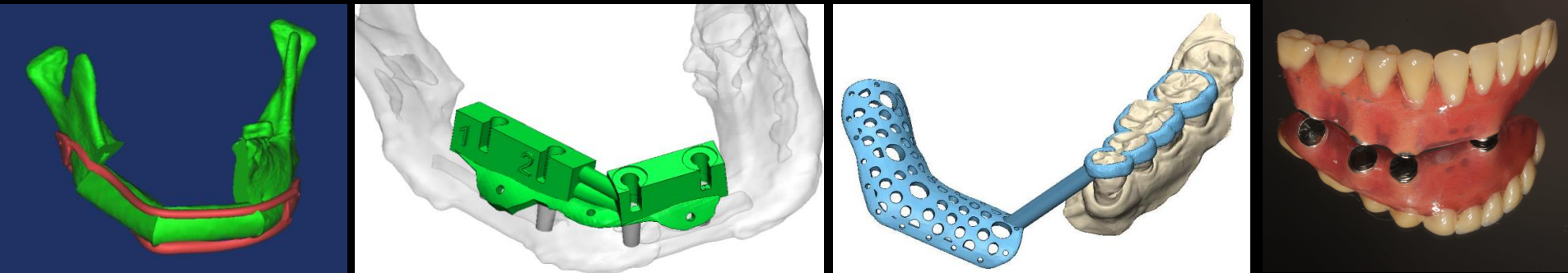


# 下颌骨肿瘤切除后的数字化颌骨重建 及咬合重建

重庆医科大学附属口腔医院

刘云飞 李显 王超



# 初诊

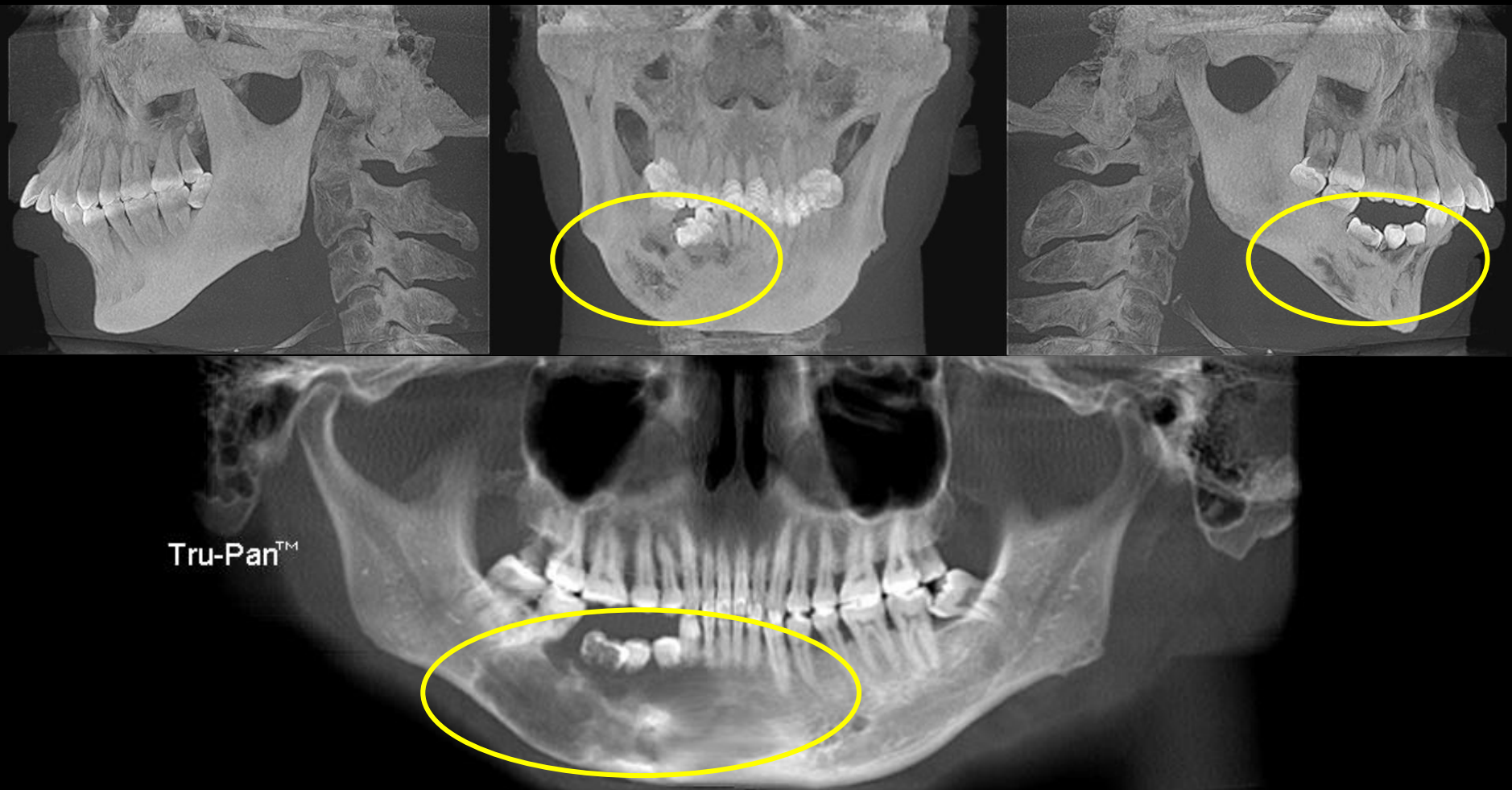


**基本信息：**胡X，男，42岁，因“右下后牙松动半年”到我院就诊；

**颌面检查：**基本对称，双侧耳屏前无压痛及弹响，开口度、开口型基本正常；

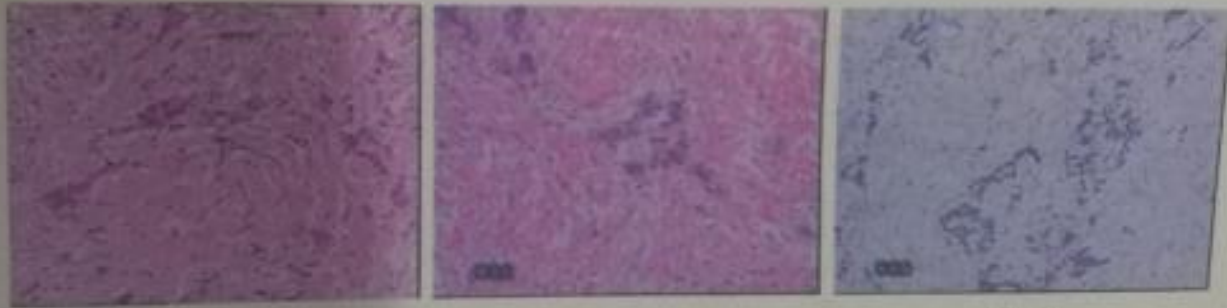
**口内检查：**恒牙列，口腔卫生一般，44、45、46向下塌陷，松III，右下后牙区颊舌侧可扪及明显骨质膨隆，下唇无麻木

# 入院CBCT



# 术前病理诊断

大体及镜下图片：



P63(+)

病理诊断

（下  
免疫  
+），  
（科内会

**牙源性钙化上皮瘤**

，Vim间质（

# 手术方案讨论

**1. 下颌骨节段性切除 + 成型钛板植入**

**2. 下颌骨节段性切除 + 数字化游离/血管化髂骨移植  
(髂骨形态不匹配) + 患侧颞下颌关节定位**

**3. 下颌骨节段性切除 + 数字化腓骨肌皮瓣移植 (结合  
3D打印导板) + 患侧颞下颌关节固位**

Hidalgo DA. Fibula free flap: a new method of mandible reconstruction. *Plast Reconstr Surg* 1989;84:71–9.

