

DentXpin™

Invented by Dr. Jeremy Ellis D.D.S.

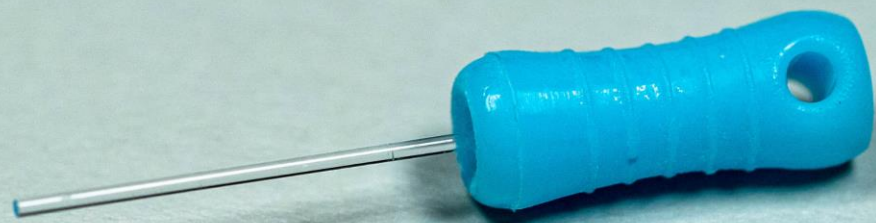


Dentistry Elevated™

Patent Pending & FDA Registered
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COMMON CASE I





CASE I



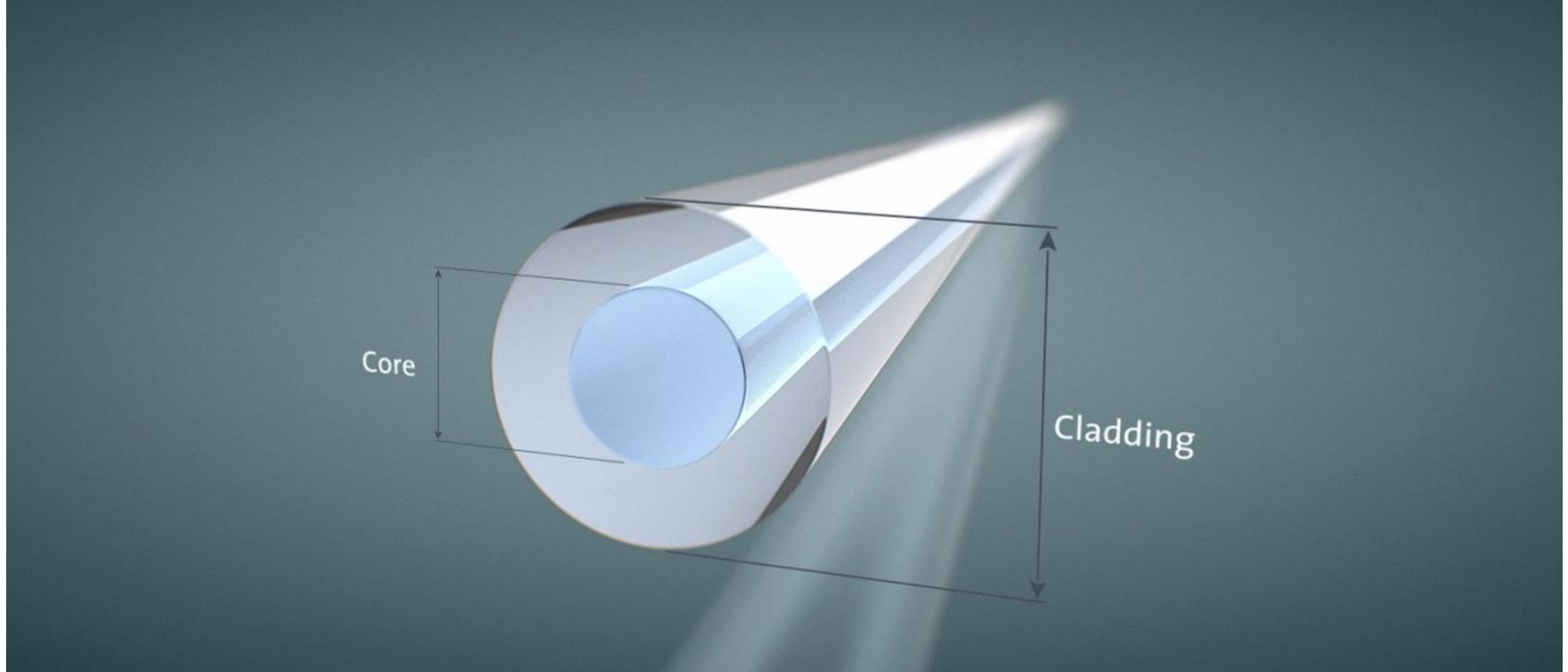
CASE I



CASE I



COMMON CASE 2

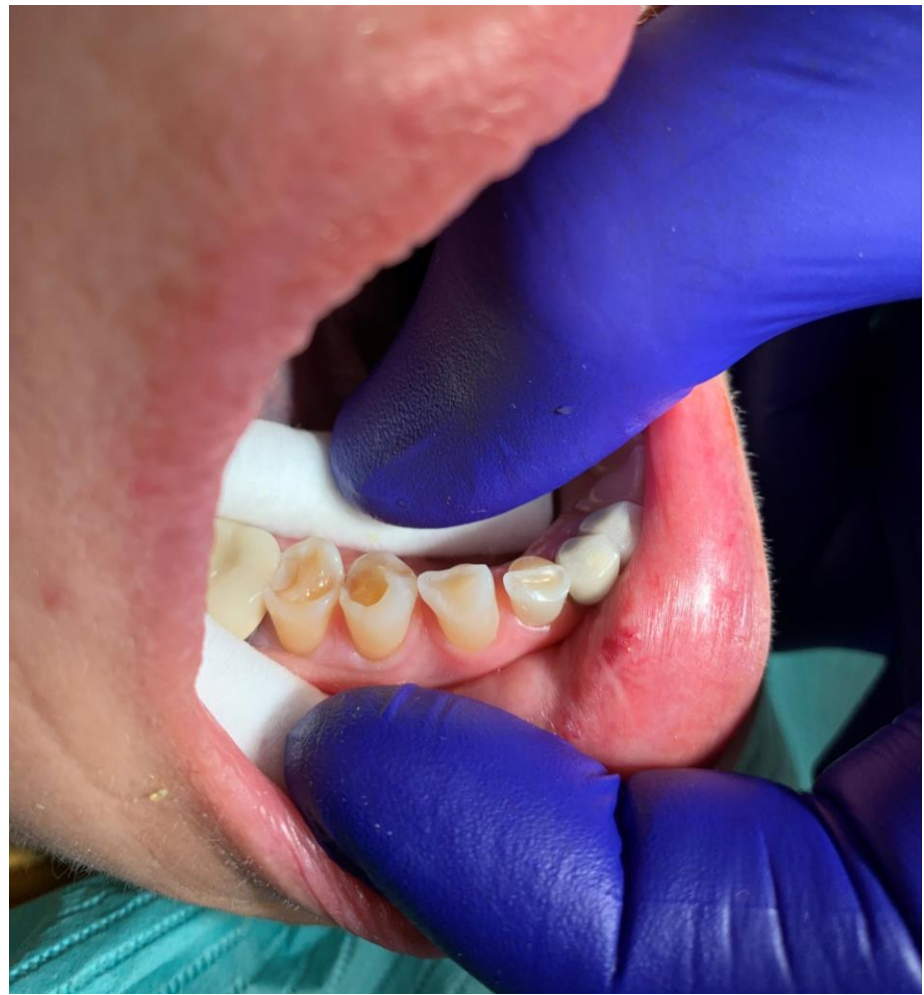


CASE 2

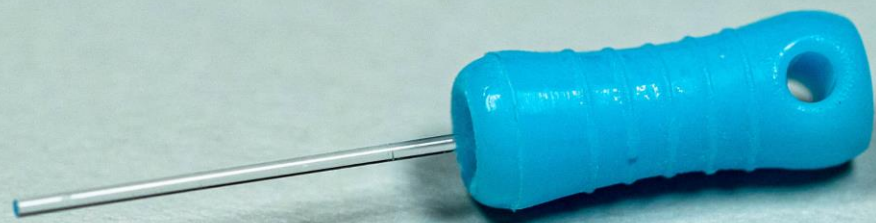


CASE 2





