

SAFETY SURGICAL HAMMER IN CLOSED SINUS ELEVATION

Inventor

DR.JUI-YUAN SHIH

Dentop dental clinic

- ▶ 1980 Bonye and James—lateral window, blade type implant.
- ▶ 1986 Tatum—crestal approach sinus floor elevation, using curette ,bur remove bone to sinus floor.
- ▶ 1994 Summers—osteotome technique.
- ▶ 1997 Engelke and Deckwer—sinus endoscope aided closed sinus elevation.
- ▶ 2001 Davarpanah—twist drill make osteotomy combined Summers osteotome technique.
- ▶ 2002 Fugazzoto—trephine bur ,combined osteotome .
- ▶ Hydraulic pressure technique, piezoultrasonic tip technique, ballon sinus membrane elevation technique, electric hammer technique, S reamer technique.

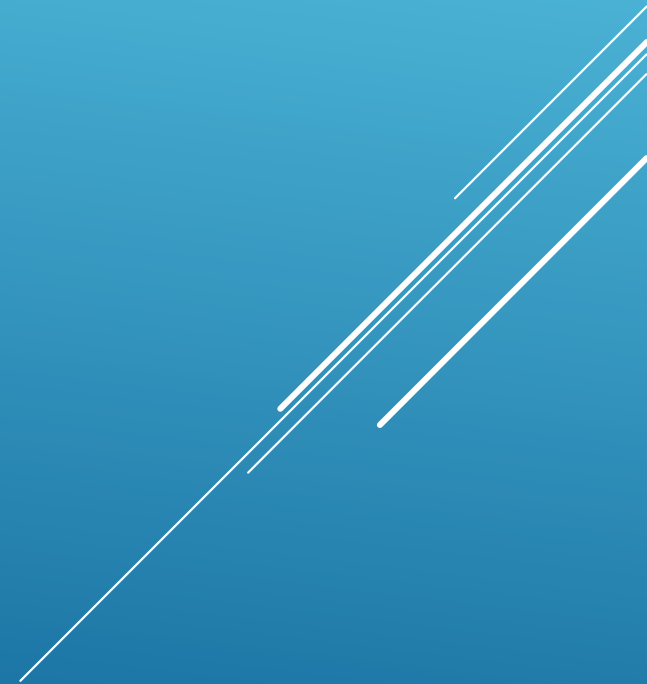
HISTORY OF CLOSED SINUS ELEVATION

- ▶ Take X ray or CT scan to evaluate the thickness of sinus floor.
- ▶ Drilling with 2.0 mm twist drill to the depth short of estimated length about 1 mm.
- ▶ Sequentially drilling with wider diameter drills .
- ▶ Insert osteotome to the osteotomy site, using the surgical mallet to drive the osteotome. Until it lift the sinus floor.
- ▶ Insert the bone graft material.
- ▶ Implantation with the desired dental implant.

BASIC TECHNIQUE OF CLOSED SINUS ELEVATION

- ▶ Bleeding—caused by sinus membrane perforation.
- ▶ Sinus membrane perforation—caused by over drilling or by over extrusion of osteotome.
- ▶ Positional vertigo—caused by over impaction force of surgical hammer.

COMPLICATIONS OF CLOSED SINUS ELEVATION





Characteristics of safety surgical hammer

1. plastic hammer head.—provide resilient effect, less contact noise.
2. coil spring.—provide shock absorption effect.
3. magnetic nut.—provide constant impaction force, for sinus floor puncture.

PATENT OF INVENTION

TAIWAN JAPAN KOREA RUSSIA USA CANADA AUSTRALIA CHINA

Inventor DR. JUI-YUAN SHIH



THE SAFETY SURGICAL HAMMER CAN PREVENT SINUS FLOOR PERFORATION.

Controlled impaction.

Shock absorption effect.

