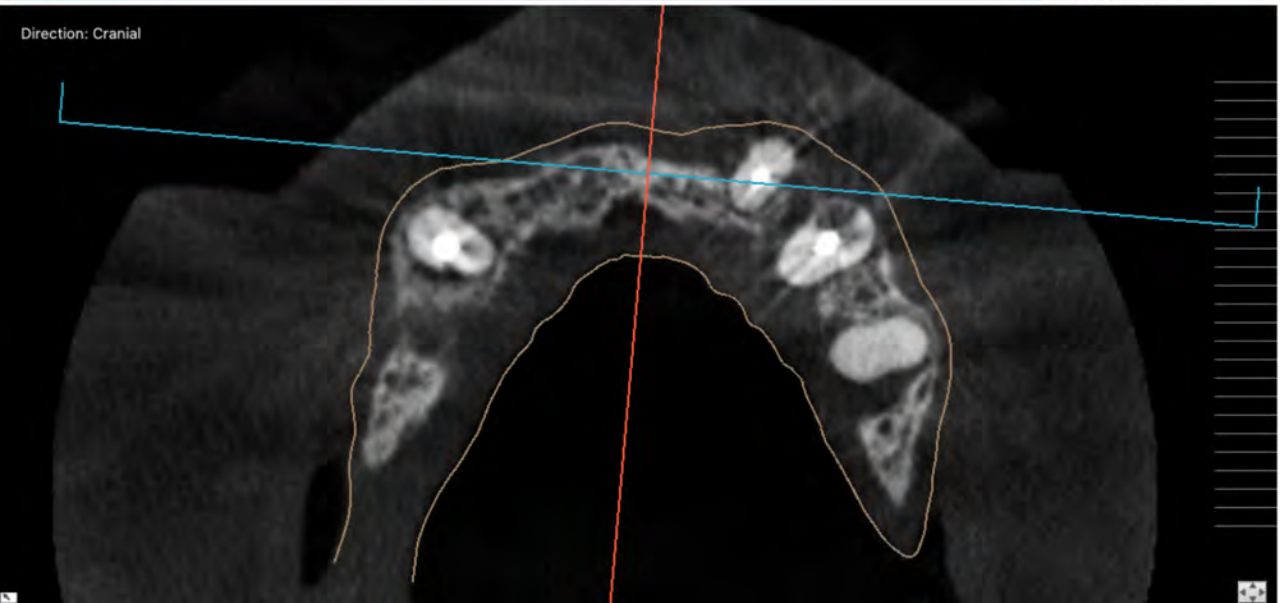
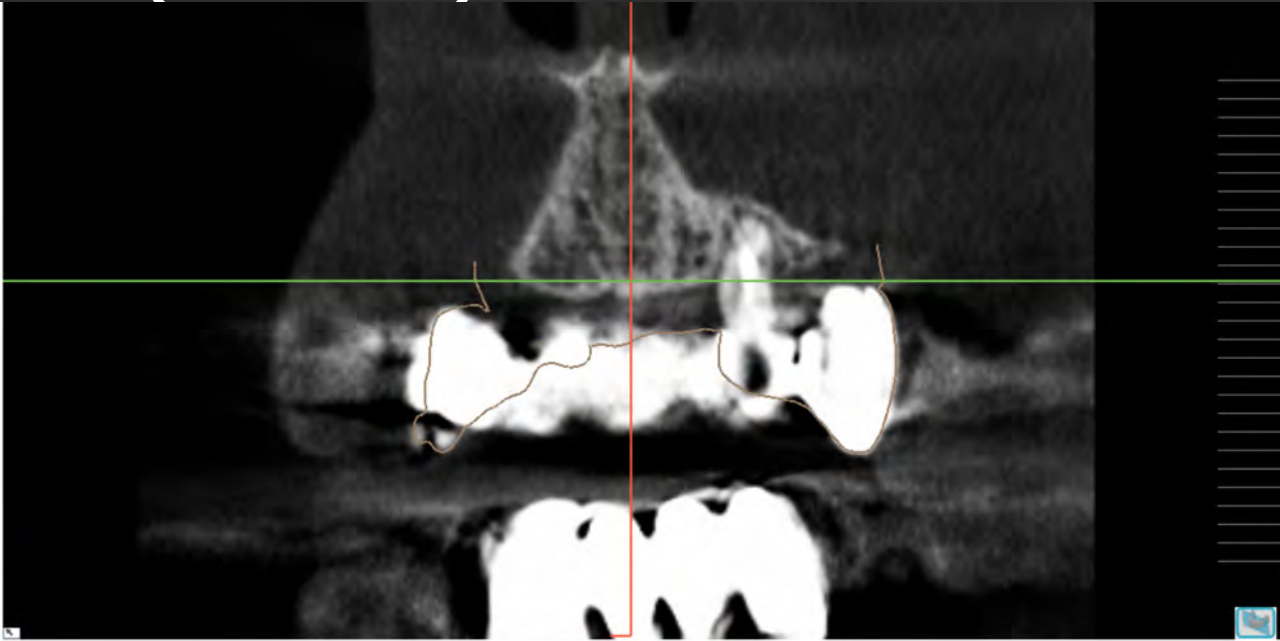
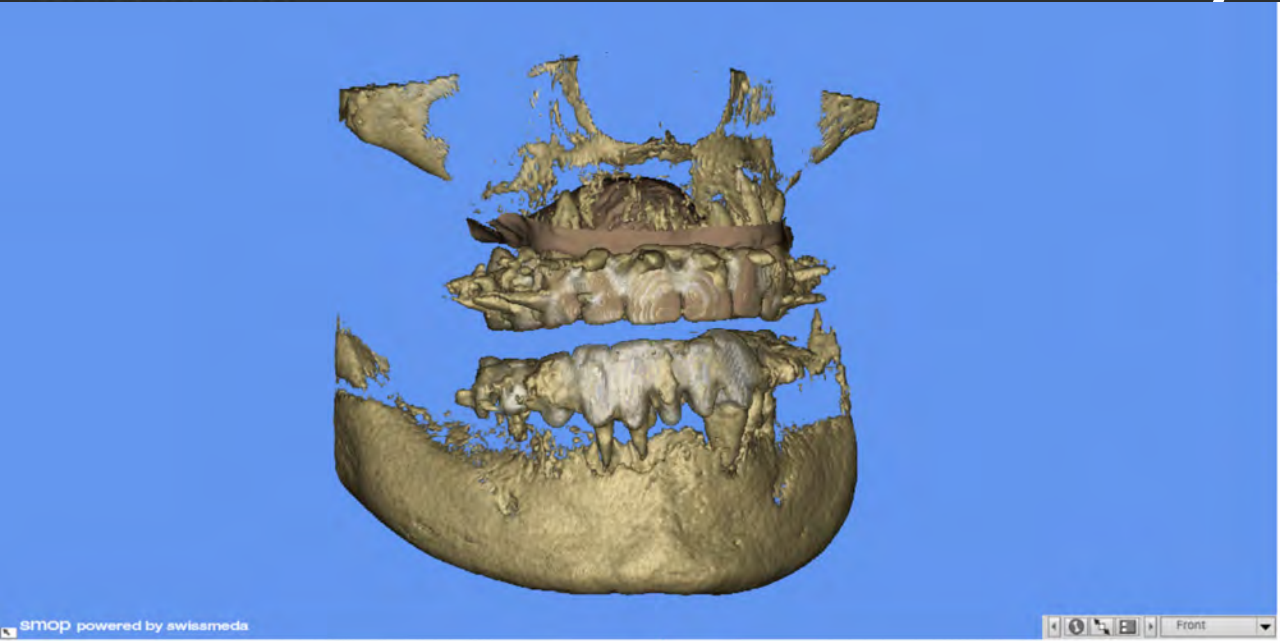
- **Additional offset** — allows you to enlarge the bone level outline. This is for assuming some differentiations that can emerge on the invisible part of the bone and ensure there are enough area filtered as bone. This way, we consider that the filtering and definition of bone level are the approximation to the actual bone situation, which is revealed during the surgery only. With additional offset, we add a security margin to avoid collisions between the calculated bone level and the actual bone level and bone density. So, first, the system computes the surface level, and then, with addition offset feature, it puts the margin beyond it.

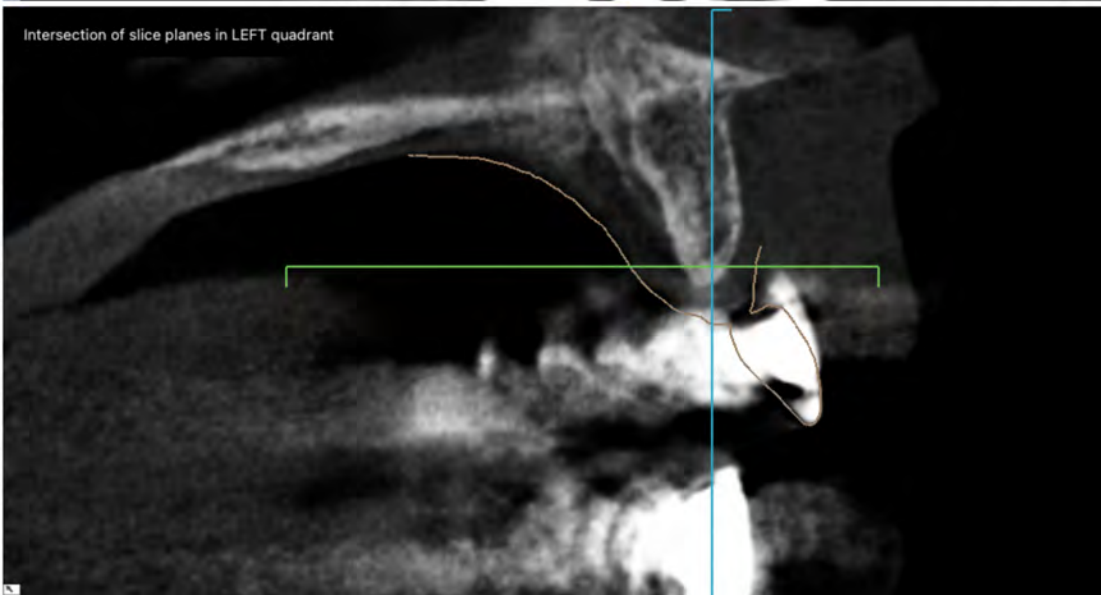
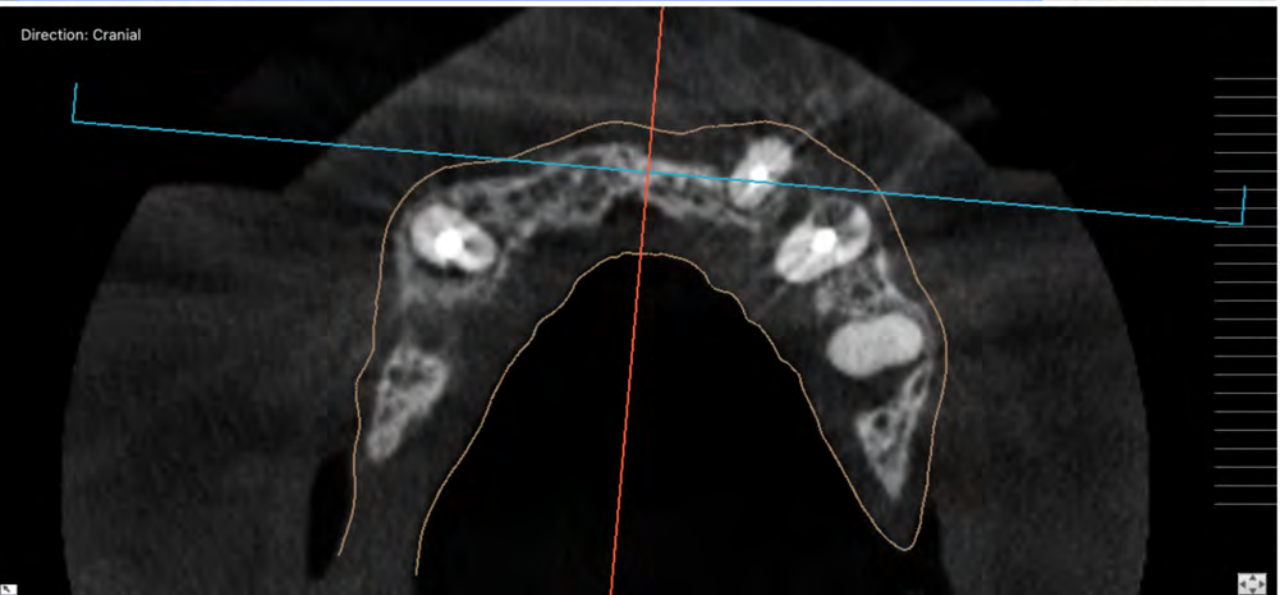
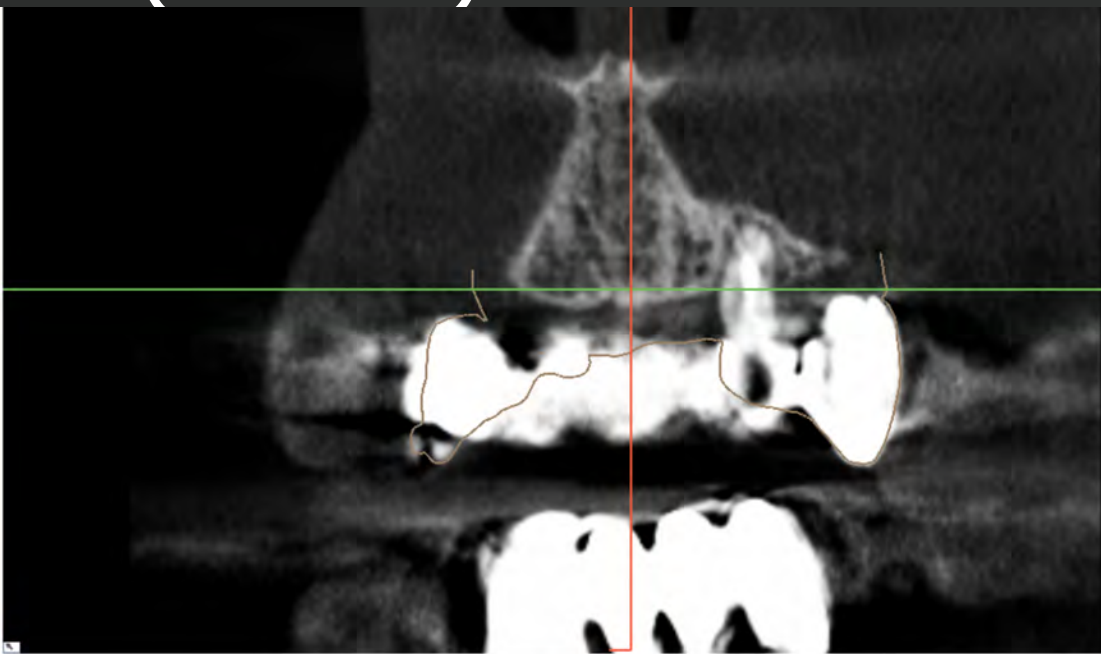
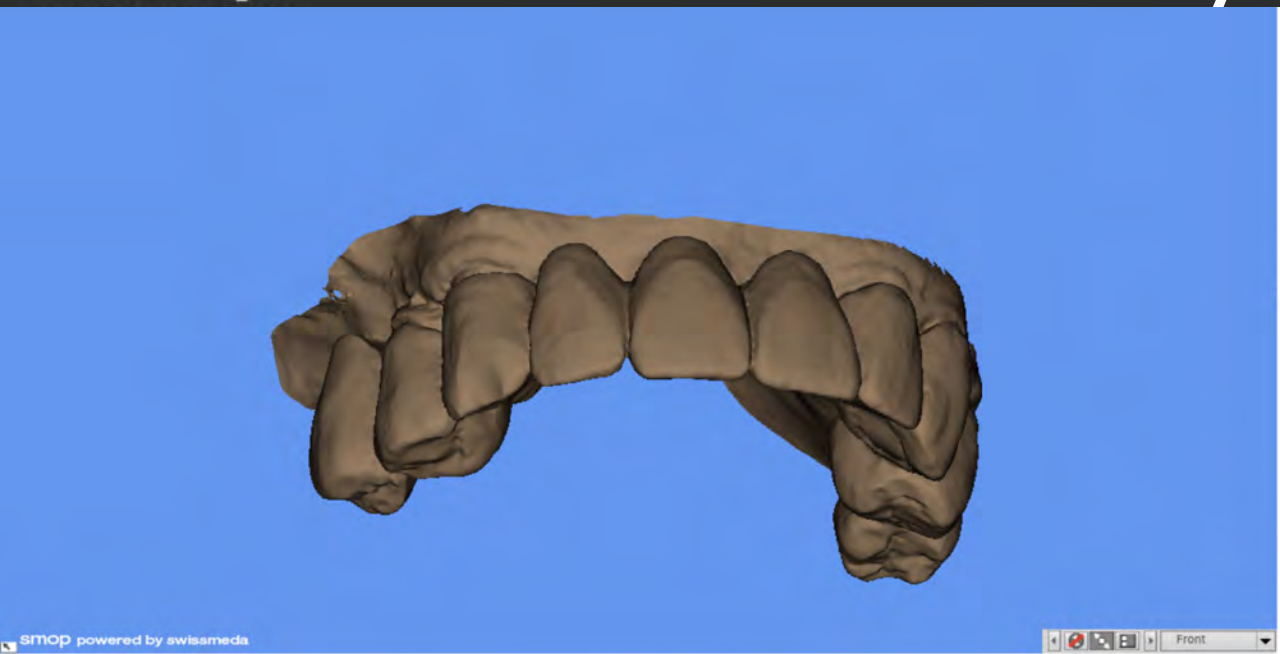


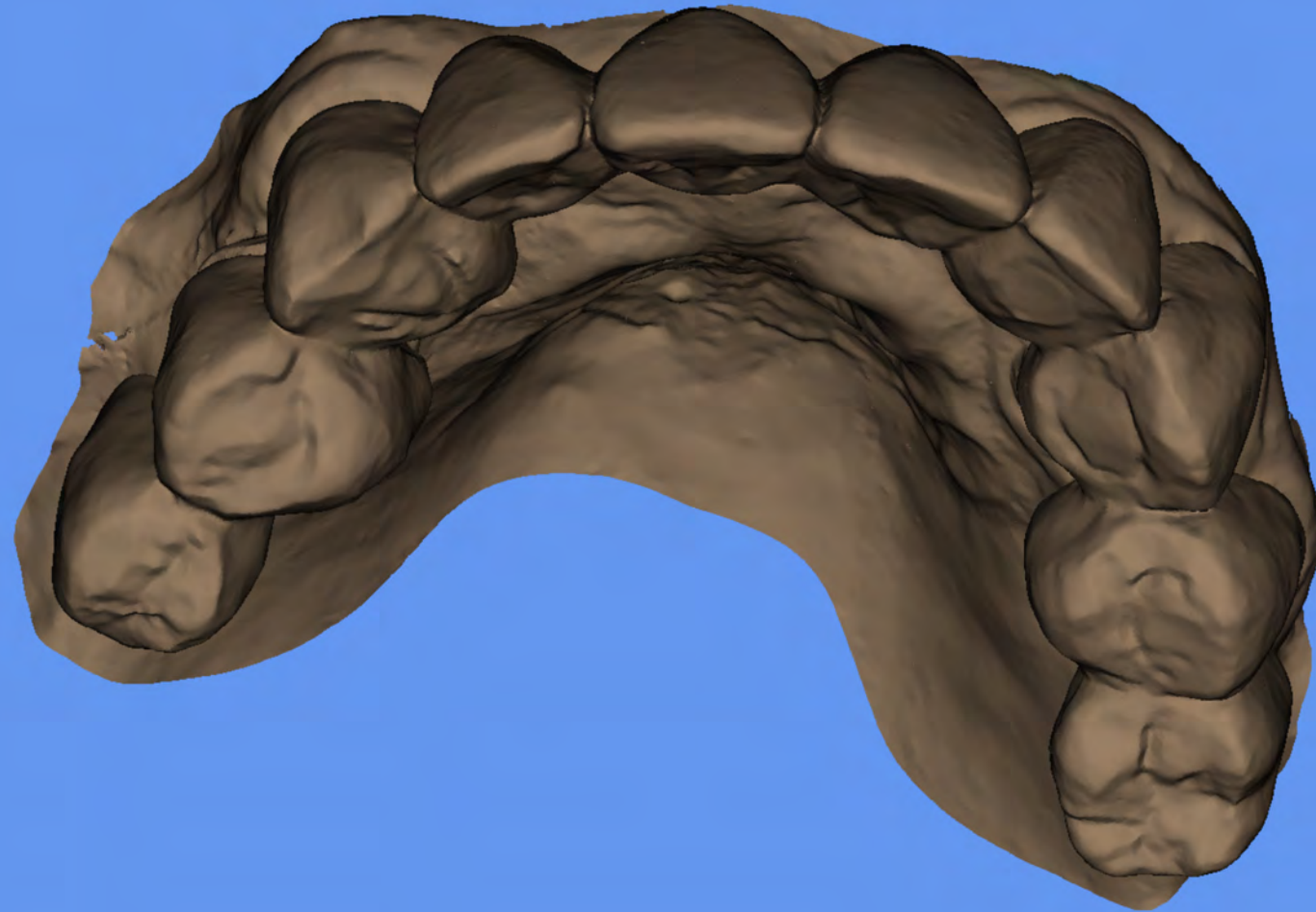
The additional offset is 0.3 mm. The margin is beyond the visual bone level for 0.3 mm

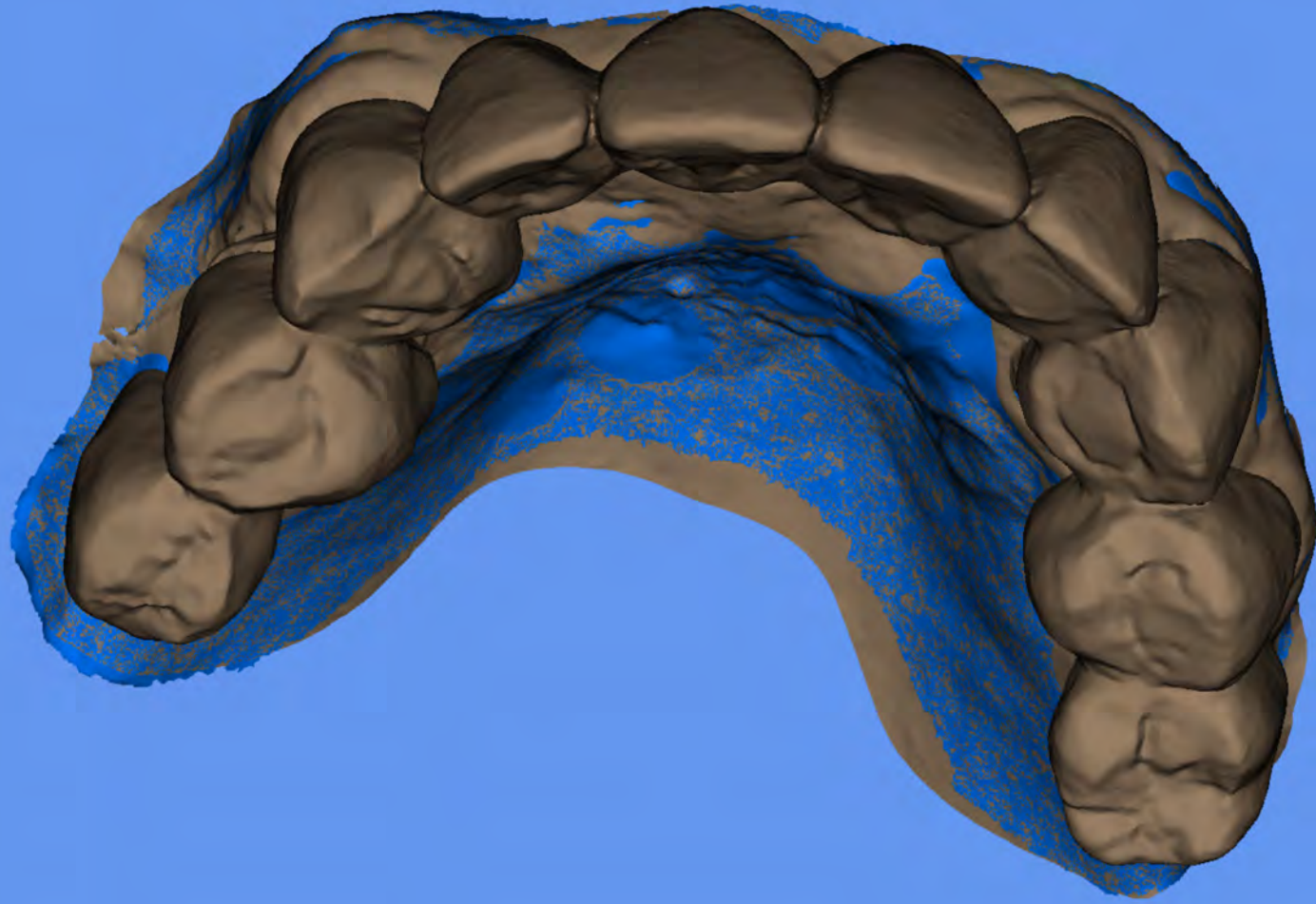
Note: *Is the value for additional offset set bigger than the length of cavity, the cavity is replaced with a smooth interpolation.*

