



# Robotic Assisted Implant Surgery – Clinical Benefits and Limitations

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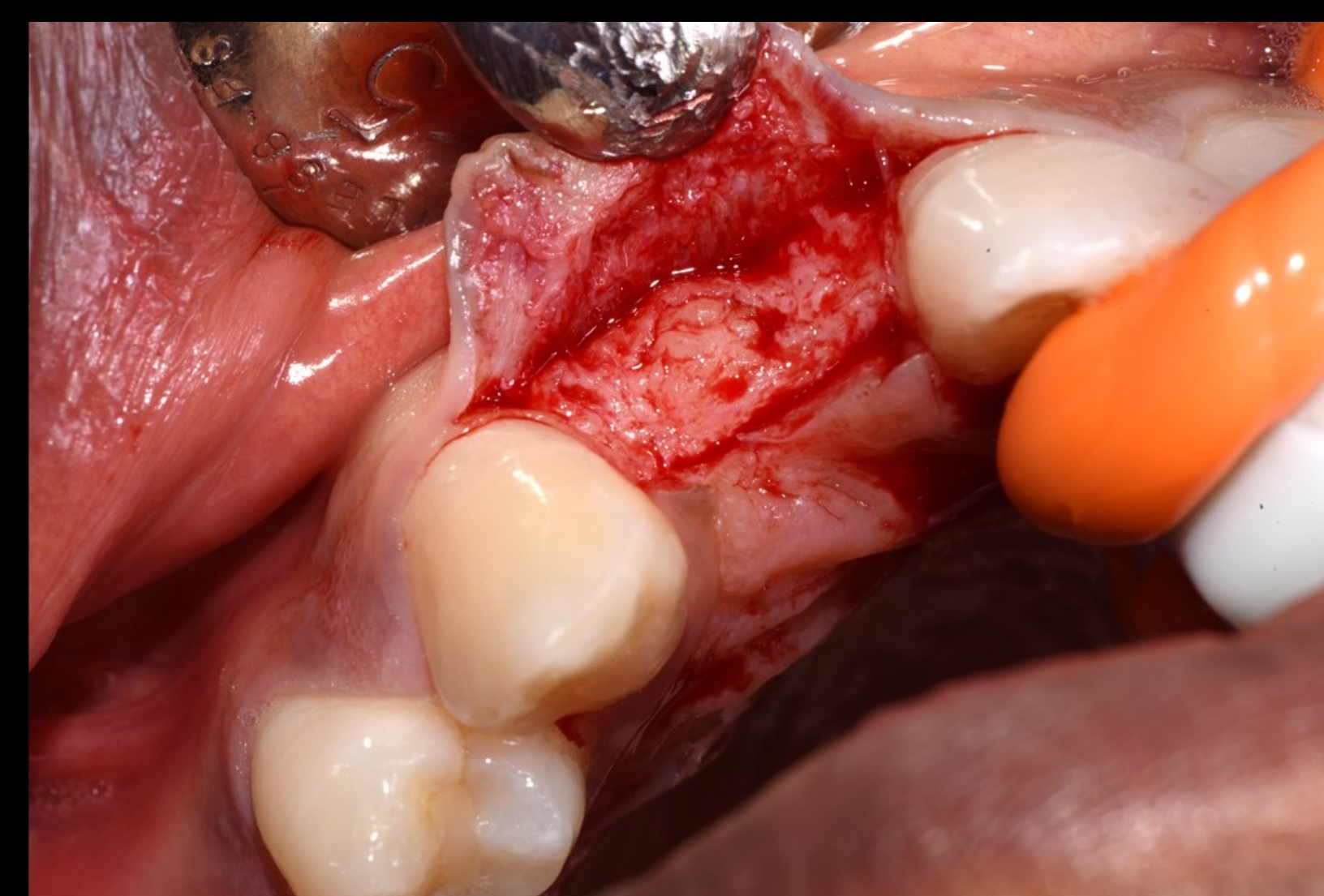
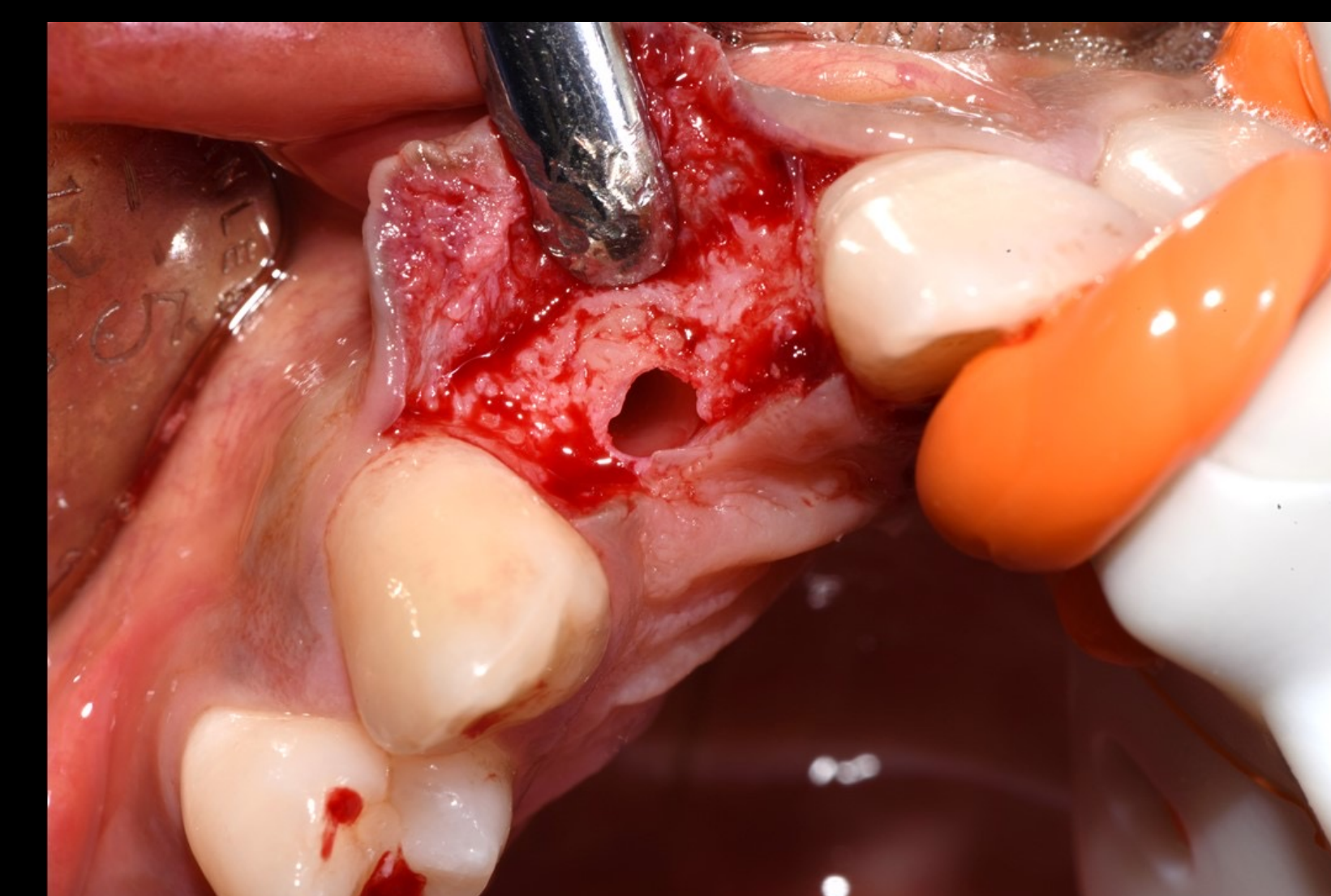