CASE REPORT OF SAFETY SURGICAL HAMMER IN CLOSED SINUS ELEVATION



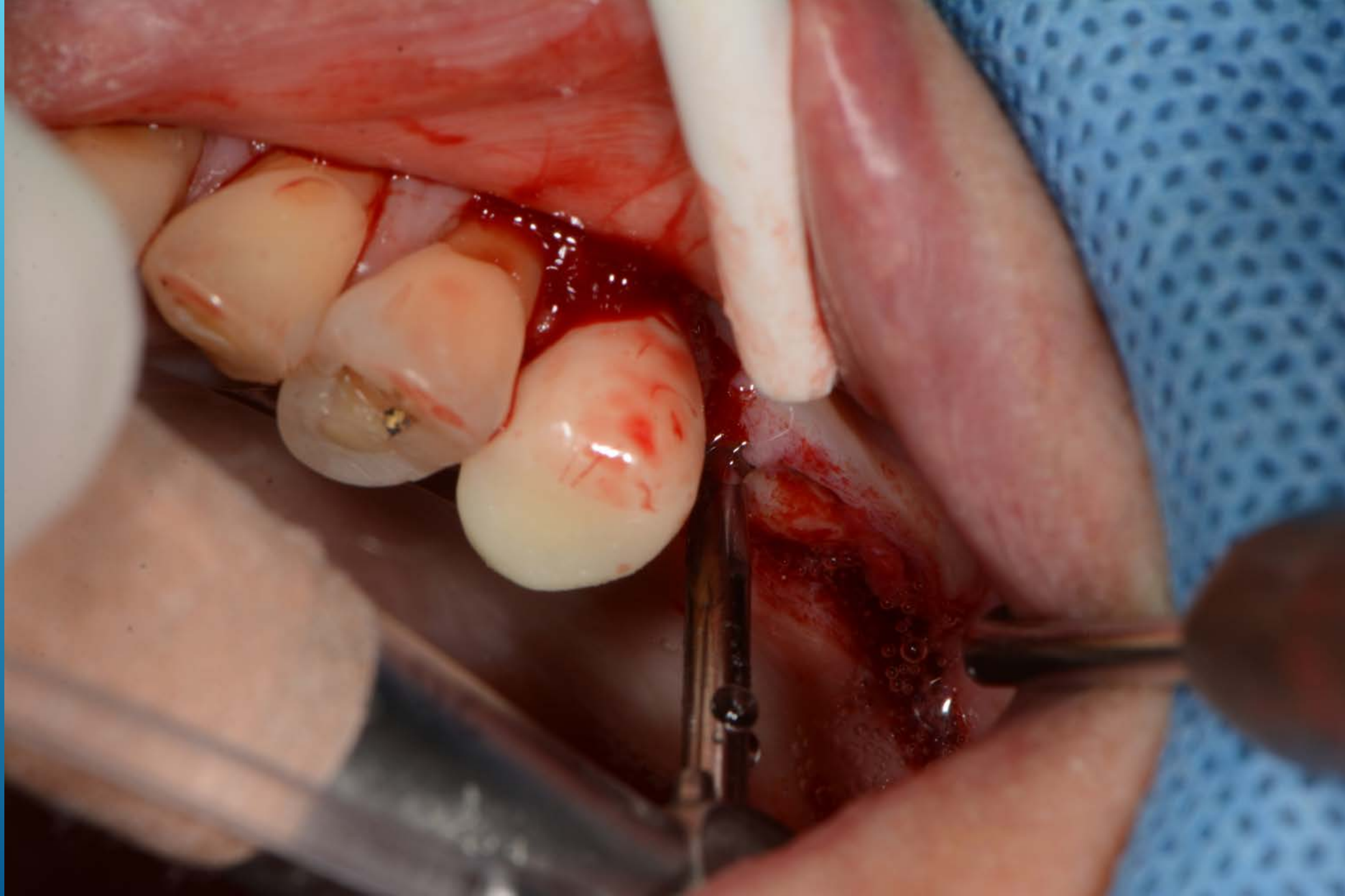
26.27.CLOSED SINUS ELEVATION WITH SAFETY SURGICAL HAMMER

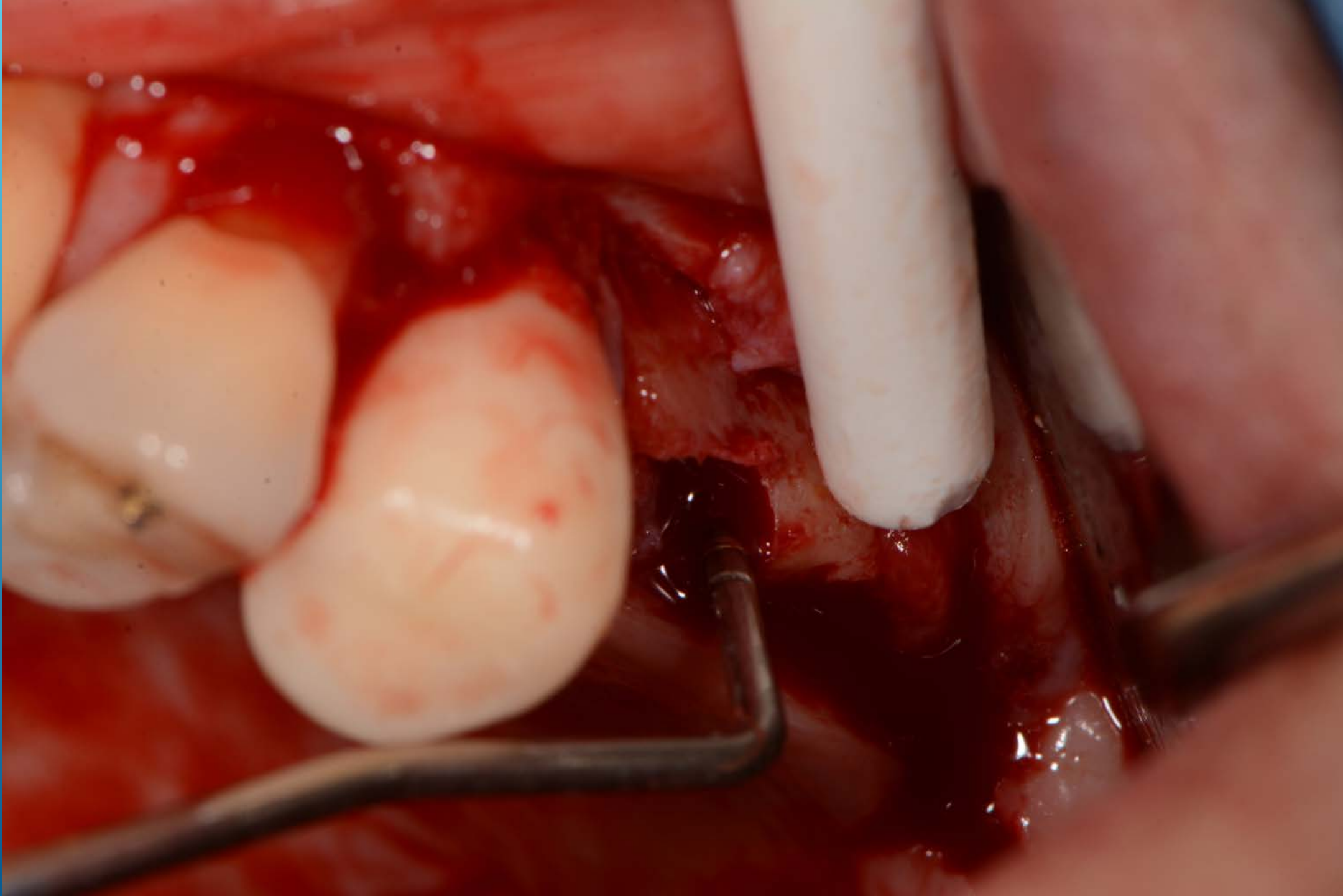
Surgical procedure

DR.JUI-YUAN SHIH

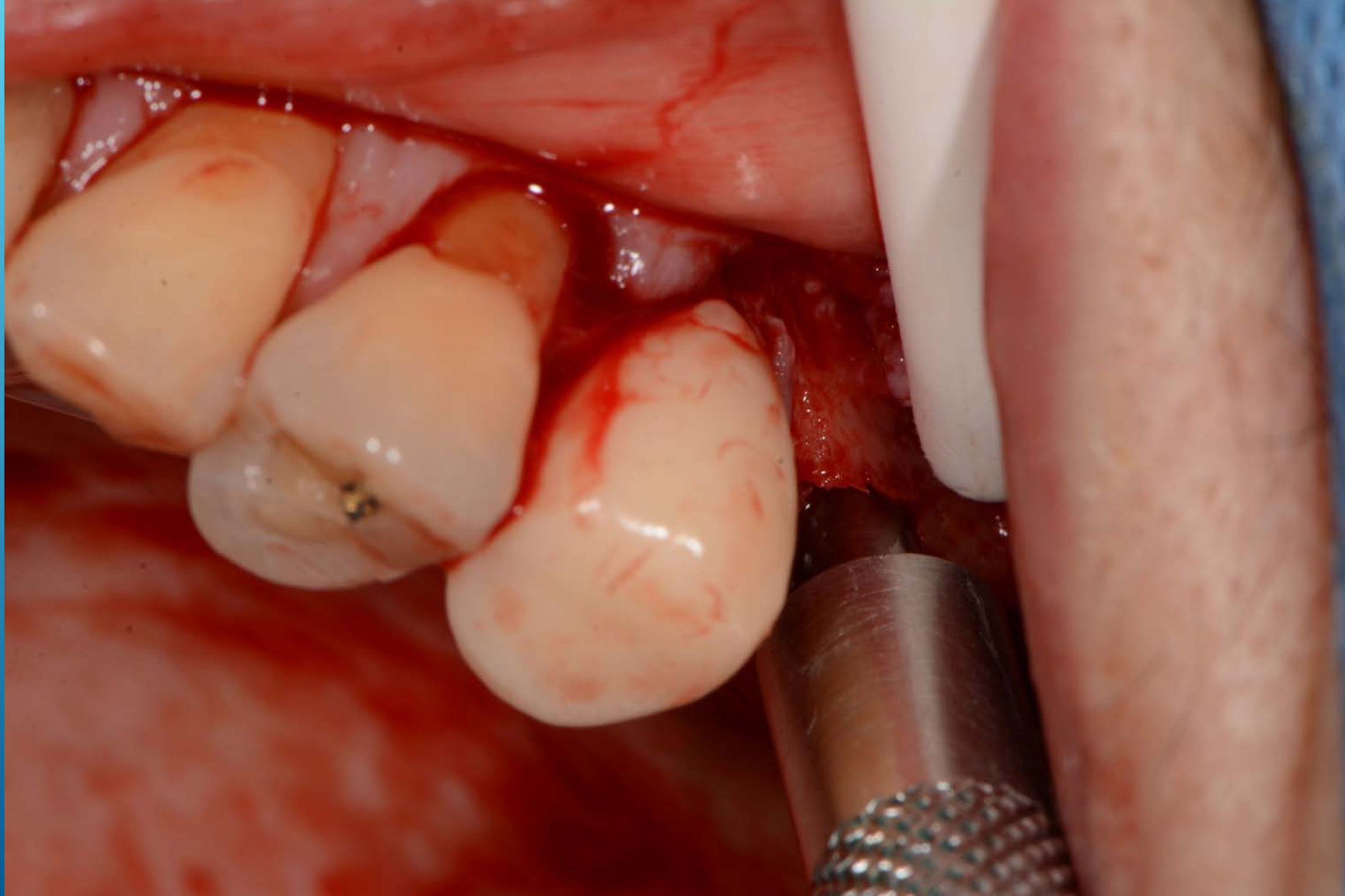
A series of several parallel white lines of varying lengths and positions, all slanted diagonally from the bottom-left towards the top-right, located on the right side of the slide.