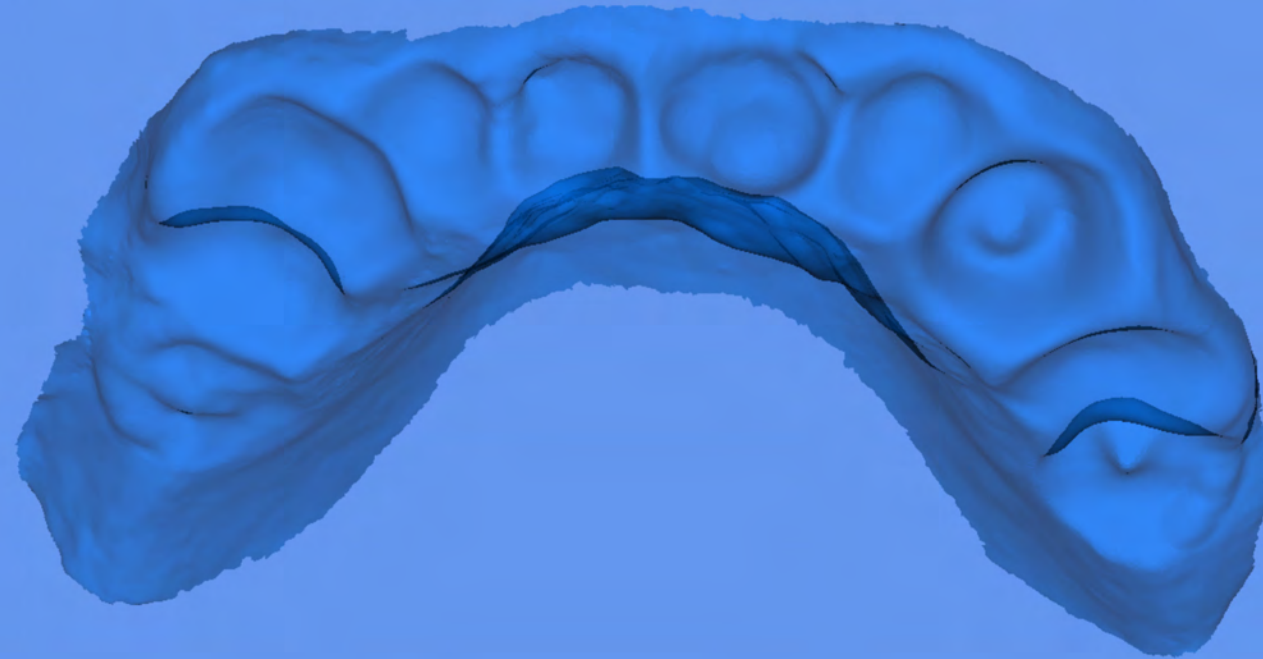


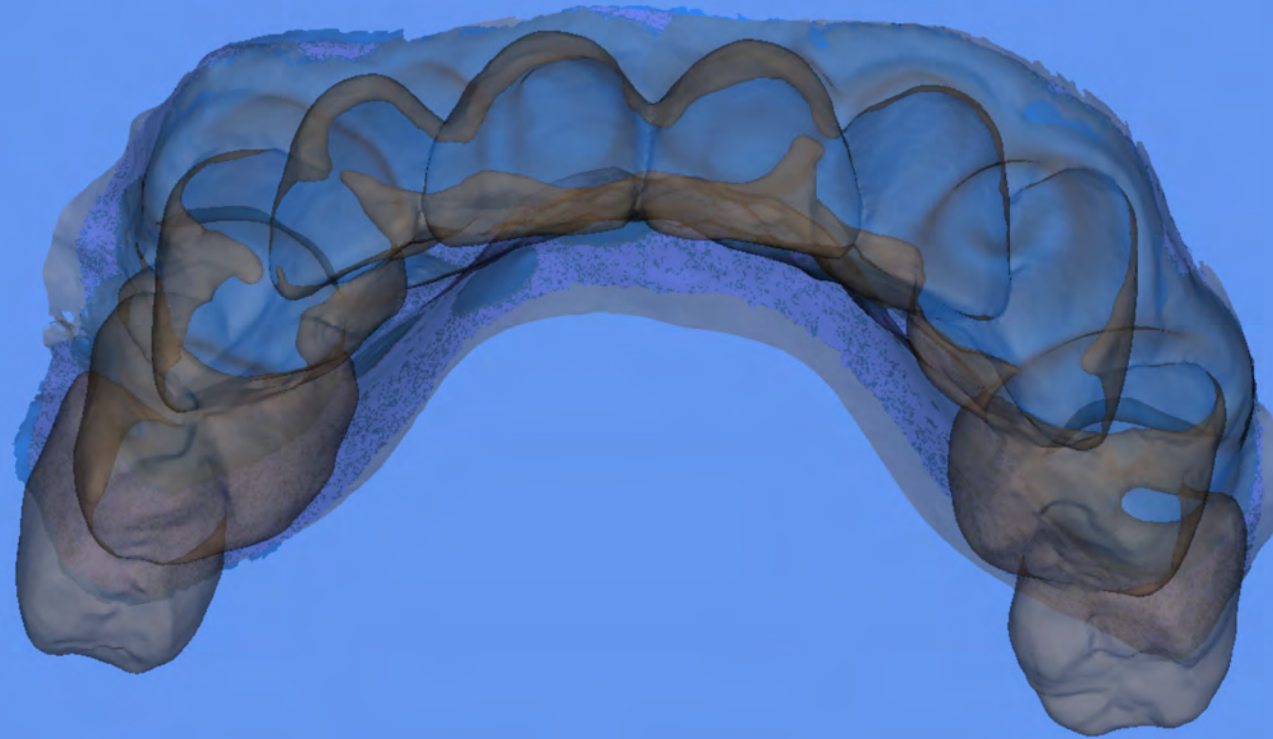


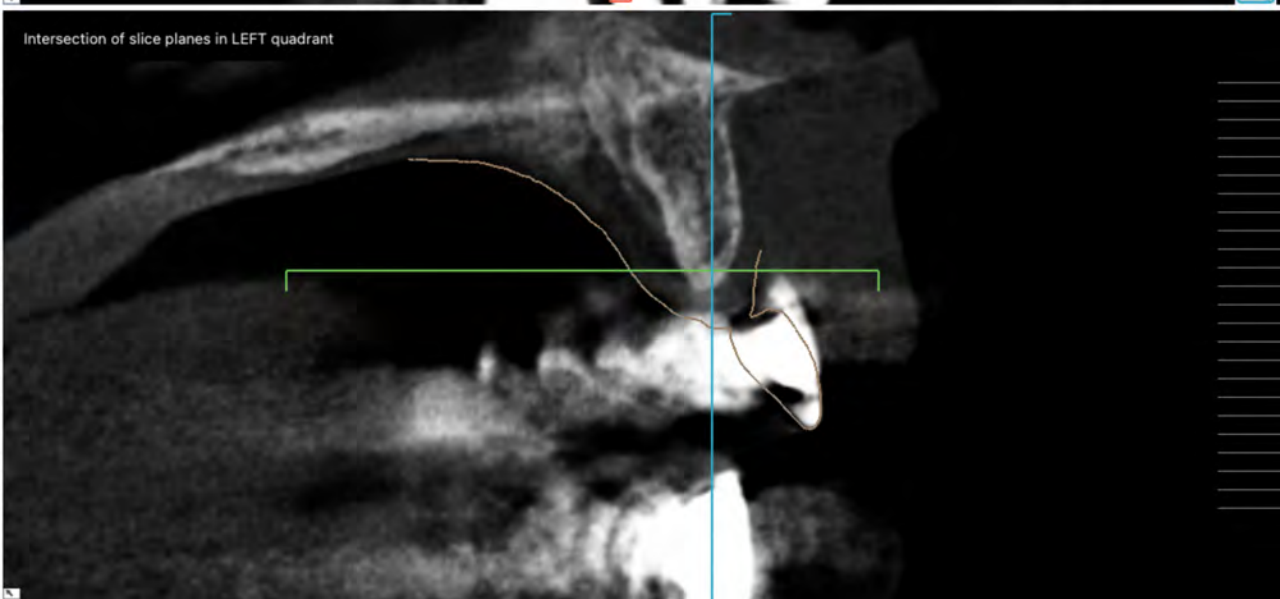
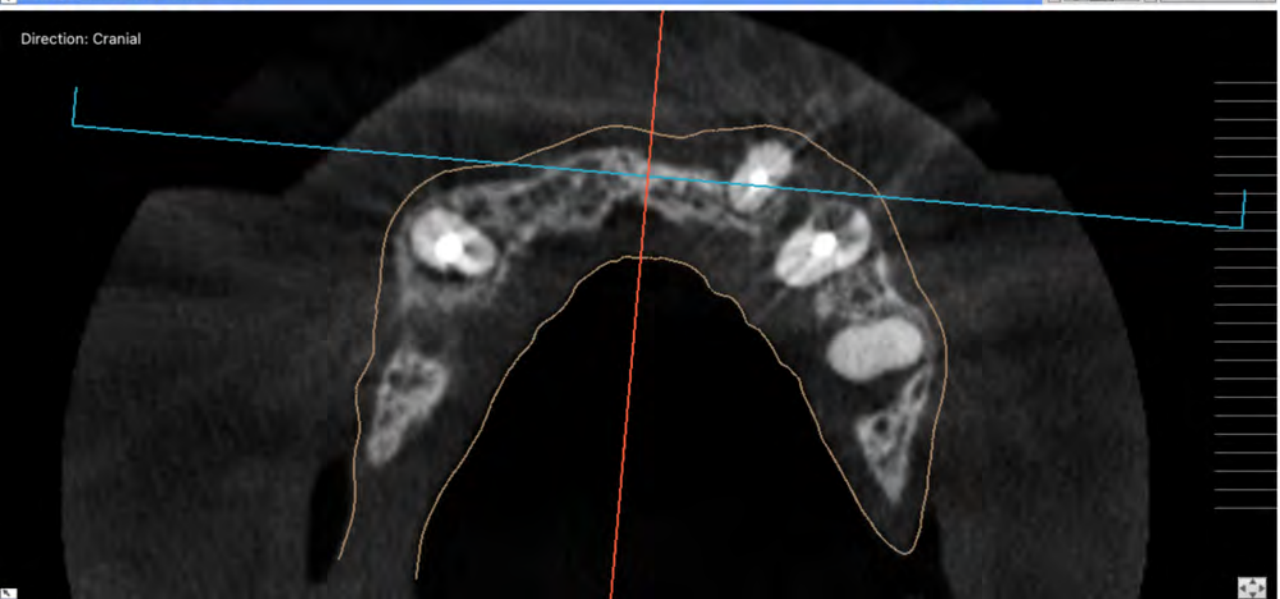
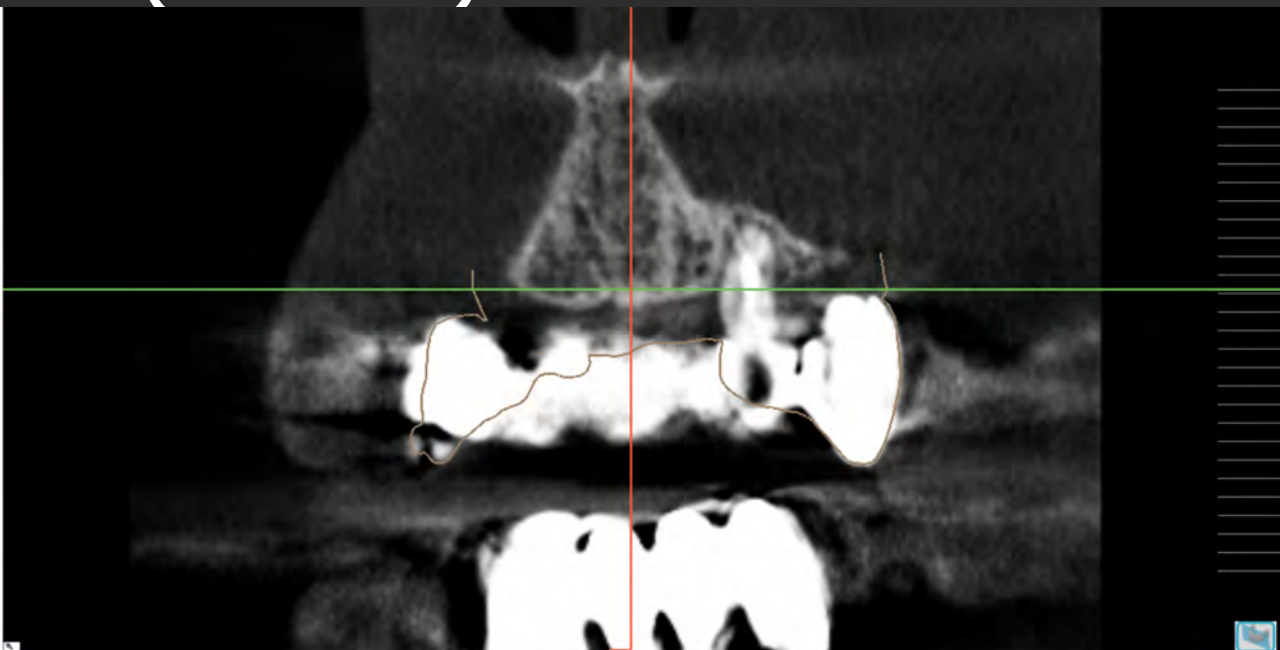
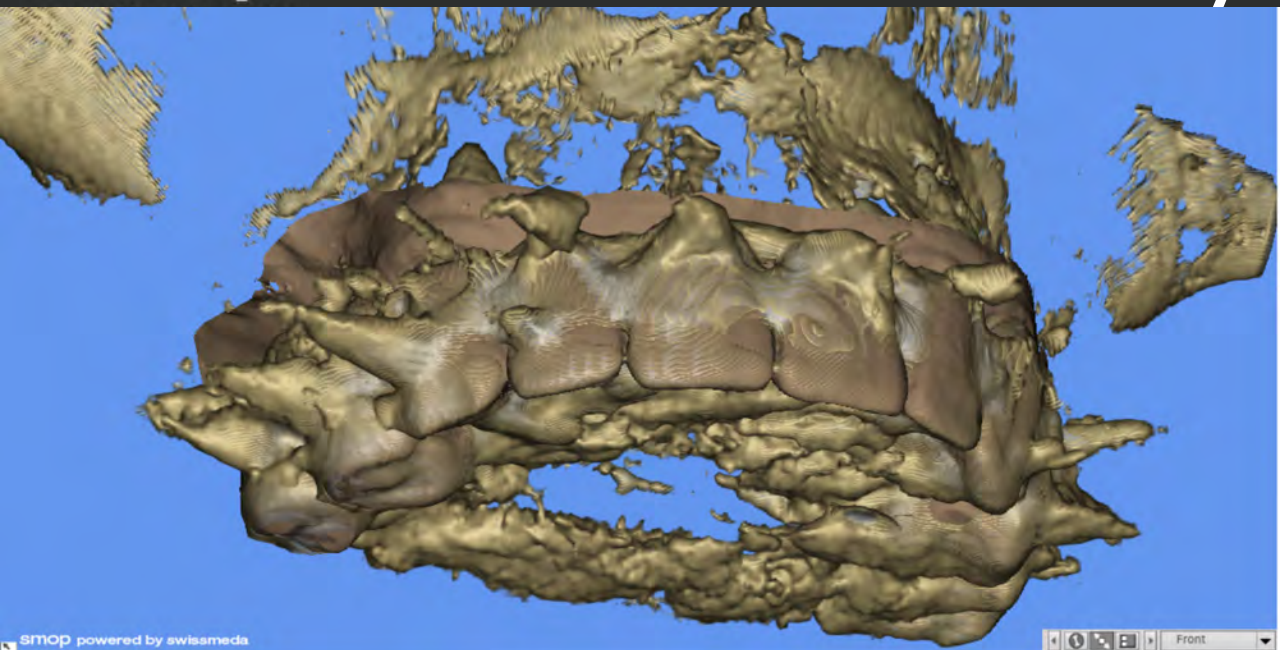