# 双侧下肢动脉CTA检查

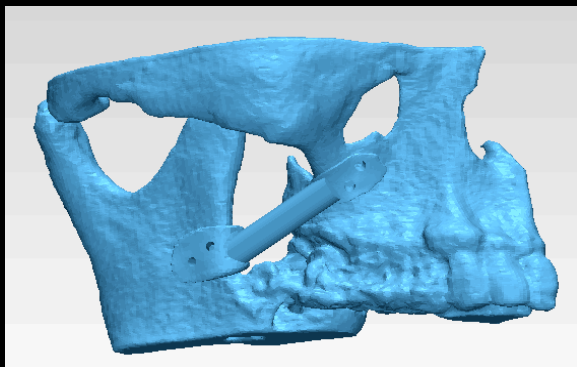


腓动脉无异常

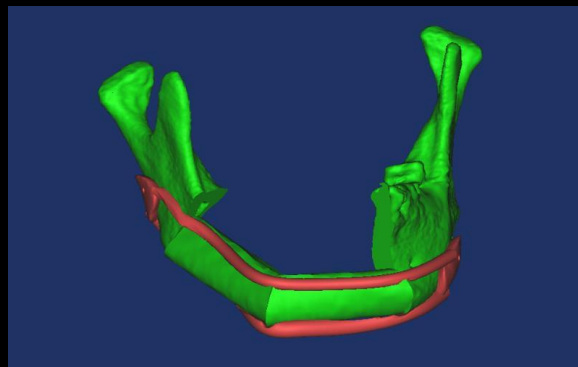


# 术前数字化设计

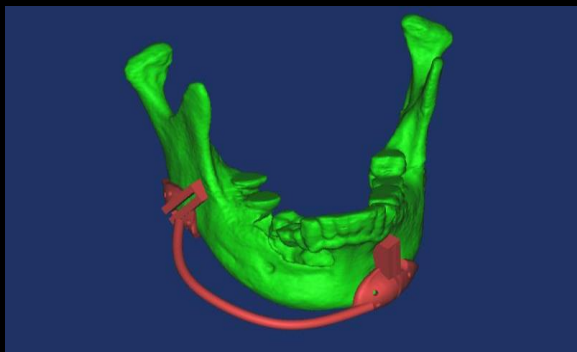
关节  
定位  
设计



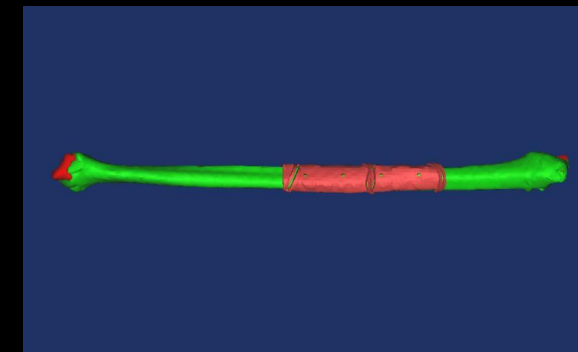
腓骨  
就位  
设计



颌骨  
截骨  
设计



腓骨  
截骨  
设计



# 术前3D打印手术导板



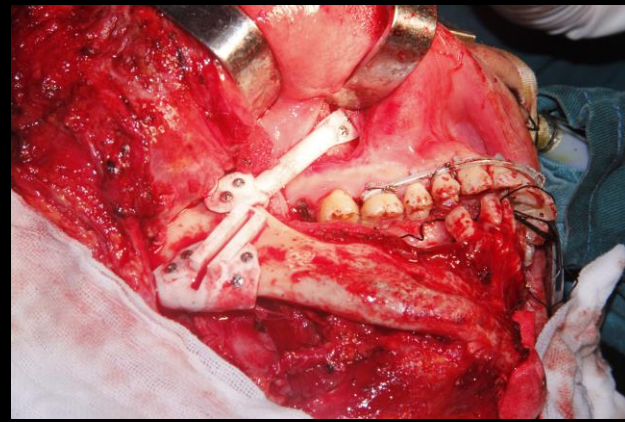
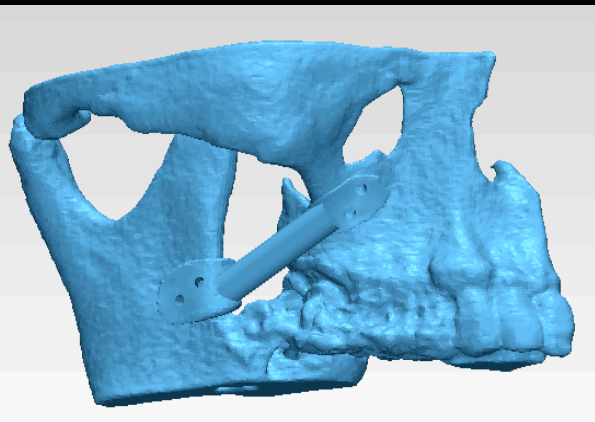


# 手术过程

设计

打印

术中



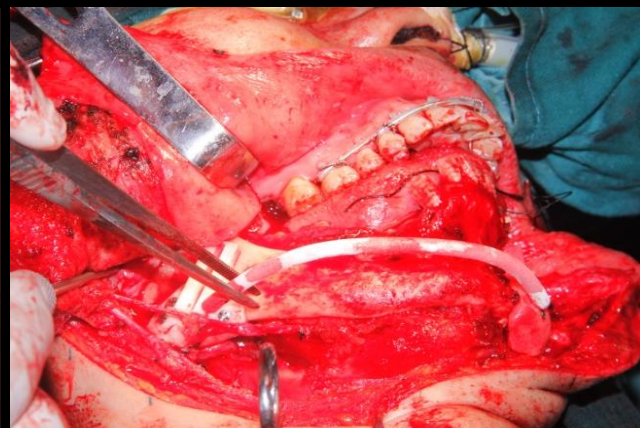
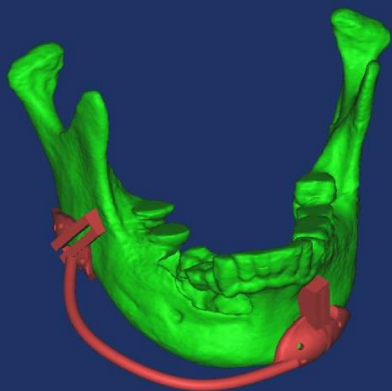
关节定位