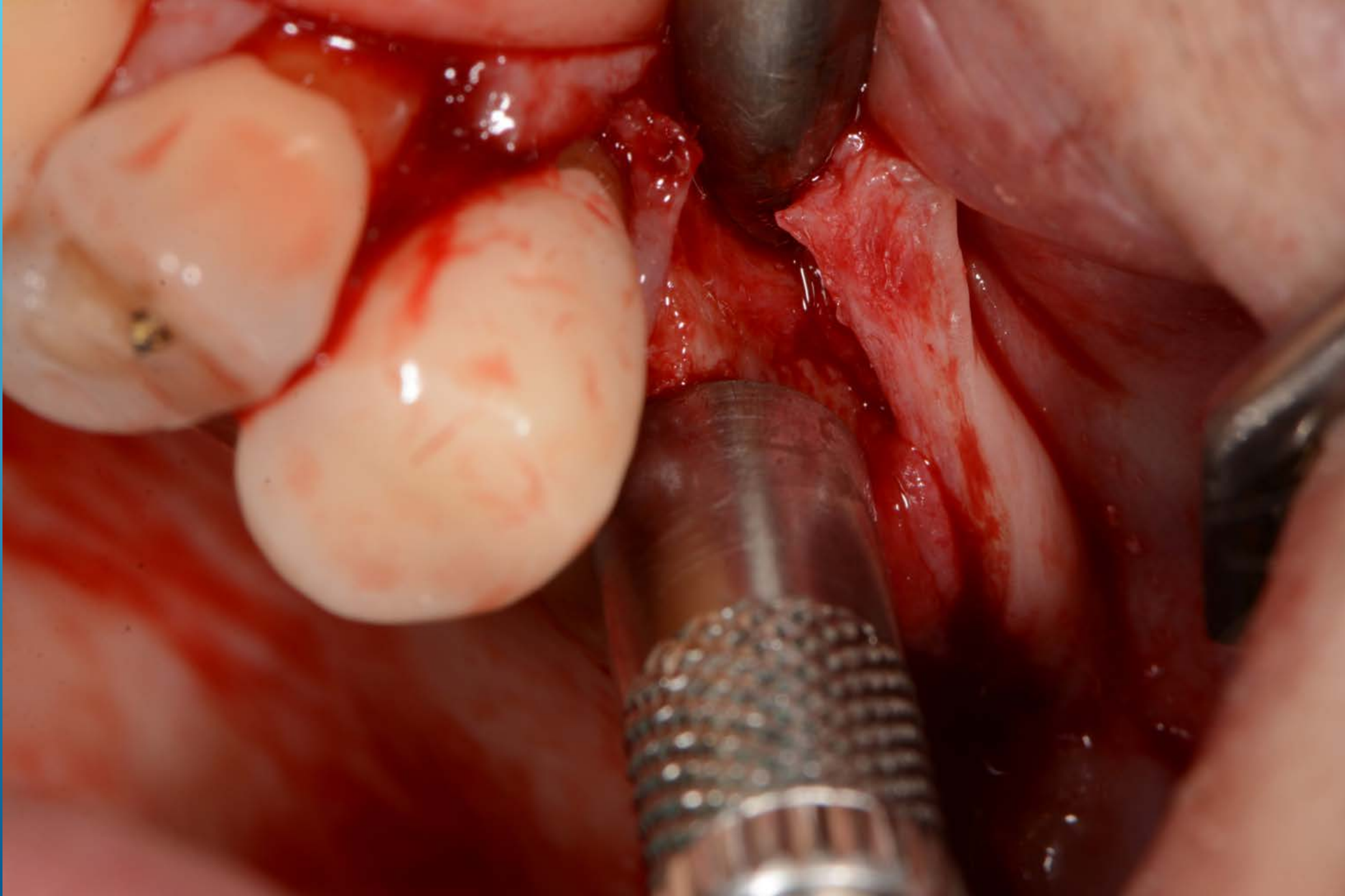


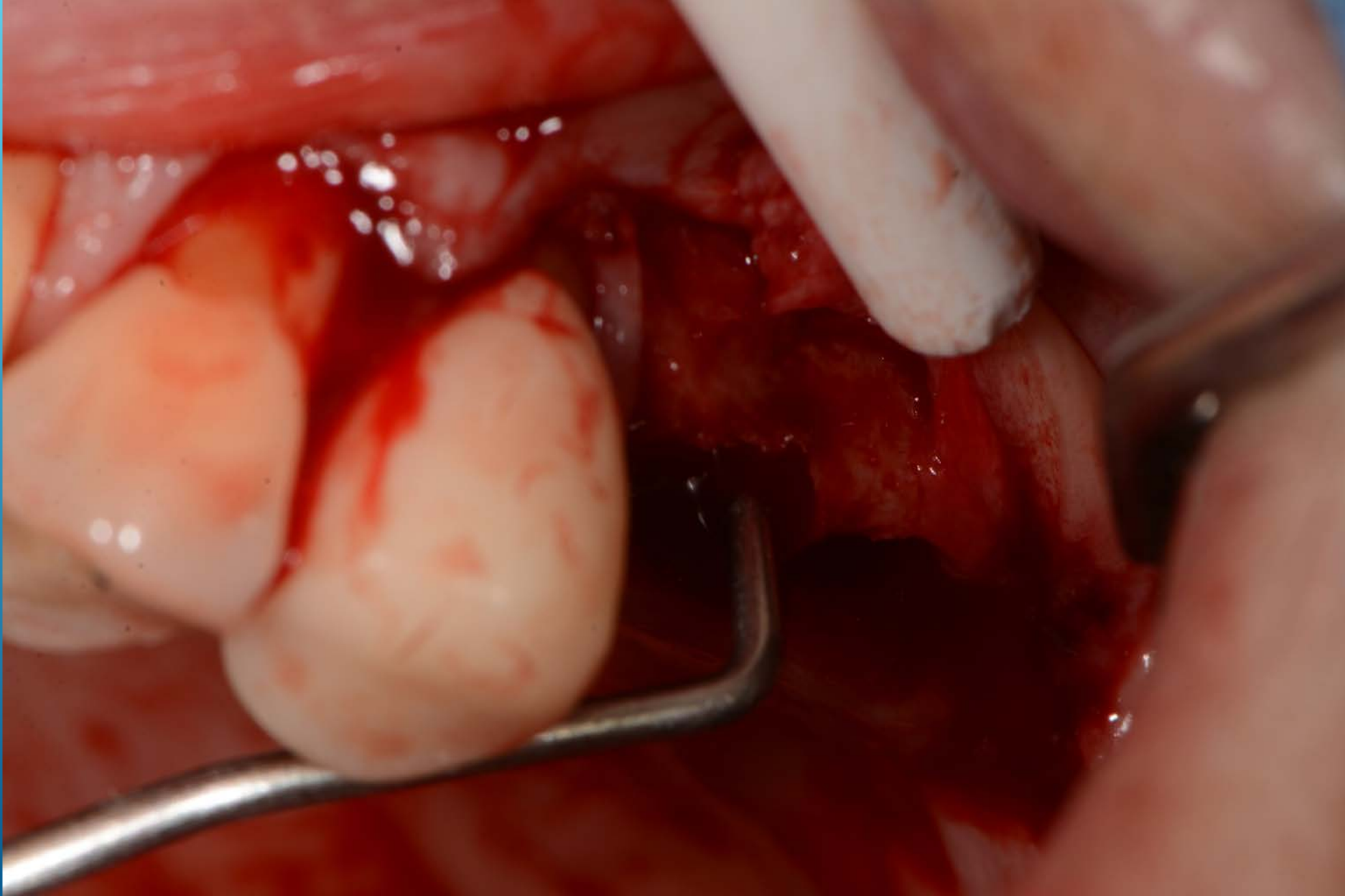








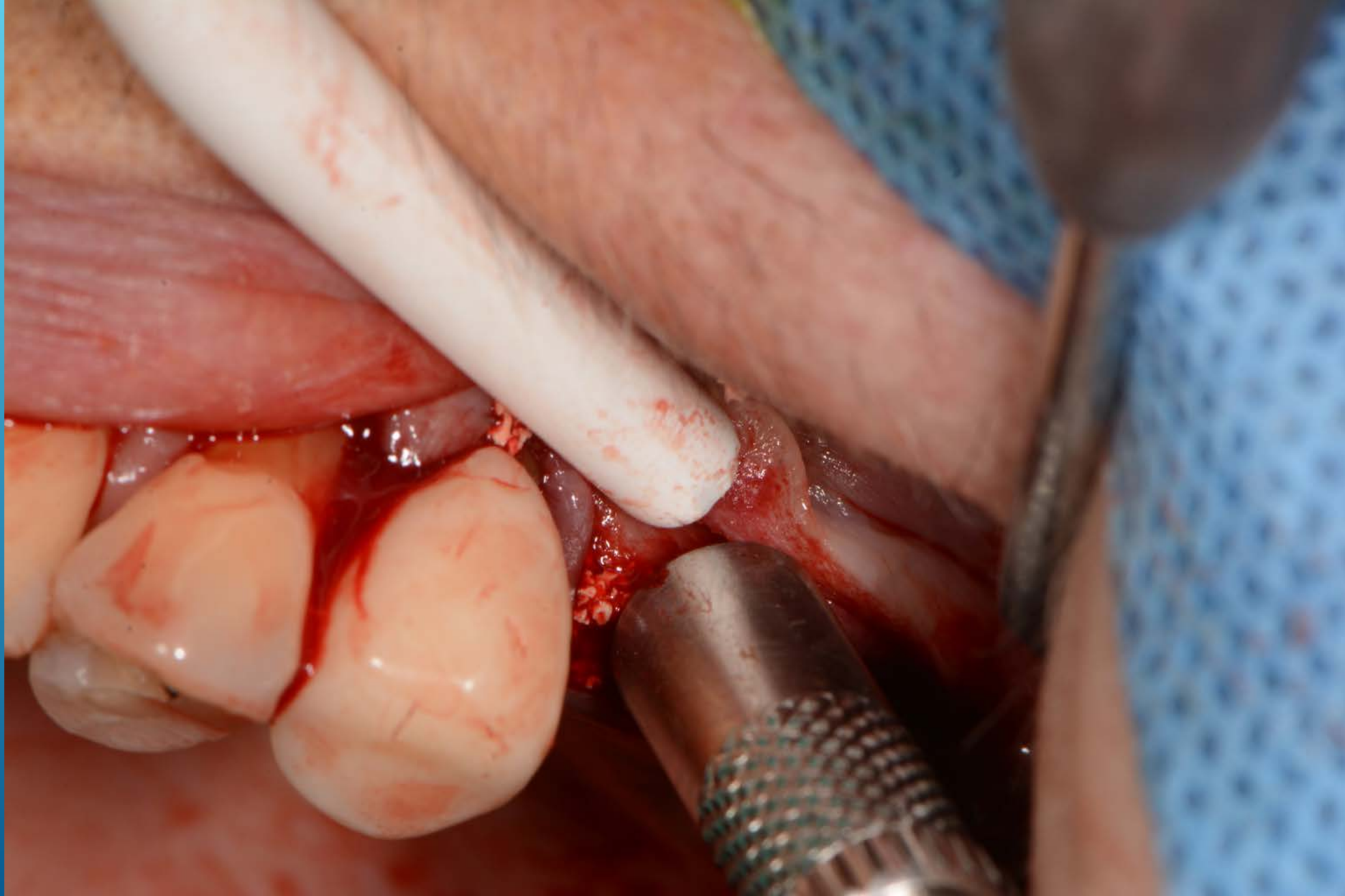


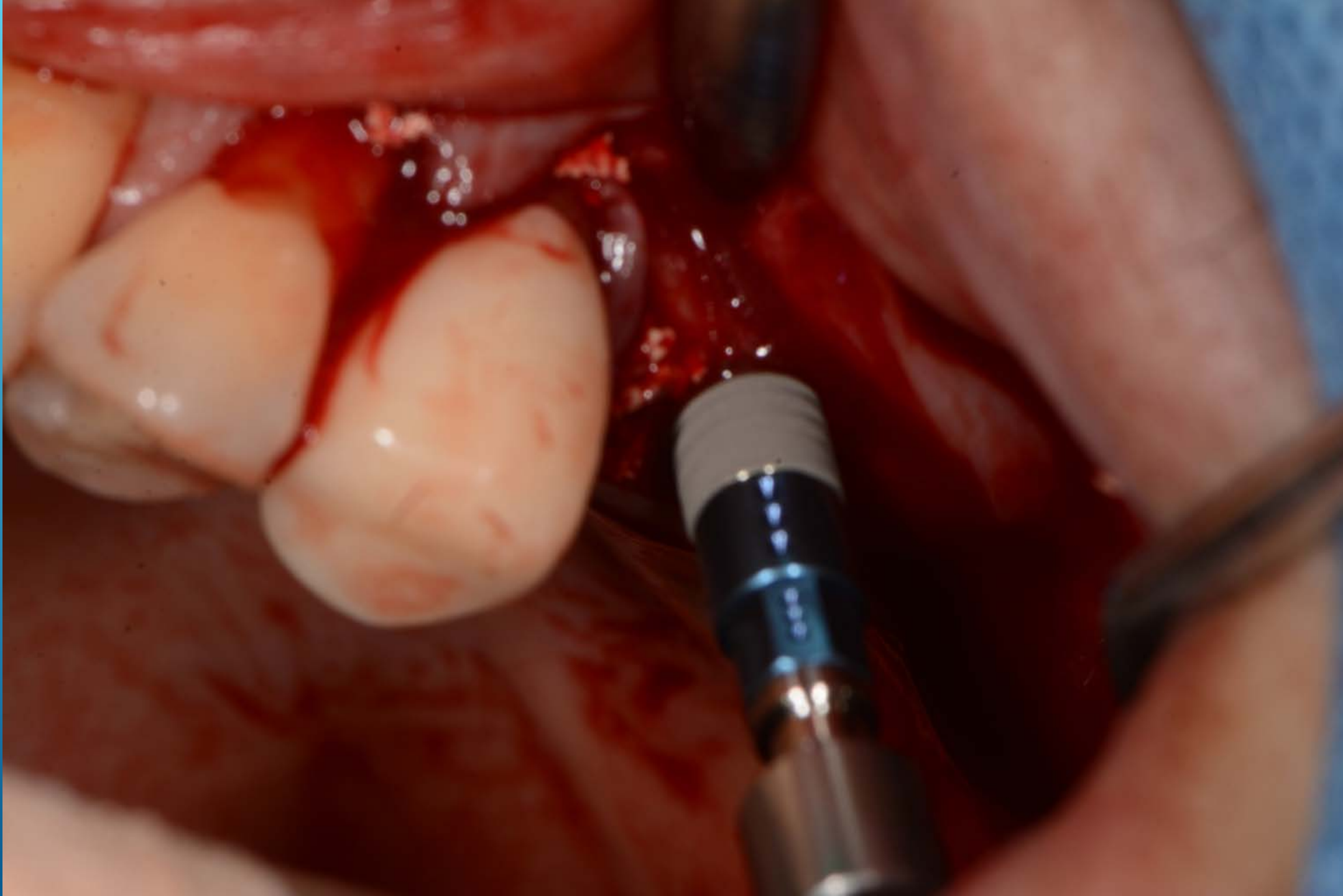


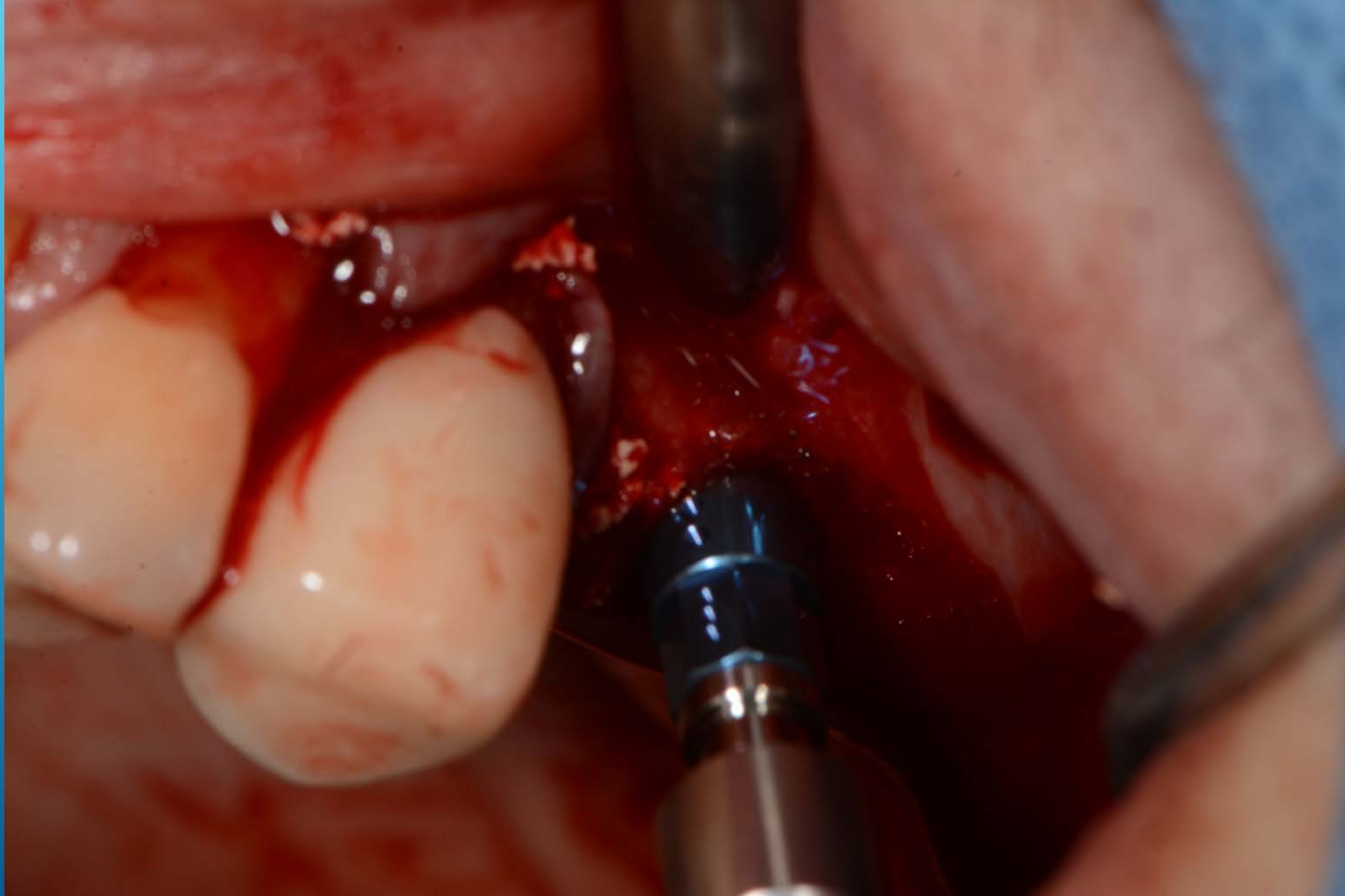


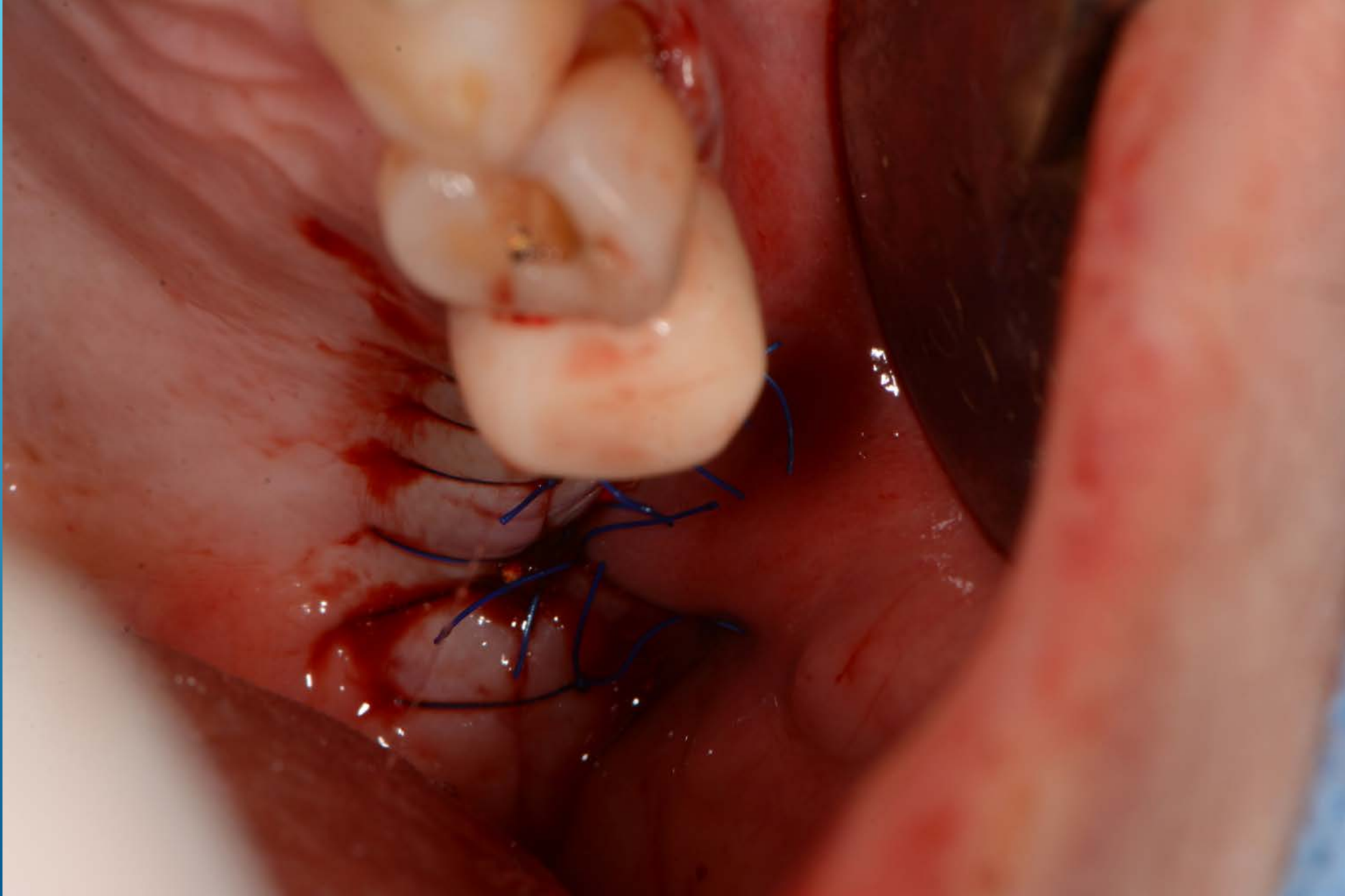


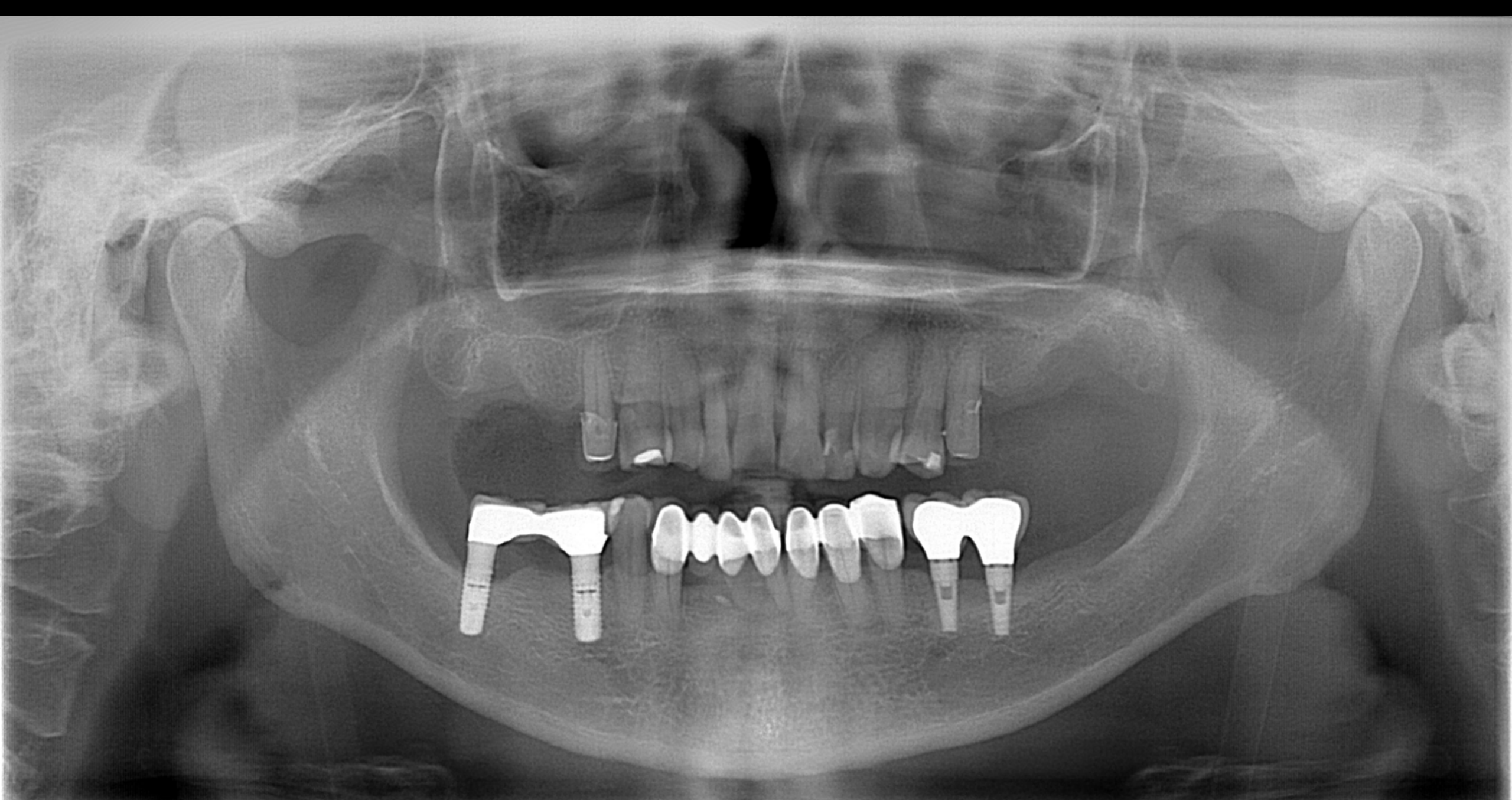








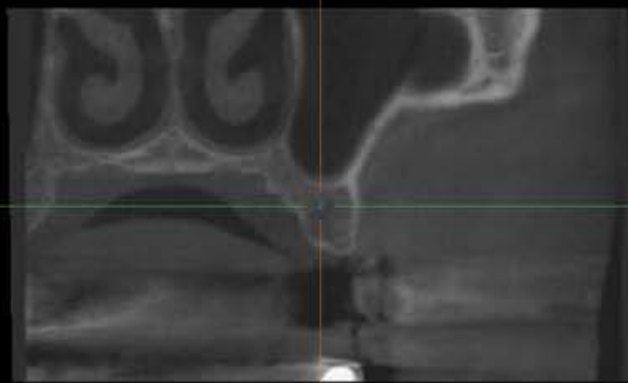




Coronal

ID : 000021856
0351129 岳桂芬 (F) 070Y
20170715
Series : 1

R



FL

MPR
TH 0.0mm

L

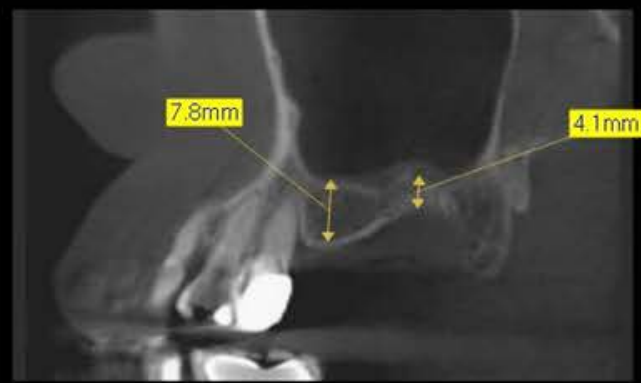


2.79 [dGy*cm^2]
4 [mA]
89 [kVp]
CT

Sagittal

ID : 000021856
0351129 岳桂芬 (F) 070Y
20170715
Series : 1

A



MPR
TH 0.0mm

P

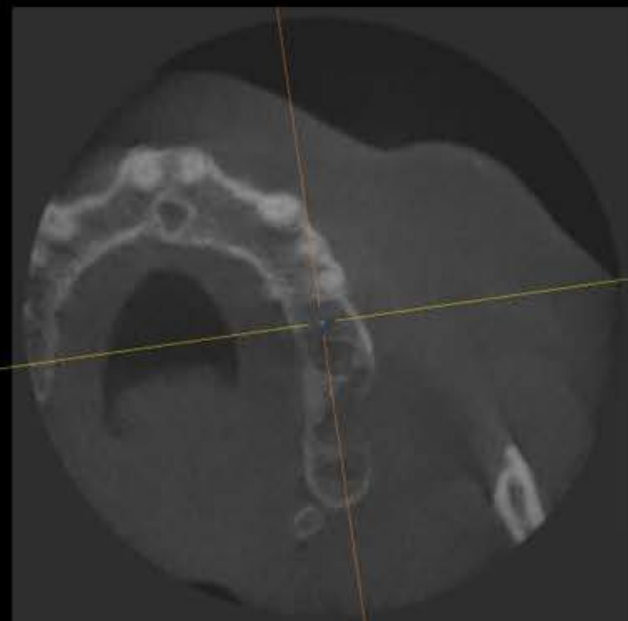


2.79 [dGy*cm^2]
4 [mA]
89 [kVp]
CT

Axial

ID : 000021856
0351129 岳桂芬 (F) 070Y
20170715
Series : 1

R



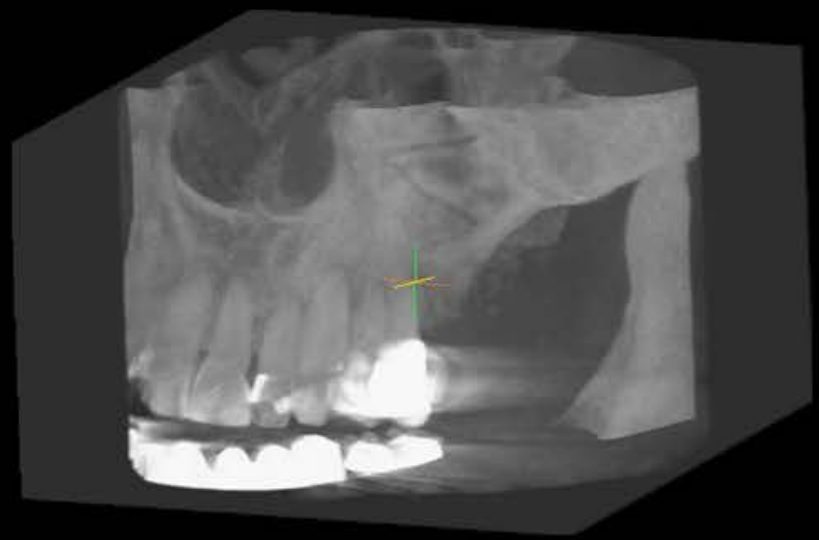
MPR
TH 0.0mm

L



2.79 [dGy*cm^2]
4 [mA]
89 [kVp]
CT

3D



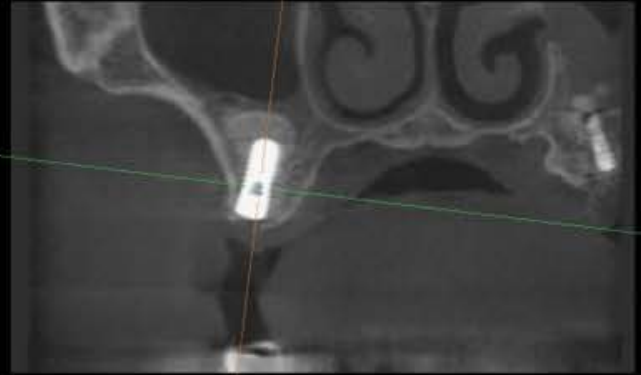
HFAPLR
MIP



Coronal

ID : 000021856
0351129 岳桂芬 (F) 070Y
20170829
Series : 1

R



FL

MPR
TH 0.0mm

L

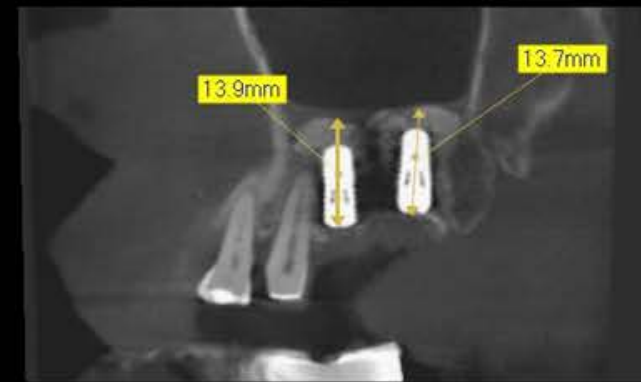


2.79 [dGy*cm^2]
4 [mA]
89 [kVp]
CT

Sagittal

ID : 000021856
0351129 岳桂芬 (F) 070Y
20170829
Series : 1

A



MPR
TH 0.0mm

P

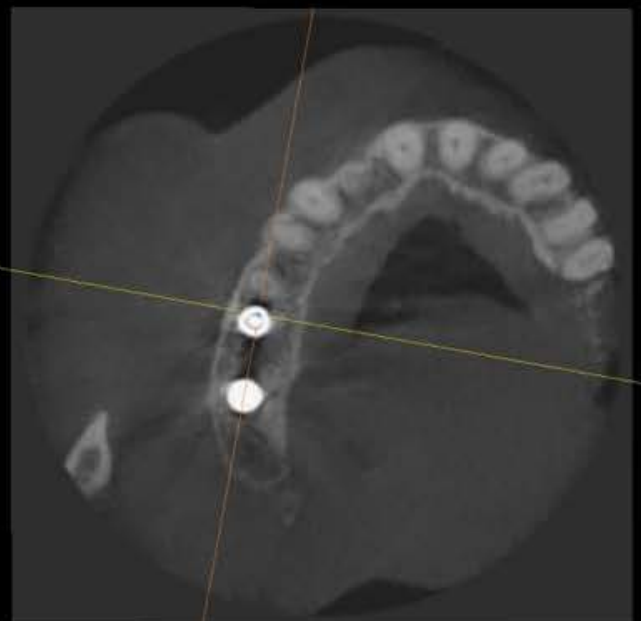


2.79 [dGy*cm^2]
4 [mA]
89 [kVp]
CT

Axial

ID : 000021856
0351129 岳桂芬 (F) 070Y
20170829
Series : 1

R



MPR
TH 0.0mm

L



2.79 [dGy*cm^2]
4 [mA]