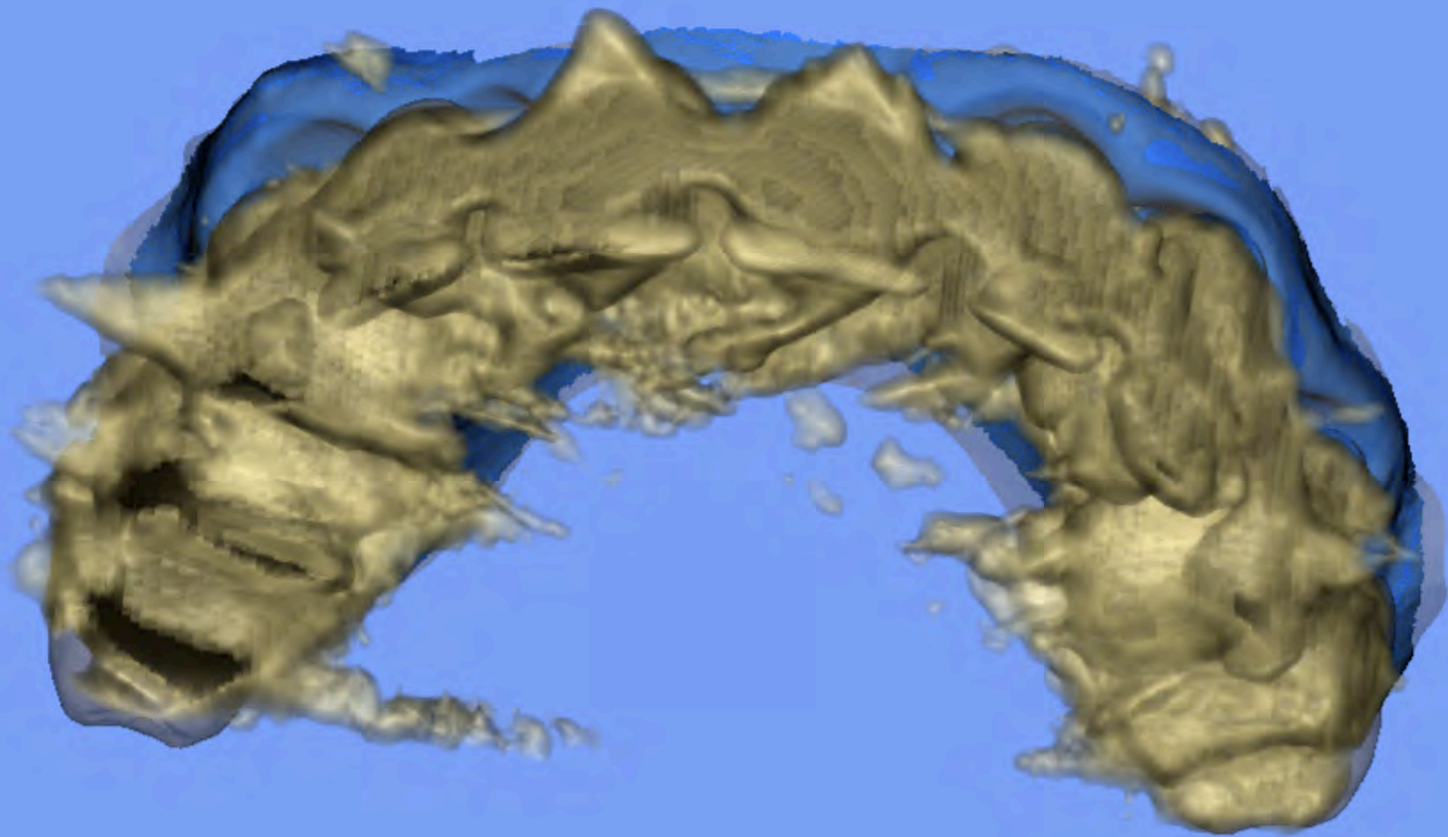


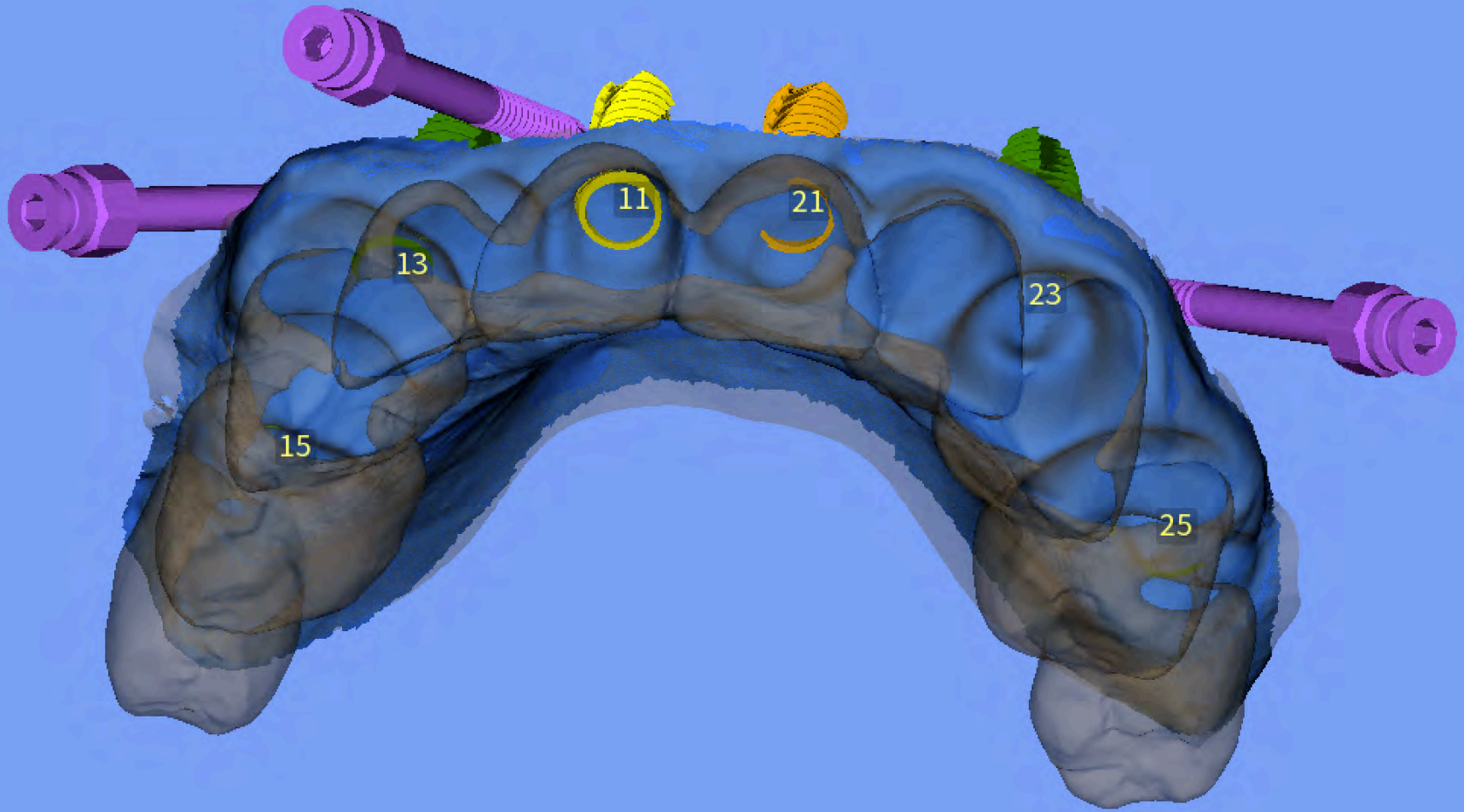


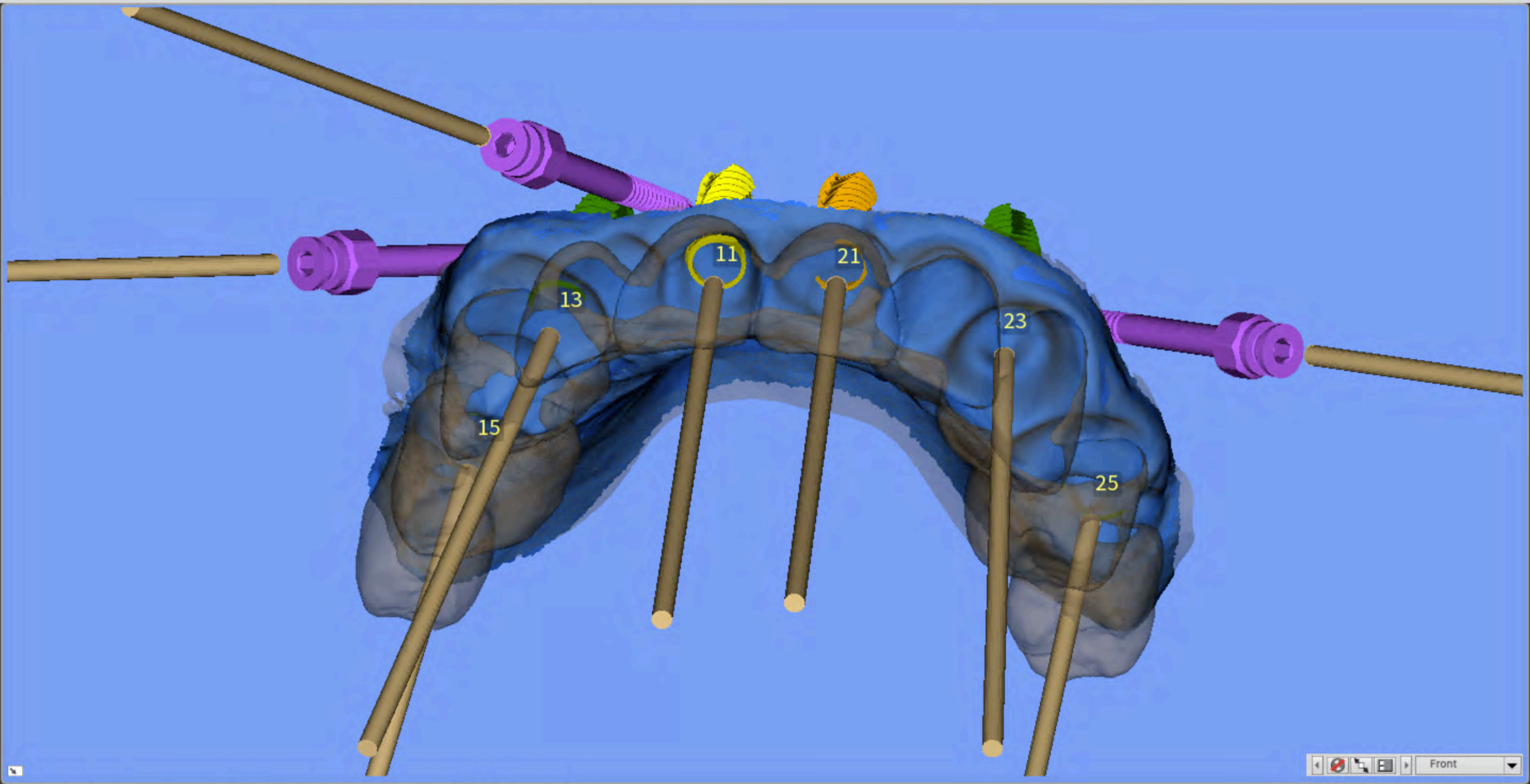


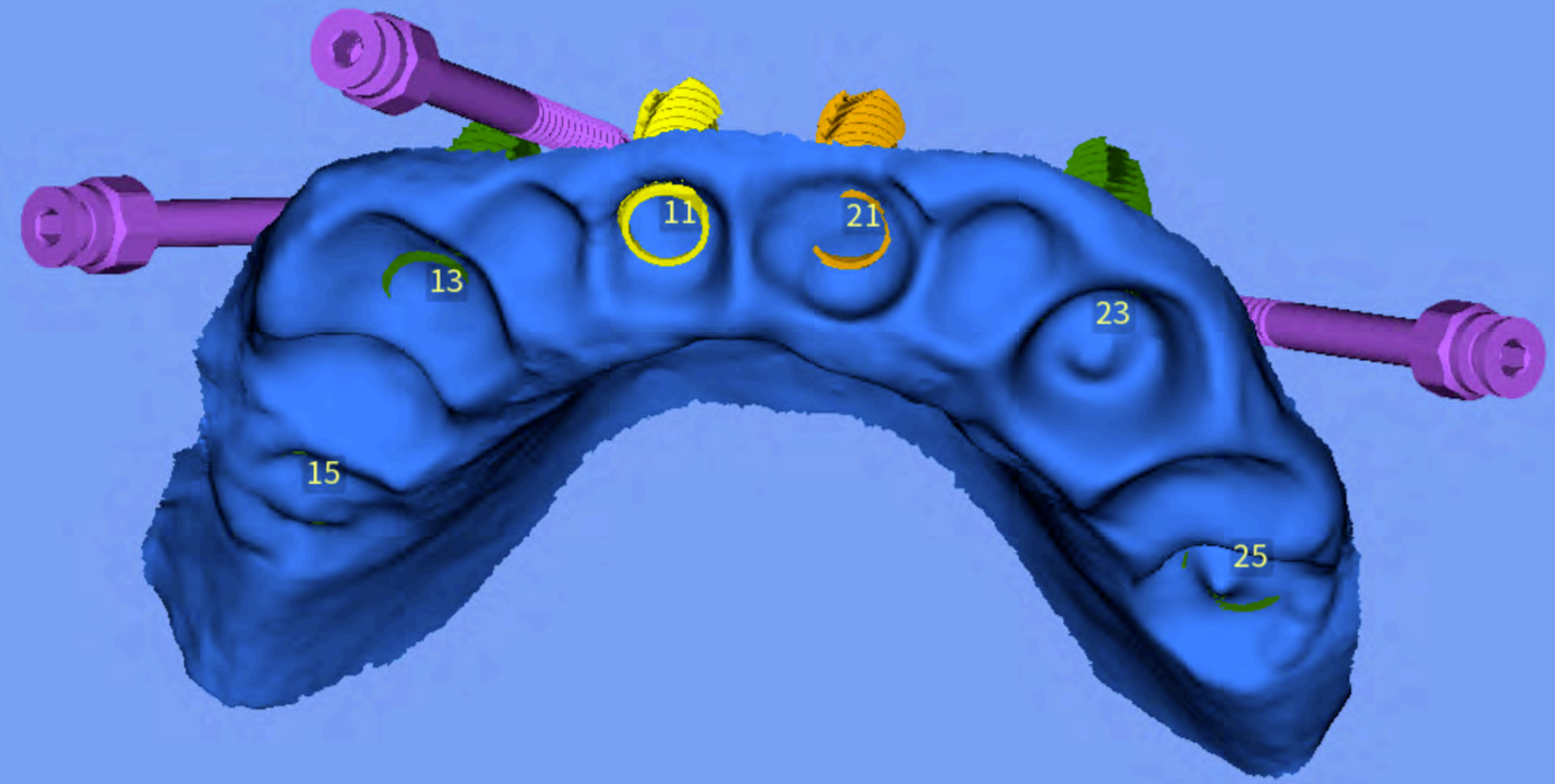


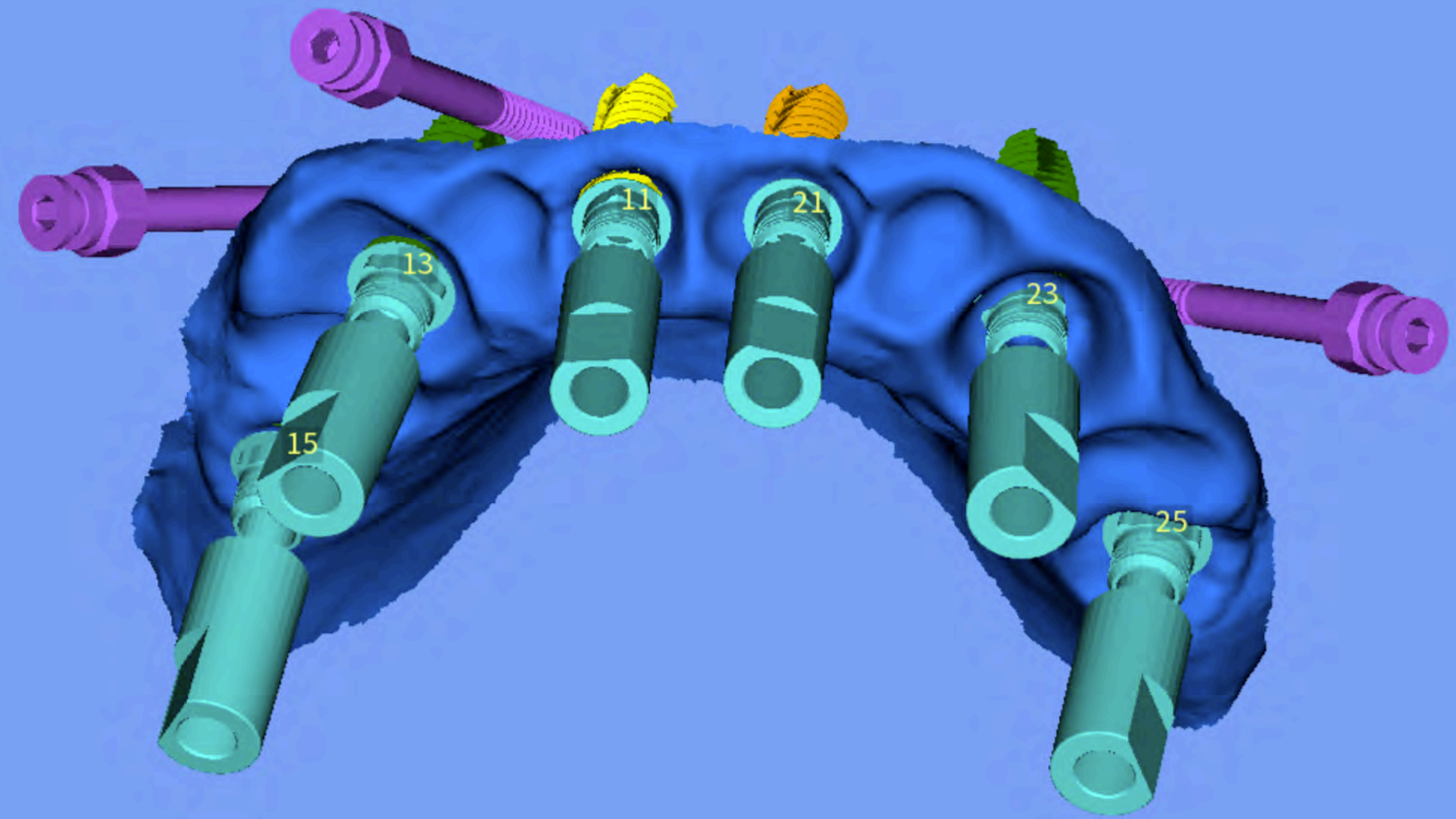




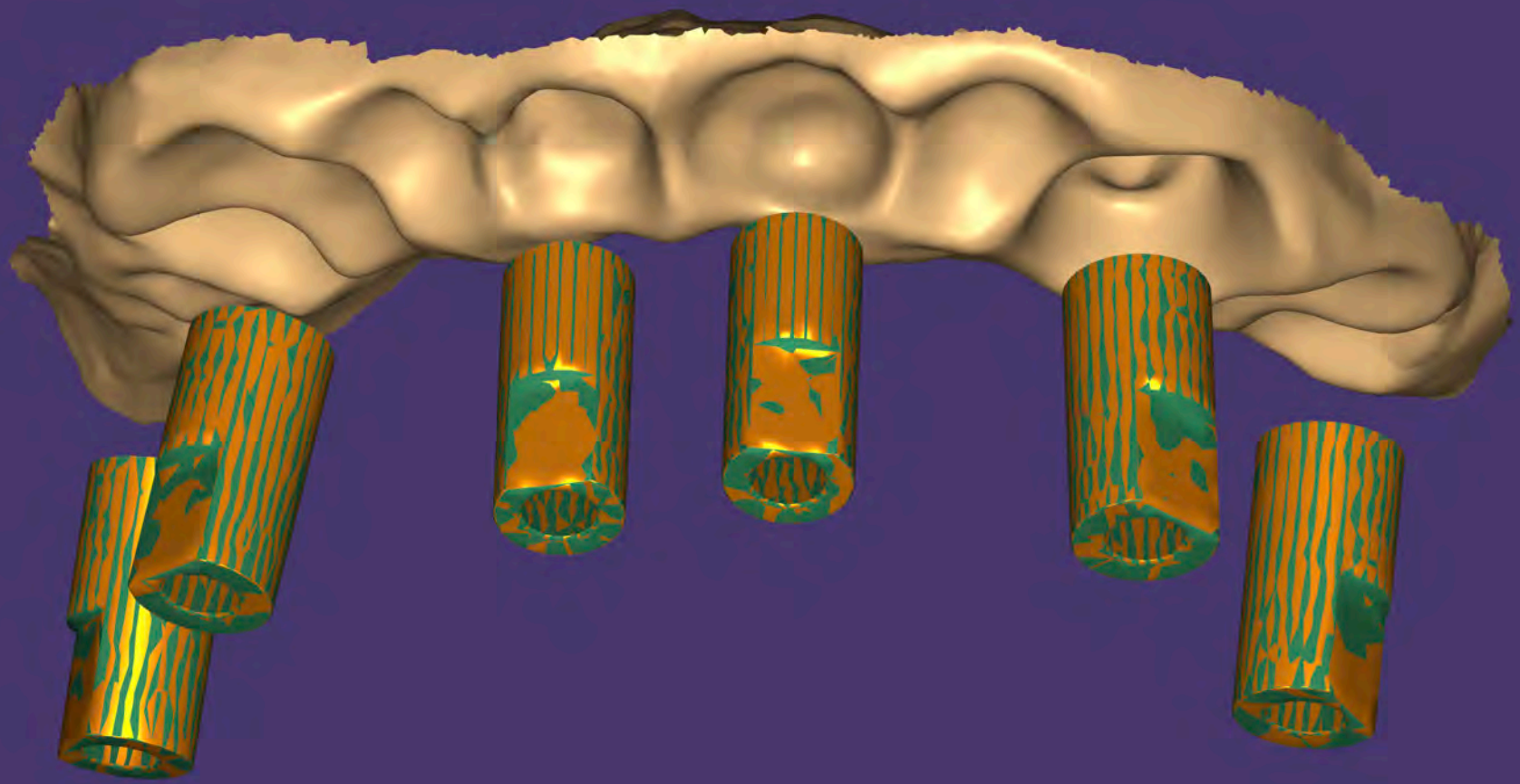








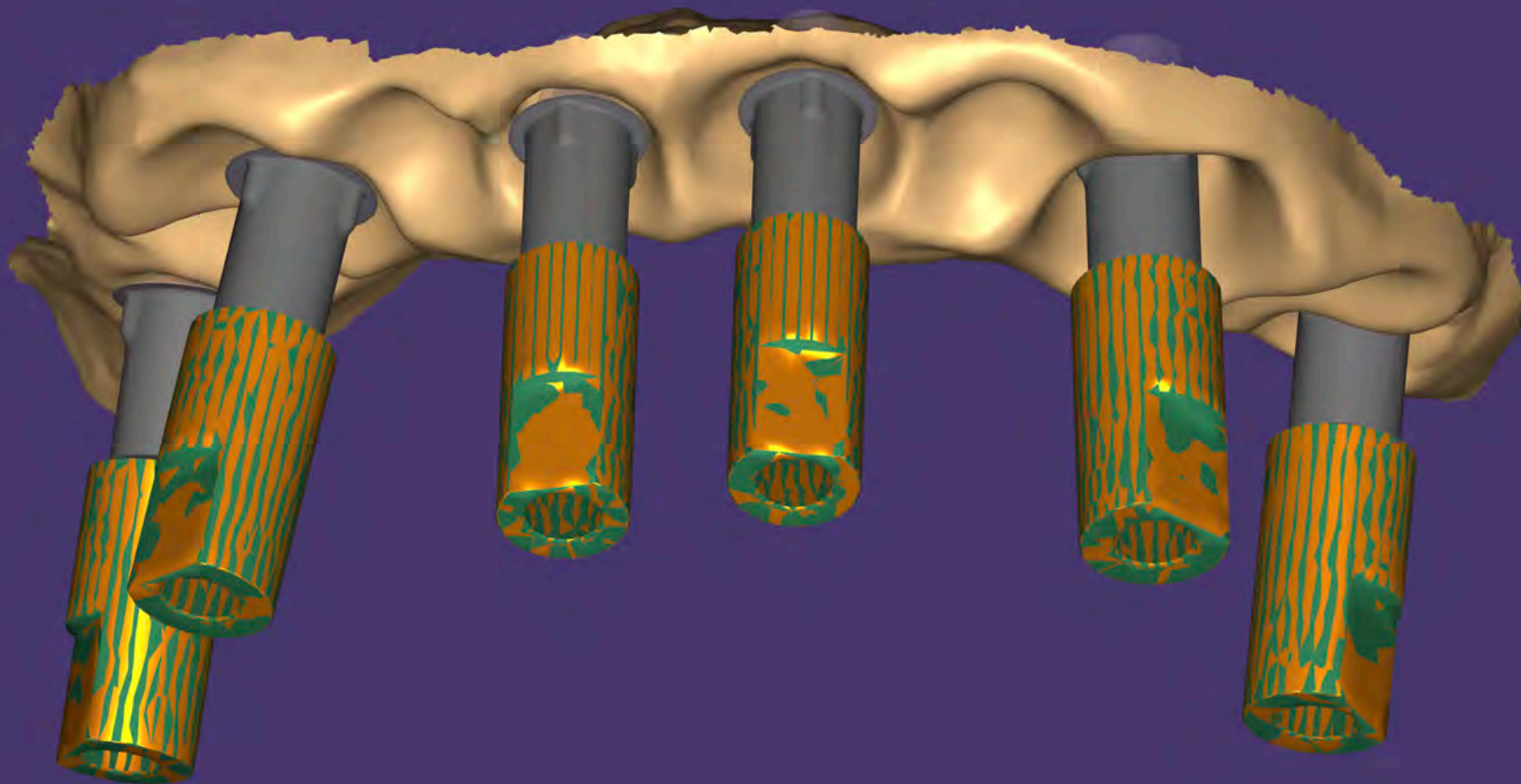
- Show All
- Show / Hide
- Antagonists
- Jaw scans
- Full anatomic
- Connectors
- Abutments
- Scan abutments
- Implant analog parts
- Screw channels
- Pre-op scans
- Merged parts
- Model analogs
- Model





Settings

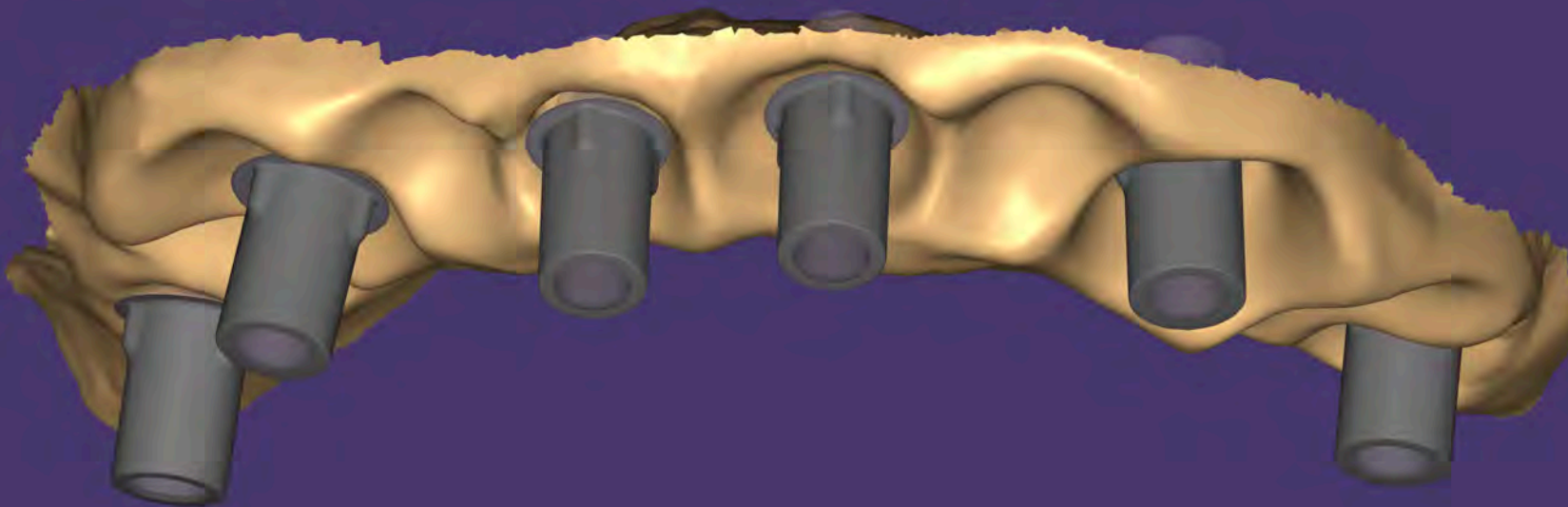
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Default view