# 手术过程

设计

打印

术中



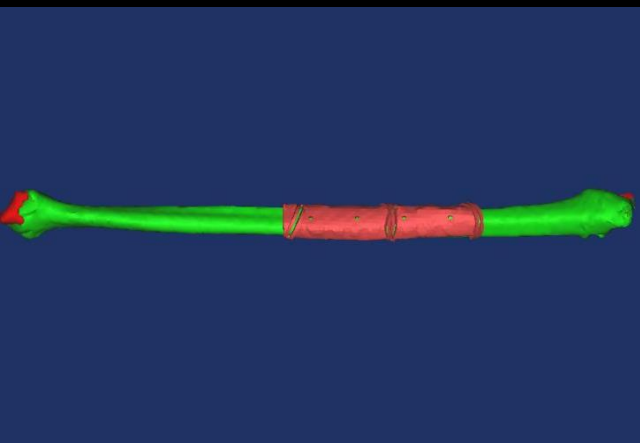
颌骨截骨

# 手术过程

设计

打印

术中



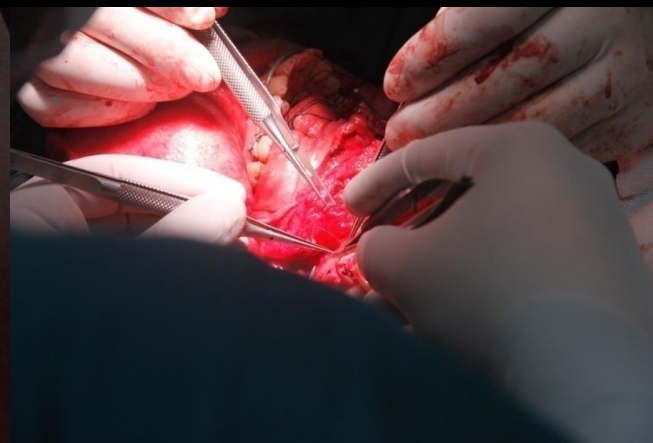
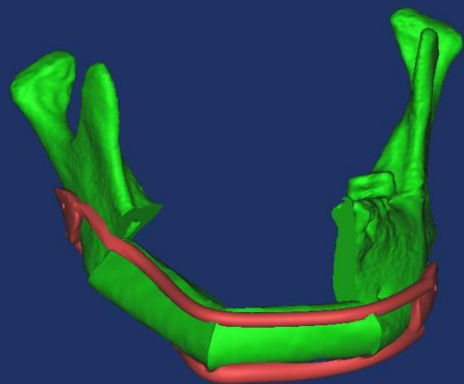
腓骨截骨

# 手术过程

设计

打印

术中



腓骨固定

# 术前术后关节位置对比

术前



术后





# 术后2周

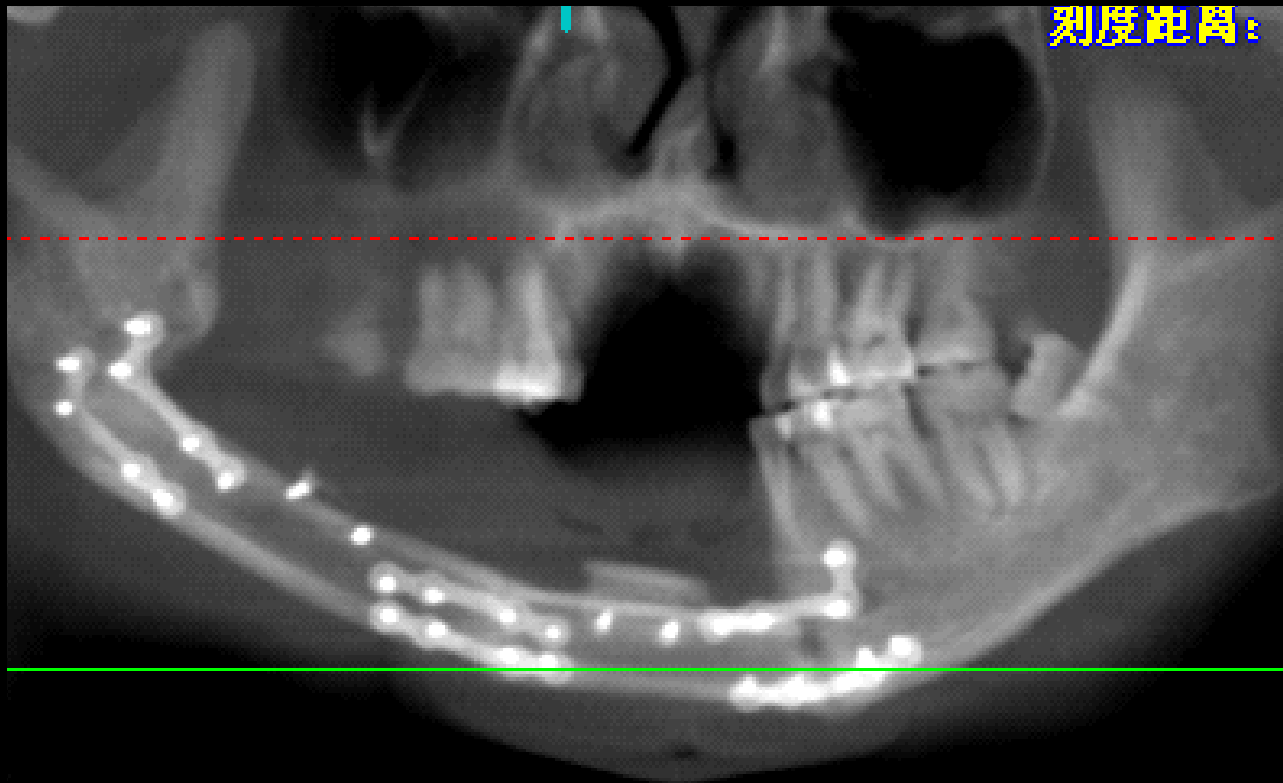




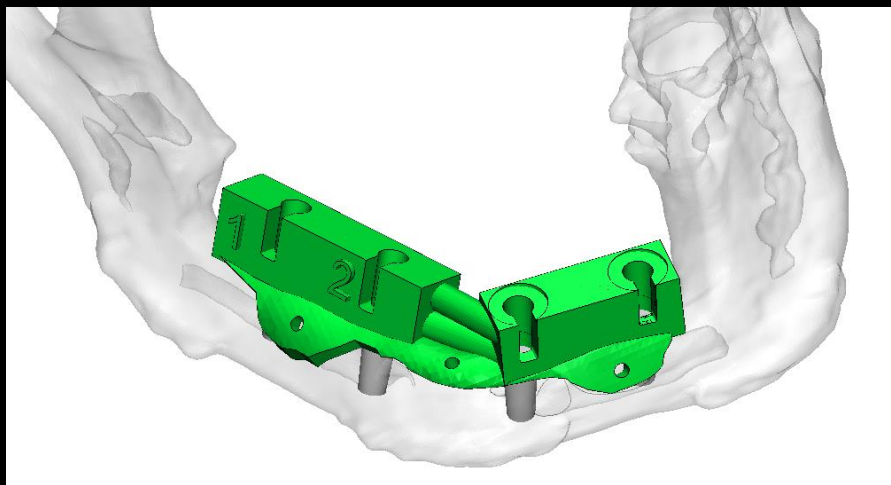
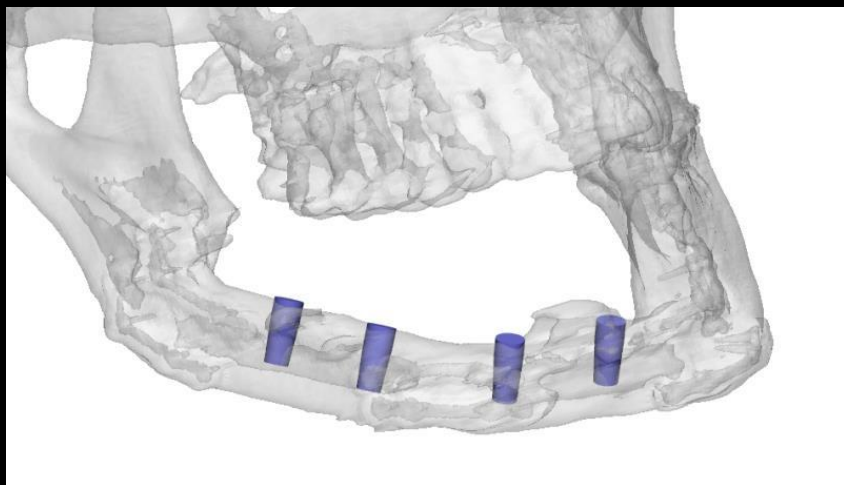
# 术后半年