COMMON CASE 3



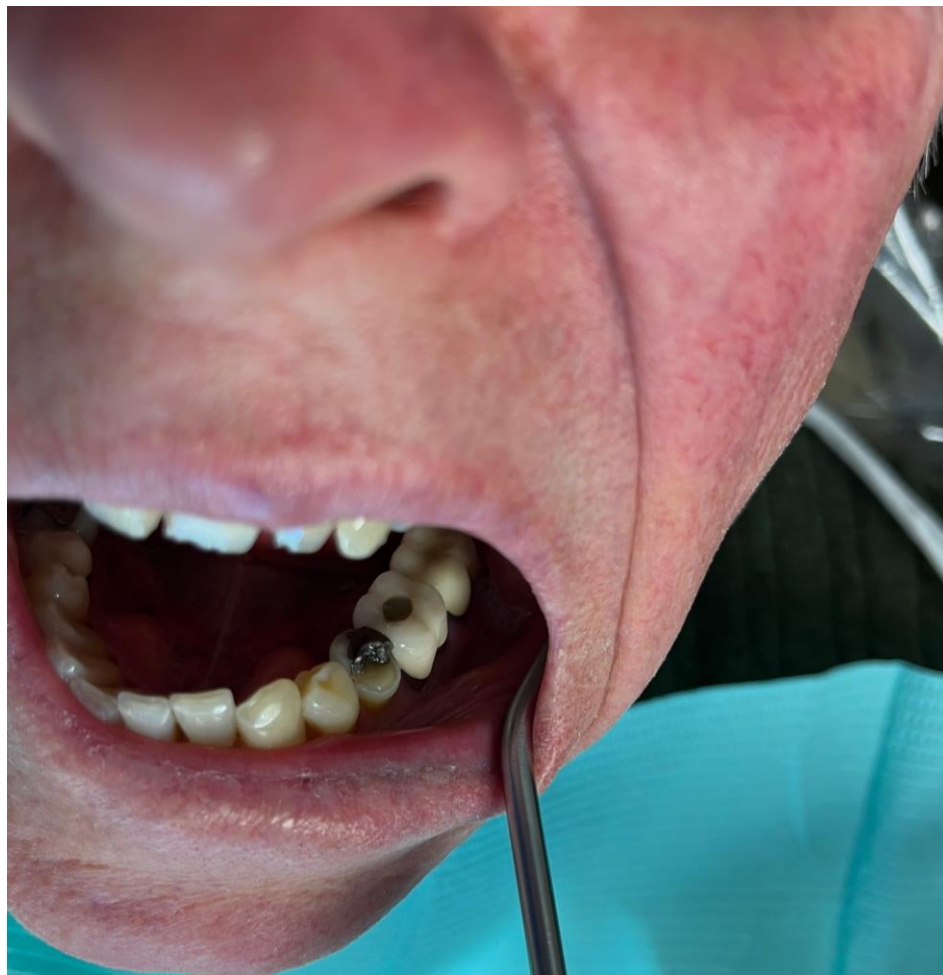


CASE 3



CASE 3

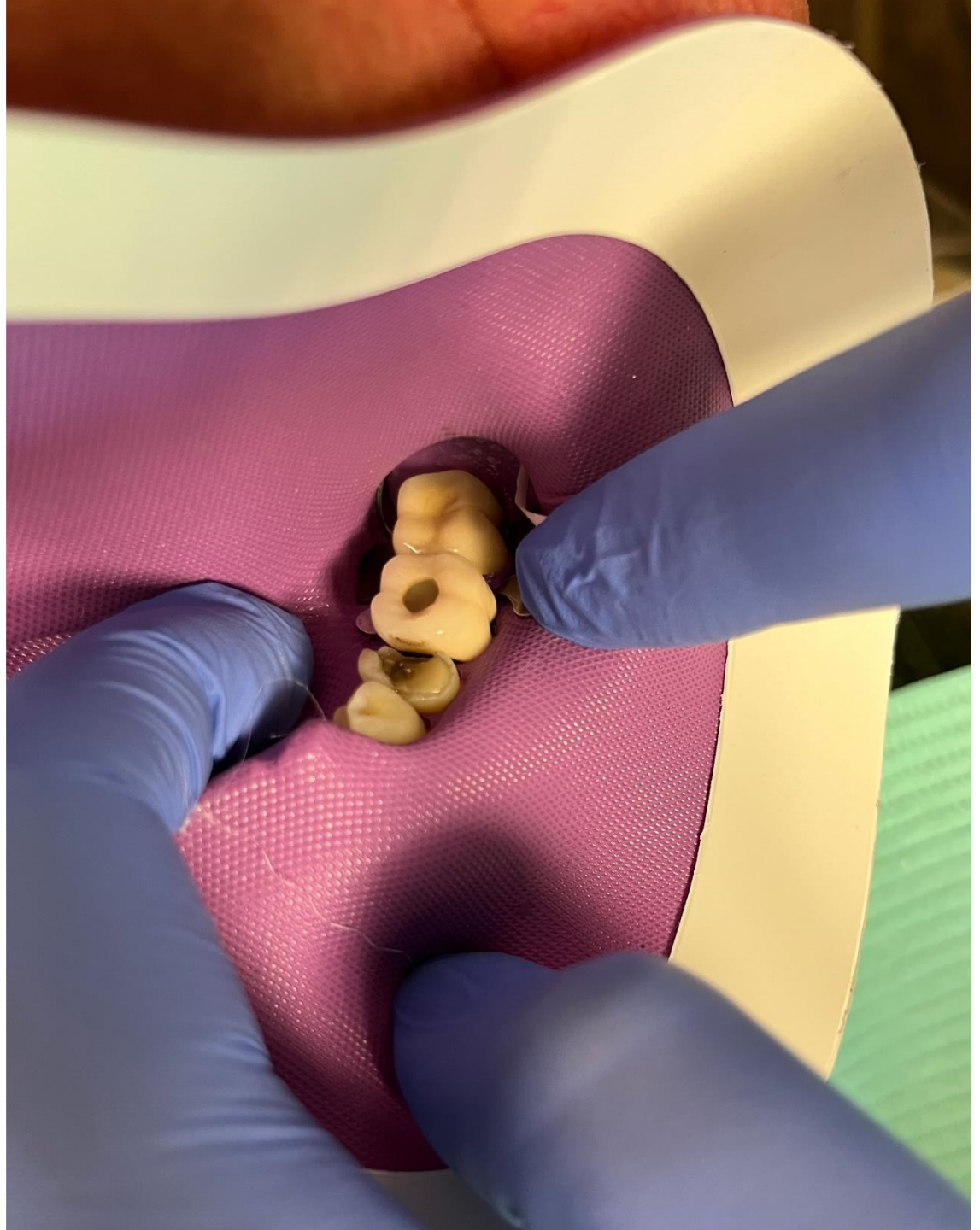




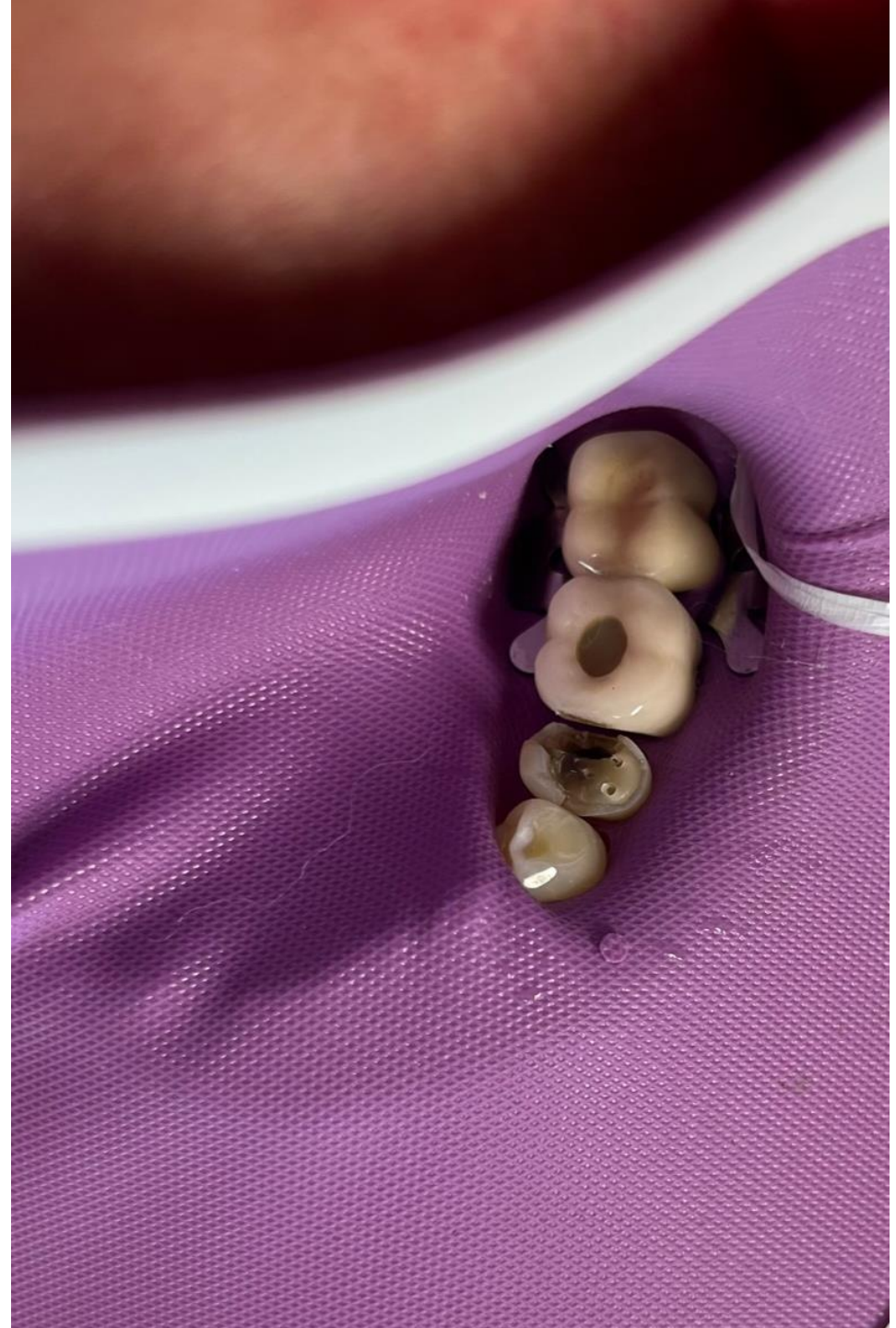
COMMON CASE 4



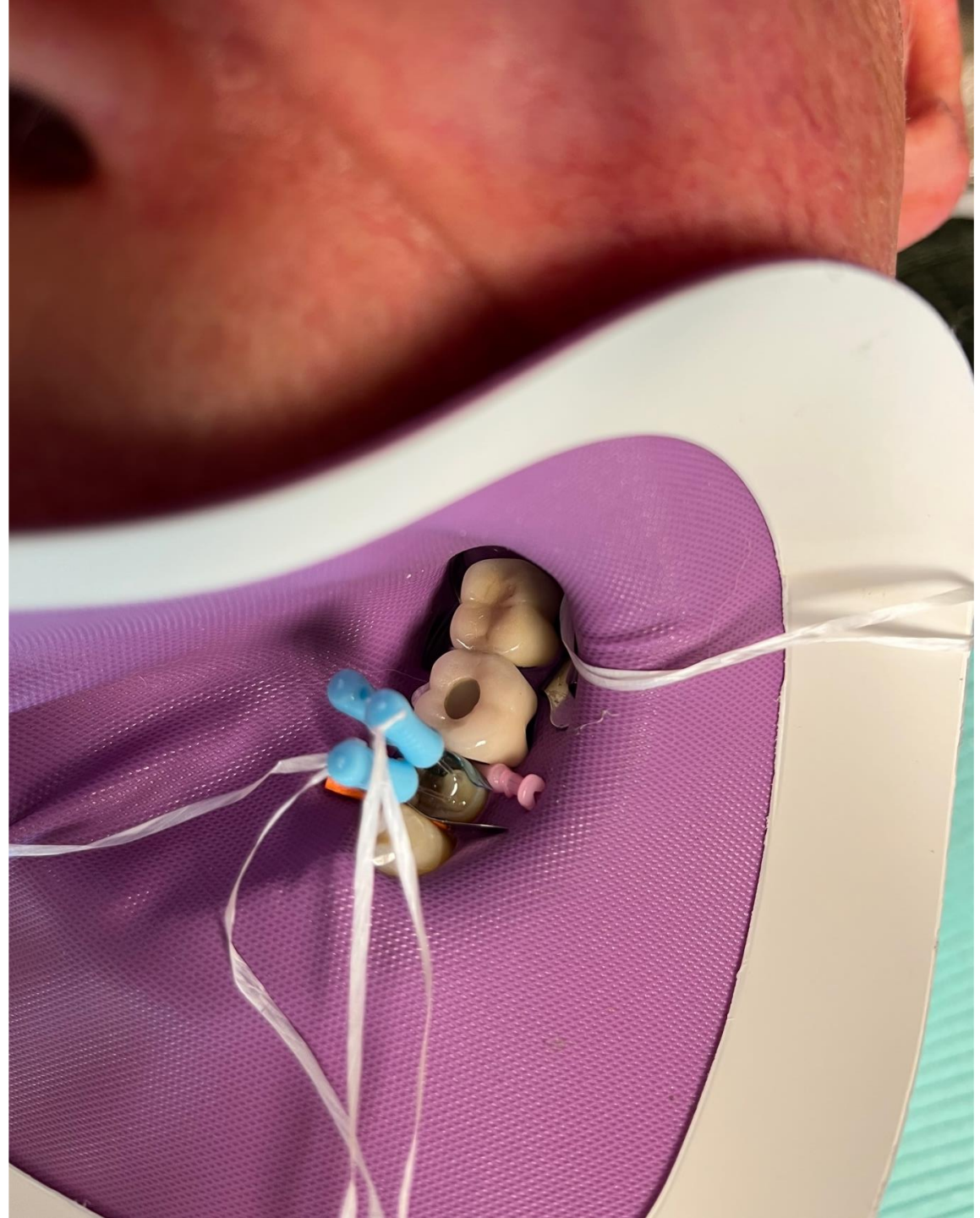
CASE 4



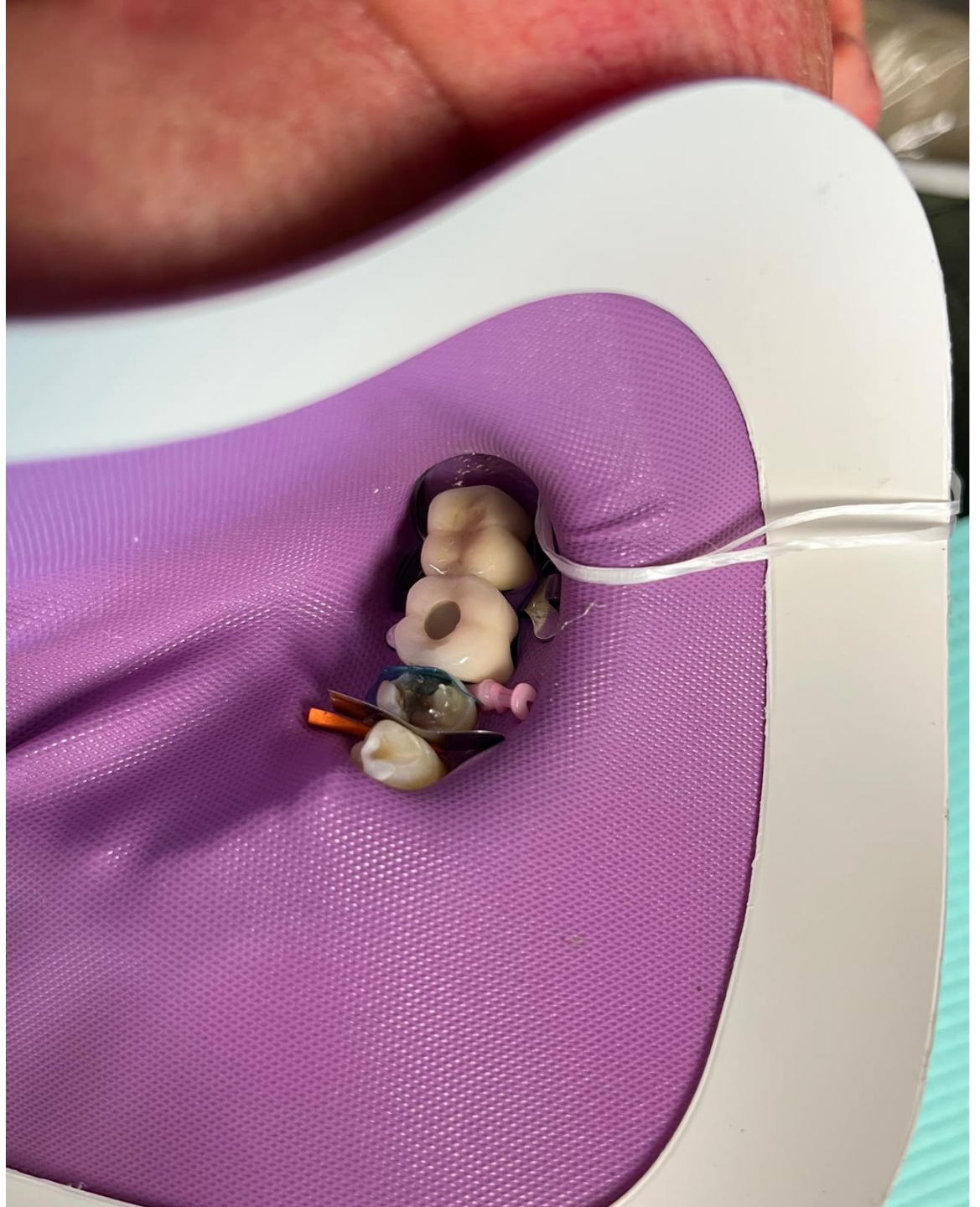
CASE 4



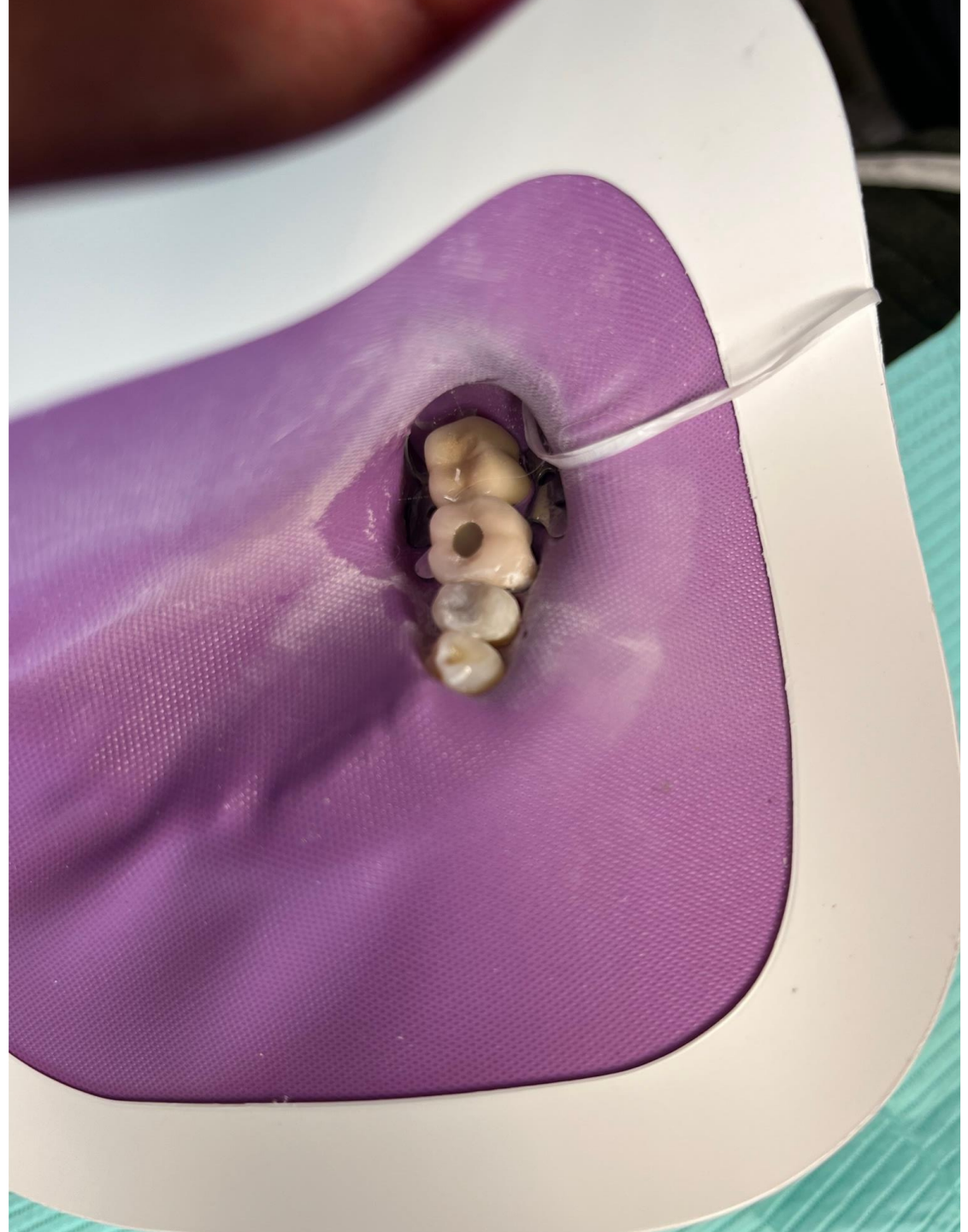
CASE 4



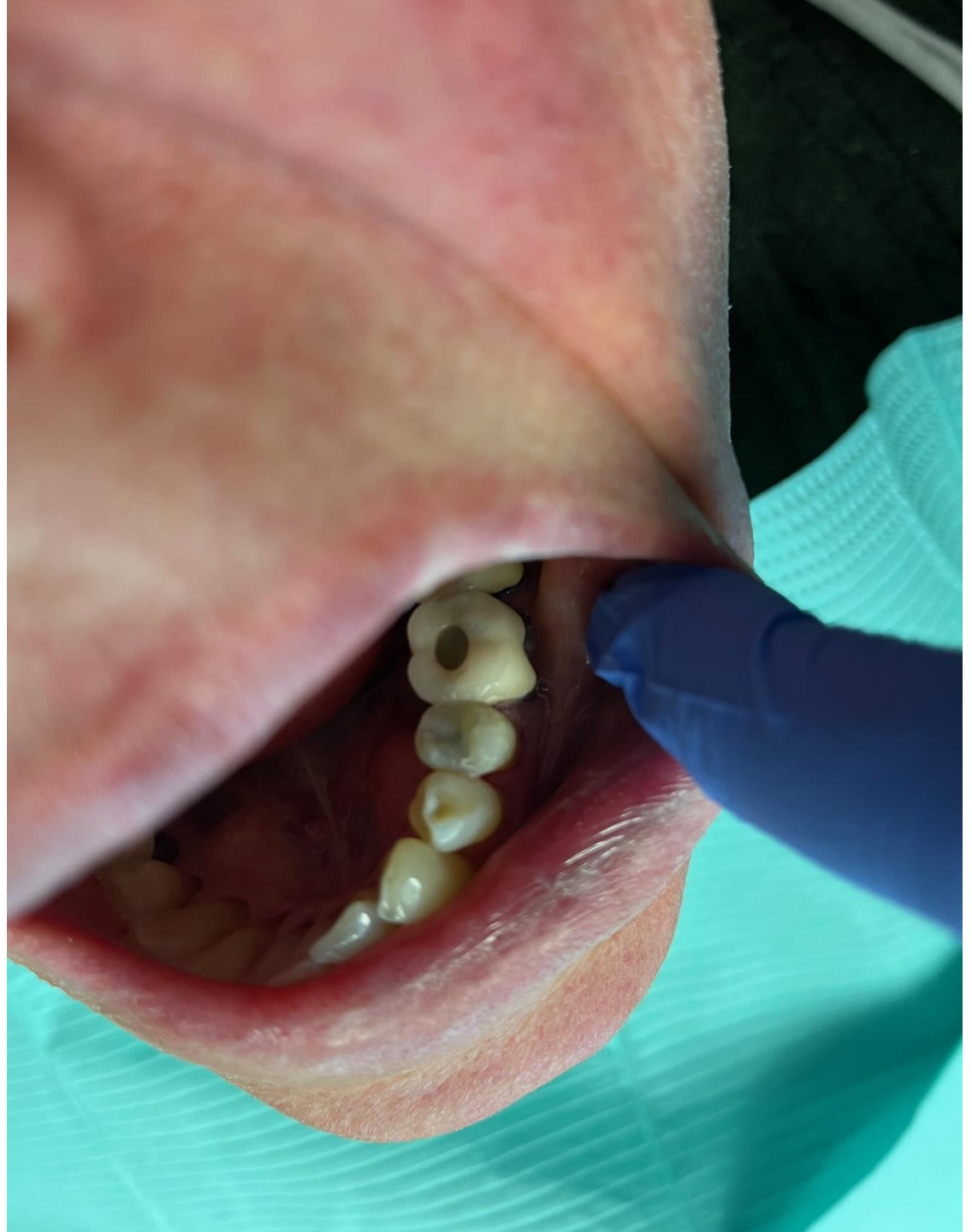
CASE 4