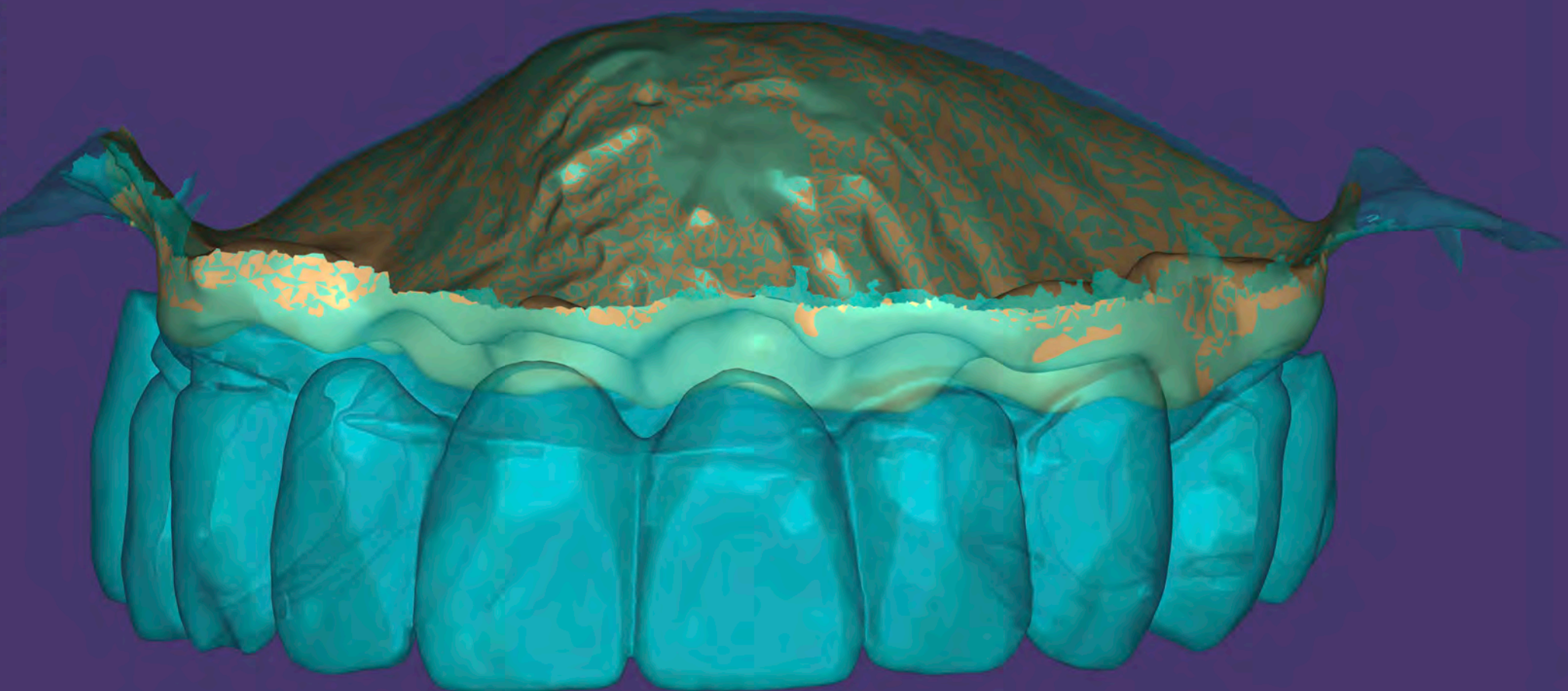
exocad

Version 1.5
7270

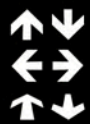


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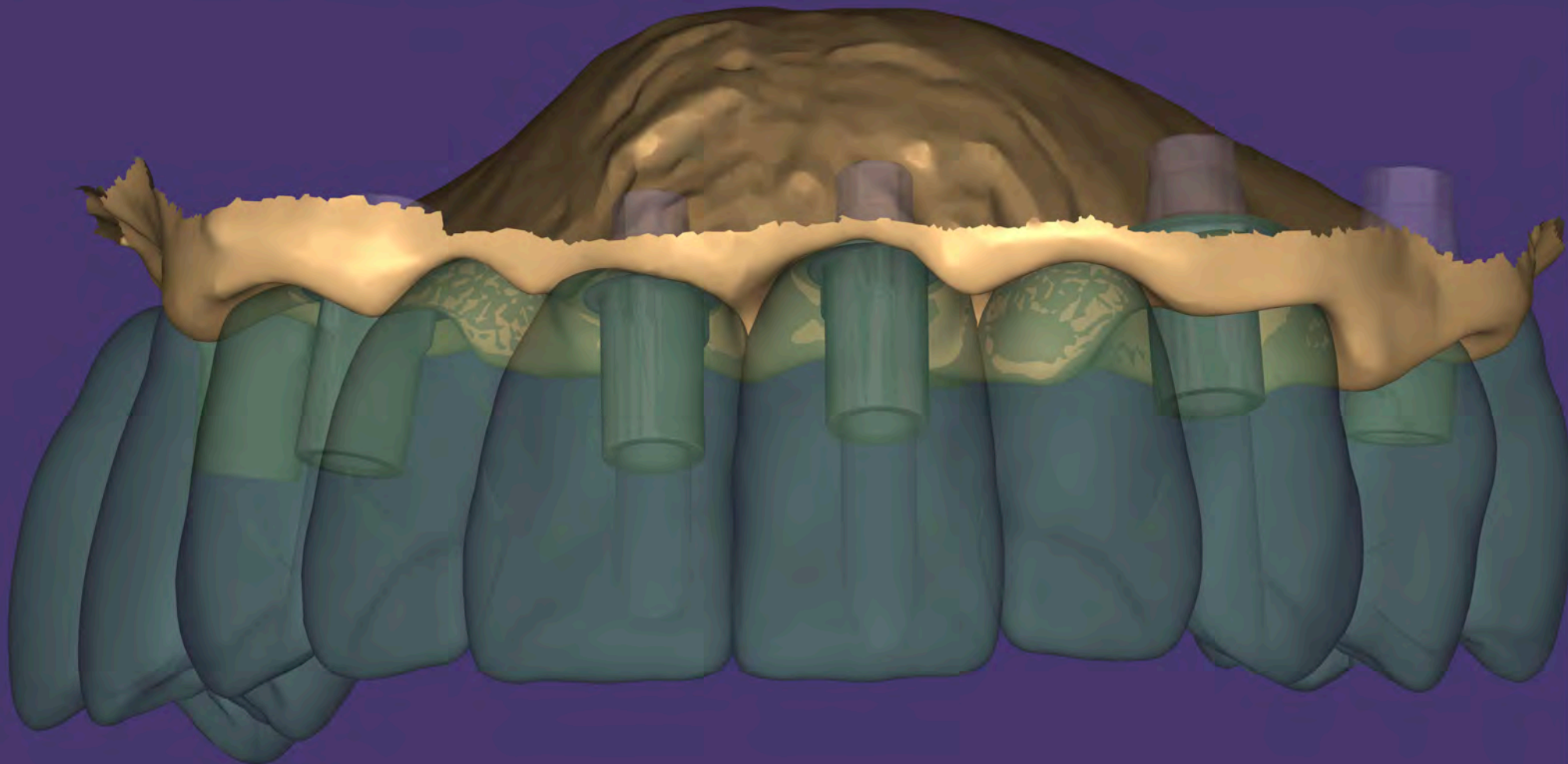
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Default view

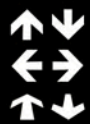


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- Antagonists
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Settings

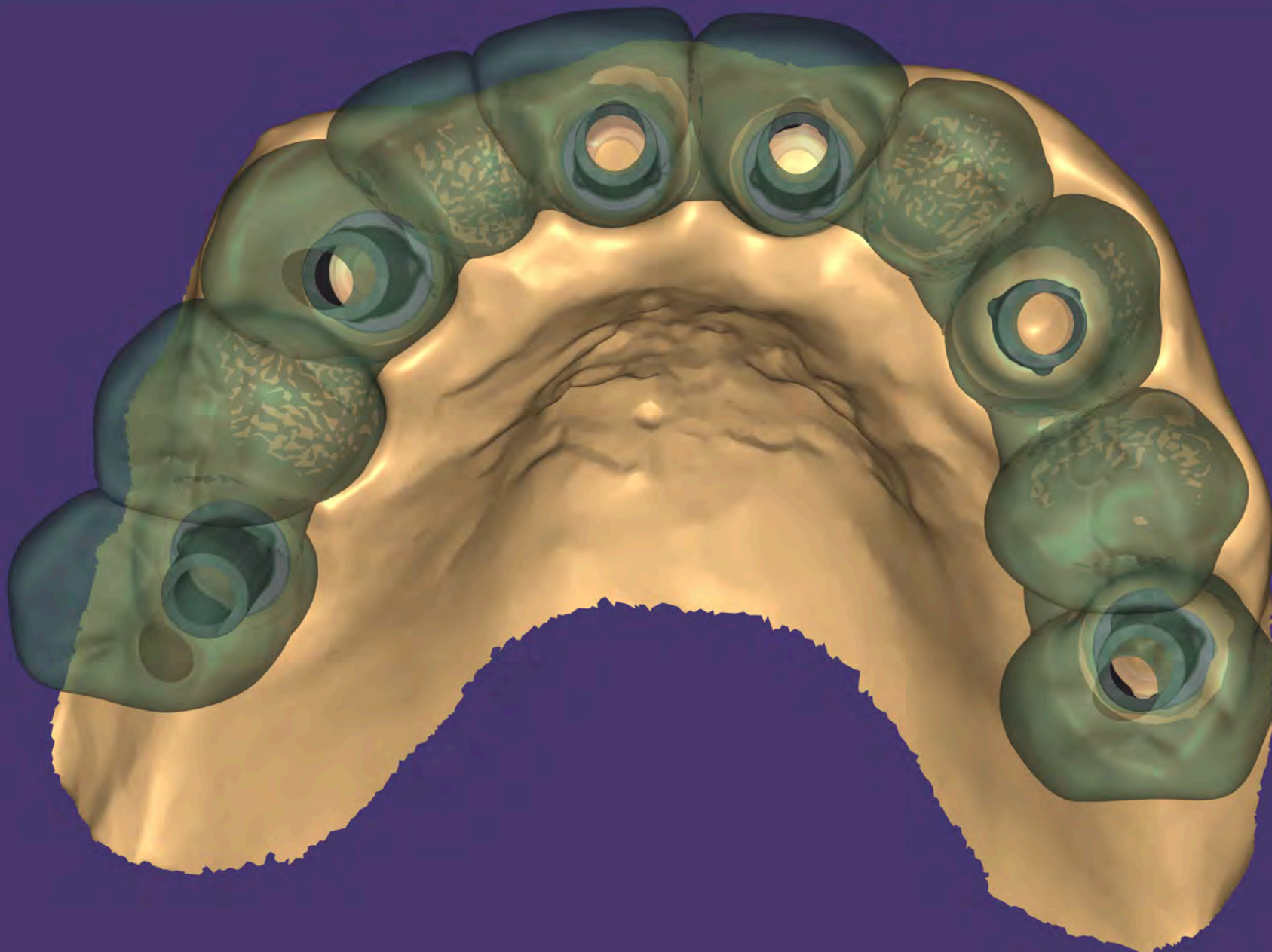
Default view





Settings

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Default view



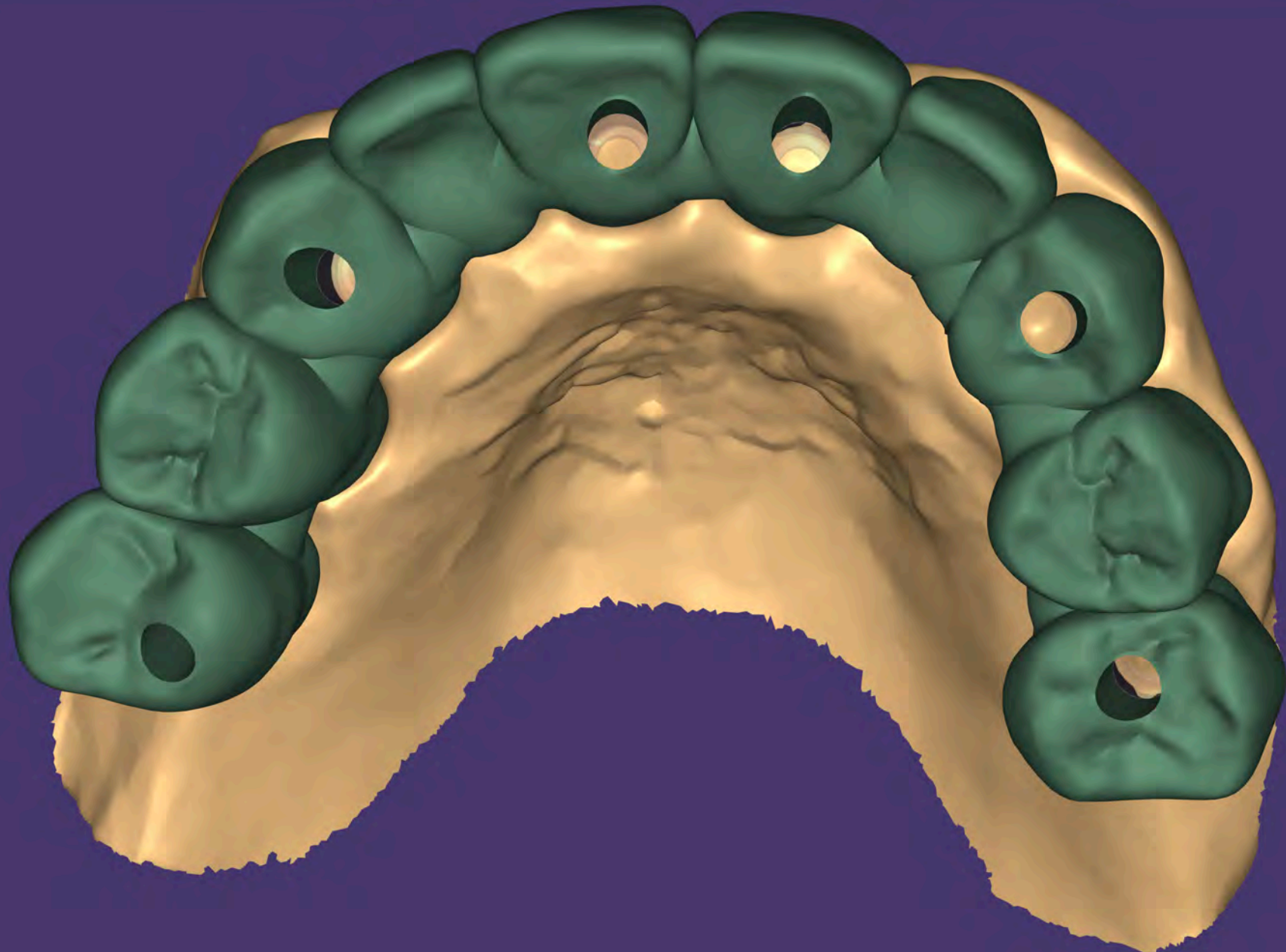
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Version 1.5
7270

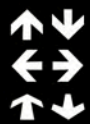


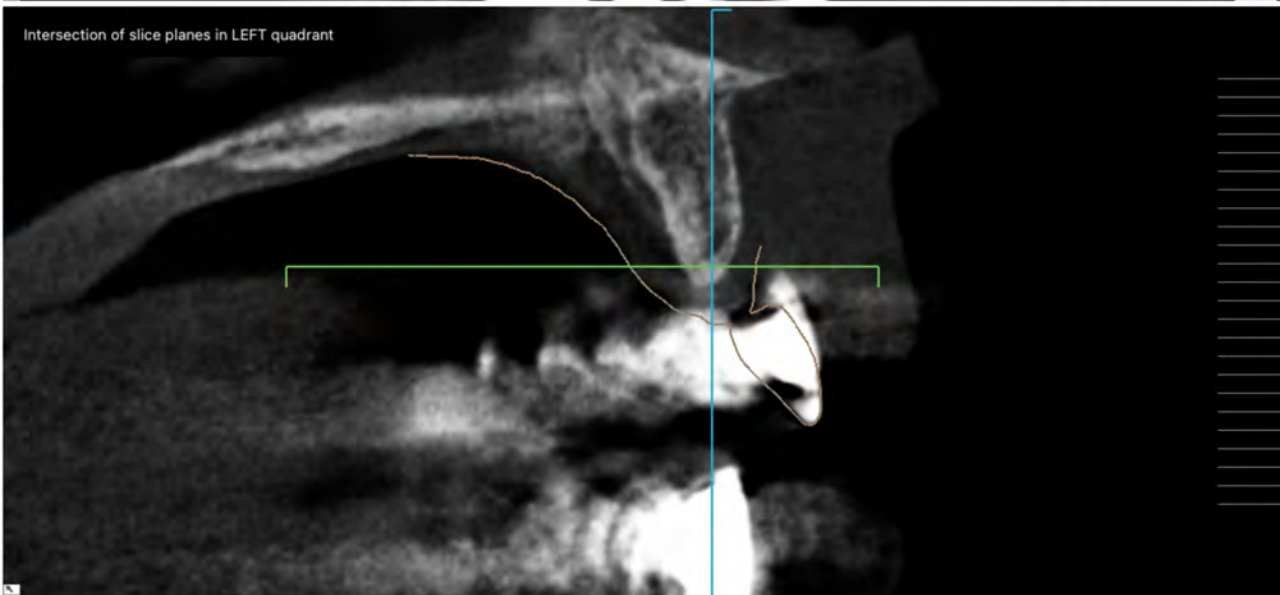
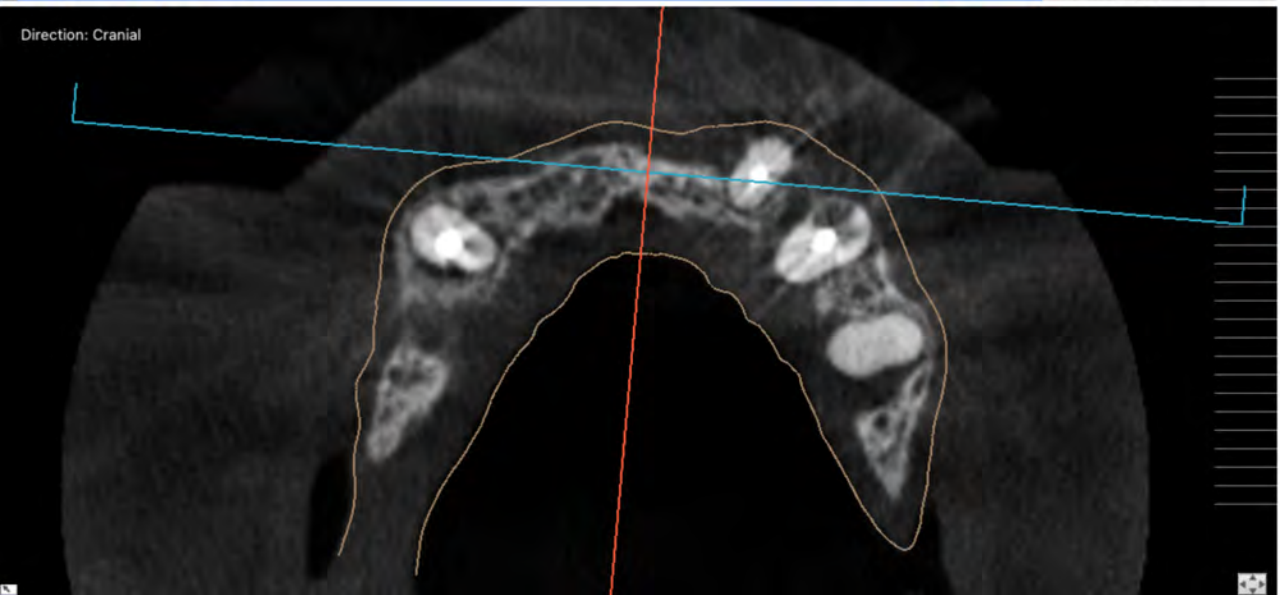
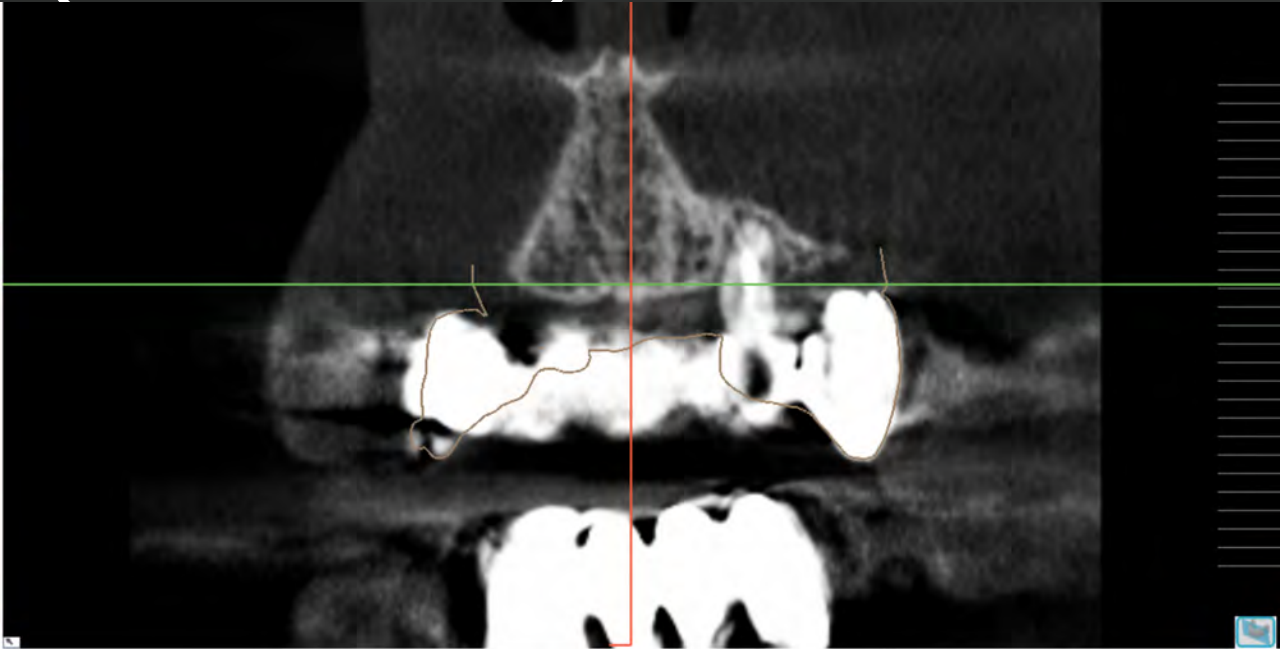
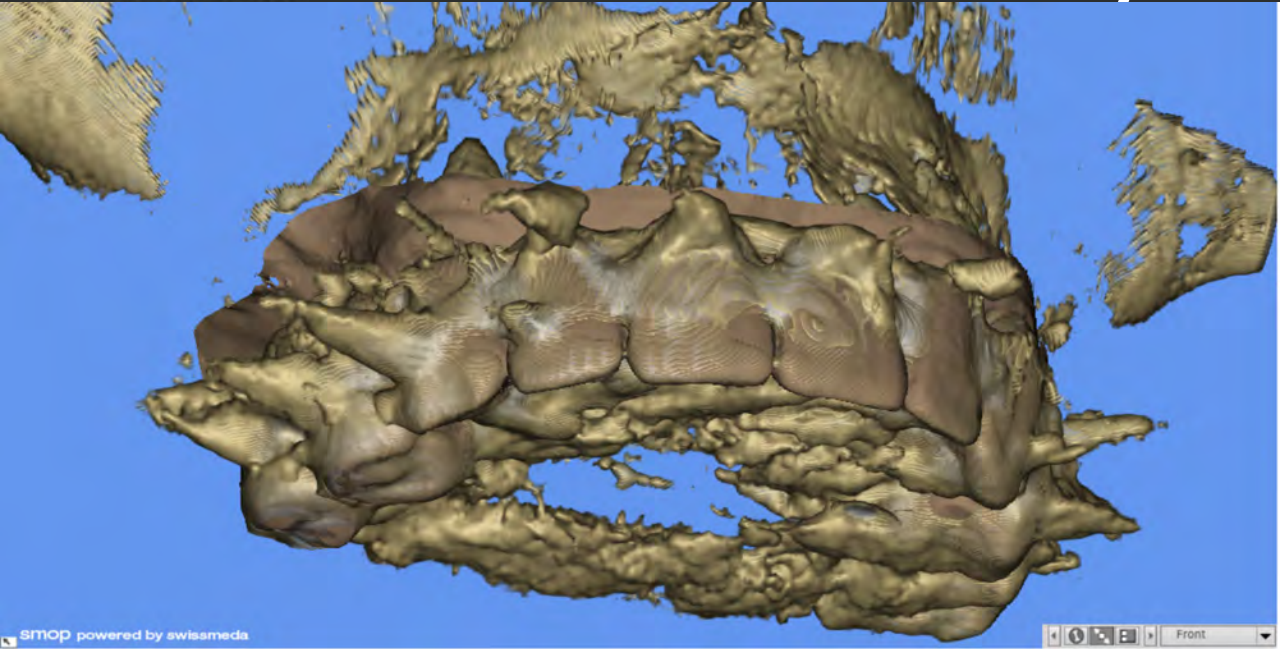
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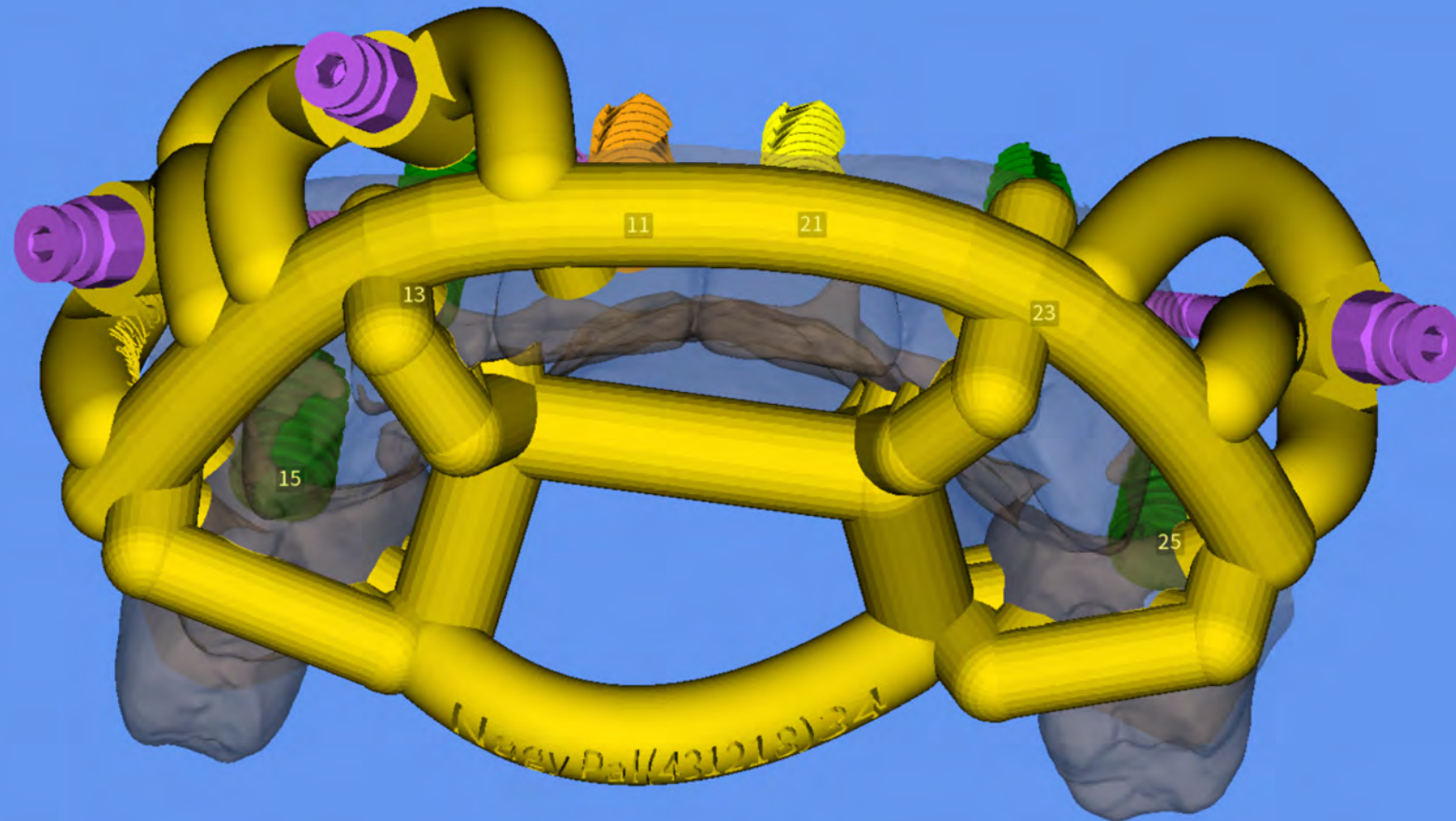
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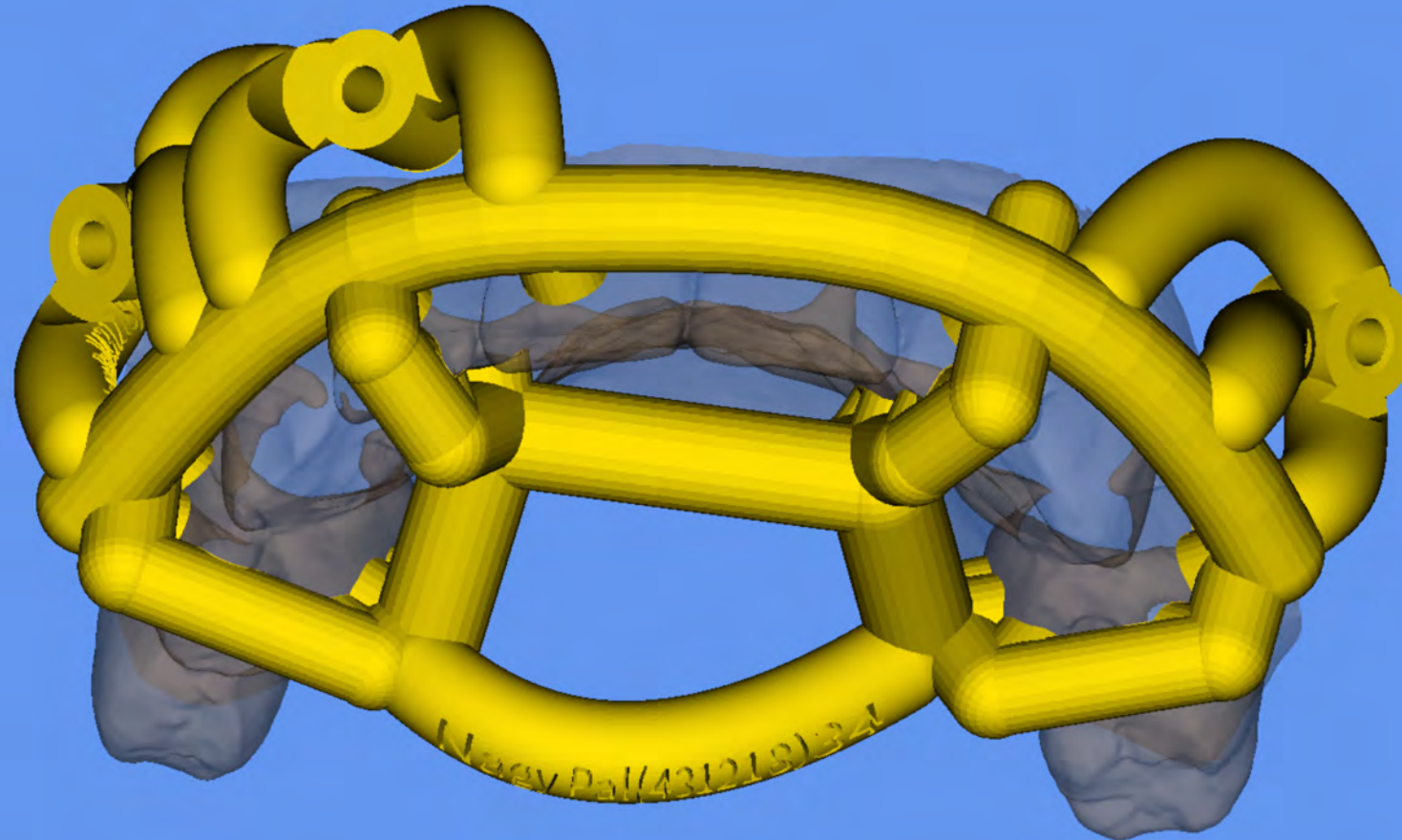