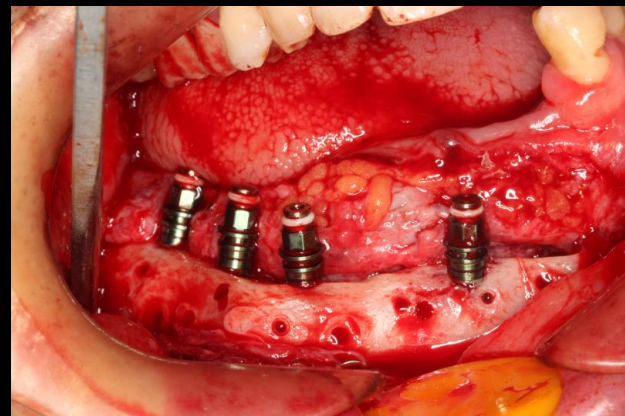
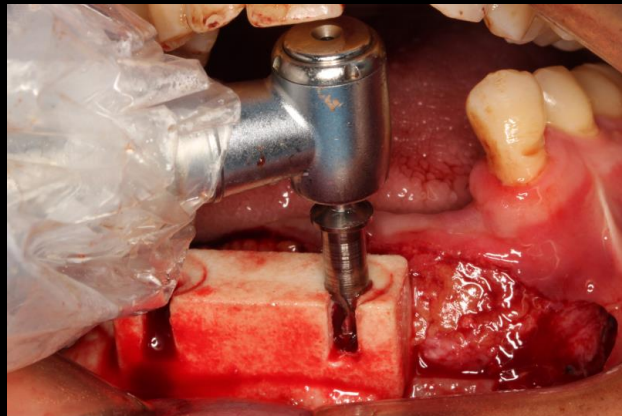
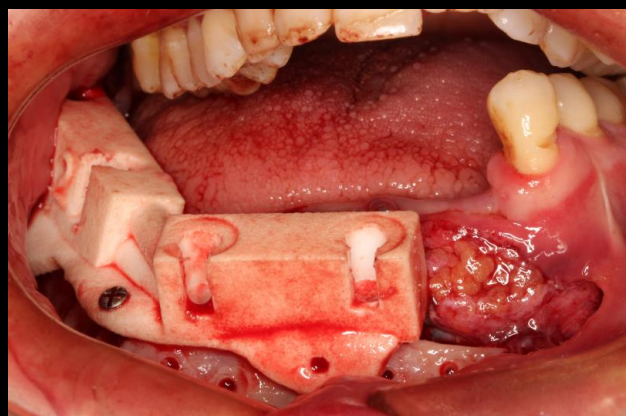
# 术后半年



# 种植前数字化设计

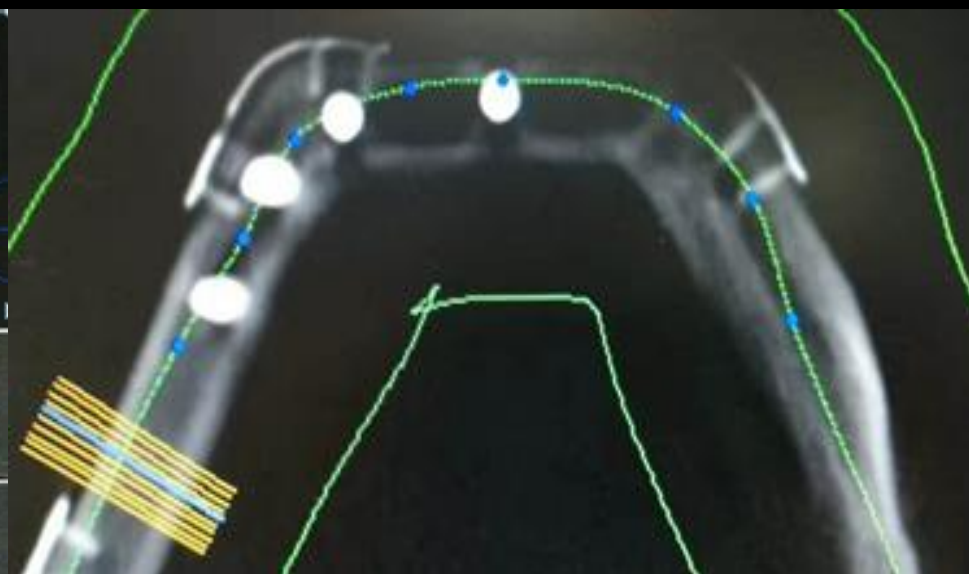
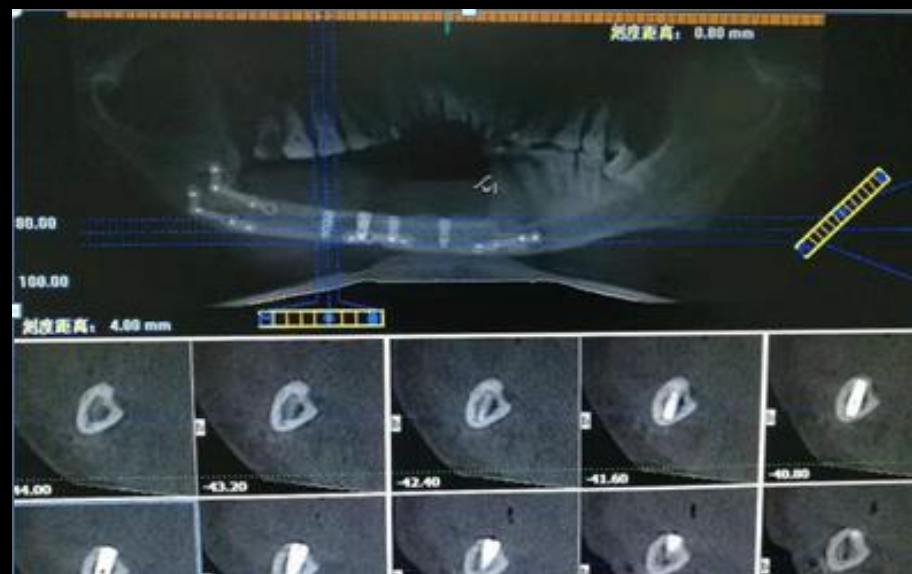