89 [kVp]
CT

3D



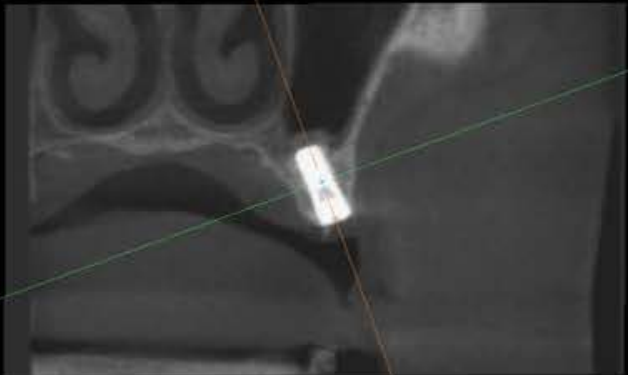
HFAPLR
MIP



Coronal

ID : 000021856
0351129 岳桂芬 (F) 070Y
20170815
Series : 1

R



2.79 [dGy*cm^2]
4 [mA]
89 [kVp]
CT

Sagittal

MPR
TH 0.0mm
ID : 000021856
0351129 岳桂芬 (F) 070Y
20170815
Series : 1

L



Sagittal

MPR
TH 0.0mm
ID : 000021856
0351129 岳桂芬 (F) 070Y
20170815
Series : 1

A



2.79 [dGy*cm^2]
4 [mA]
89 [kVp]
CT

MPR
TH 0.0mm

P



Axial

ID : 000021856
0351129 岳桂芬 (F) 070Y
20170815
Series : 1

R



2.79 [dGy*cm^2]
4 [mA]
89 [kVp]
CT

MPR
TH 0.0mm

L



3D

MPR
TH 0.0mm



HFAPLR
MIP



Coronal

ID : 000021856
0351129 岳桂芬 (F) 071Y
20180330
Series : 1

R



2.79 [dGy*cm^2]
4 [mA]
89 [kVp]
CT

Sagittal

MPR
TH 0.0mm
ID : 000021856
0351129 岳桂芬 (F) 071Y
20180330
Series : 1

L



2.79 [dGy*cm^2]
4 [mA]
89 [kVp]
CT

Sagittal

MPR
TH 0.0mm
ID : 000021856
0351129 岳桂芬 (F) 071Y
20180330
Series : 1

A



MPR
TH 0.0mm

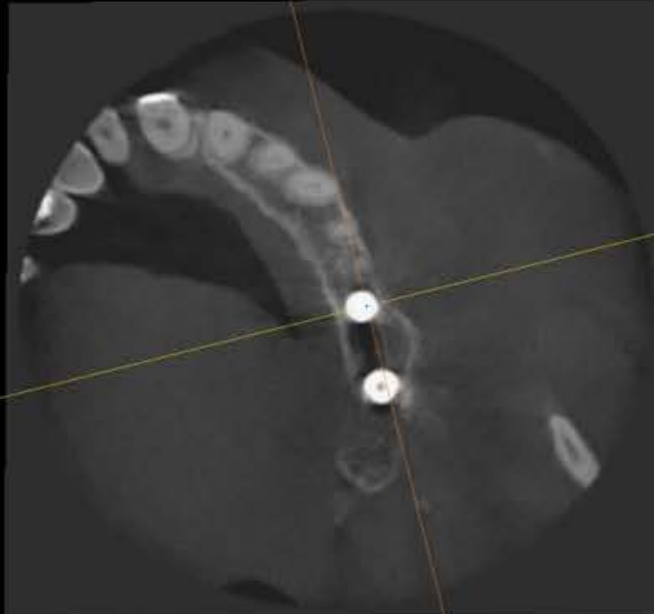
P



Axial

ID : 000021856
0351129 岳桂芬 (F) 071Y
20180330
Series : 1

R



2.79 [dGy*cm^2]
4 [mA]
89 [kVp]
CT

MPR
TH 0.0mm

L



3D

MPR
TH 0.0mm



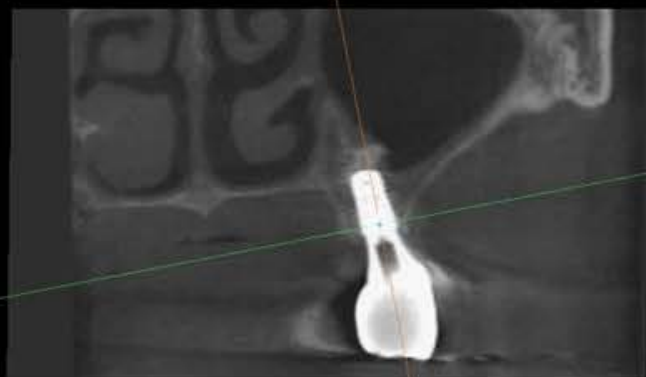
HFAPLR
MIP



Coronal

ID : 000021856
0351129 岳桂芬 (F) 071Y
20180504
Series : 1

R

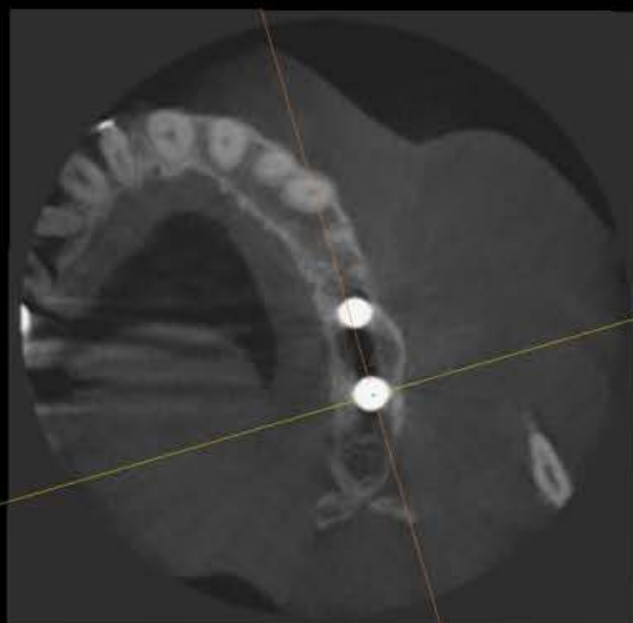


2.79 [dGy*cm^2]
4 [mA]
89 [kVp]
CT

Axial

ID : 000021856
0351129 岳桂芬 (F) 071Y
20180504
Series : 1

R



2.79 [dGy*cm^2]
4 [mA]