Default view







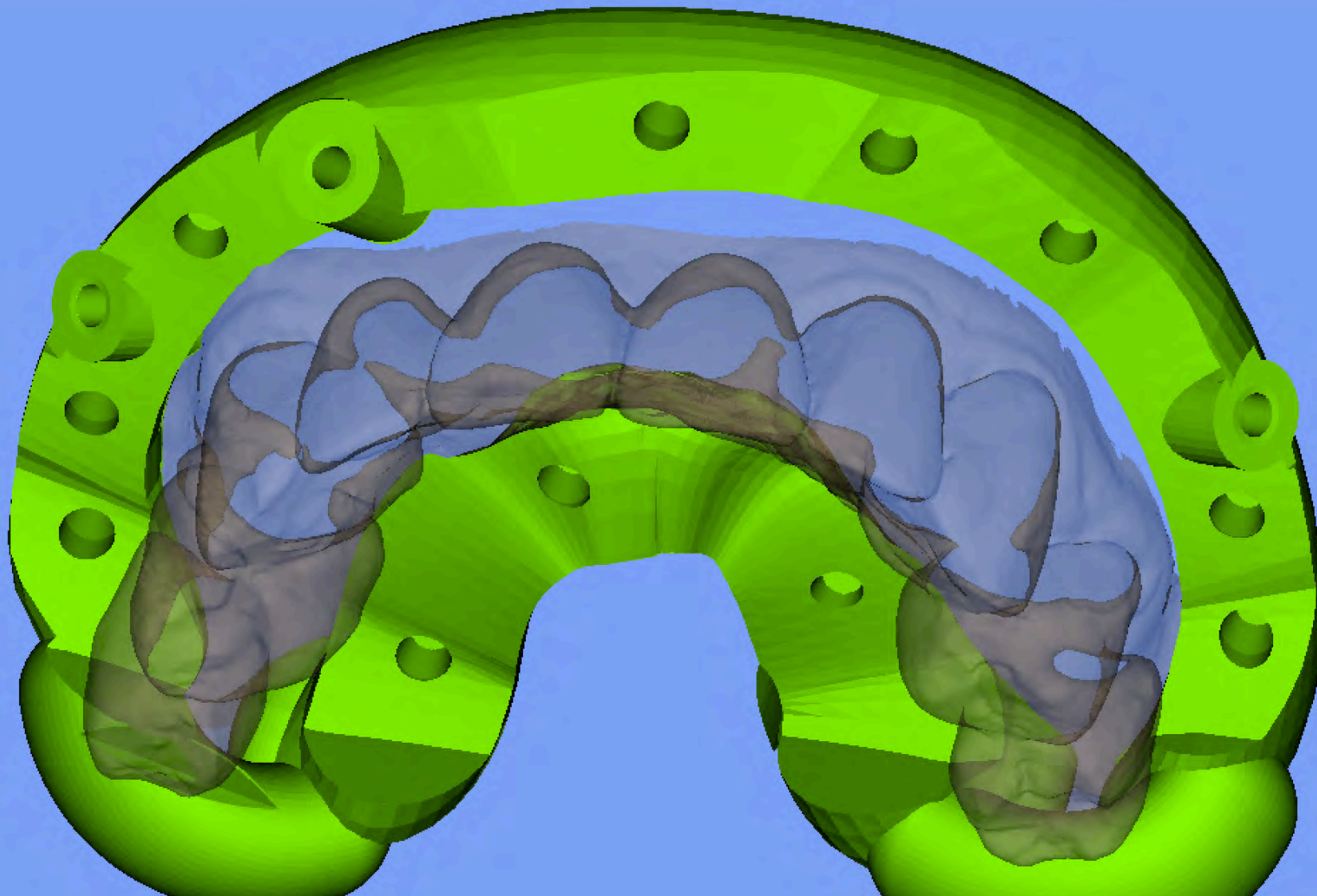
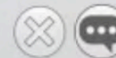


Munakfolyamat (Virtuális műtét)

Version was locked by data export.



STG Base and drilling

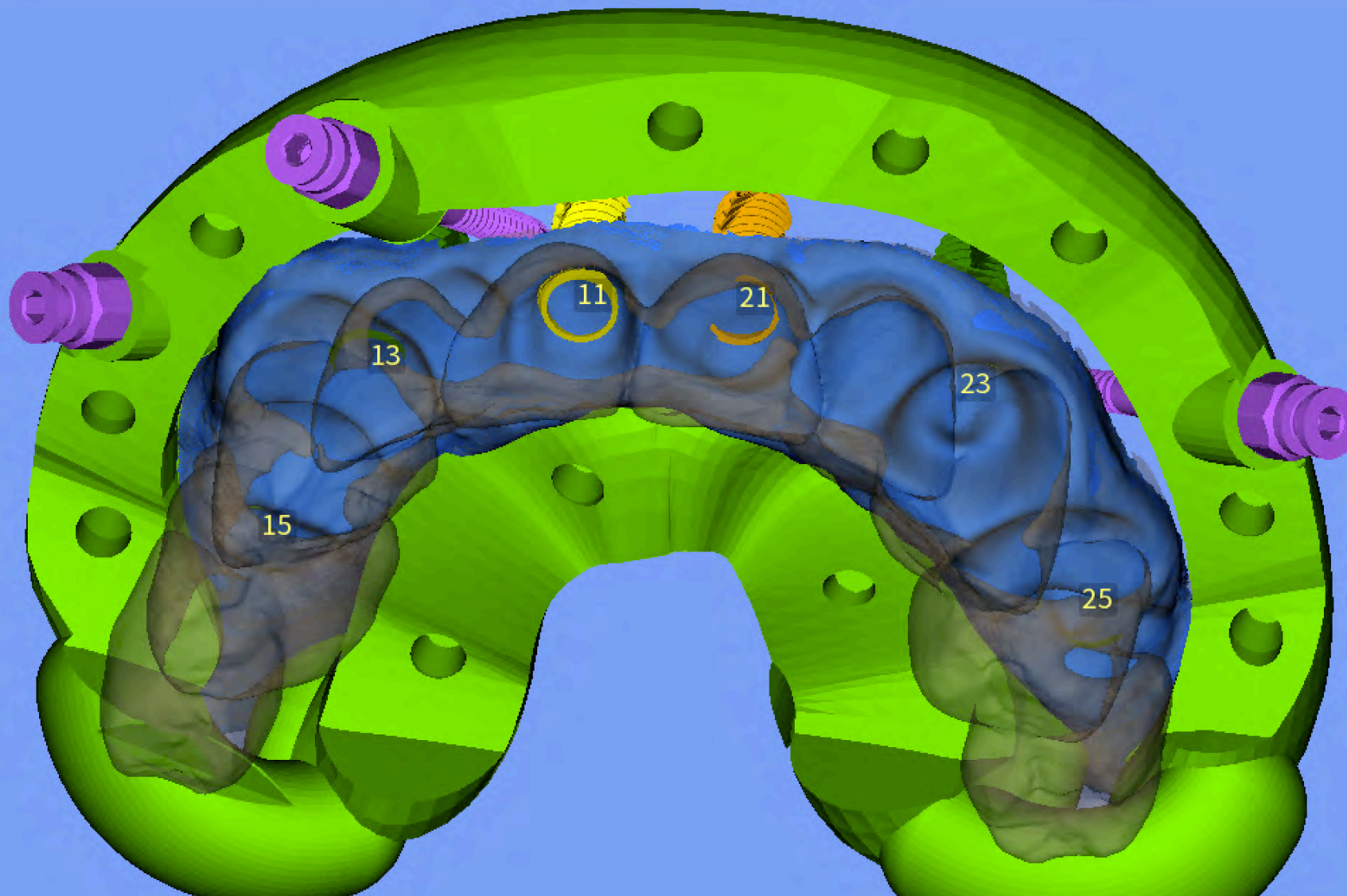
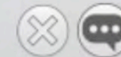


Munakfolyamat (Virtuális műtét)

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STG Base and drilling

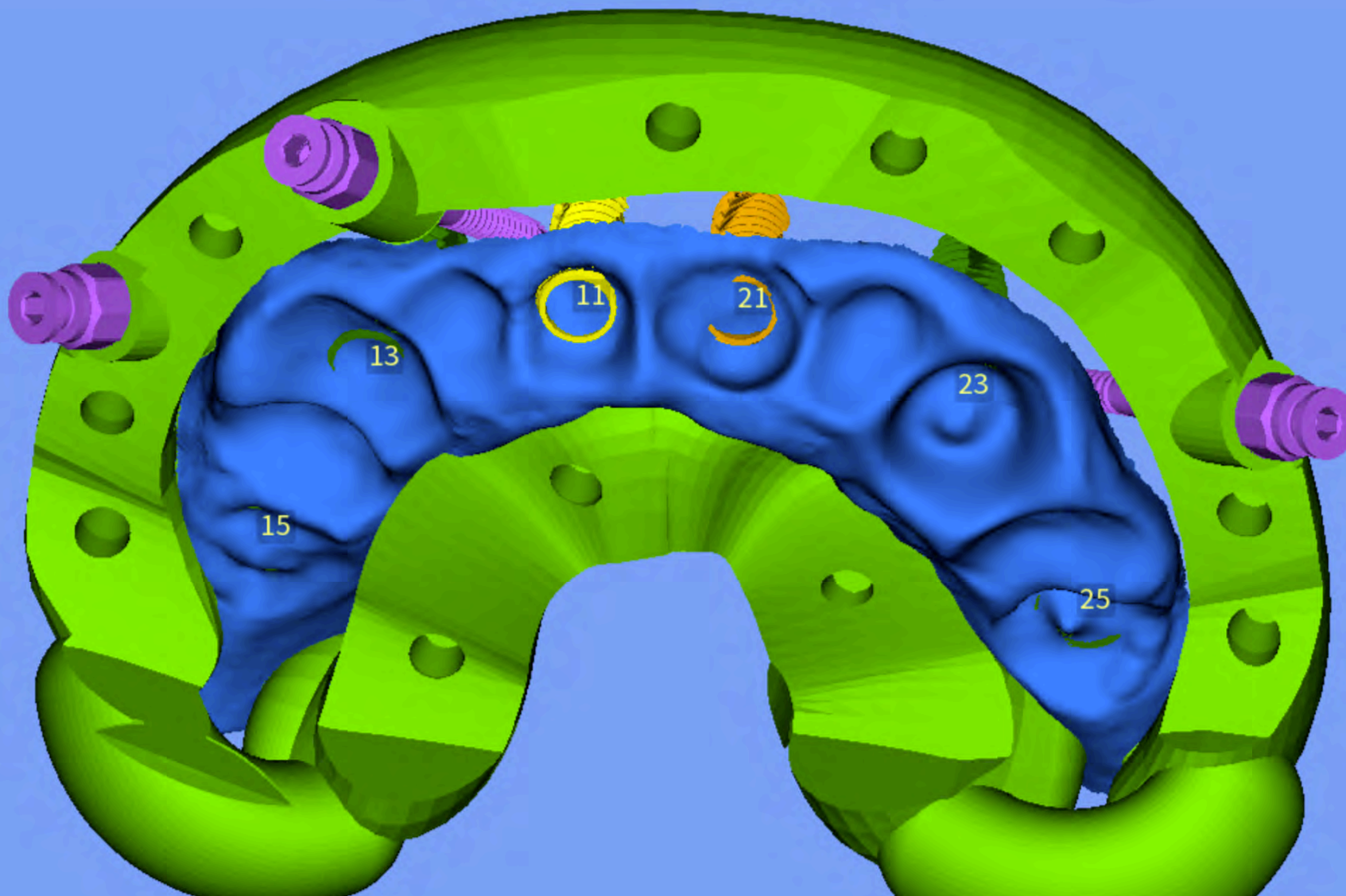


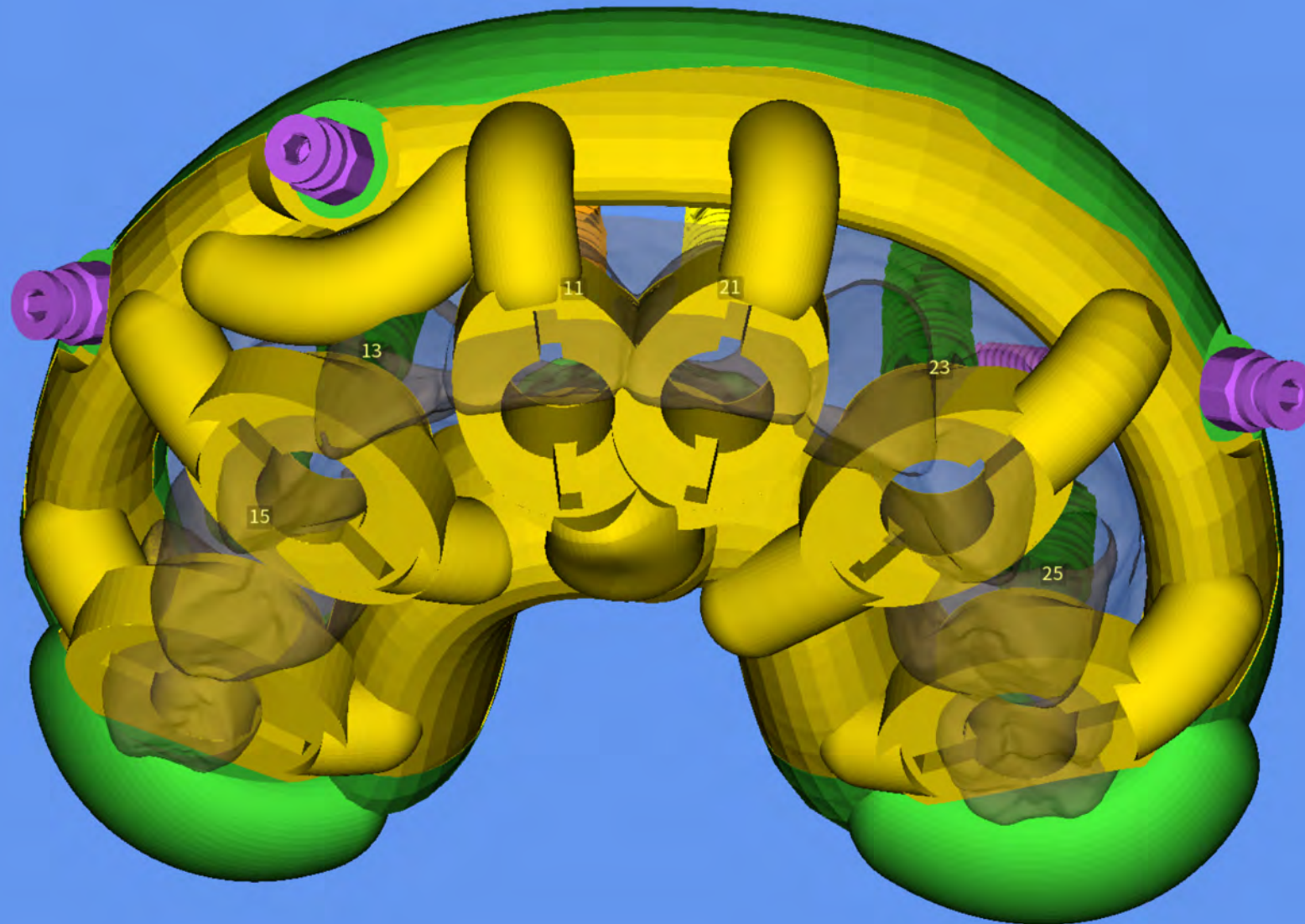
Munakfolyamat (Virtuális műtét)