# 种植术中



种植体：奥齿泰 4.5\*10

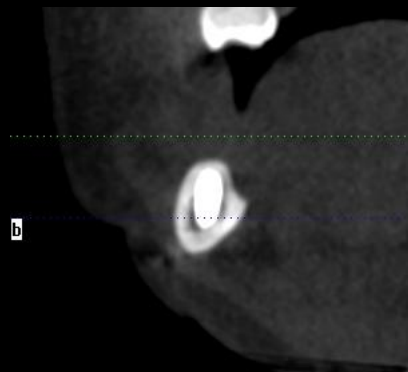
# 种植术后CT



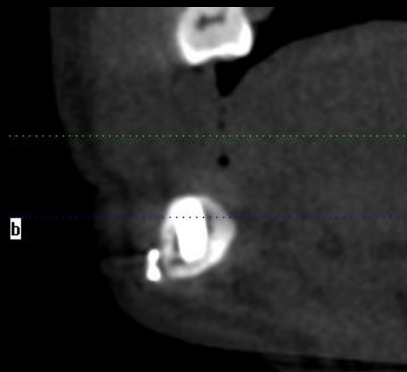


# 种植术后复查

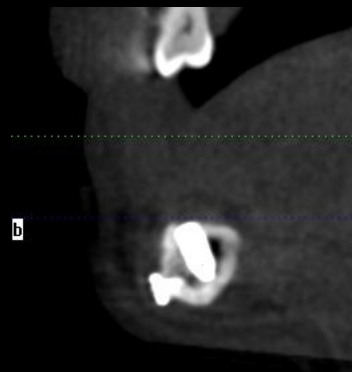
术后四个月



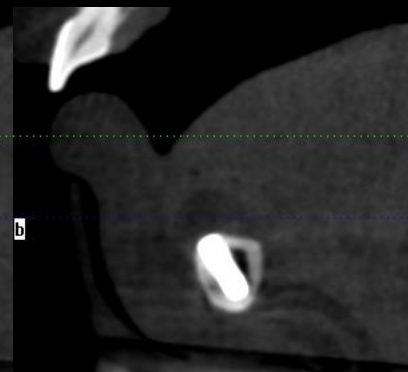
46



44

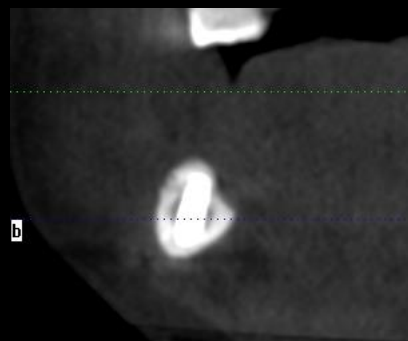


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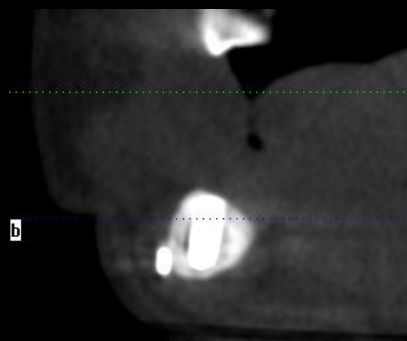


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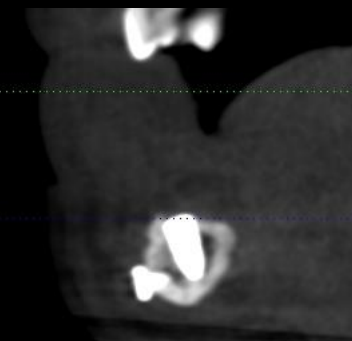
术后即刻