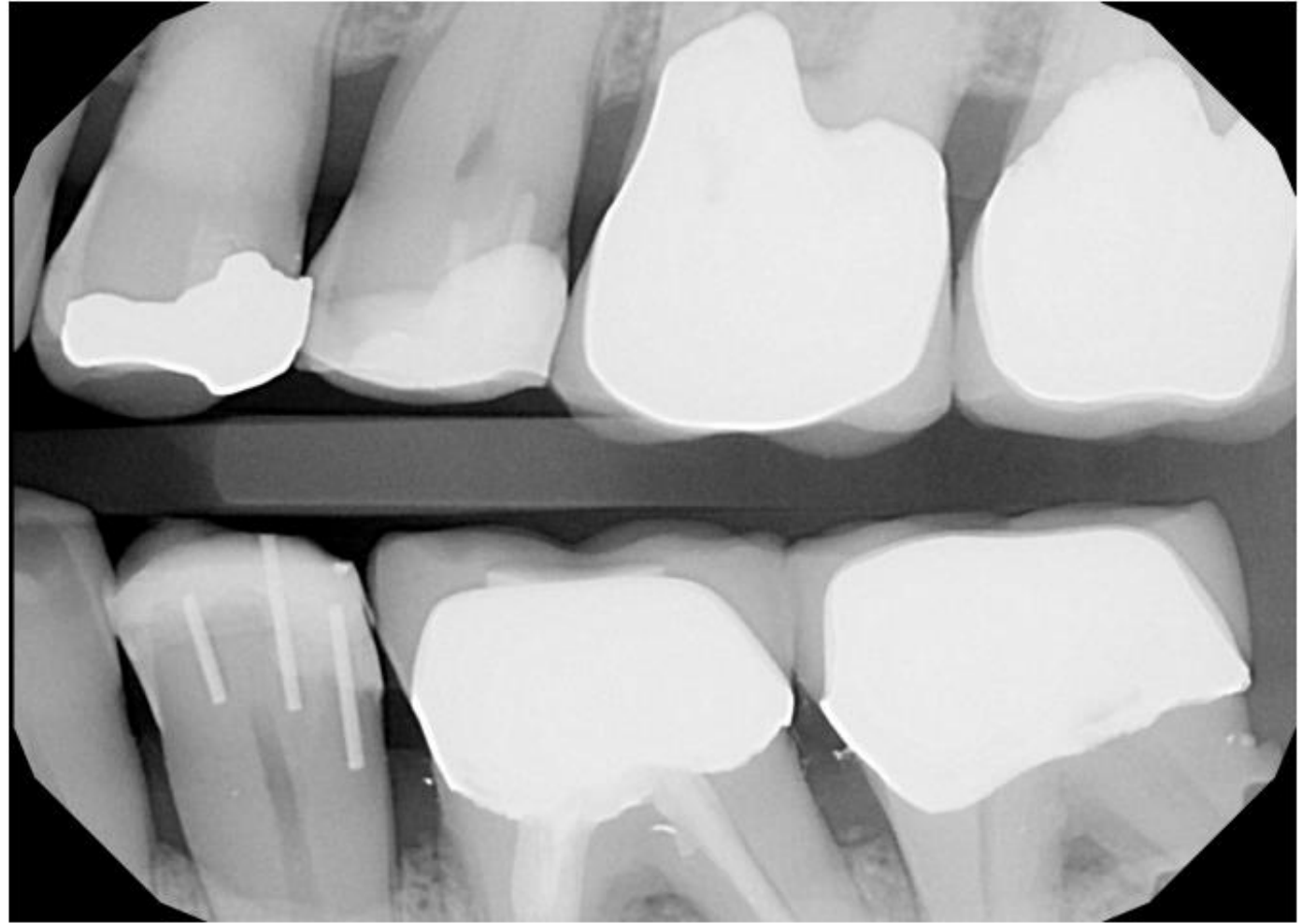
CASE 4



CASE 4



CASE 4



WHY DENT X PIN WORKS

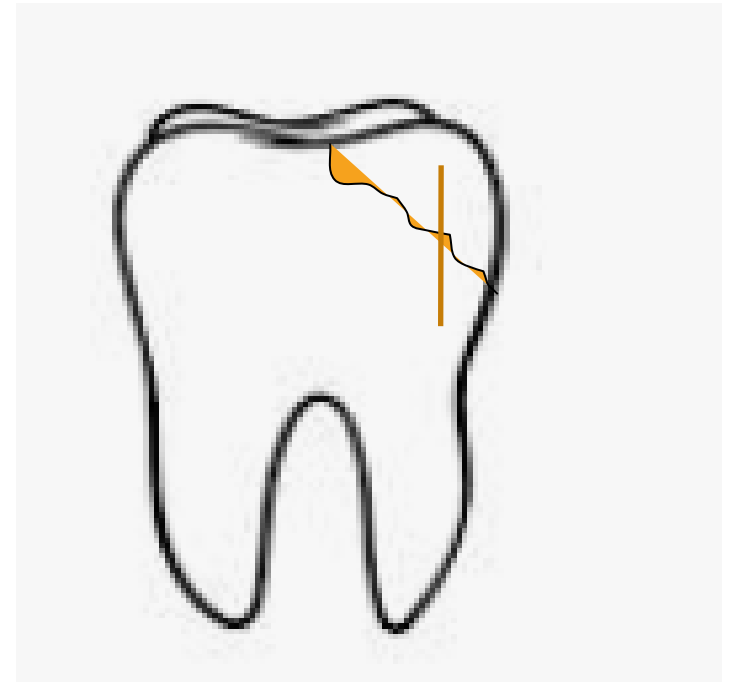
Bonds into tooth using its surface area

Adhesive loaded in shear retains pin

Dent X Pin spans the repair line tying the repair to the tooth

Reinforces attachment of the repair to the native tooth material

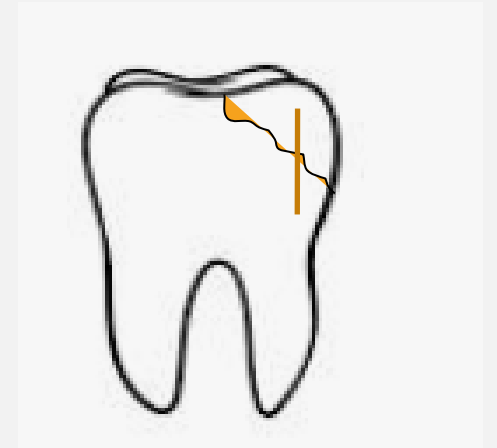
Prevents repeat failures