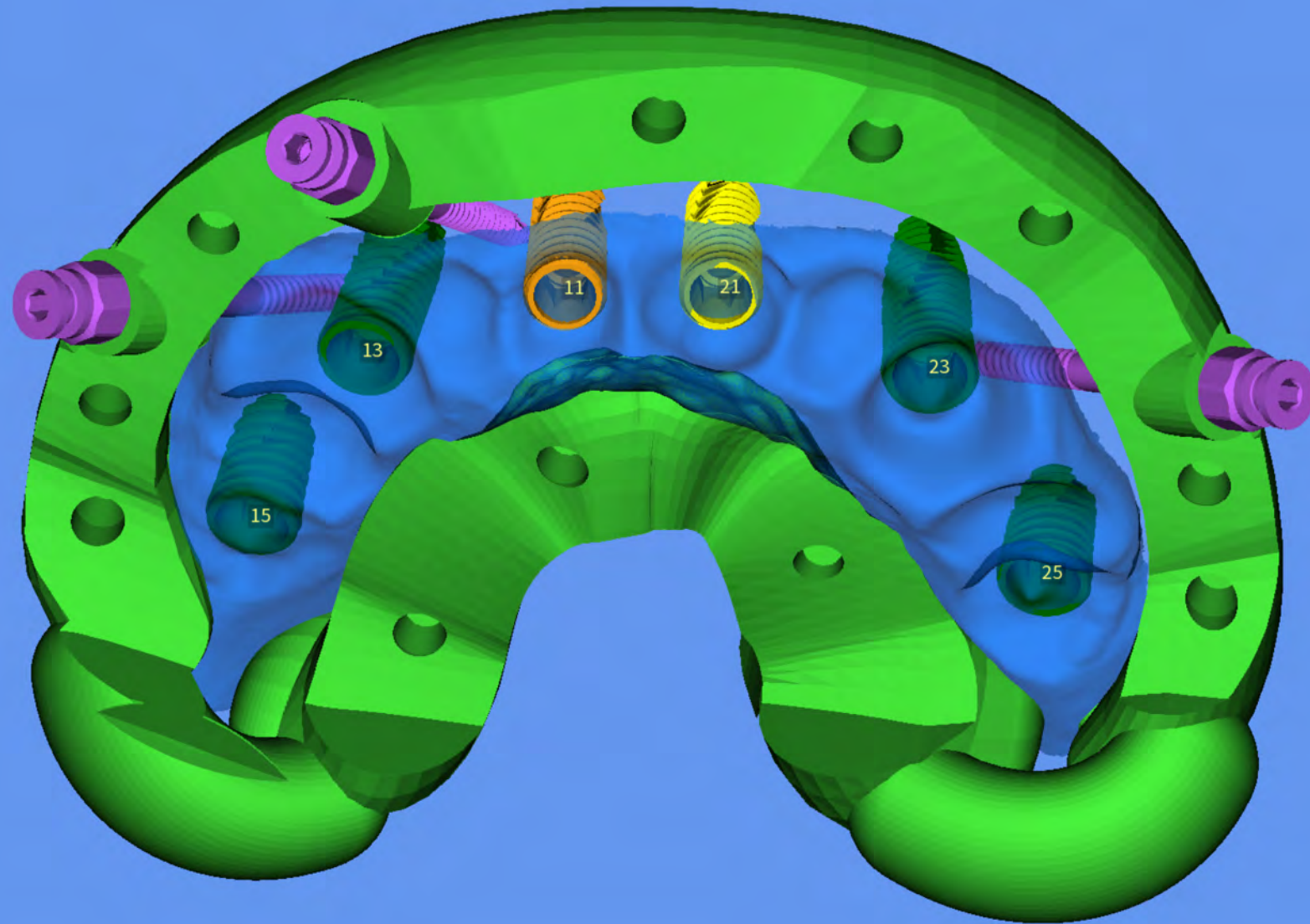
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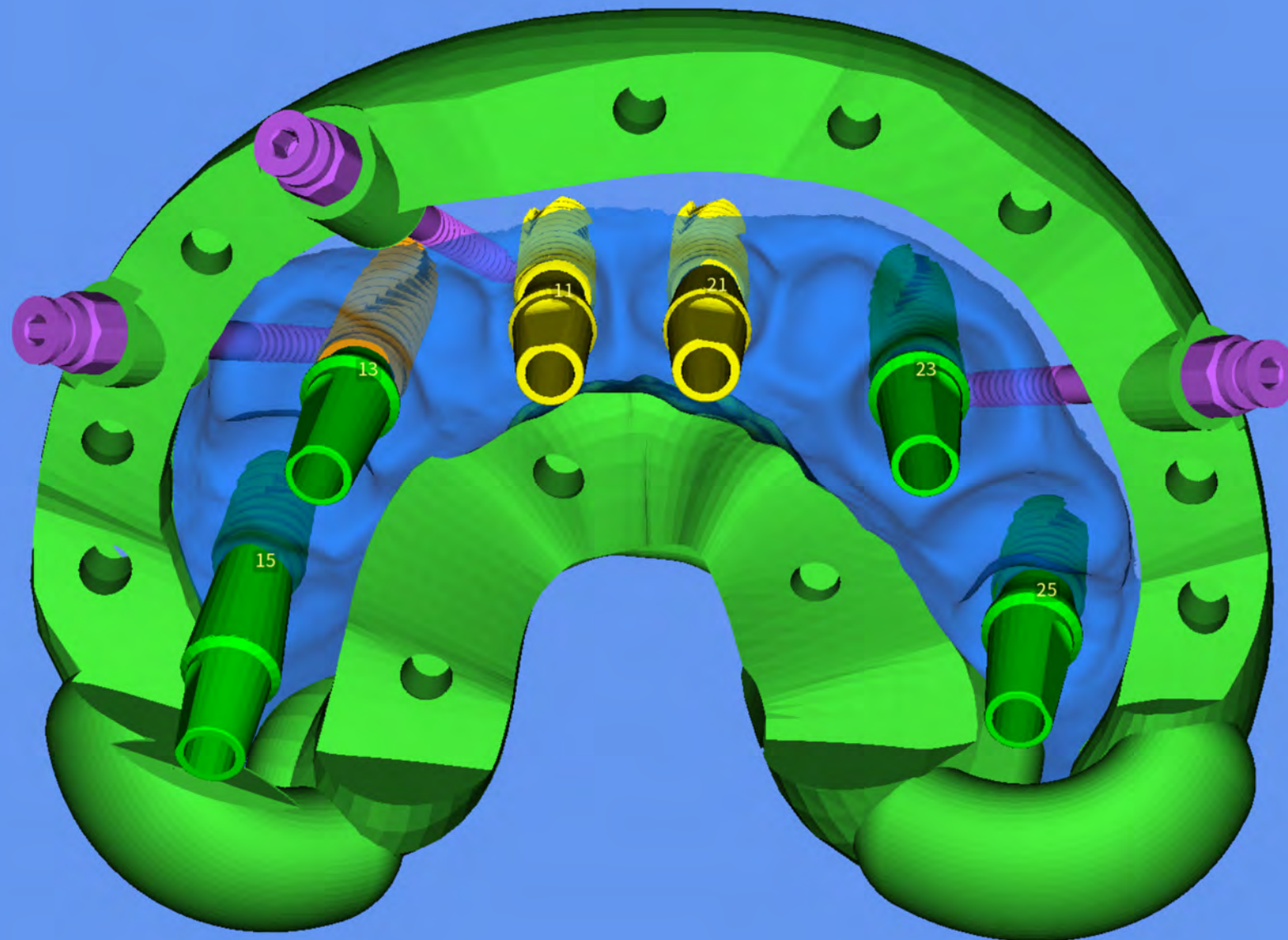


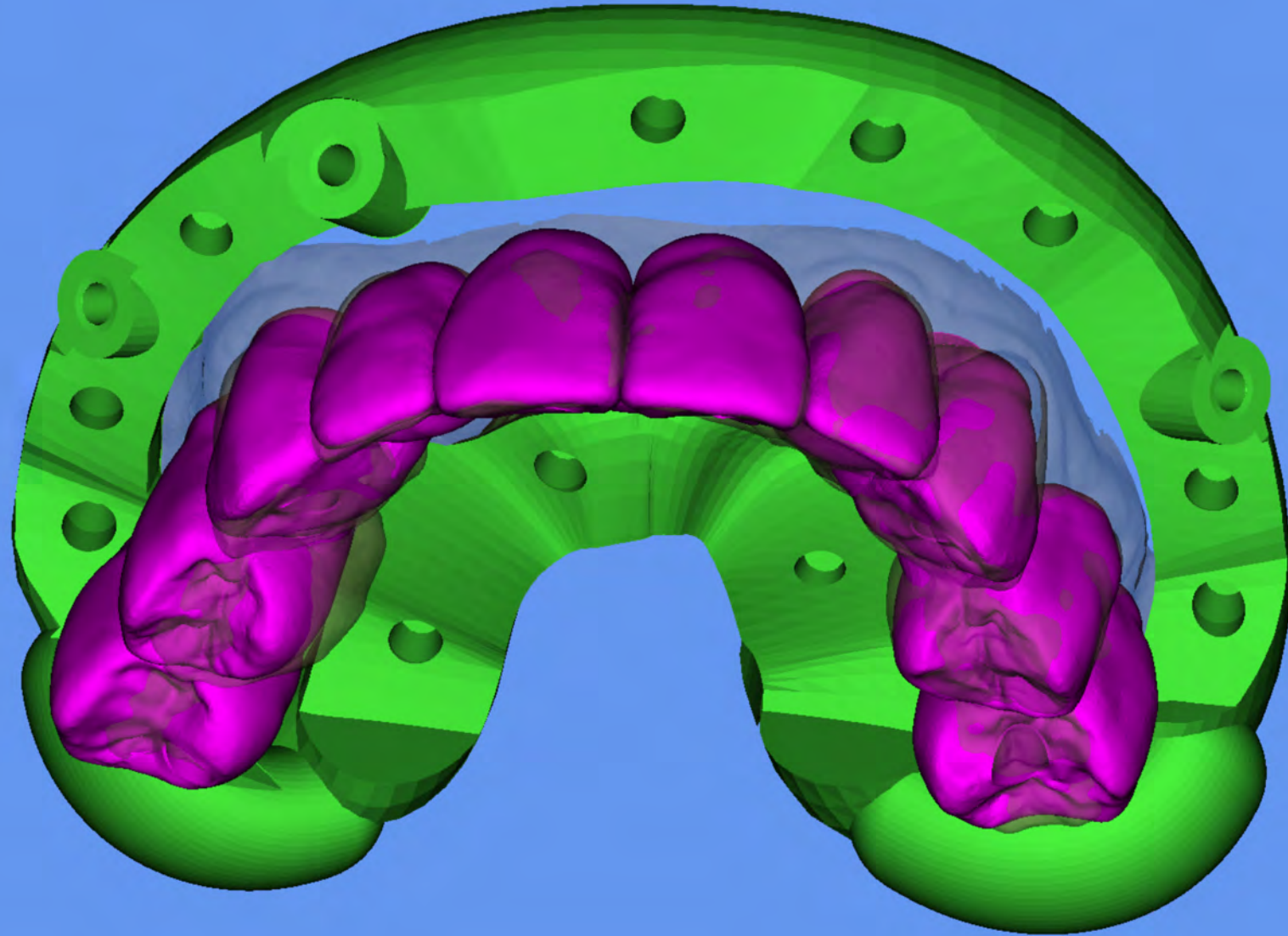
STG Base and drilling

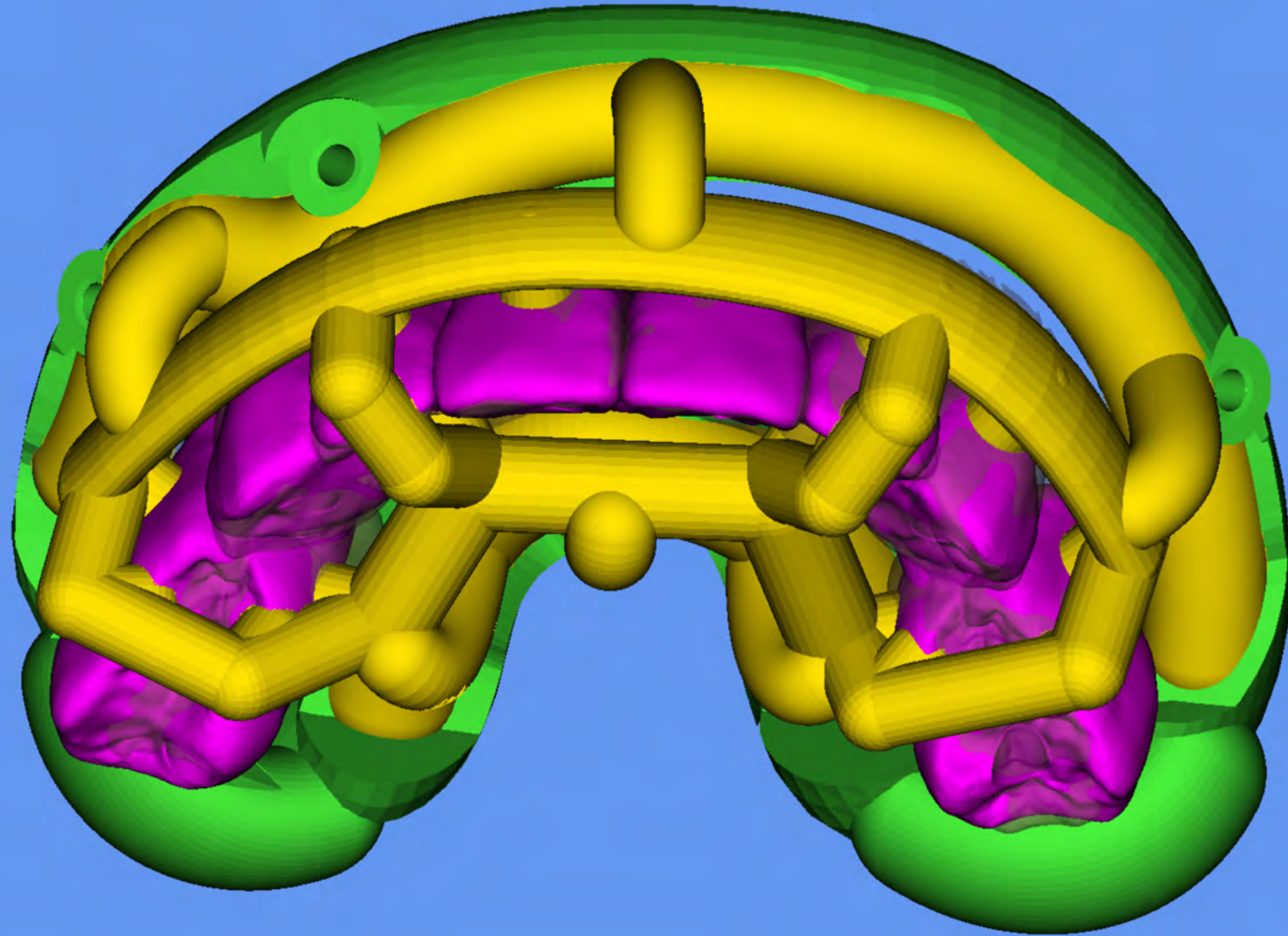


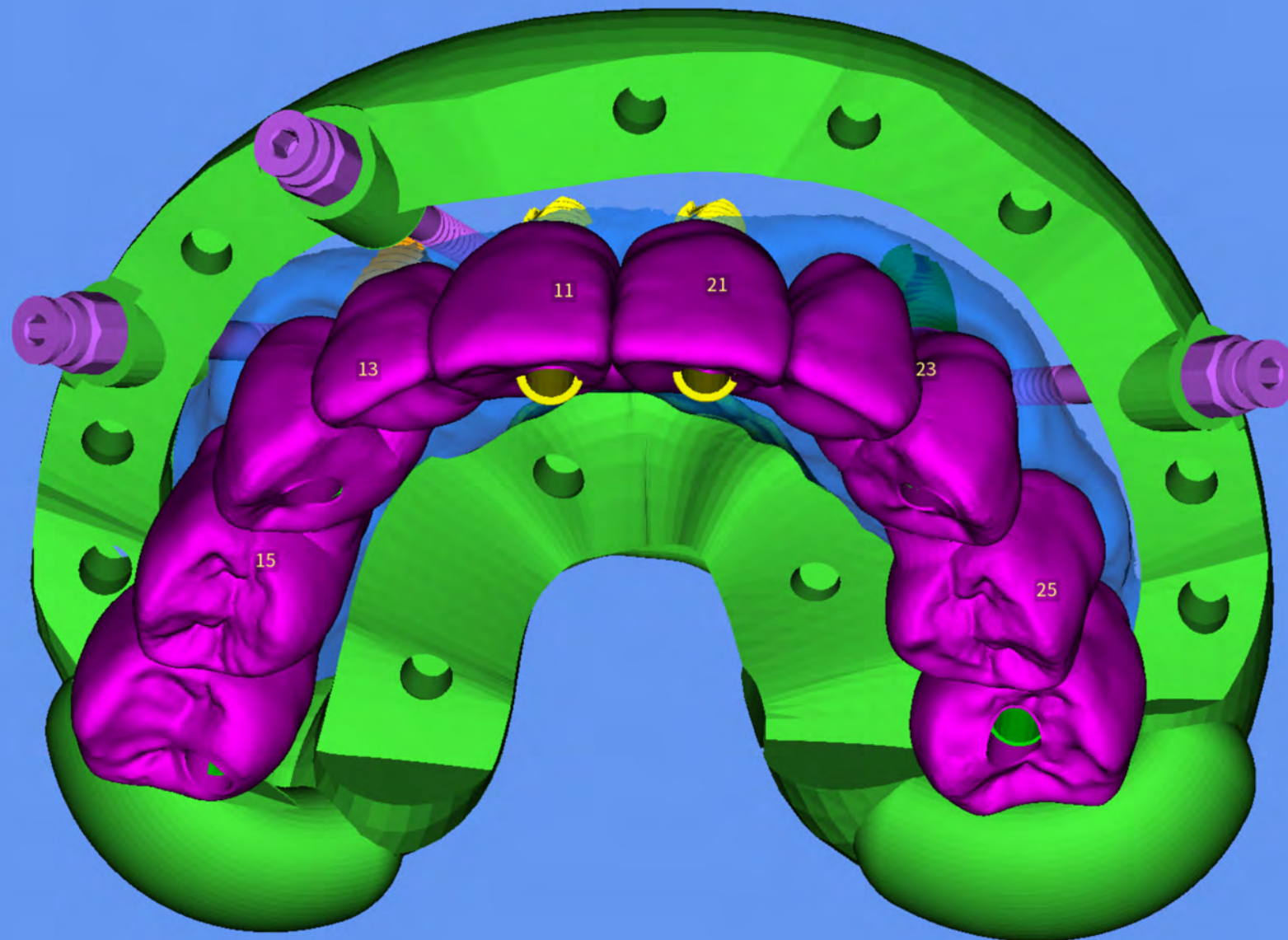






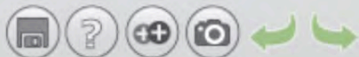




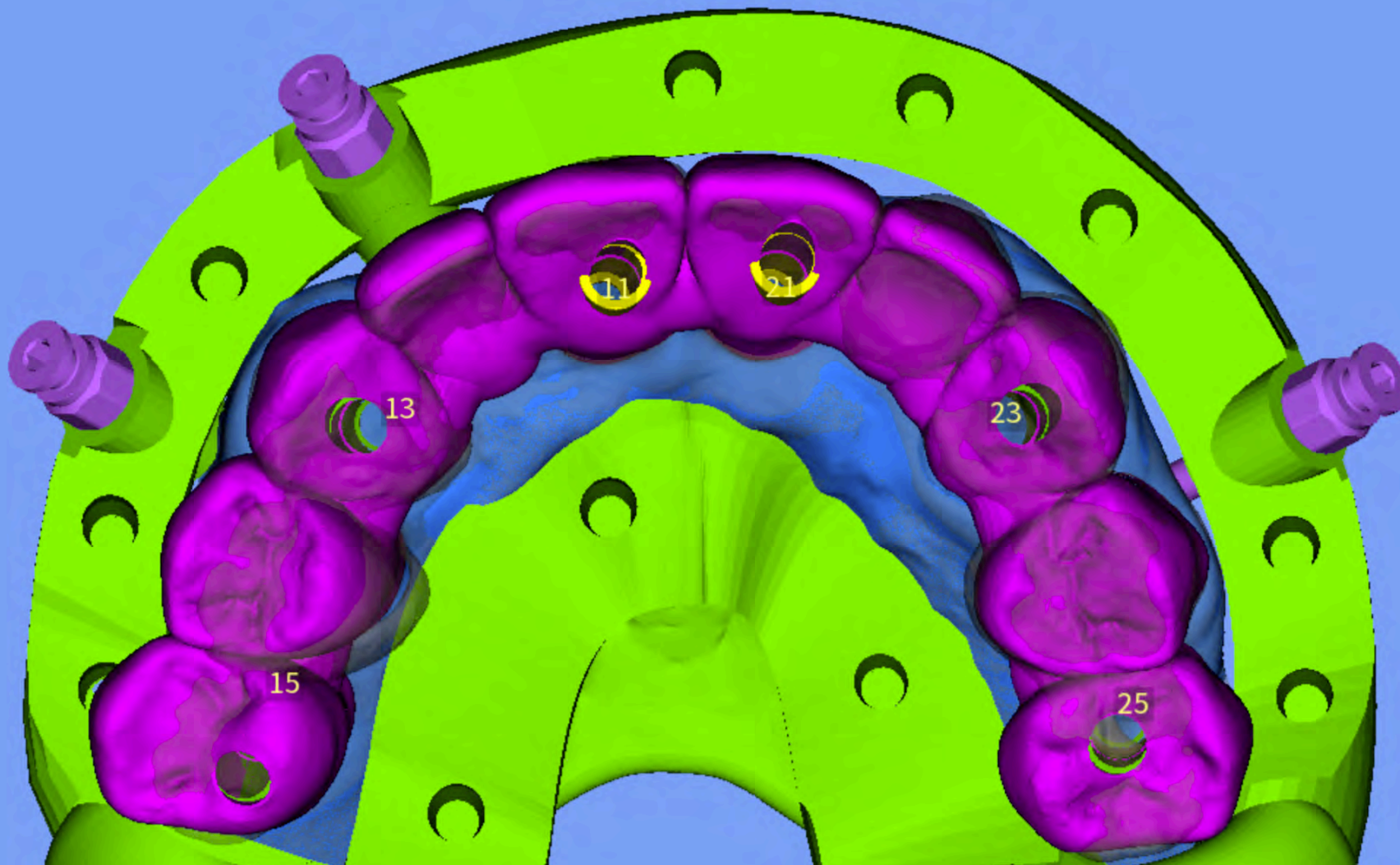


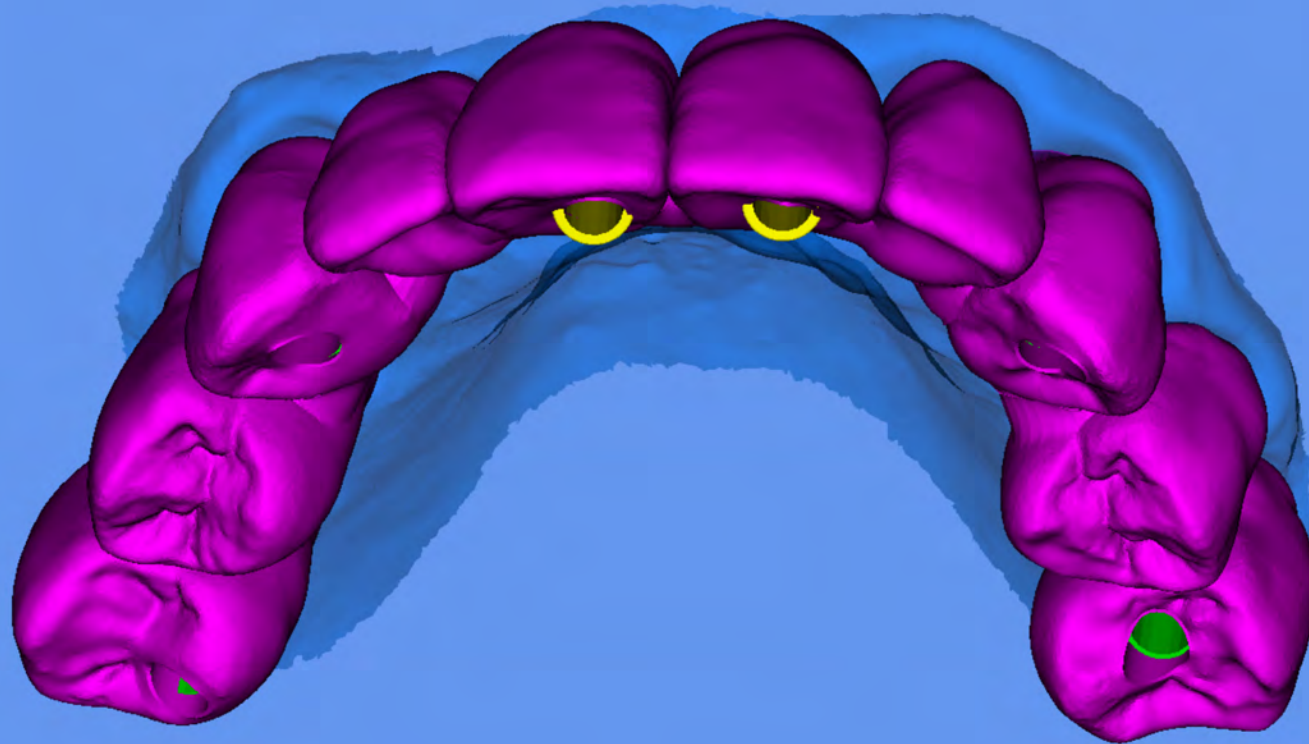
Munakfolyamat (Virtuális műtét)