89 [kVp]
CT

MPR
TH 0.0mm

L



Sagittal

ID : 000021856
0351129 岳桂芬 (F) 071Y
20180504
Series : 1

A



2.79 [dGy*cm^2]
4 [mA]
89 [kVp]
CT

3D

MPR
TH 0.0mm

L



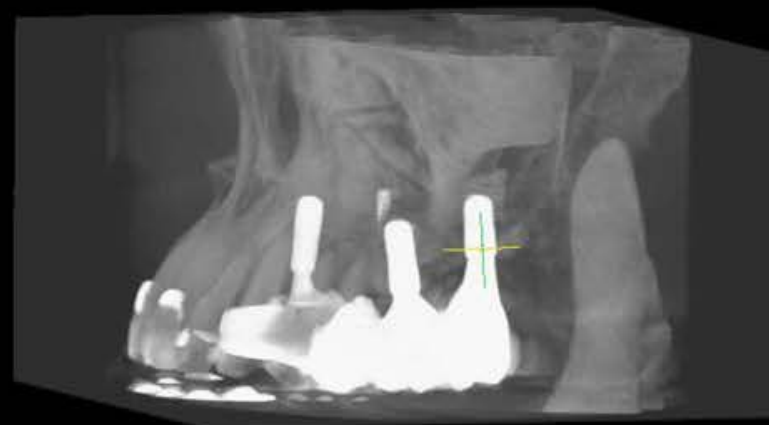
FL

MPR
TH 0.0mm

P



HFAPLR
MIP



Coronal

ID : 000021856
0351129 岳桂芬 (F) 070Y
20170829
Series : 1

R



2.79 [dGy*cm^2]
4 [mA]
89 [kVp]
CT

FL

MPR
TH 0.0mm

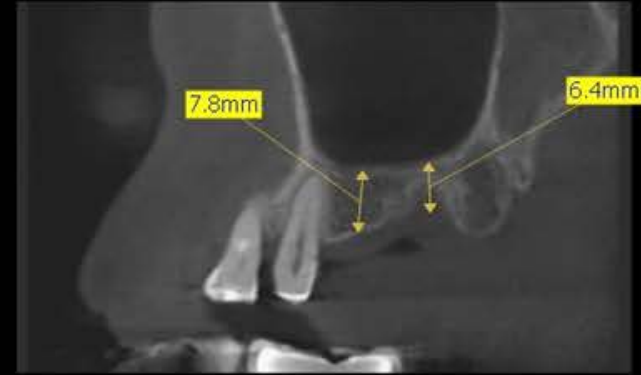
L



Sagittal

ID : 000021856
0351129 岳桂芬 (F) 070Y
20170829
Series : 1

A



2.79 [dGy*cm^2]
4 [mA]
89 [kVp]
CT

MPR
TH 0.0mm

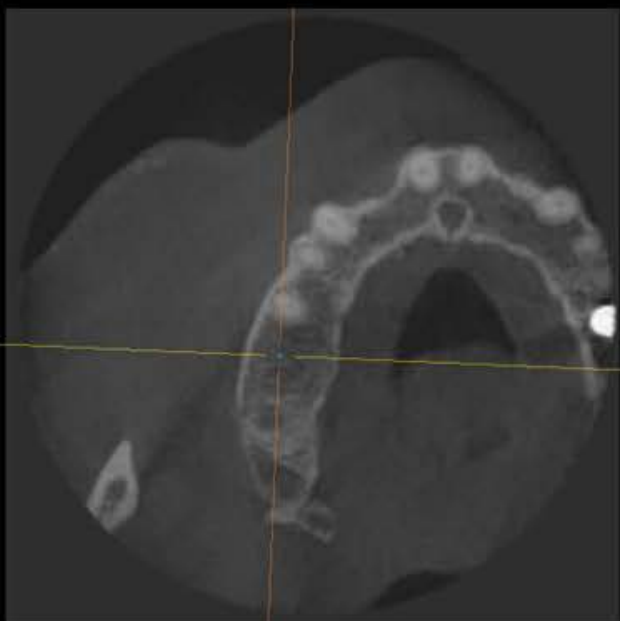
P



Axial

ID : 000021856
0351129 岳桂芬 (F) 070Y
20170829
Series : 1

R



2.79 [dGy*cm^2]
4 [mA]
89 [kVp]
CT

MPR
TH 0.0mm

L



3D



HFAPLR
MIP



Coronal

ID : 000021856
0351129 岳桂芬 (F) 071Y
20180504
Series : 1

R



FL

MPR
TH 0.0mm

L



2.79 [dGy*cm^2]
4 [mA]
89 [kVp]
CT

Sagittal

ID : 000021856
0351129 岳桂芬 (F) 071Y
20180504
Series : 1

A



MPR
TH 0.0mm

P

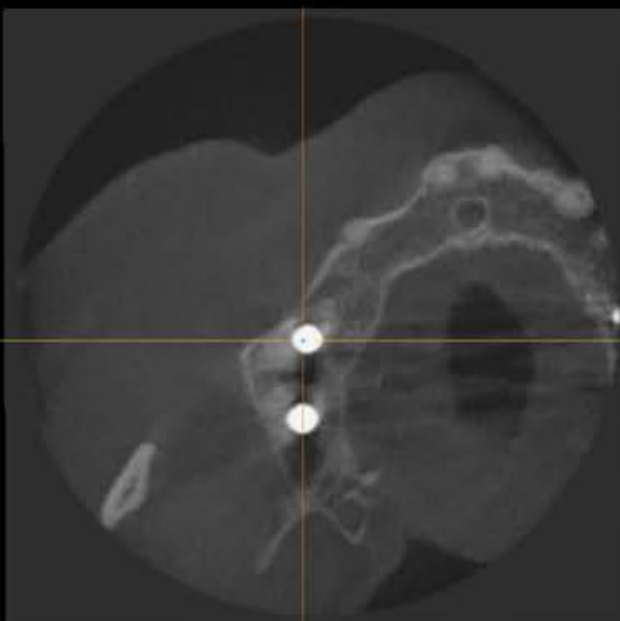


2.79 [dGy*cm^2]
4 [mA]
89 [kVp]
CT

Axial

ID : 000021856
0351129 岳桂芬 (F) 071Y
20180504
Series : 1

R



MPR
TH 0.0mm

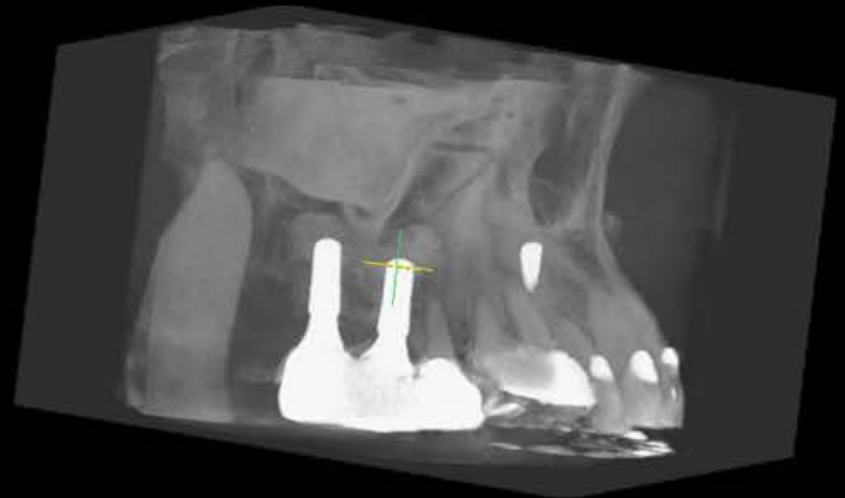
L



2.79 [dGy*cm^2]
4 [mA]
89 [kVp]
CT

3D

MPR
TH 0.0mm



HFAPLR
MIP





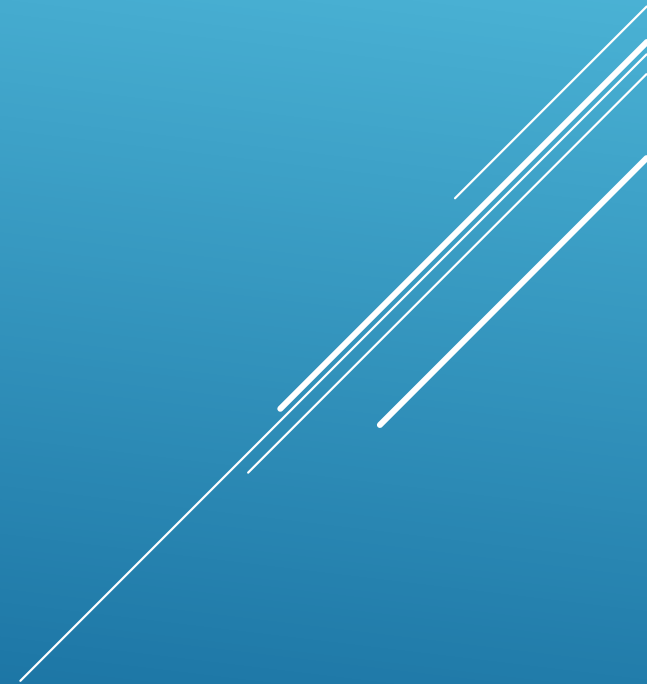








CASE REPORT
OF
CLOSED SINUS ELEVATION
WITH
SAFETY SURGICAL HAMMER