DENT X PIN MATERIAL PROPERTIES

- Proprietary formulation of fused silica (SiO₂) fiber optic

Attribute	Dentin	Enamel	Fused Silica	Units
Hardness	3	5	6	Mohs
Young's Modulus	10-40	80-120	73	Gpa
Shear Modulus	7-10	0.31	31	Gpa
Shear Strength	38-100	16.4	70	MPa
Compressive Strength	248	384	1108	MPa
Tensile Strength	105	10-20	152	MPa
Coefficient of Thermal Expansion	8.0	11.4	0.55 bulk, 9.1 to 21.2 over short regions	10 ⁻⁶ /deg C

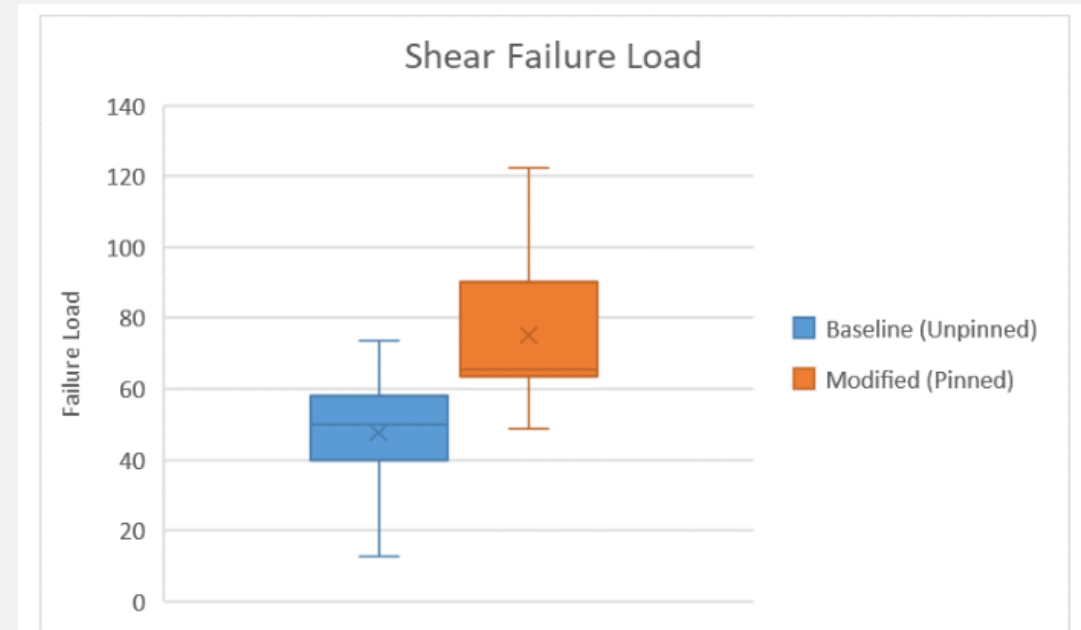


- Moves with the tooth
- Is stronger than the tooth
- Ideal reinforcement

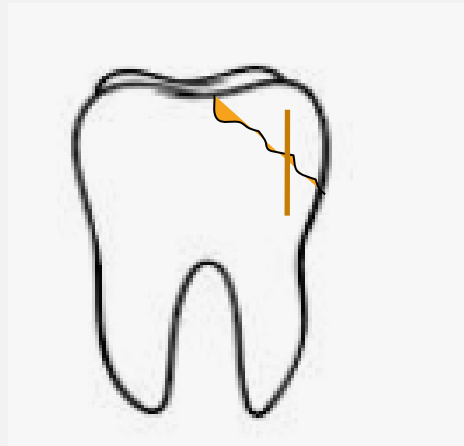
INDEPENDENT TESTING VERIFIES PERFORMANCE

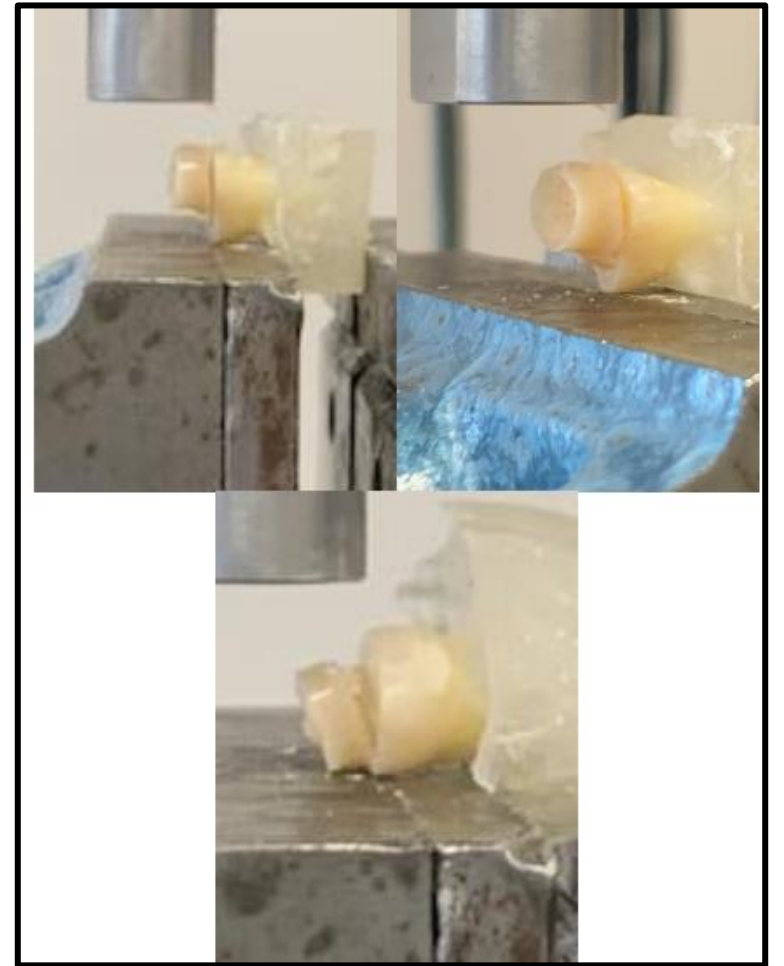
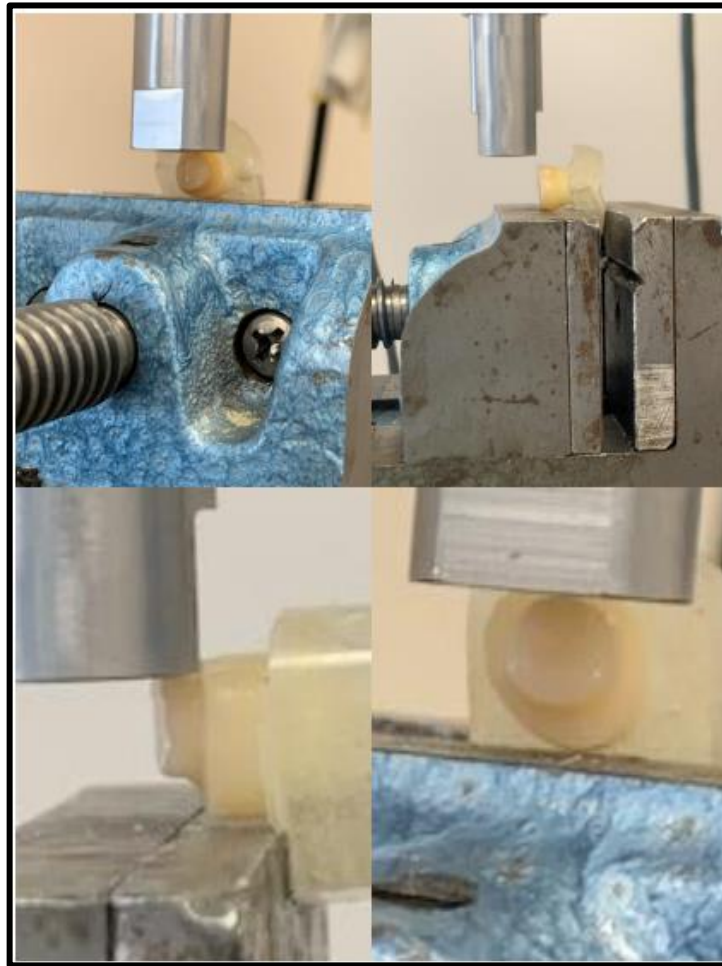
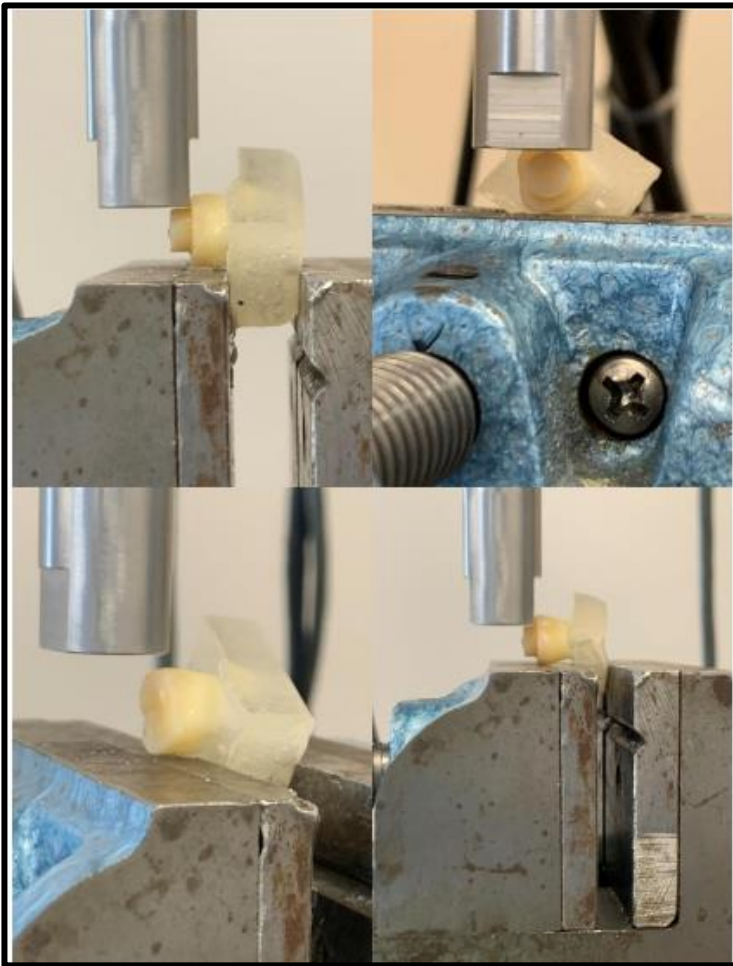
- 3 Different independent labs have verified the strength of repairs