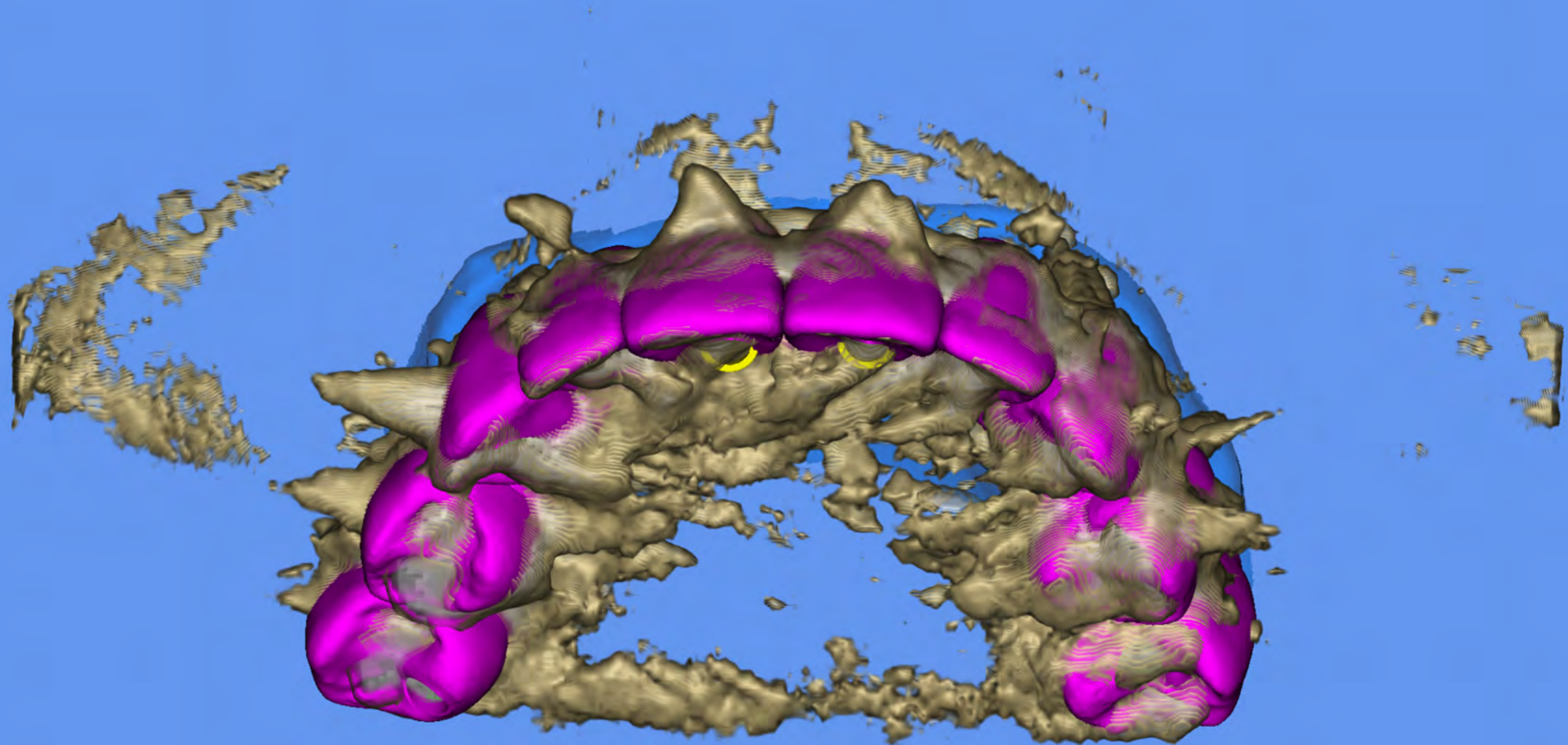
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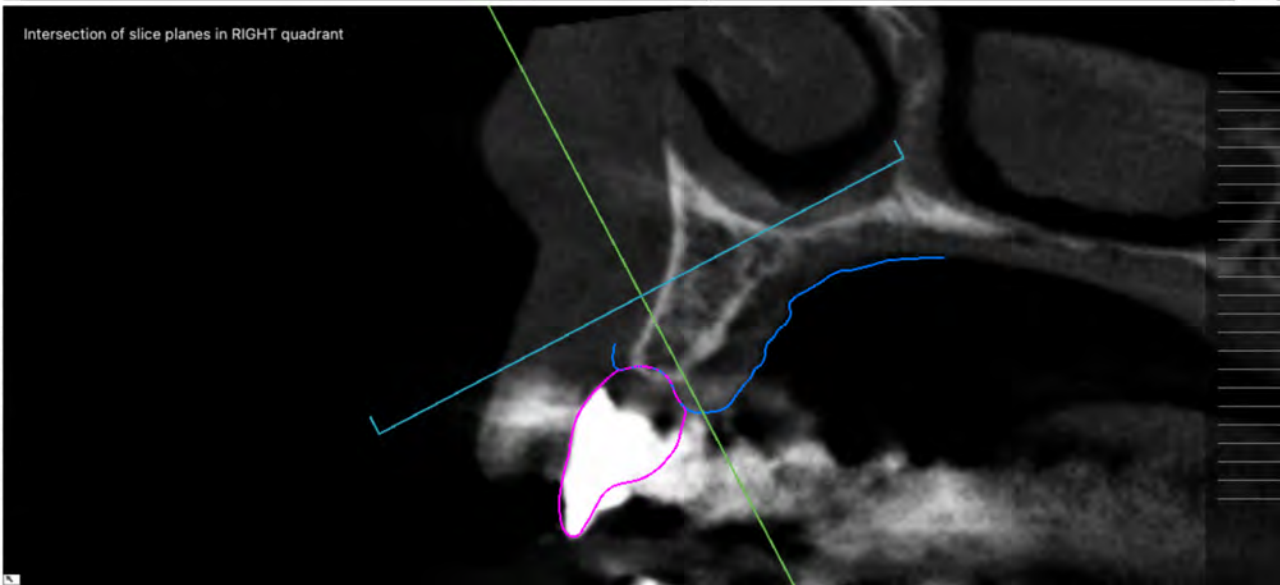
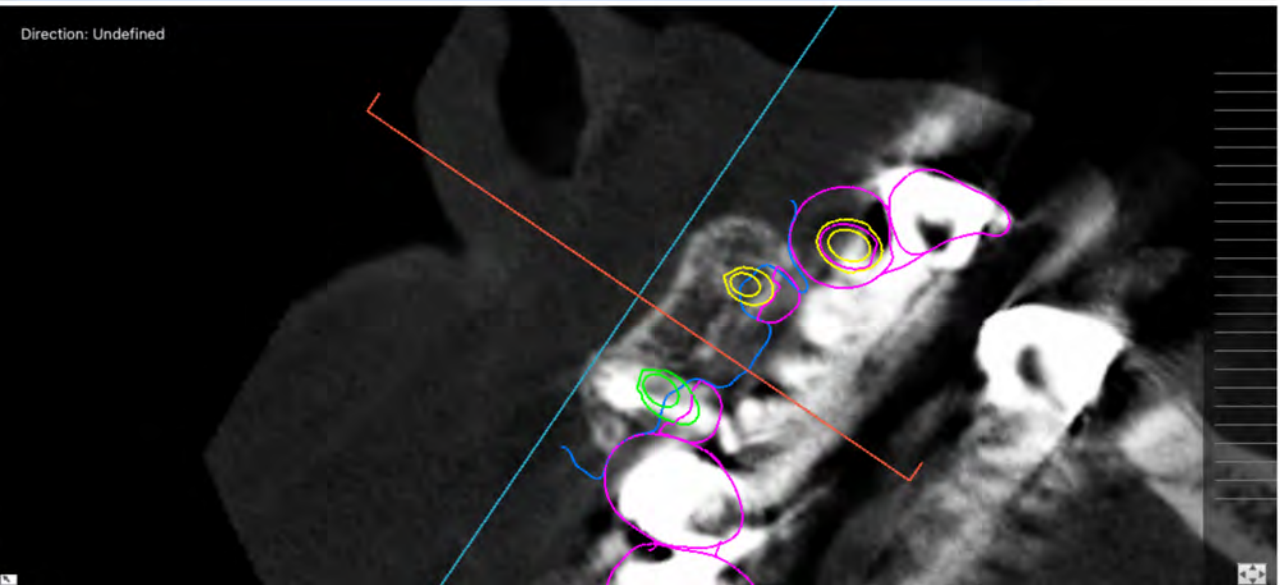
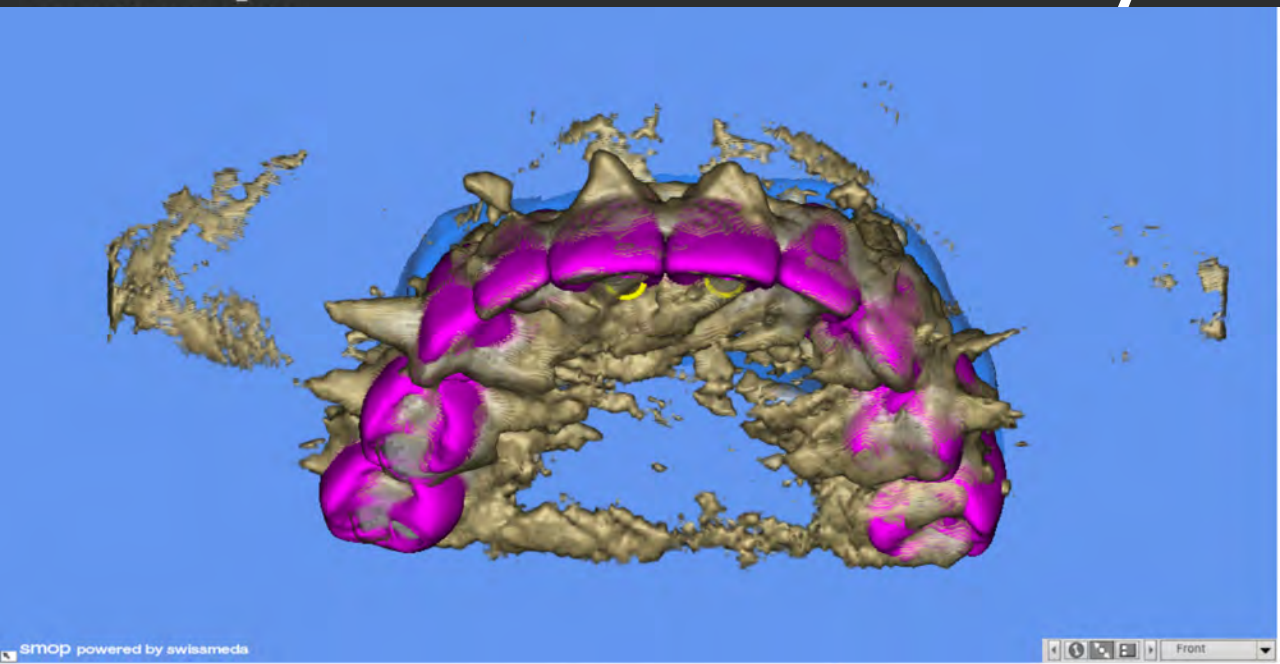


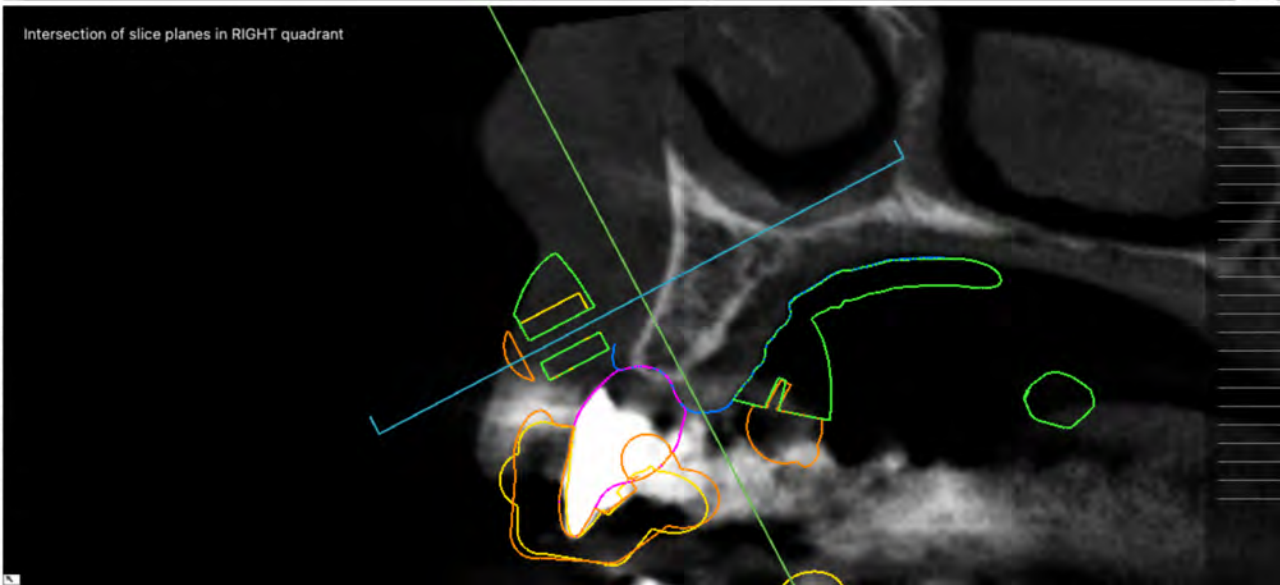
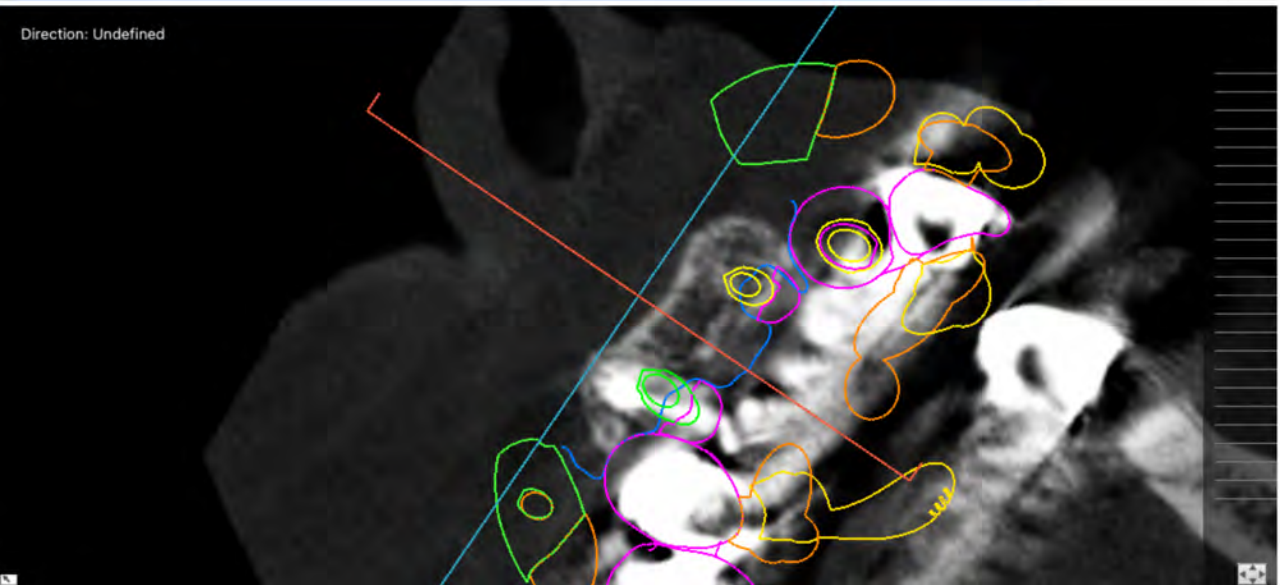
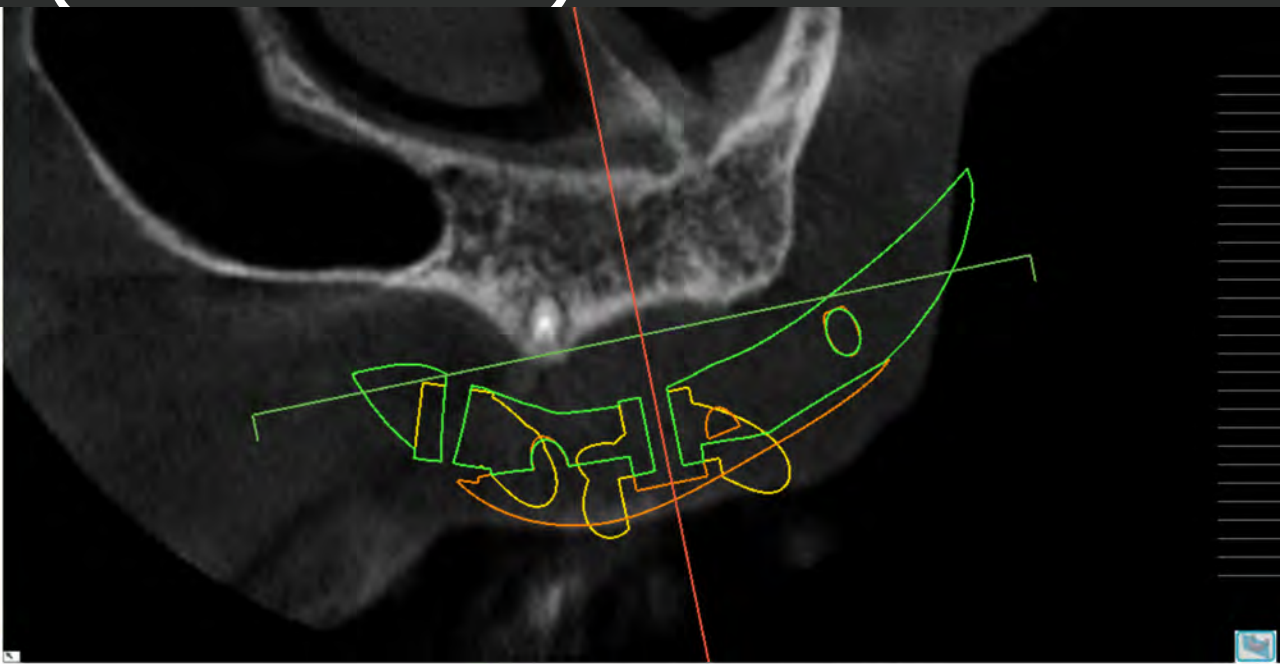
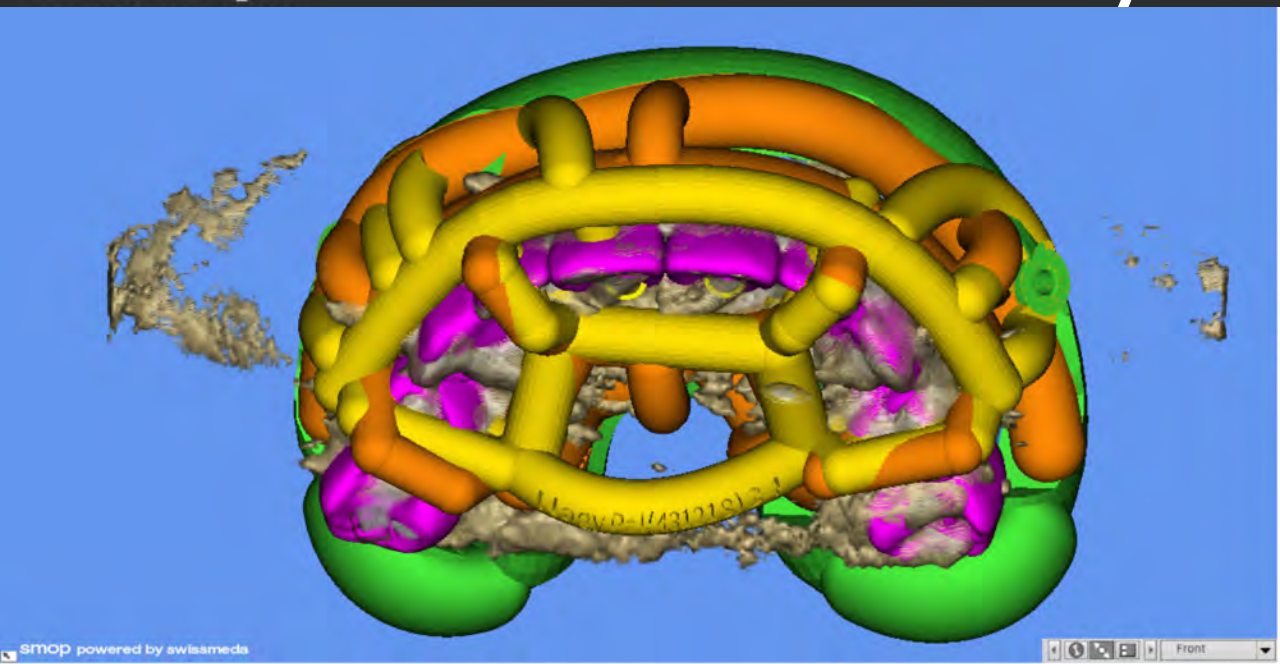
STG Base and drilling











Munkafolyamat (Műtét)