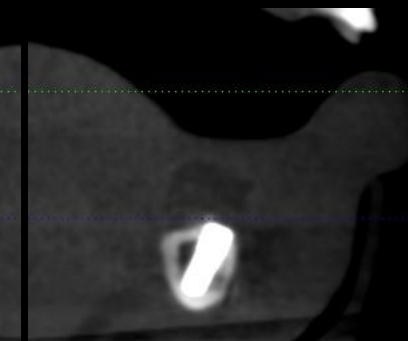
46



44

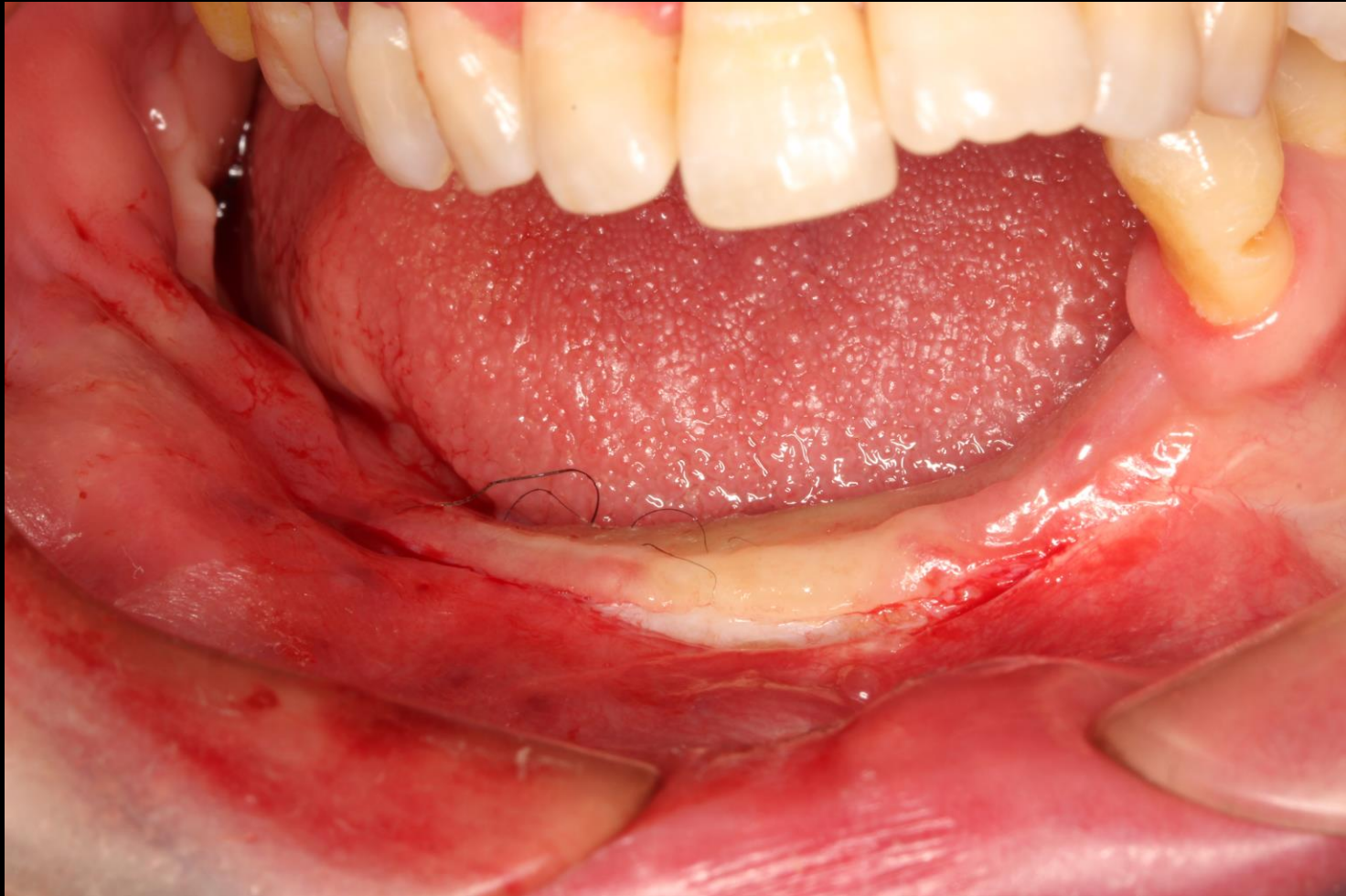


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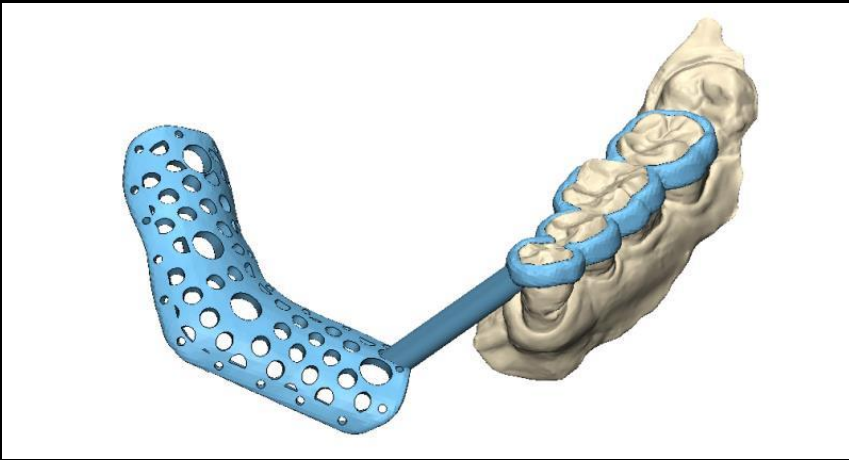


32

# 种植四个月後口內照



# 角化龈移植术前设计 (受区保护板)

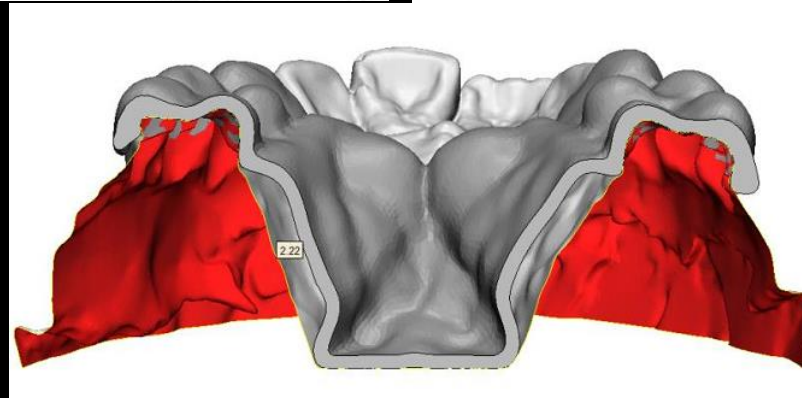
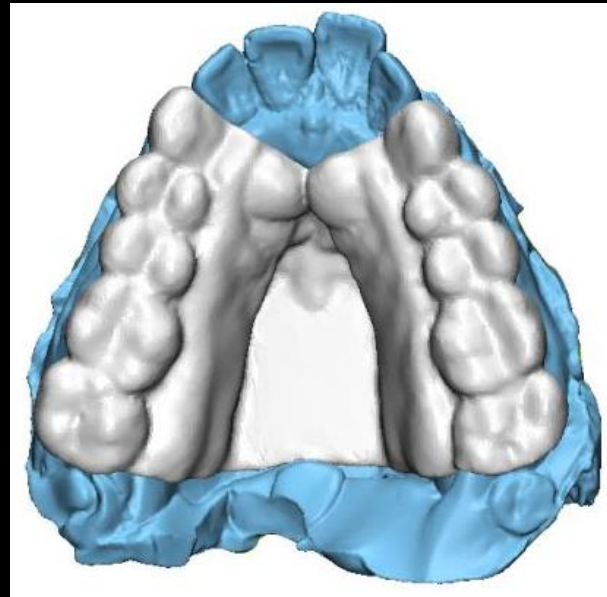
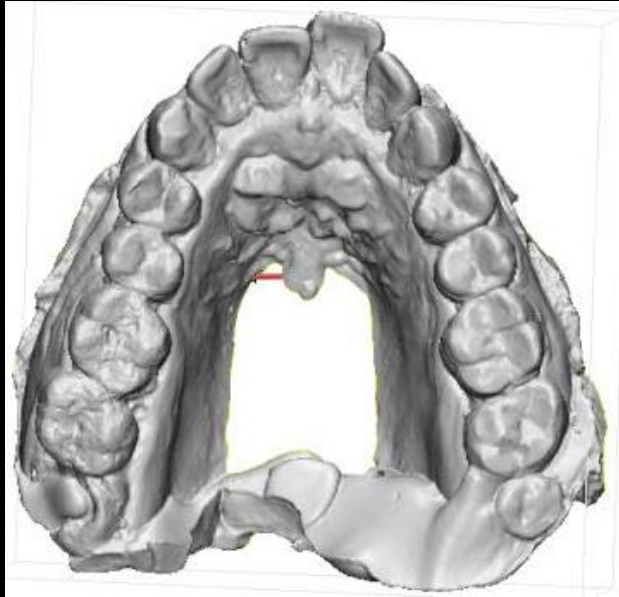