Group	Average (lbf)
Basic	47.58
Modified	75.13
Difference	27.55



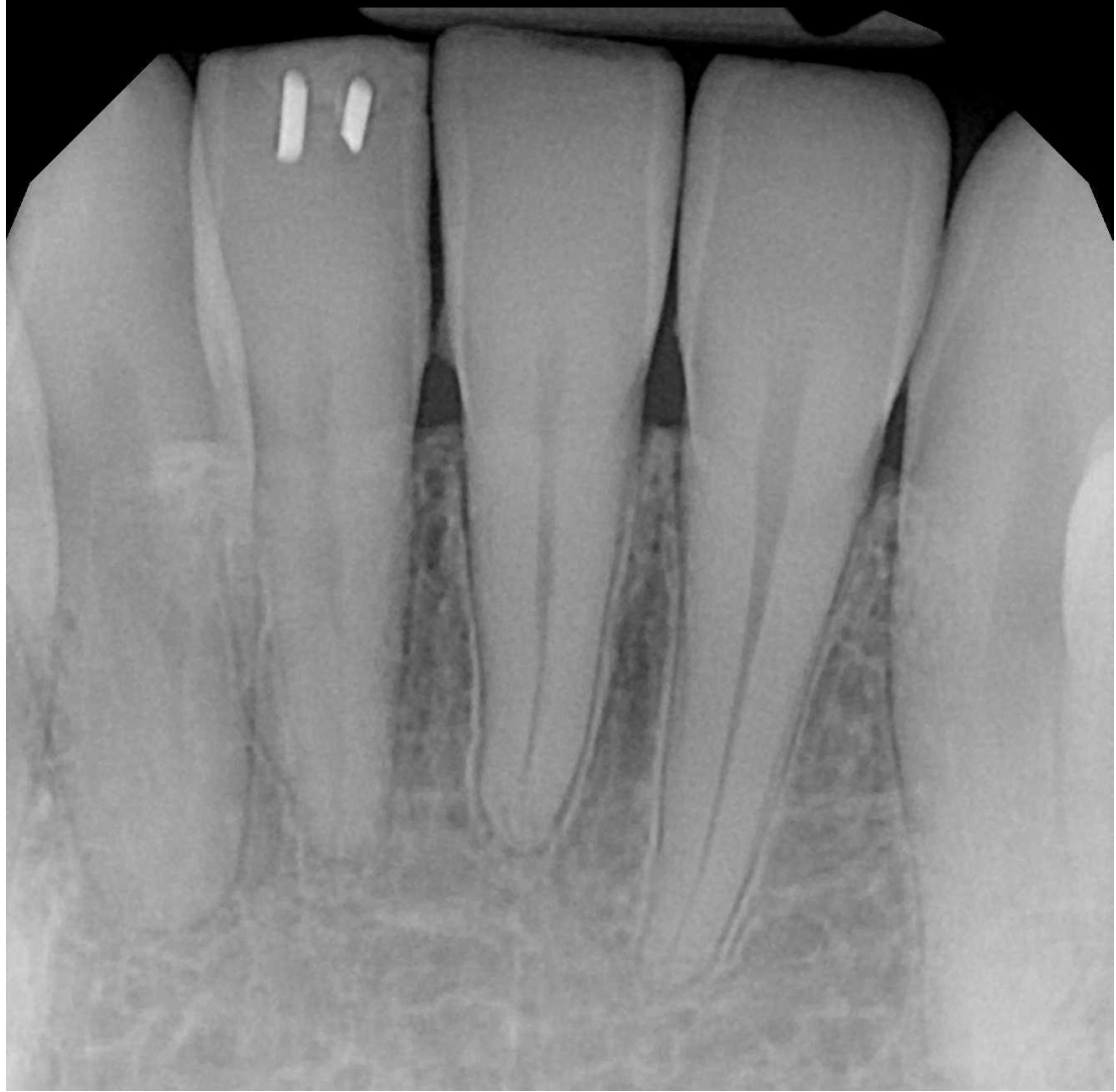
- 58% average increase in shear force to failure





INFORMATION





#D2951 (Pin Retention)