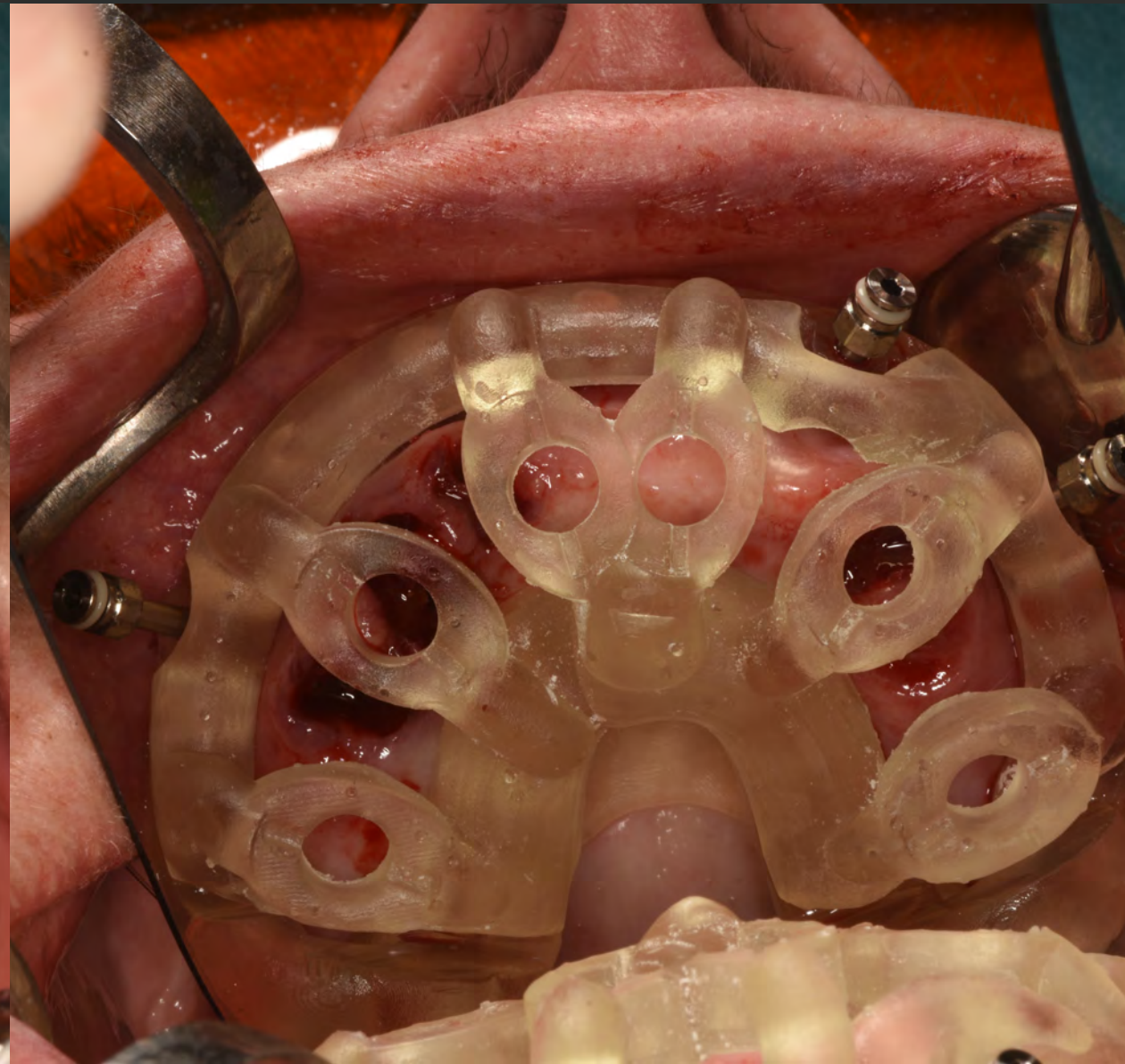
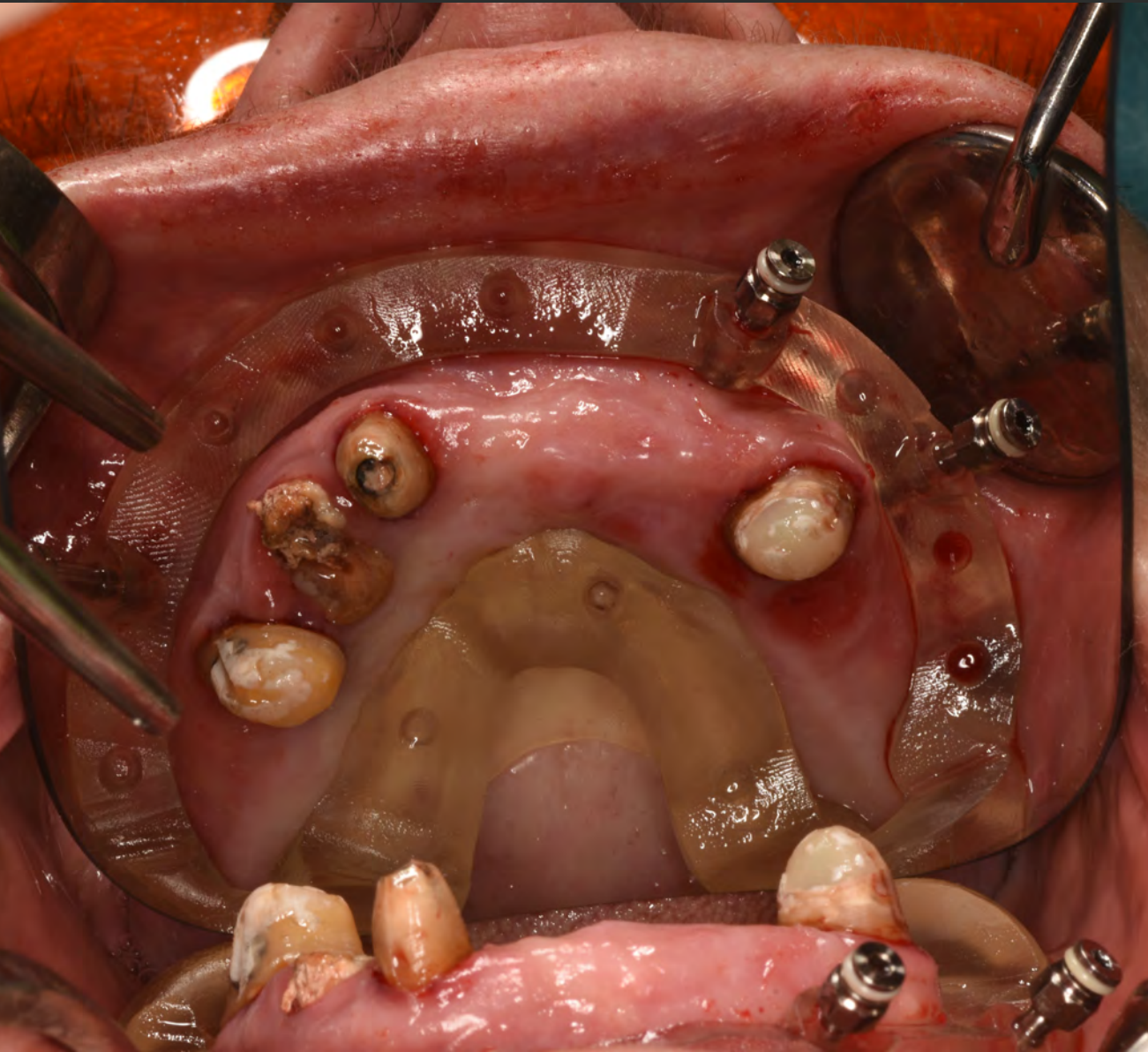




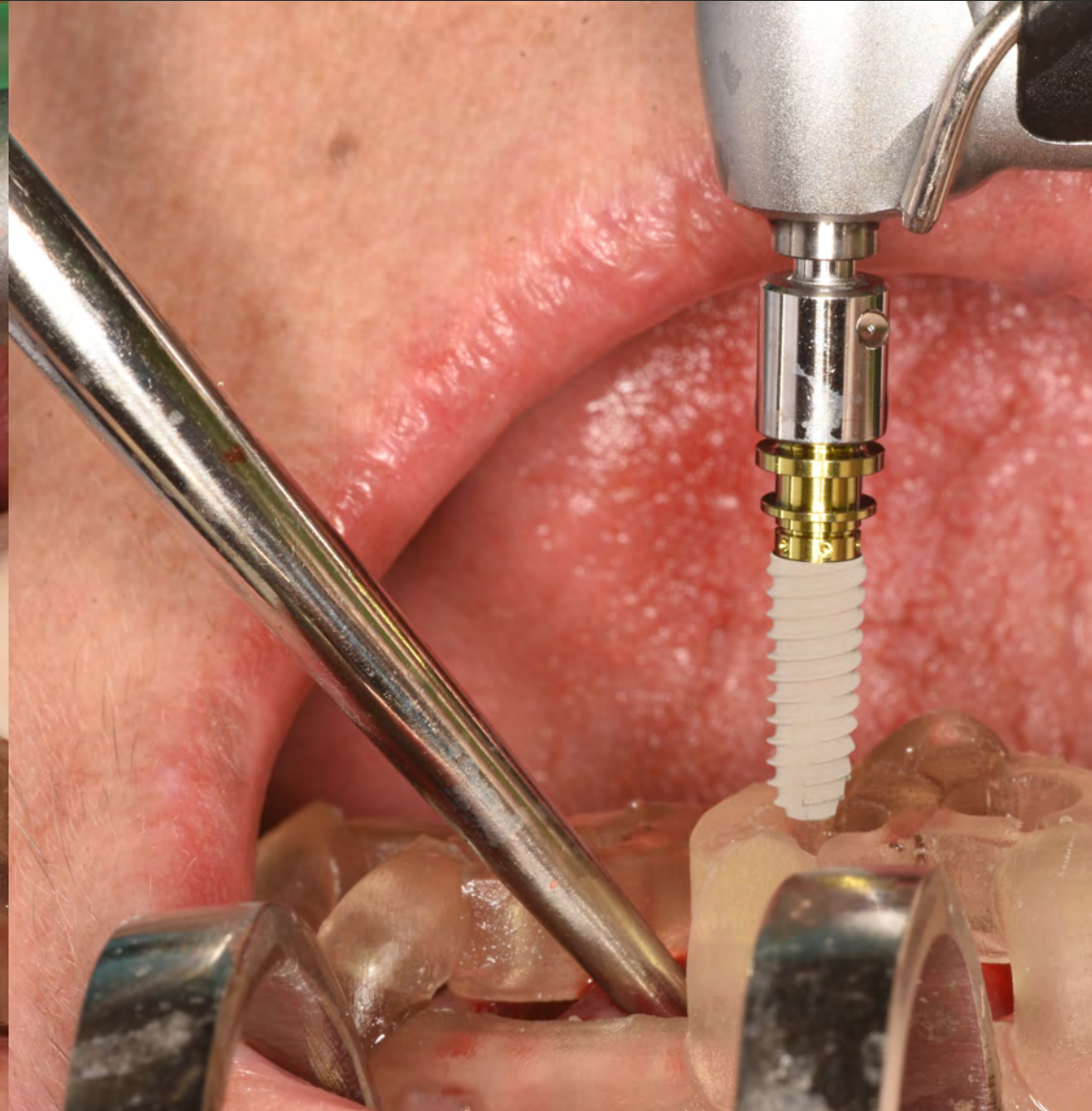


Munakfolyamat (Műtét)

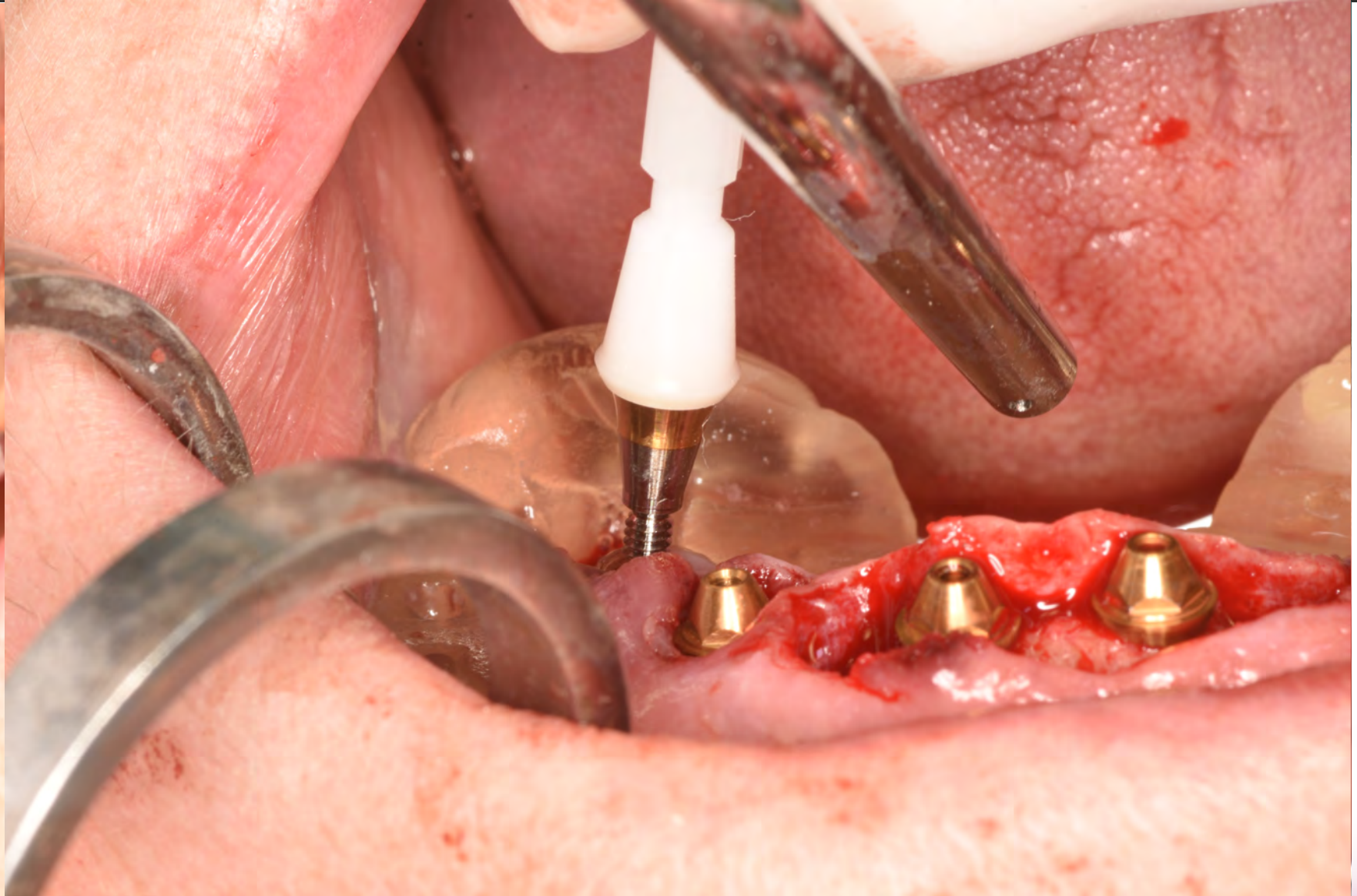
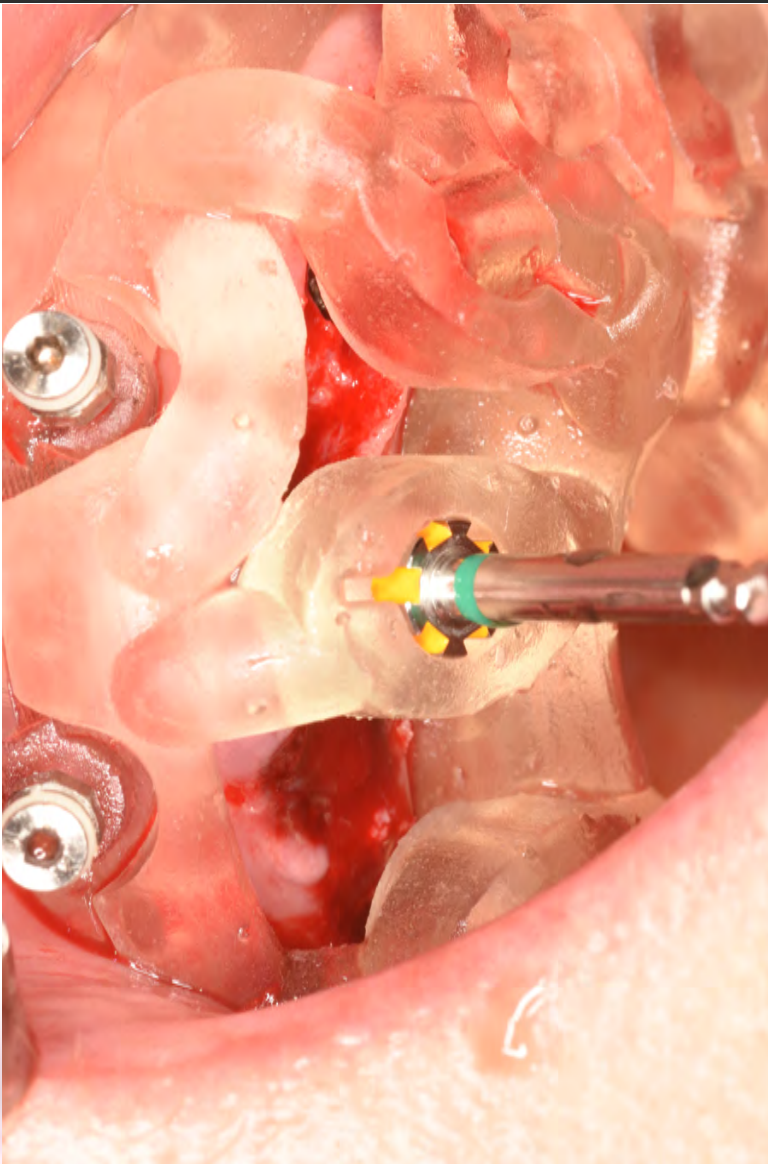




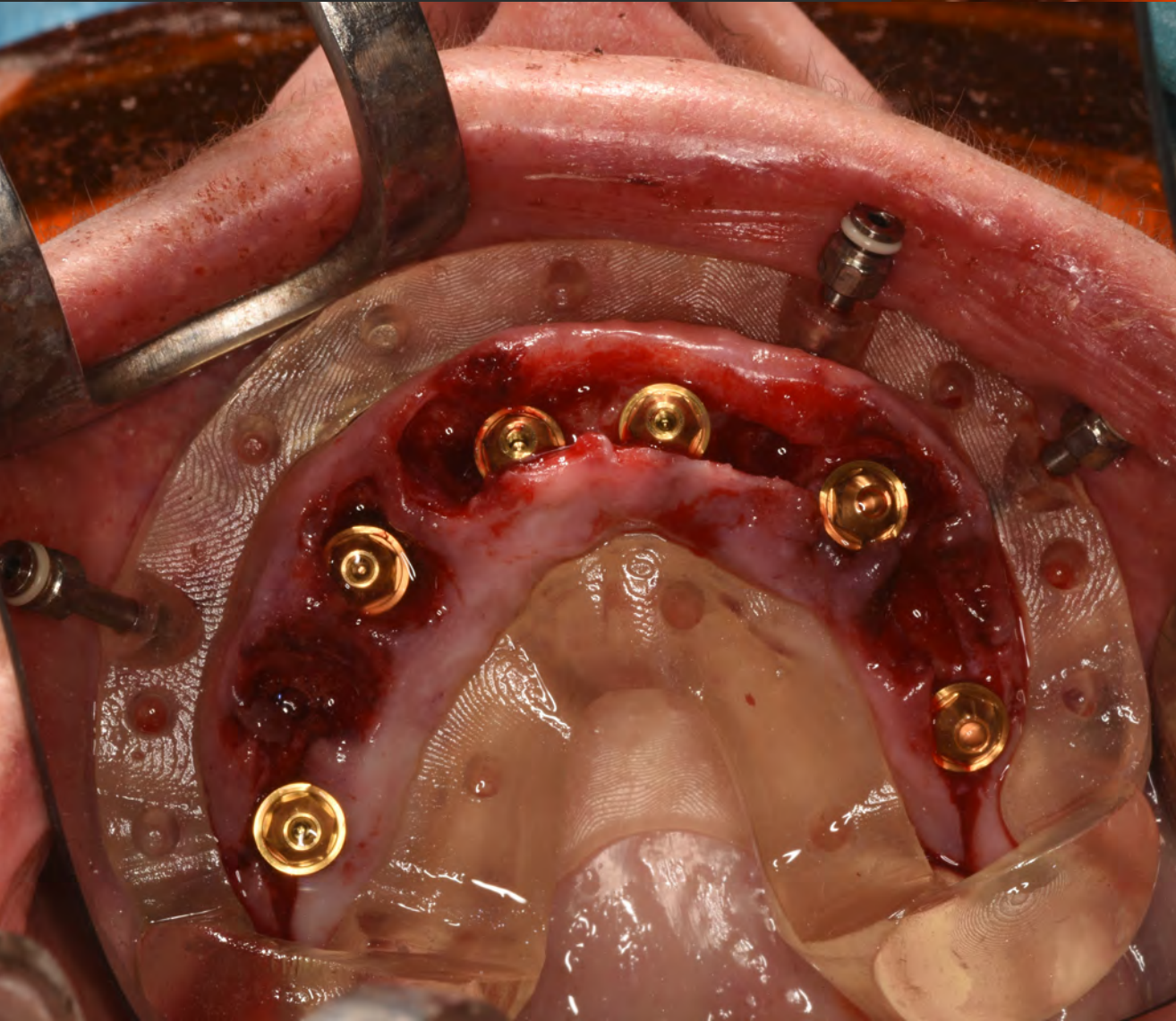
Munakfolyamat (Műtét)



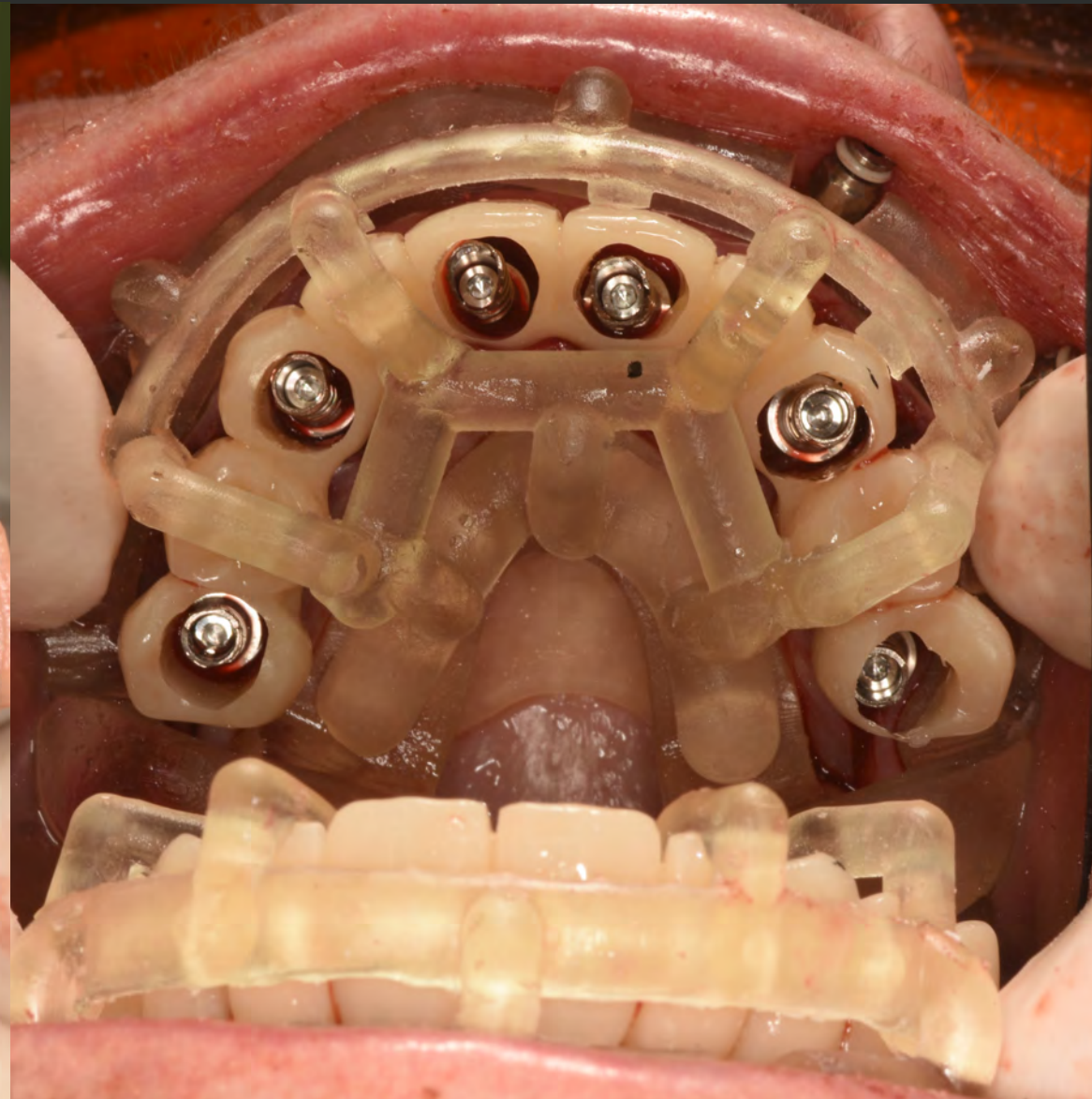
Munakfolyamat (Műtét)



Munakfolyamat (Tervezés)



Munakfolyamat (Tervezés)



Munakfolyamat (Tervezés)





Köszönöm a megtisztelő figyelmet!

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