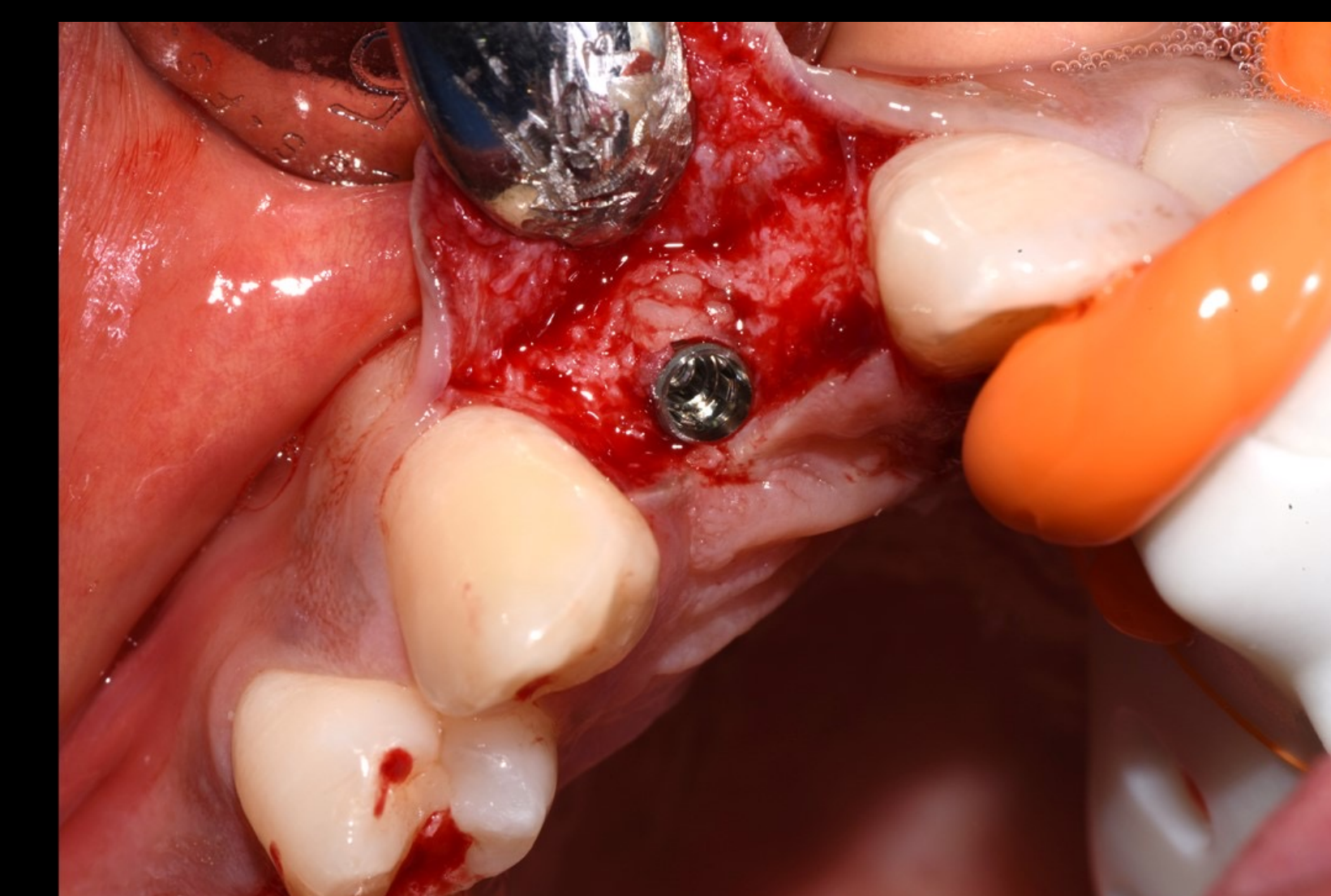
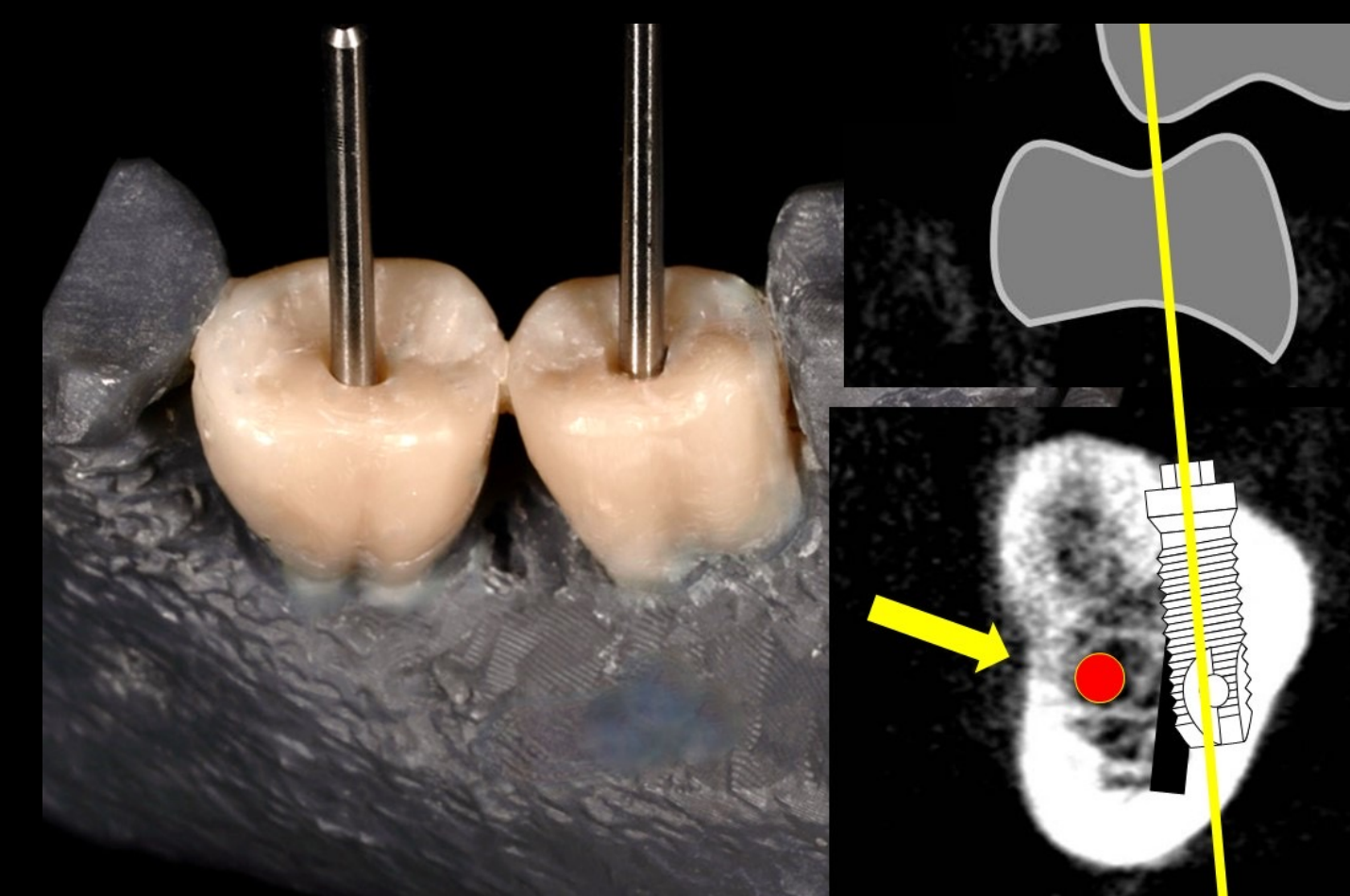
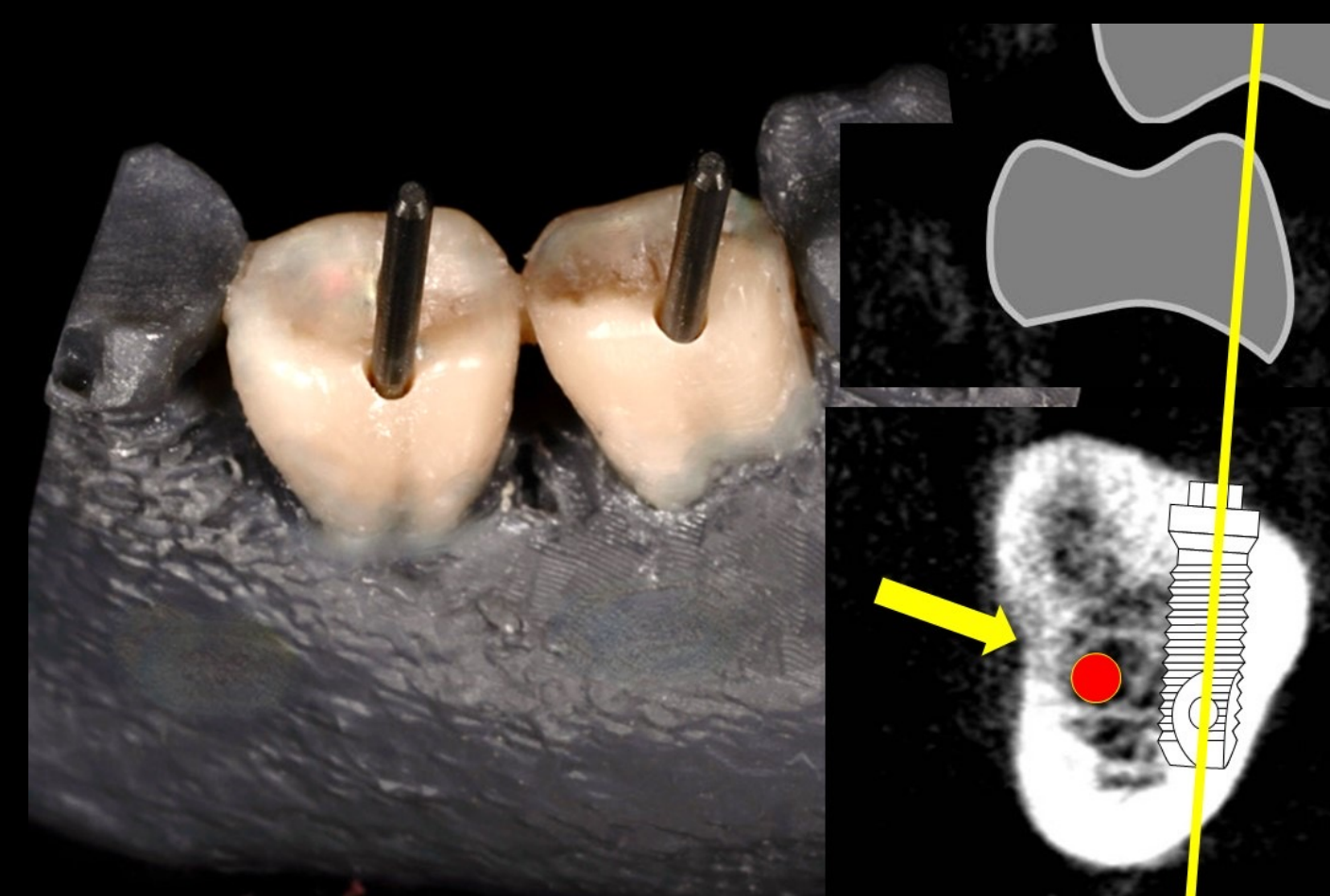
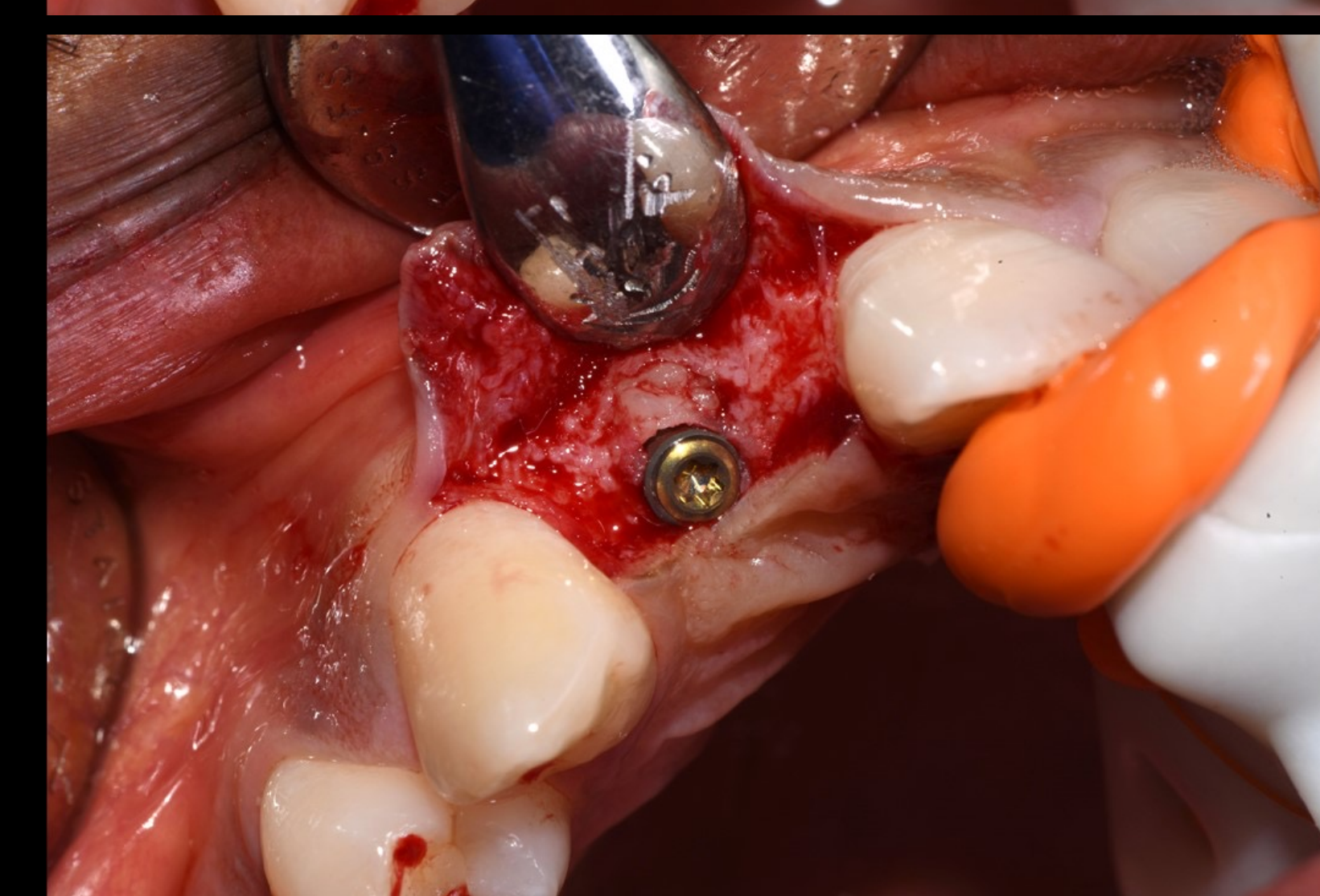
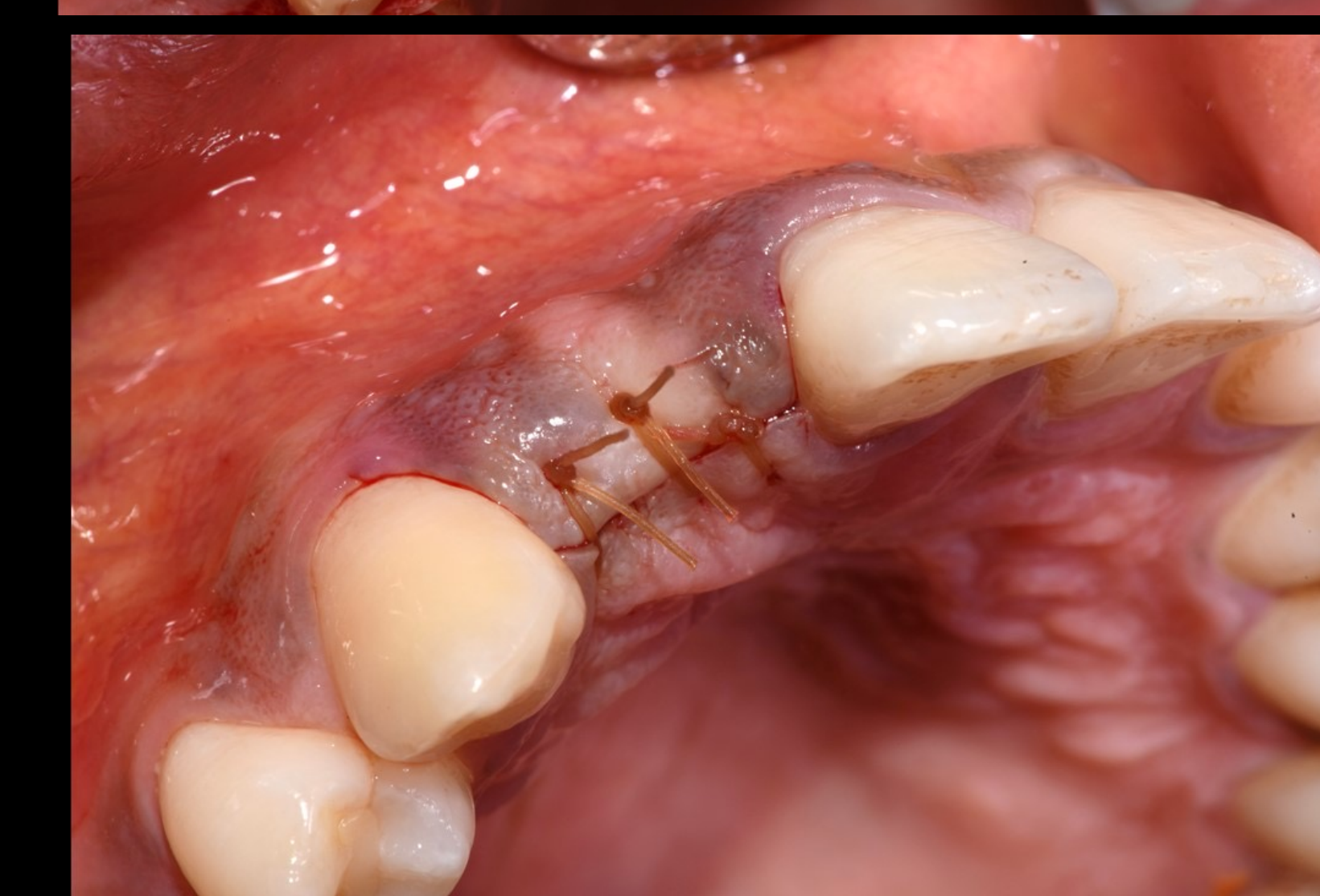