COMMON CASE 5

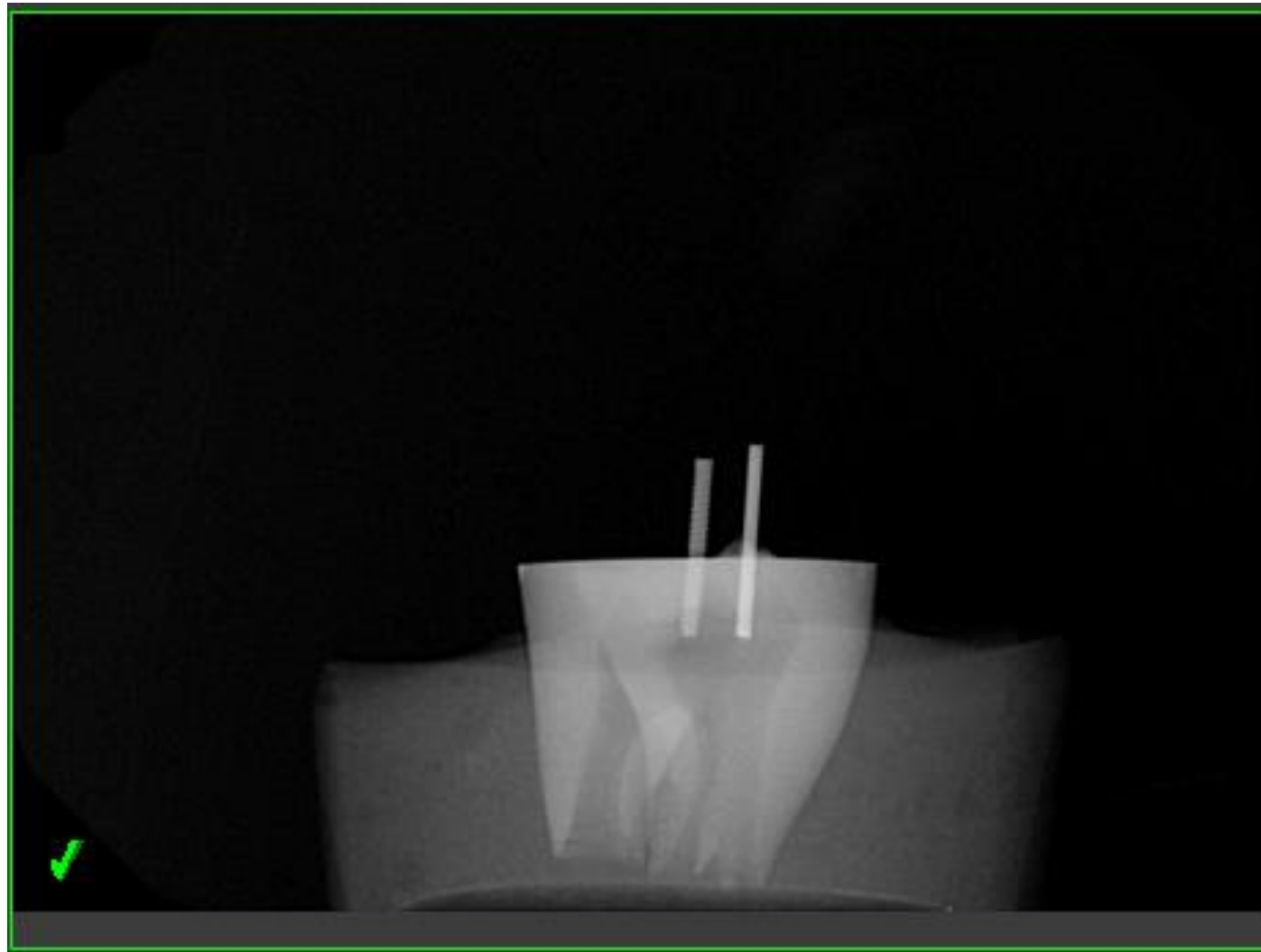




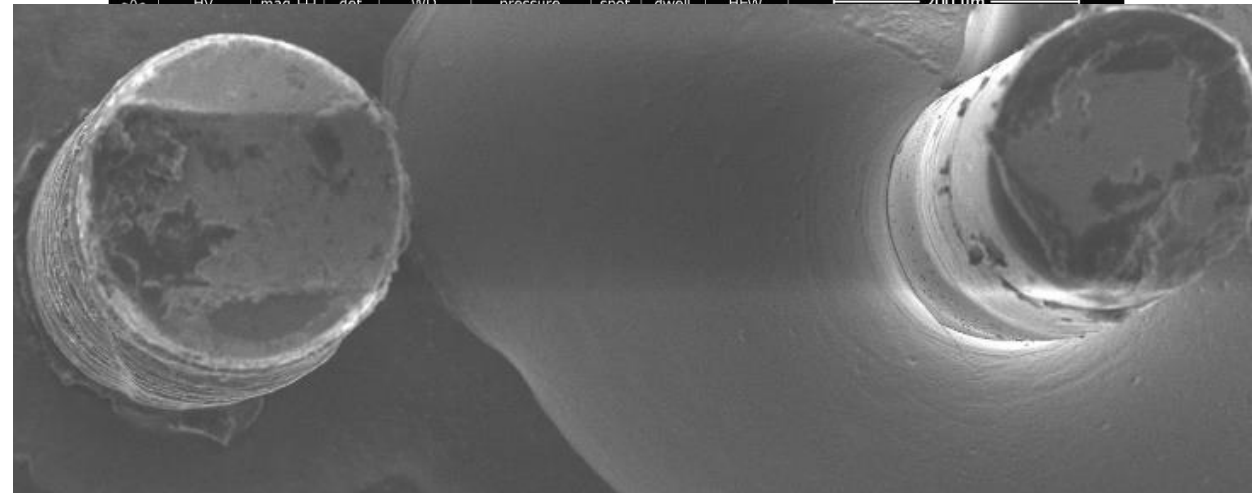
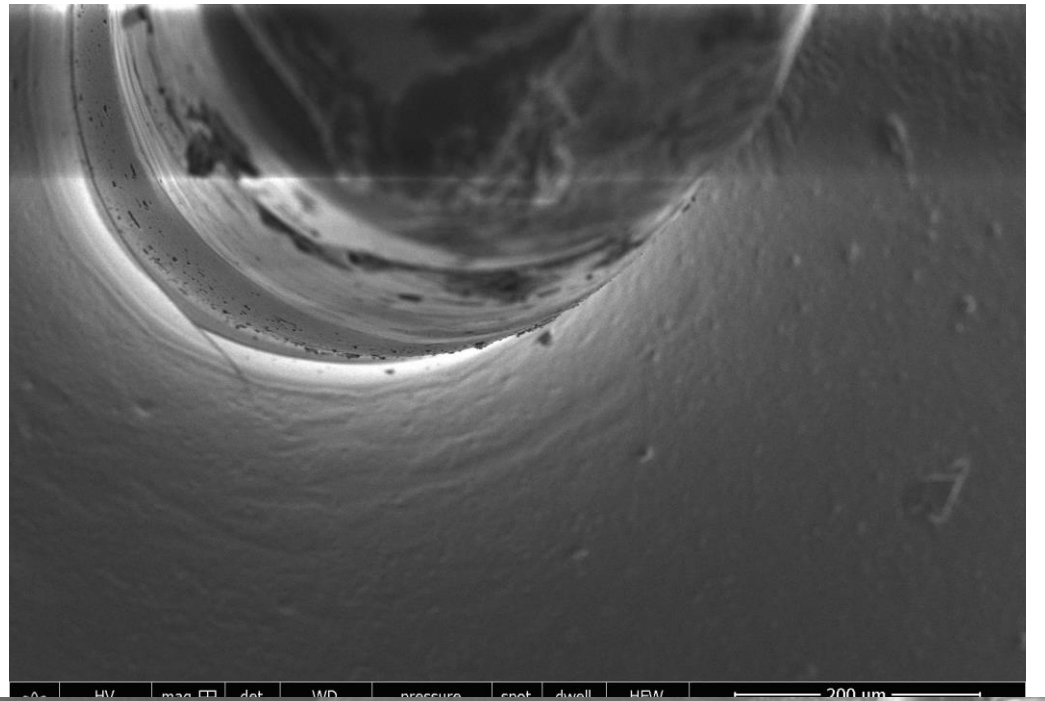