14.15.16. & 25.26.27. CLOSED SINUS ELEVATION WITH SAFETY SURGICAL HAMMER

DR.JUI-YUAN SHIH

A series of white, parallel lines of varying thicknesses that originate from the bottom right corner and extend diagonally towards the top right corner of the slide.

Coronal

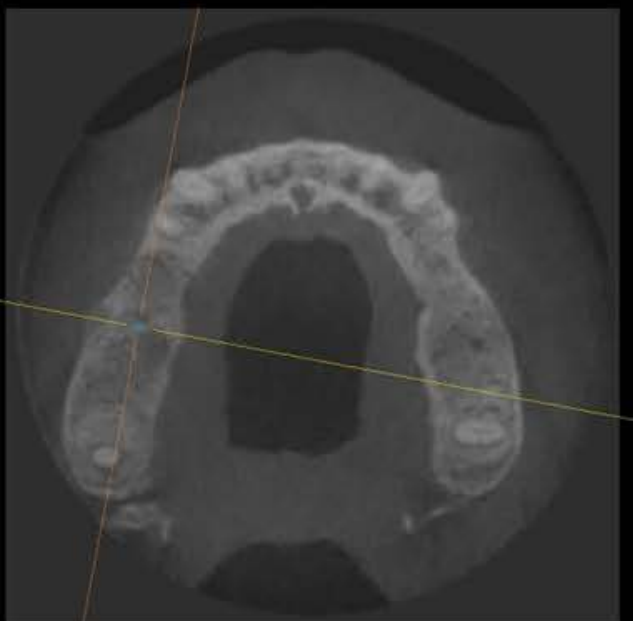
ID : 000021315
0740510 黃秀琴 (F) 031Y
20170307
Series : 1

R



2.79 [dGy*cm^2]
4 [mA]
89 [kVp]
CT

R



2.79 [dGy*cm^2]
4 [mA]
89 [kVp]
CT

Sagittal

MPR
TH 0.0mm
ID : 000021315
0740510 黃秀琴 (F) 031Y
20170307
Series : 1

L A



2.79 [dGy*cm^2]
4 [mA]
89 [kVp]
CT

3D

MPR
TH 0.0mm



FL

MPR
TH 0.0mm

P



HFAPLR
MIP



Coronal

ID : 000021315
0740510 黃秀琴 (F) 032Y
20180313
Series : 1

R



2.79 [dGy*cm^2]
4 [mA]
89 [kVp]
CT

Sagittal

MPR
TH 0.0mm
ID : 000021315
0740510 黃秀琴 (F) 032Y
20180313
Series : 1

L



2.79 [dGy*cm^2]
4 [mA]
89 [kVp]
CT

3D

MPR
TH 0.0mm

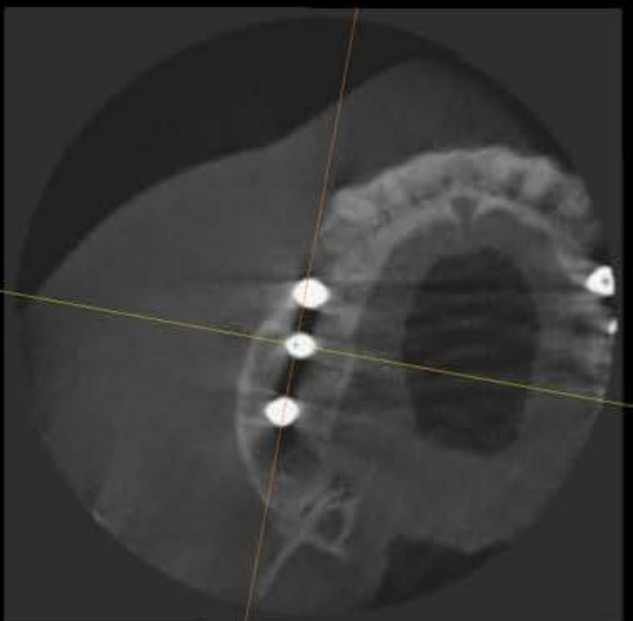
L



Axial

ID : 000021315
0740510 黃秀琴 (F) 032Y
20180313
Series : 1

R



2.79 [dGy*cm^2]
4 [mA]
89 [kVp]
CT

Sagittal

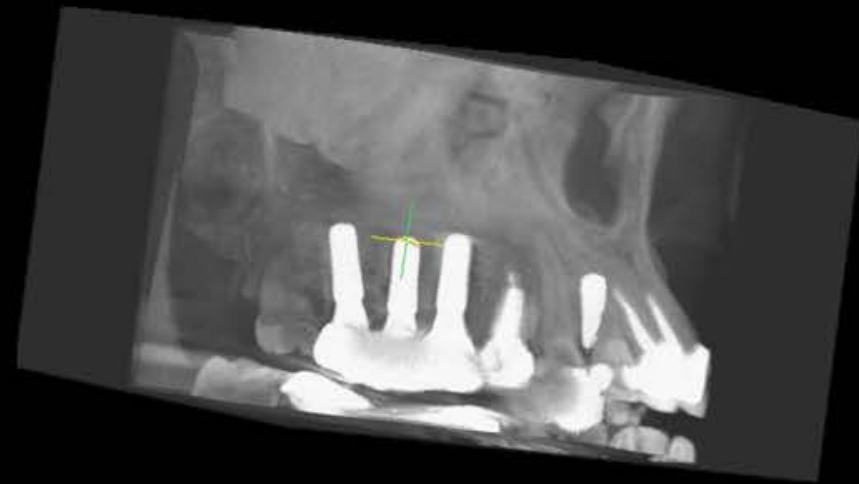
MPR
TH 0.0mm
ID : 000021315
0740510 黃秀琴 (F) 032Y
20180313
Series : 1

A



MPR
TH 0.0mm

P



HFAPLR
MIP



Coronal

ID : 000021315
0740510 黃秀琴 (F) 031Y
20170307
Series : 1

R



2.79 [dGy*cm^2]
4 [mA]
89 [kVp]
CT

Sagittal

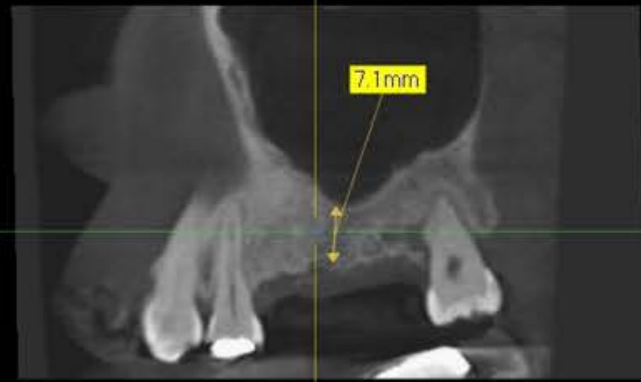
MPR
TH 0.0mm
ID : 000021315
0740510 黃秀琴 (F) 031Y
20170307
Series : 1