**邻牙支持式**



**粘膜支持式**

# 角化龈移植术前设计 (供区保护板)

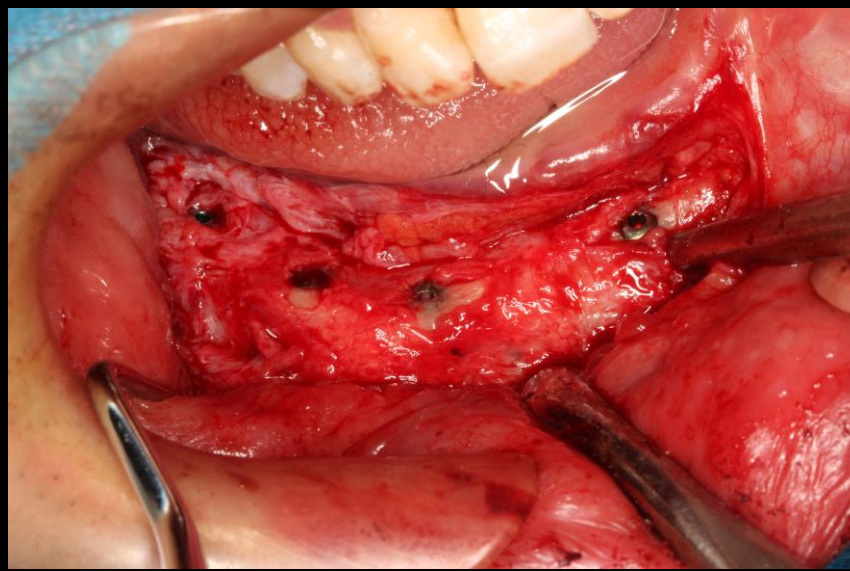
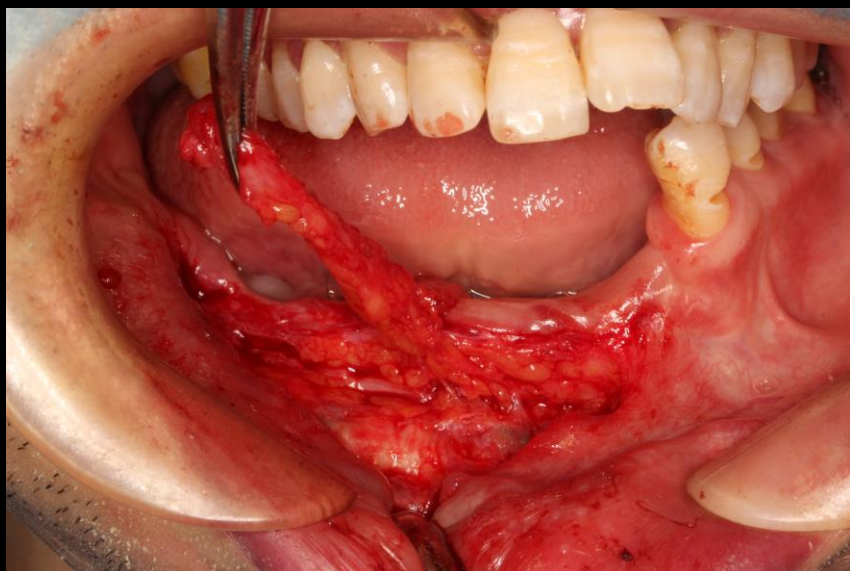
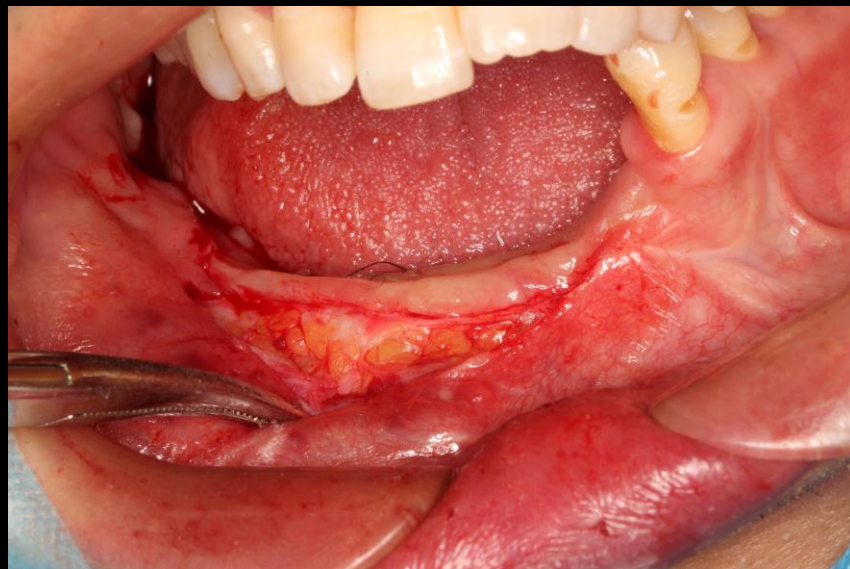


# 3D打印各类保护板

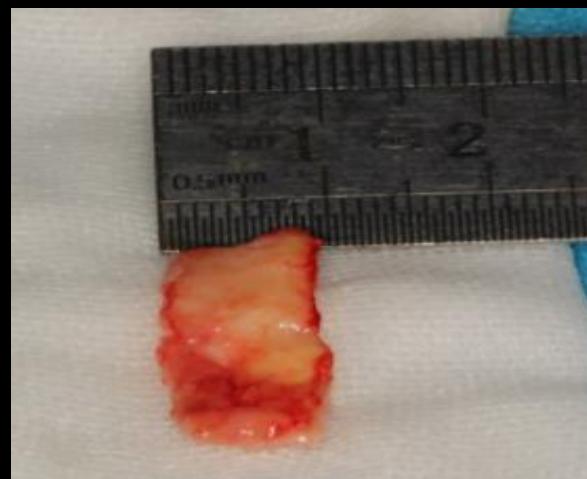
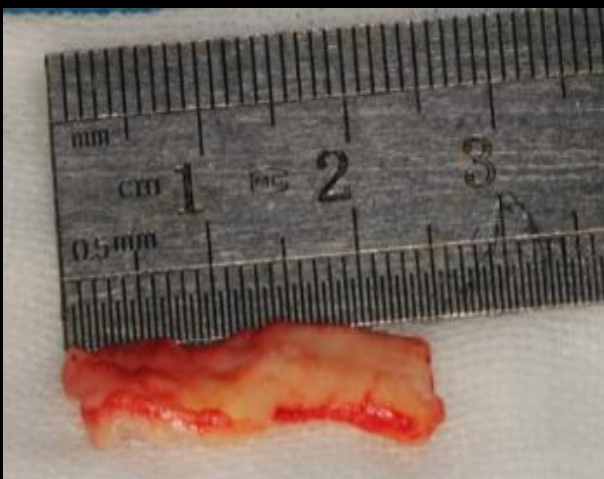
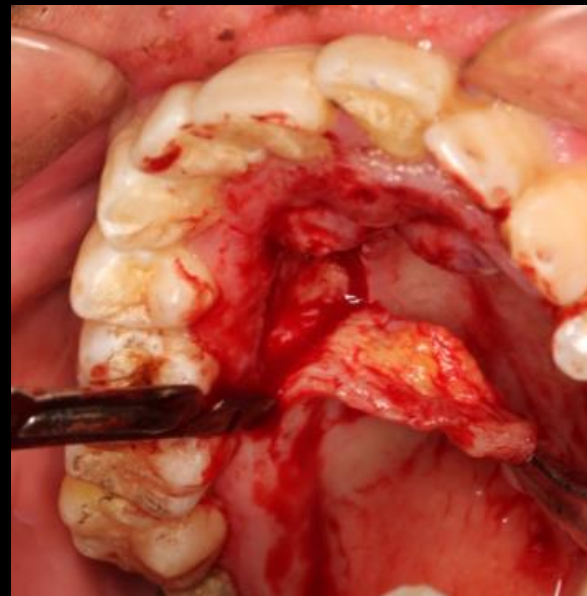