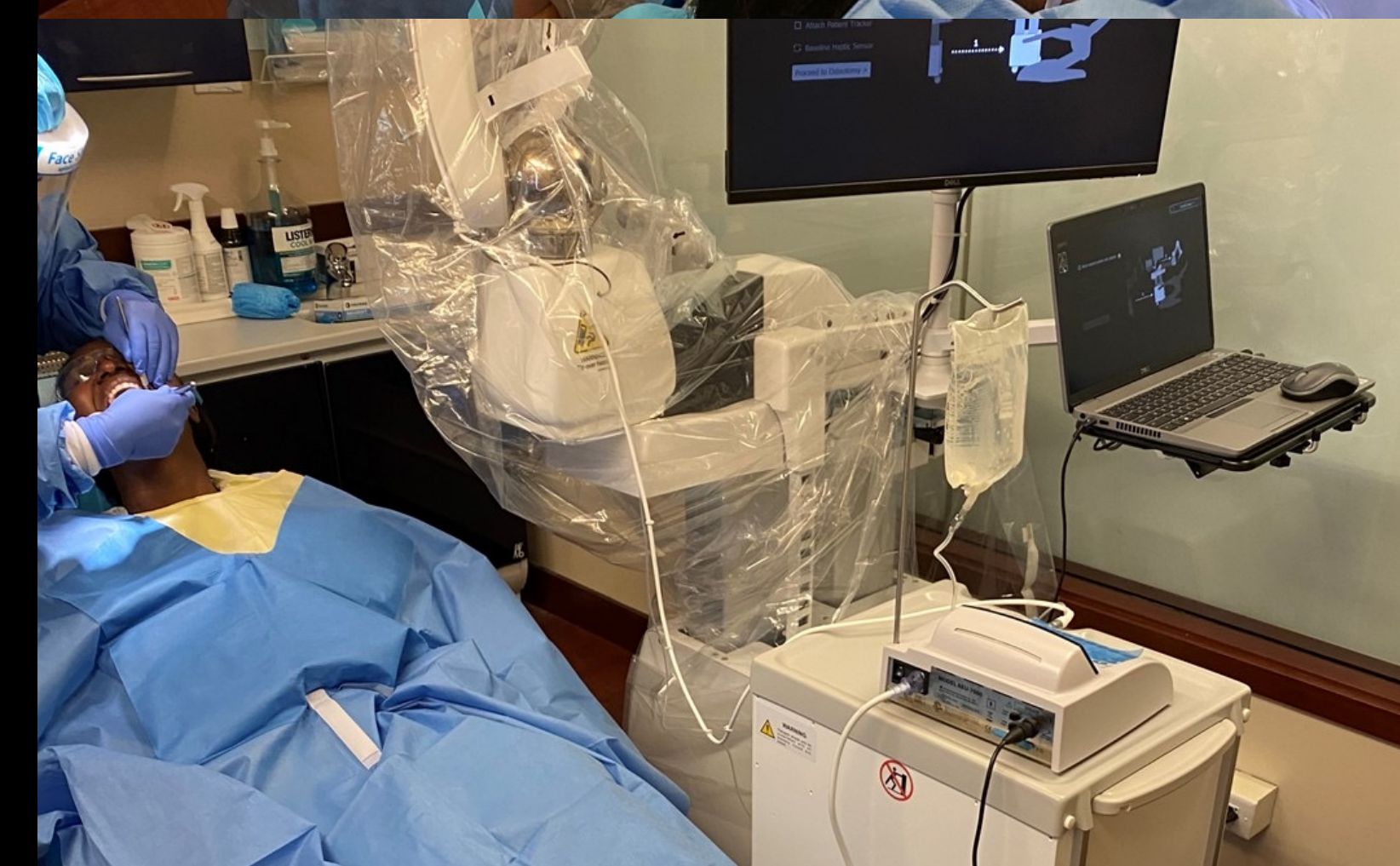
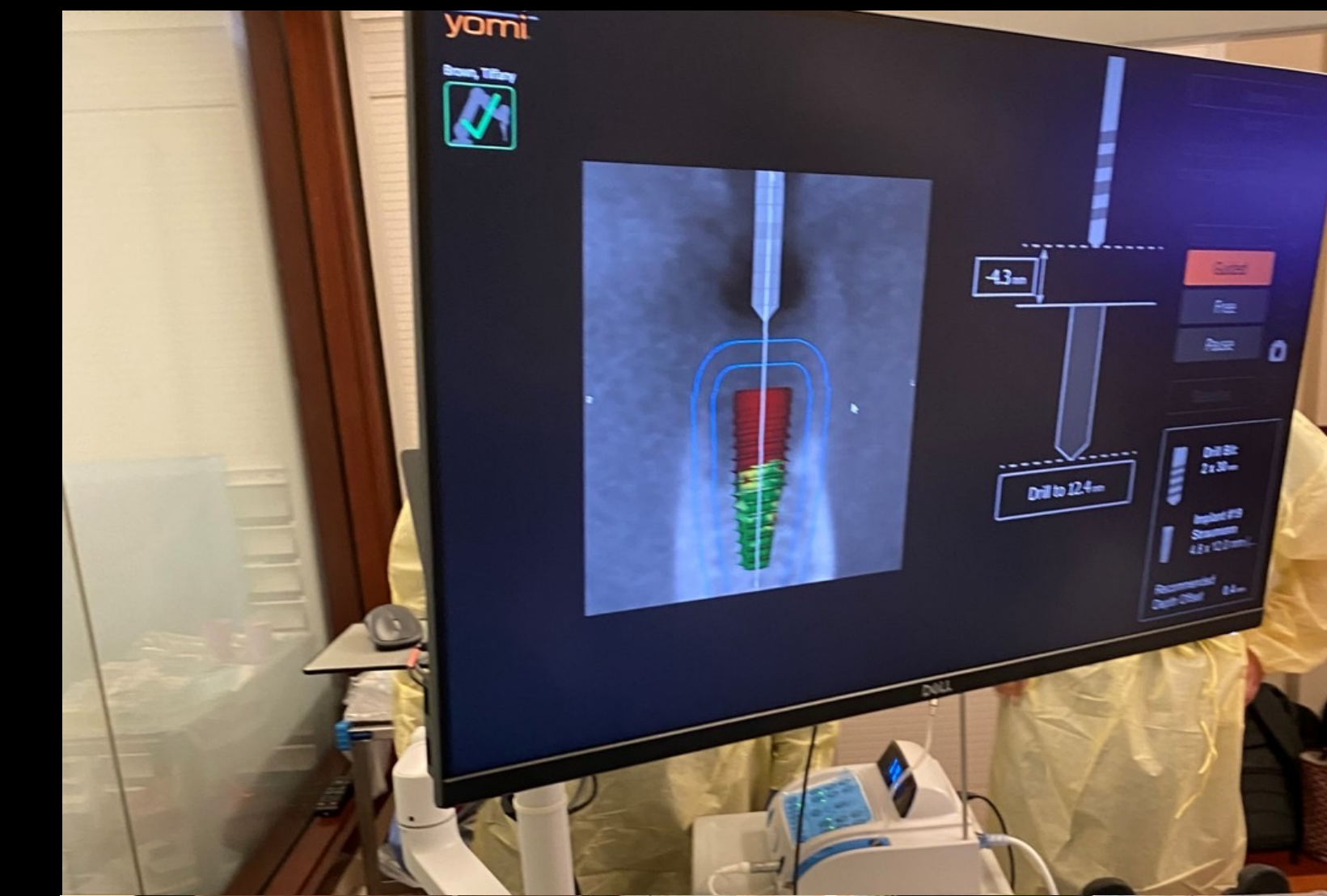
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Since the launch of the first robotic surgical system in the early 2000s, the medical community has performed more than 1 million robotic assisted surgeries a year. In dentistry, however, the trend towards robotic implant surgery is comparatively in its nascent stage. Despite an initial low penetration rate in the market, it is gaining popularity due to its improved accuracy and precision. The original FDA approval of robotic surgery was for placement of implants in partially and fully edentulous

patients. Considering its precision and accuracy, there are a few additional applications that have evolved which include Immediate Implant Placement Immediate Provisionalization (IPIP), Customized Alveolar Ridge Splitting (CARS), Implant placement Lateral to the Inferior Alveolar Nerve (ILIAN) and sinus floor elevation. The purpose of this presentation is to demonstrate clinical cases with various indications, advantages, and drawbacks of robotic assisted implant surgery.



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