L



2.79 [dGy*cm^2]
4 [mA]
89 [kVp]
CT

A



MPR
TH 0.0mm

P



Axial

ID : 000021315
0740510 黃秀琴 (F) 031Y
20170307
Series : 1

R



2.79 [dGy*cm^2]
4 [mA]
89 [kVp]
CT

MPR
TH 0.0mm

L



3D



HFAPLR
MIP



Coronal

ID : 000021315
0740510 黃秀琴 (F) 032Y
20180313
Series : 1

R



2.79 [dGy*cm^2]
4 [mA]
89 [kVp]
CT

Sagittal

MPR
TH 0.0mm
ID : 000021315
0740510 黃秀琴 (F) 032Y
20180313
Series : 1

L



2.79 [dGy*cm^2]
4 [mA]
89 [kVp]
CT

Sagittal

MPR
TH 0.0mm
ID : 000021315
0740510 黃秀琴 (F) 032Y
20180313
Series : 1

A



MPR
TH 0.0mm

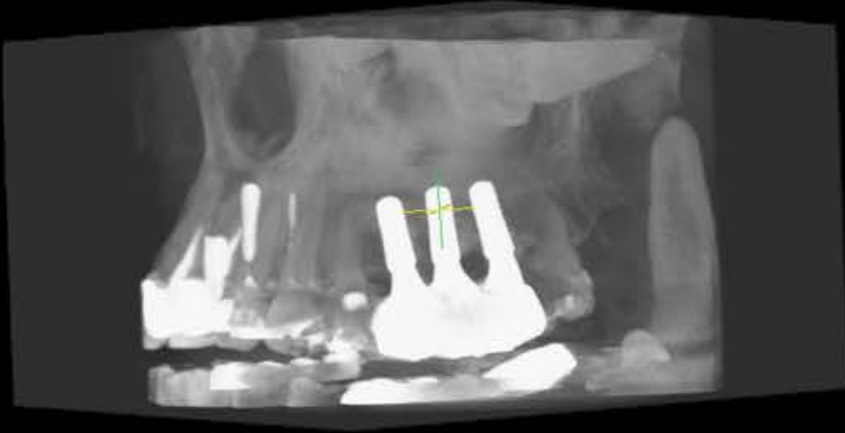
P



3D

MPR
TH 0.0mm

L



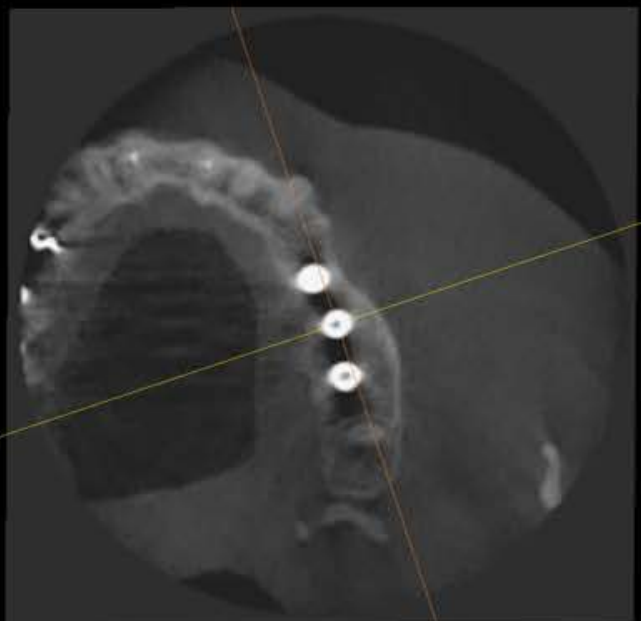
HFAPLR
MIP



Axial

ID : 000021315
0740510 黃秀琴 (F) 032Y
20180313
Series : 1

R



2.79 [dGy*cm^2]
4 [mA]
89 [kVp]
CT



27.CLOSED SINUS ELEVATION WITH SAFETY SURGICAL HAMMER

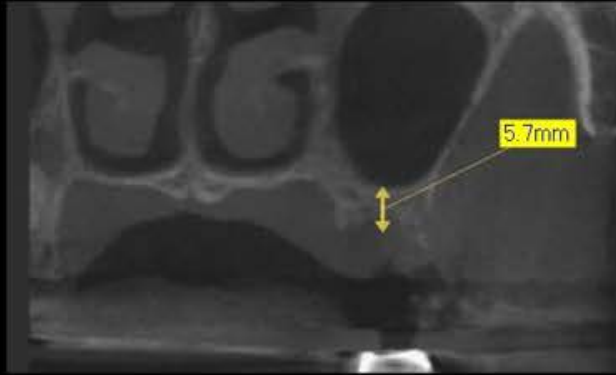
DR.JUI-YUAN SHIH

A series of several parallel white lines of varying thicknesses, slanted diagonally from the bottom left towards the top right, set against a blue gradient background.