# 受植床的准备

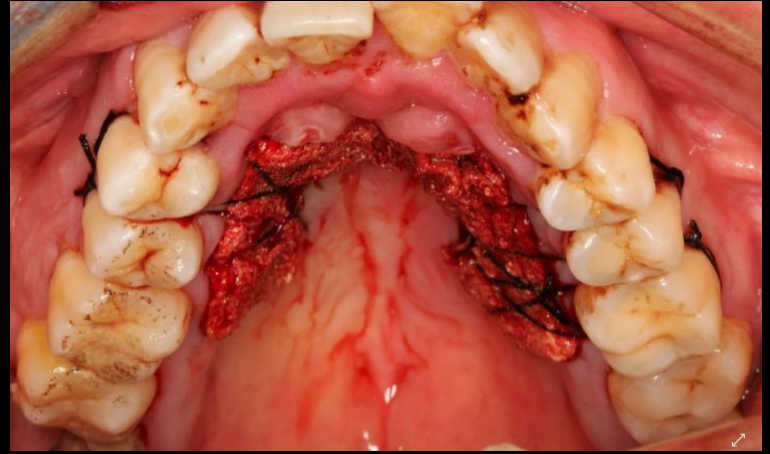
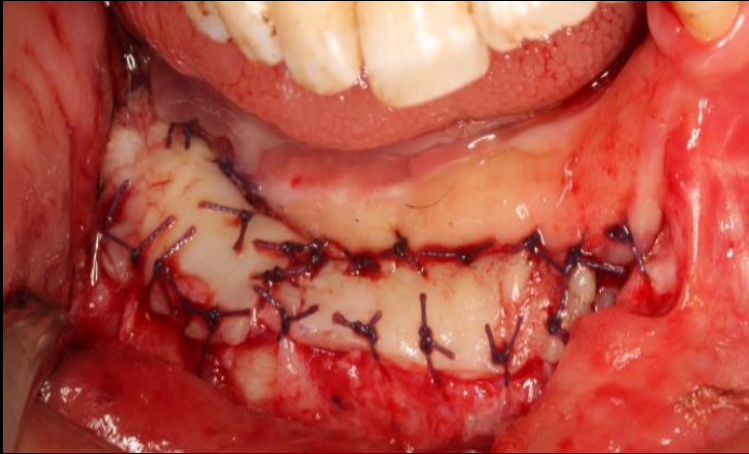


# 取双侧腭部带上皮结缔组织

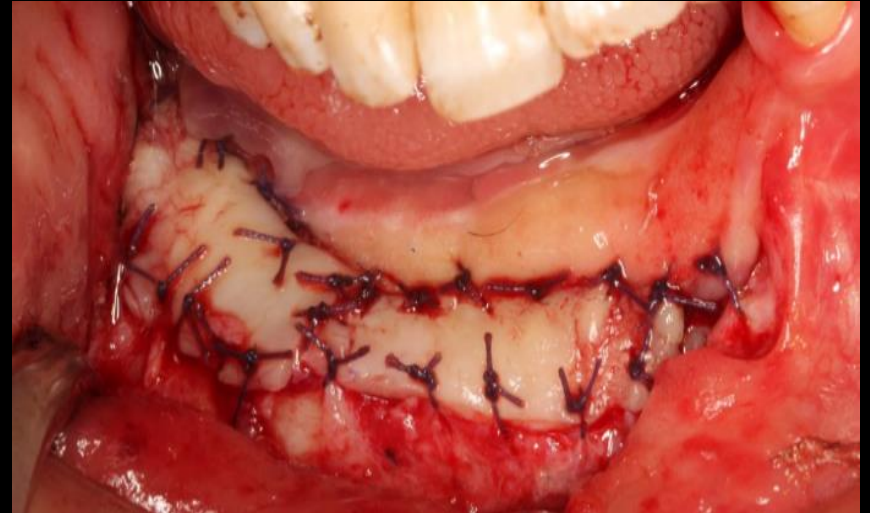
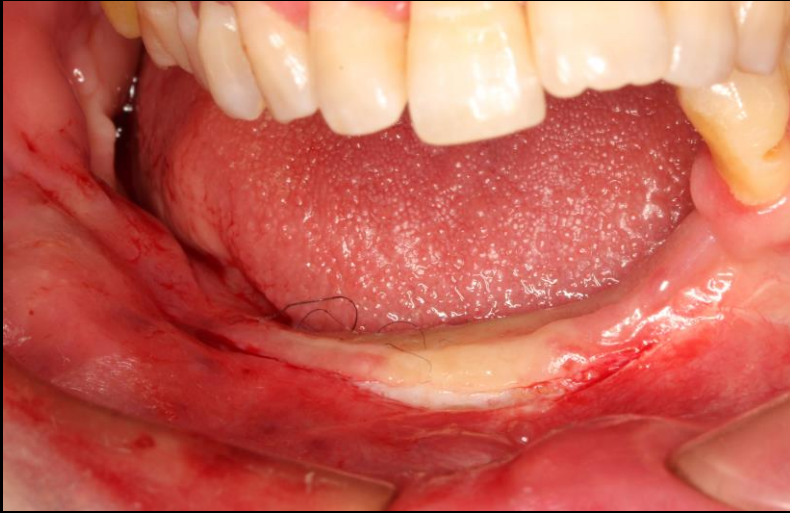




# 缝合包扎



# 软组织移植的效果





# 二期牙龈成型

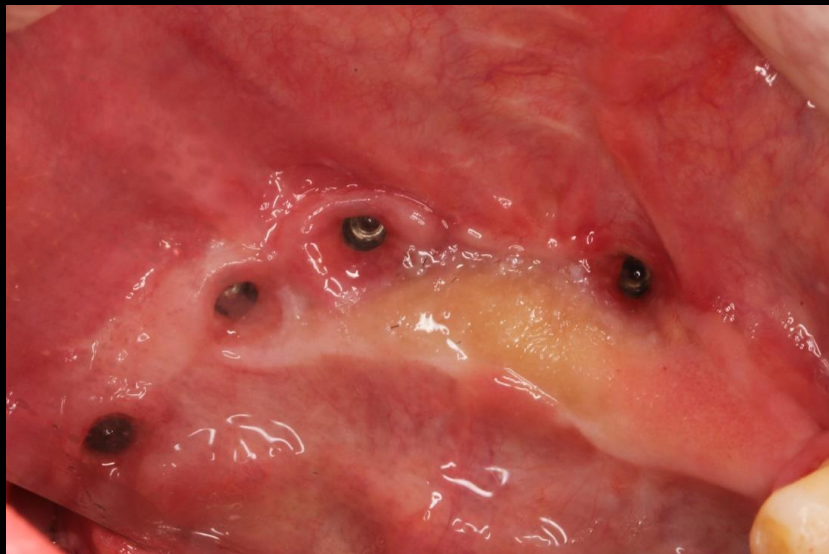




# 制作义齿



# 戴牙



# 总结

特色：颌骨重建及咬合重建全程使用数字化设计和操作

腓骨移植

颞下颌关节定位

种植手术

软组织移植

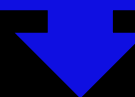
改进：如果能够做双层腓骨移植，修复效果将更佳

思考：移植的软组织都去哪儿了？





**种植修复团队**



**外科手术团队**

**良好的颌骨重建及咬合重建离不开团队的团结协作！**



# 謝謝您的聆聽

祝你有个美好的一天