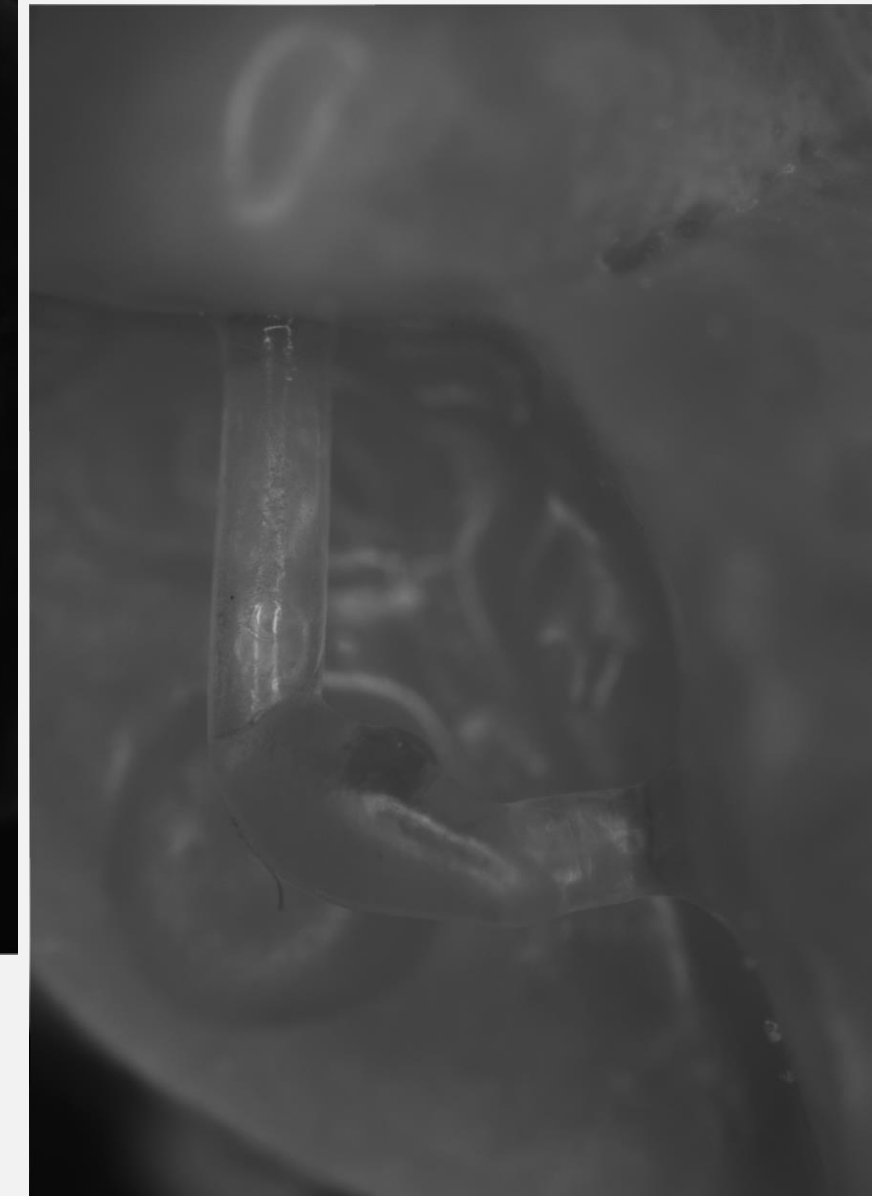
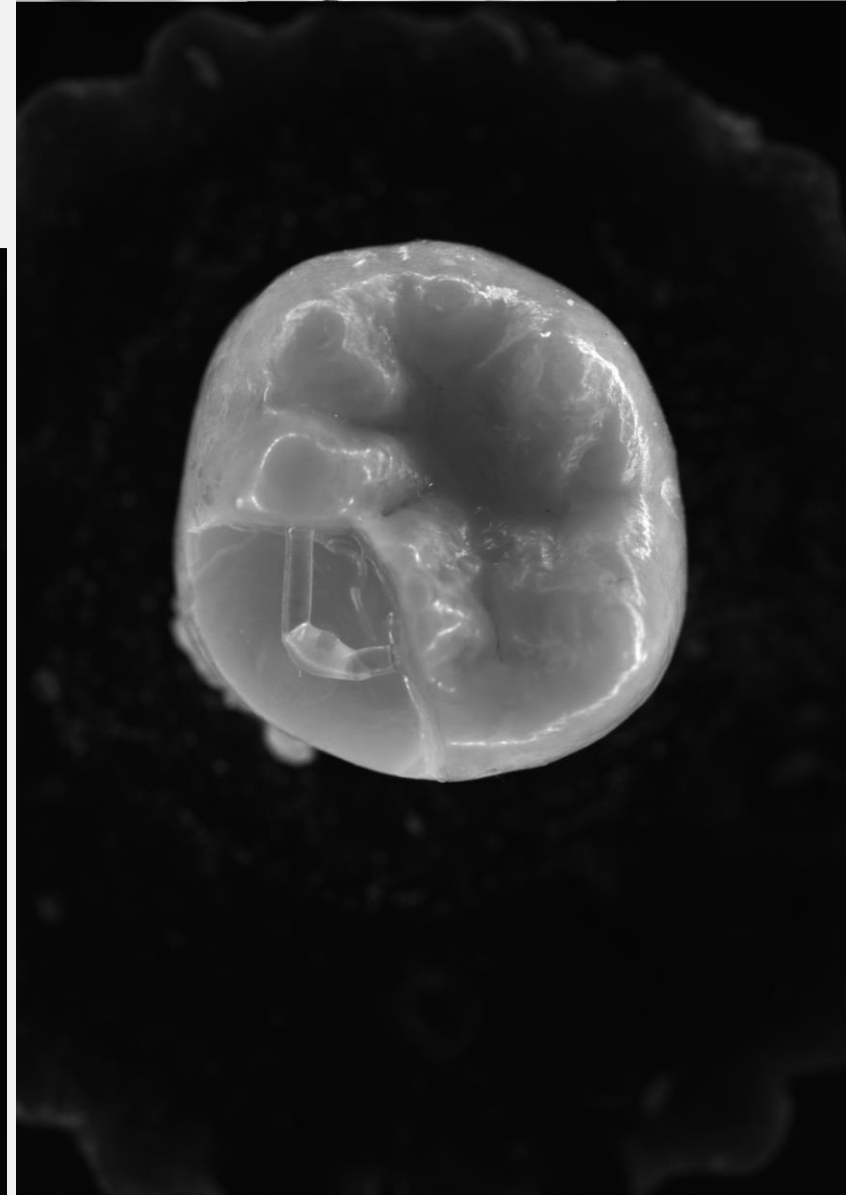
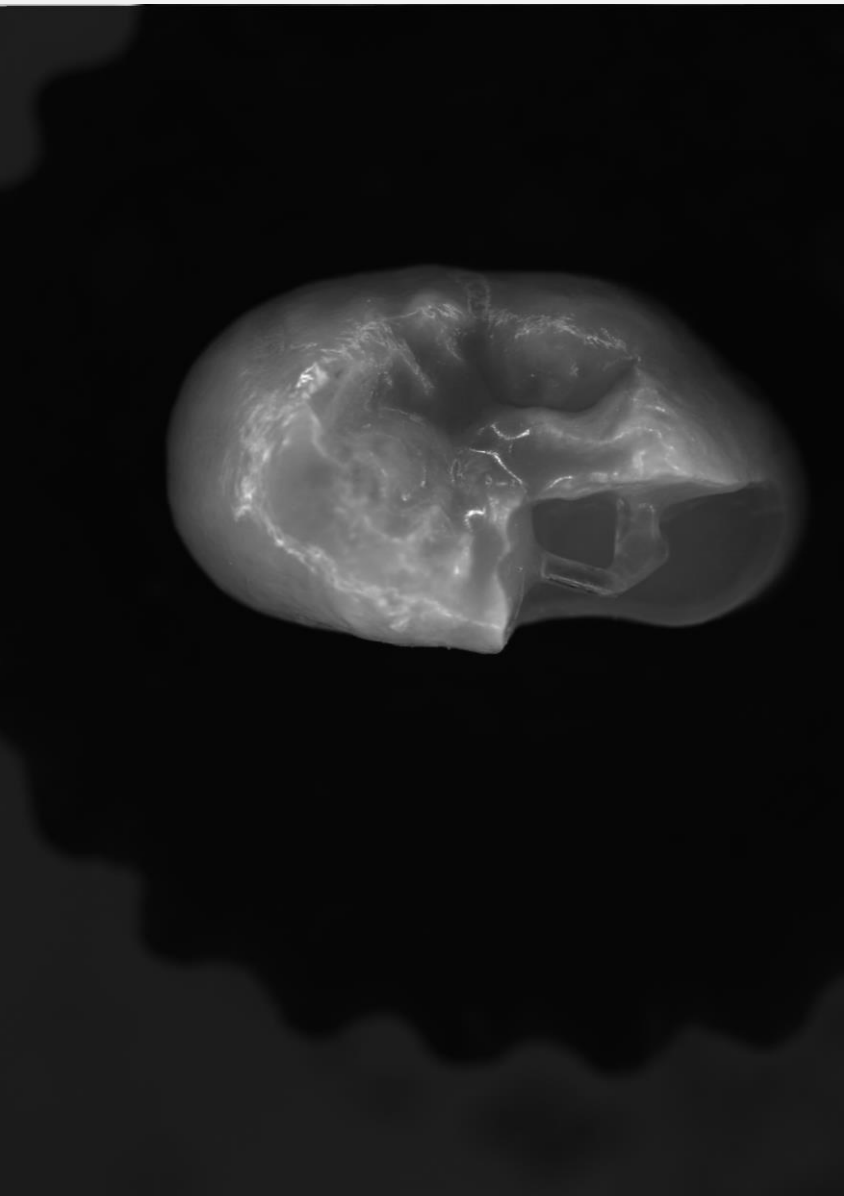


INFORMATION



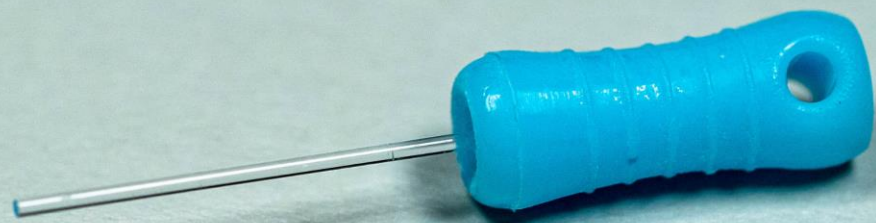
INFORMATION







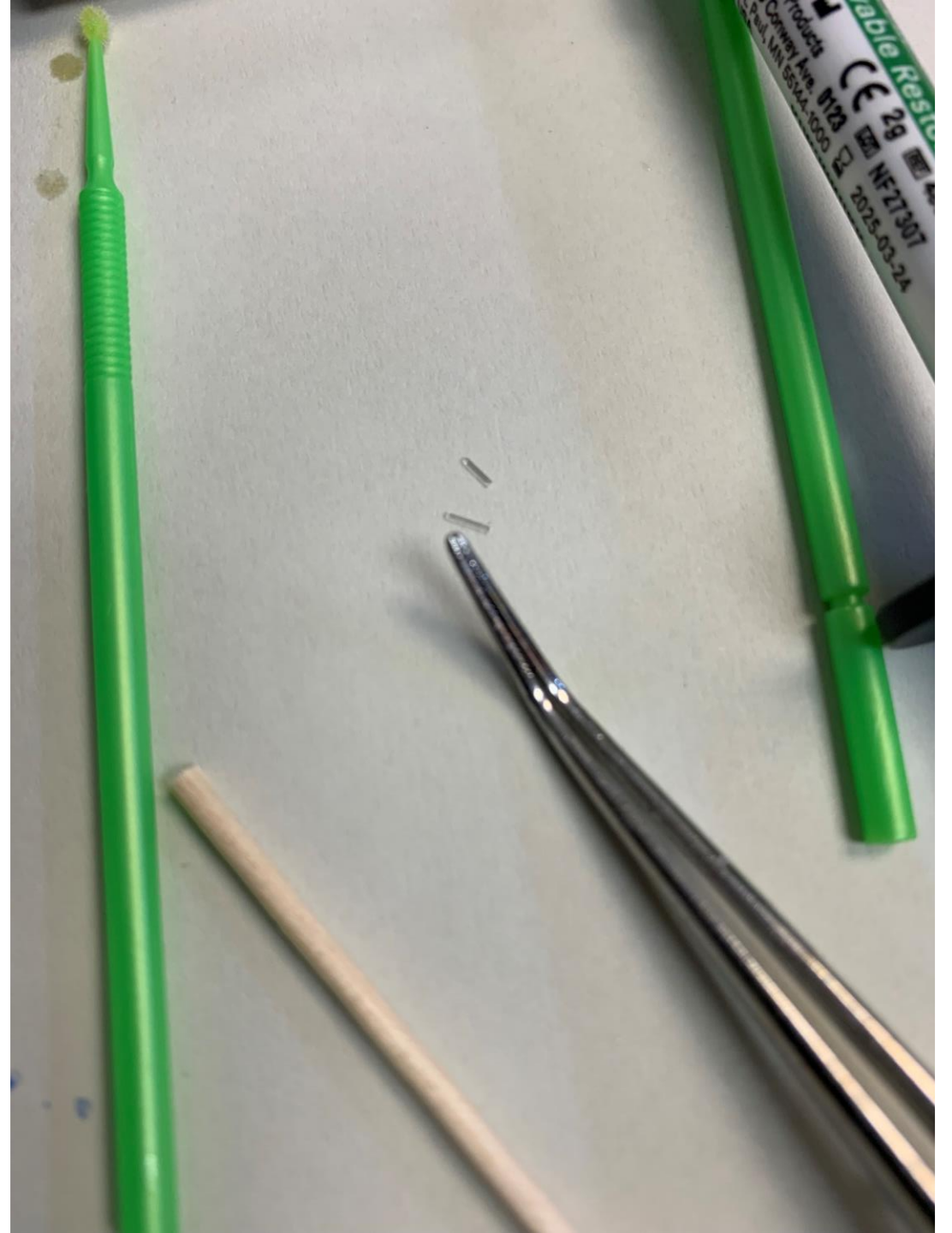
COMMON CASE 6



CASE 6



CASE 6



CASE 6



CASE 6