Coronal

ID : 000021762
0500903 吳晉琴 (F) 055Y
20170825
Series : 1

R



2.79 [dGy*cm^2]
4 [mA]
89 [kVp]
CT

FL

MPR
TH 0.0mm

L



Sagittal

ID : 000021762
0500903 吳晉琴 (F) 055Y
20170825
Series : 1

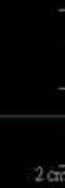
A



2.79 [dGy*cm^2]
4 [mA]
89 [kVp]
CT

MPR
TH 0.0mm

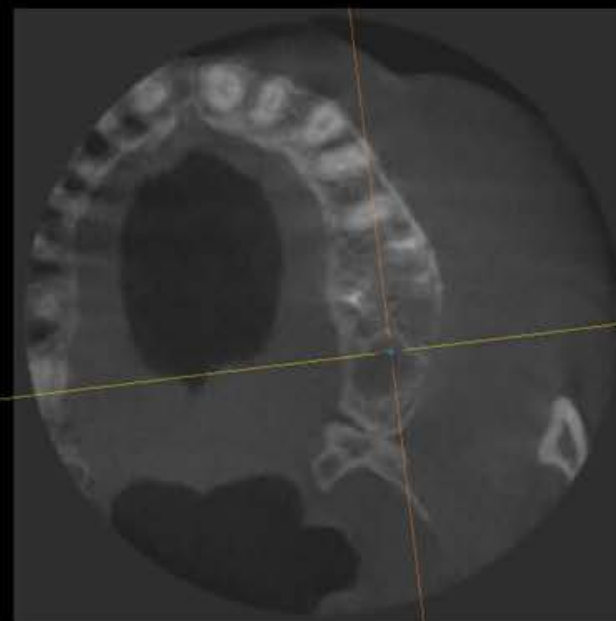
P



Axial

ID : 000021762
0500903 吳晉琴 (F) 055Y
20170825
Series : 1

R



2.79 [dGy*cm^2]
4 [mA]
89 [kVp]
CT

MPR
TH 0.0mm

L



3D



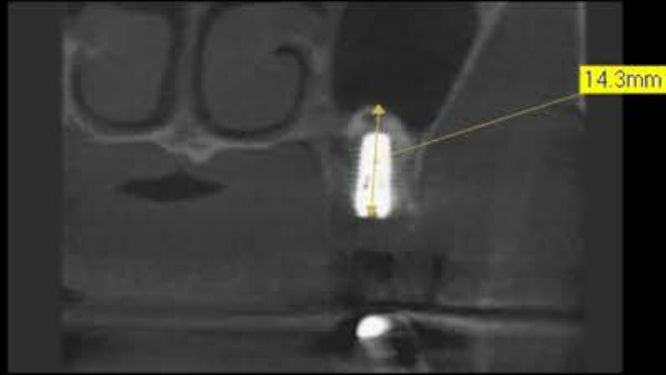
HFAPLR
MIP



Coronal

ID : 000021762
0500903 吳晉琴 (F) 055Y
20170828
Series : 1

R

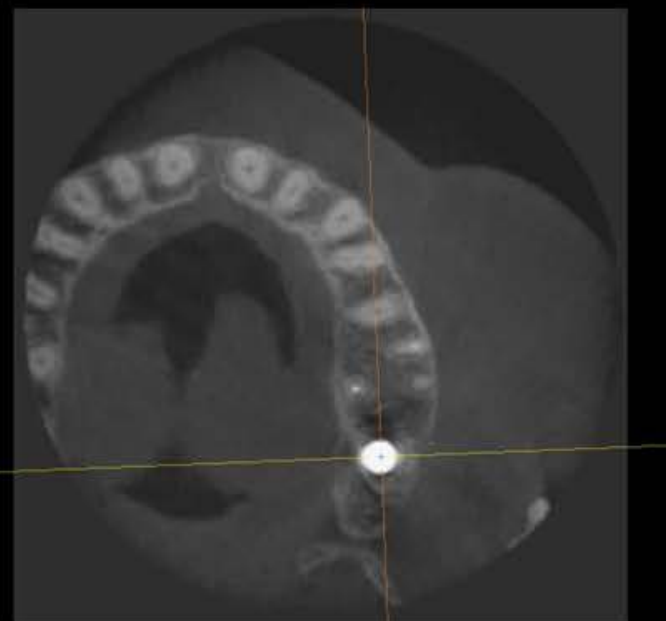


2.79 [dGy*cm^2]
4 [mA]
89 [kVp]
CT

Axial

ID : 000021762
0500903 吳晉琴 (F) 055Y
20170828
Series : 1

R



2.79 [dGy*cm^2]
4 [mA]
89 [kVp]
CT

Sagittal

MPR
TH 0.0mm
ID : 000021762
0500903 吳晉琴 (F) 055Y
20170828
Series : 1

L



2.79 [dGy*cm^2]
4 [mA]
89 [kVp]
CT

3D

MPR
TH 0.0mm

L



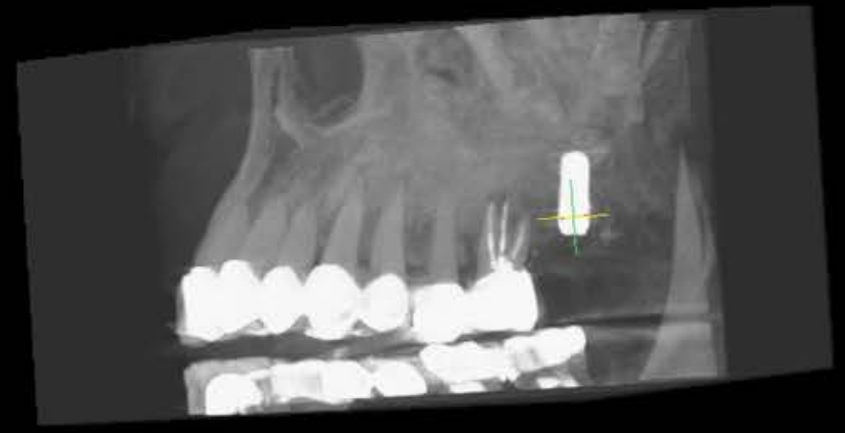
FL

MPR
TH 0.0mm

P



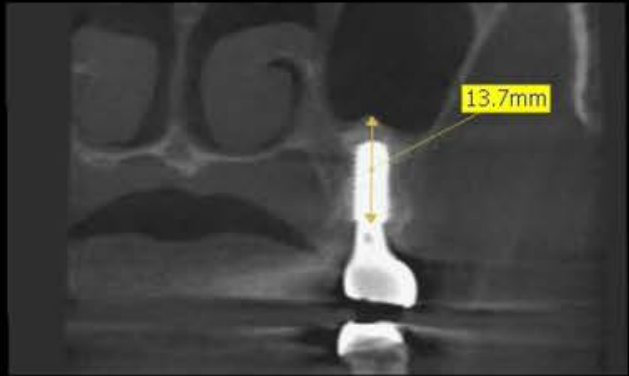
HFAPLR
MIP



Coronal

ID : 000021762
0500903 吳晉琴 (F) 056Y
20180205
Series : 1

R



2.79 [dGy*cm^2]
4 [mA]
89 [kVp]
CT

Sagittal

MPR
TH 0.0mm
ID : 000021762
0500903 吳晉琴 (F) 056Y
20180205
Series : 1

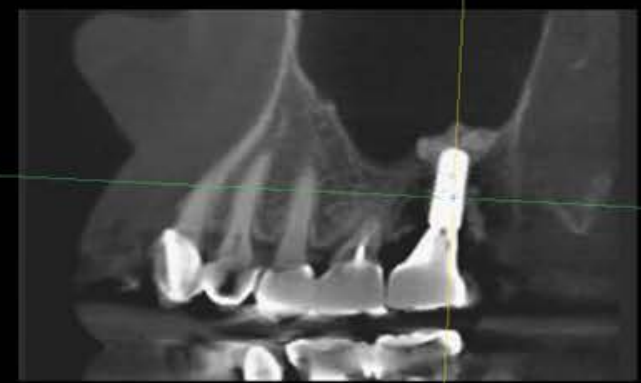
L



2.79 [dGy*cm^2]
4 [mA]
89 [kVp]
CT

MPR
TH 0.0mm

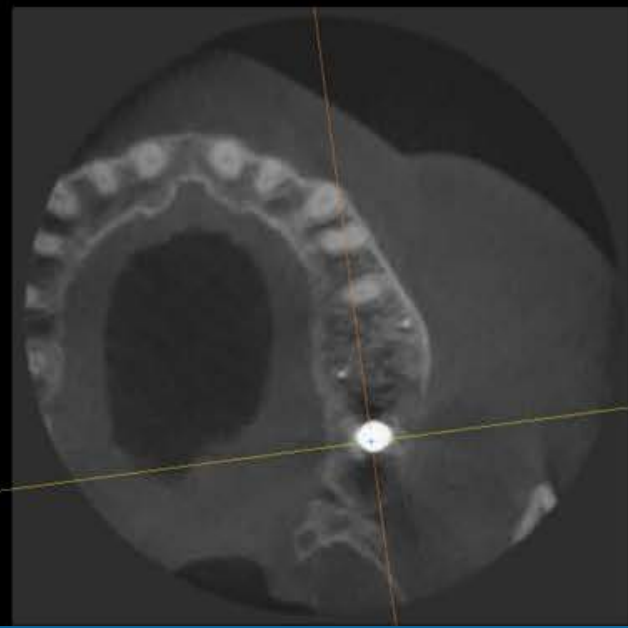
P



Axial

ID : 000021762
0500903 吳晉琴 (F) 056Y
20180205
Series : 1

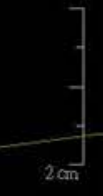
R



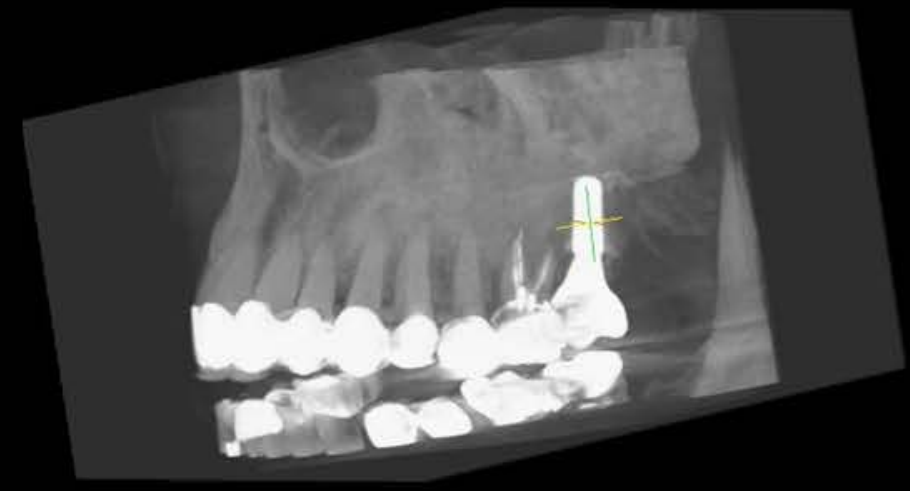
2.79 [dGy*cm^2]
4 [mA]
89 [kVp]
CT

MPR
TH 0.0mm

L



3D



HFAPLR
MIP



Coronal

ID : 000021762
0500903 吳晉琴 (F) 056Y
20180205
Series : 1

R

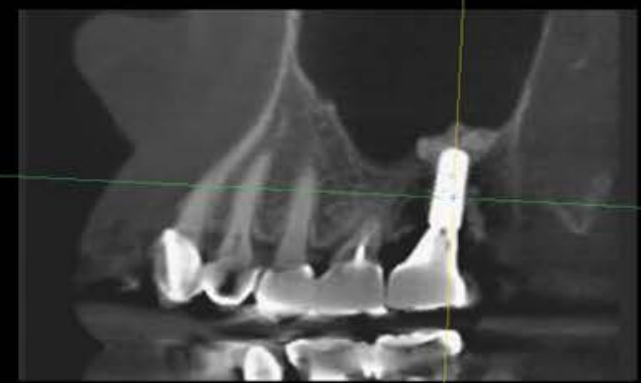


2.79 [dGy*cm^2]
4 [mA]
89 [kVp]
CT

Sagittal

MPR
TH 0.0mm
ID : 000021762
0500903 吳晉琴 (F) 056Y
20180205
Series : 1

L A



2.79 [dGy*cm^2]
4 [mA]
89 [kVp]
CT

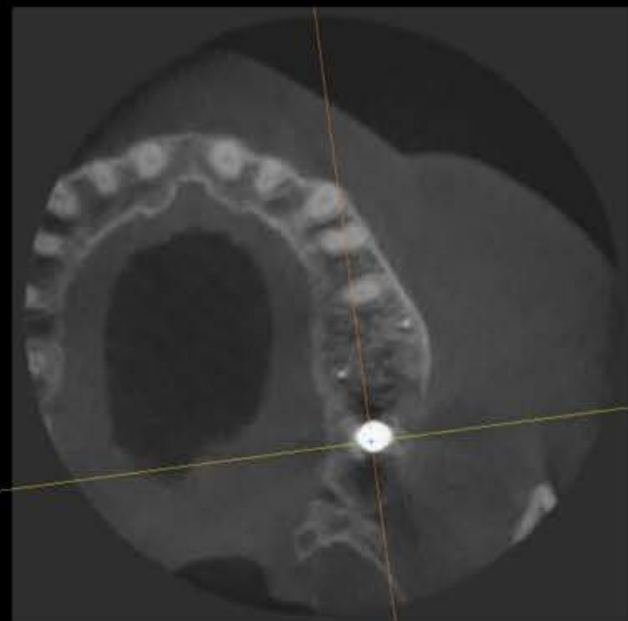
MPR
TH 0.0mm

P

Axial

ID : 000021762
0500903 吳晉琴 (F) 056Y
20180205
Series : 1

R

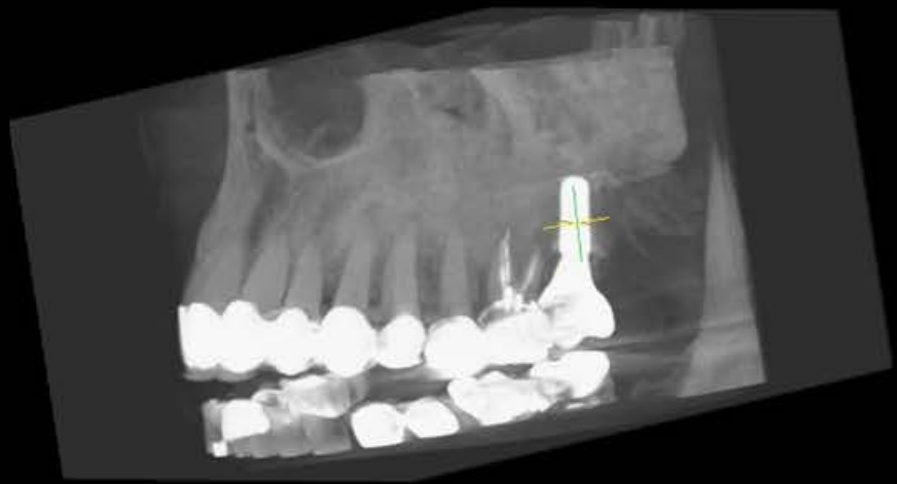


2.79 [dGy*cm^2]
4 [mA]
89 [kVp]
CT

3D

MPR
TH 0.0mm

L



HFAPLR
MIP



17.16. CLOSED SINUS ELEVATION WITH SAFETY SURGICAL HAMMER

DR.JUI-YUAN SHIH

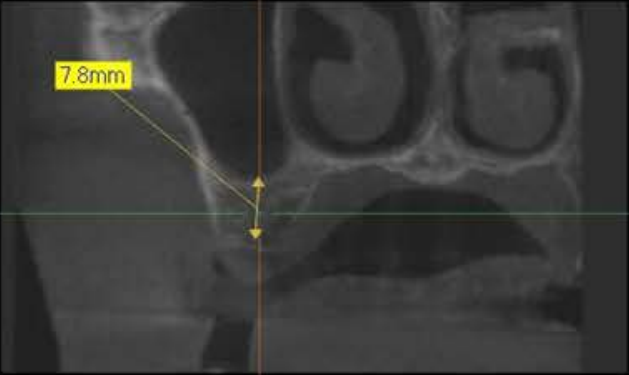
A series of several parallel white lines of varying thicknesses, slanted diagonally from the bottom left towards the top right, set against a blue gradient background.



Coronal

ID : 000006790
0501125 柯秀月 (F) 055Y
20171107
Series : 1

R



2.79 [dGy*cm^2]
4 [mA]
89 [kVp]
CT

Sagittal

MPR
TH 0.0mm
ID : 000006790
0501125 柯秀月 (F) 055Y
20171107
Series : 1

L



A



2.79 [dGy*cm^2]
4 [mA]
89 [kVp]
CT

MPR
TH 0.0mm

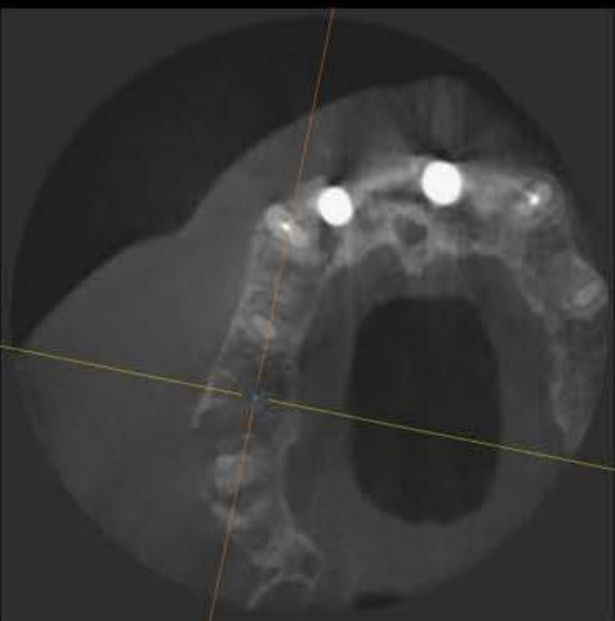
P



Axial

ID : 000006790
0501125 柯秀月 (F) 055Y
20171107
Series : 1

R



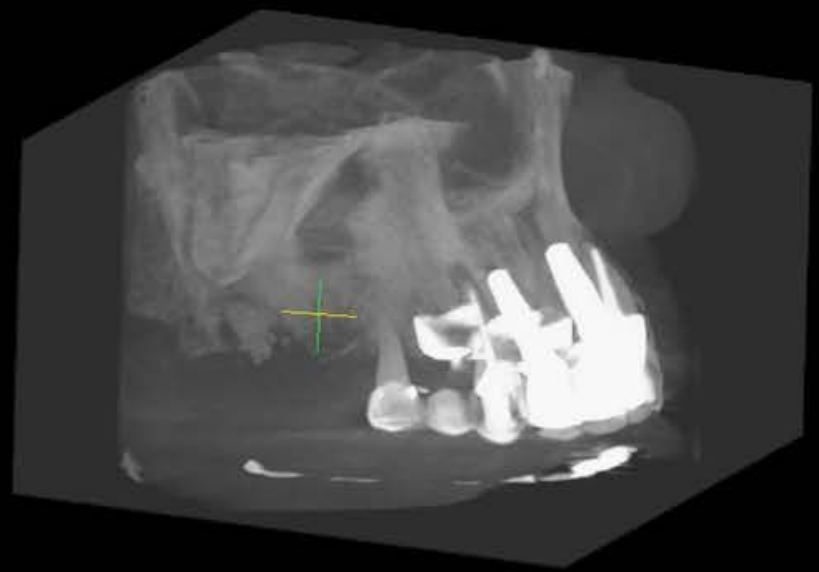
2.79 [dGy*cm^2]
4 [mA]
89 [kVp]
CT

MPR
TH 0.0mm

L



3D



HFAPLR
MIP



Coronal

ID : 000006790
0501125 柯秀月 (F) 055Y
20171107
Series : 1

R



14.1mm

FL

MPR
TH 0.0mm

L



2.79 [dGy*cm^2]
4 [mA]
89 [kVp]
CT

Sagittal

ID : 000006790
0501125 柯秀月 (F) 055Y
20171107
Series : 1

A

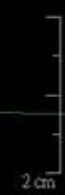


14.7mm

16.4mm

MPR
TH 0.0mm

P

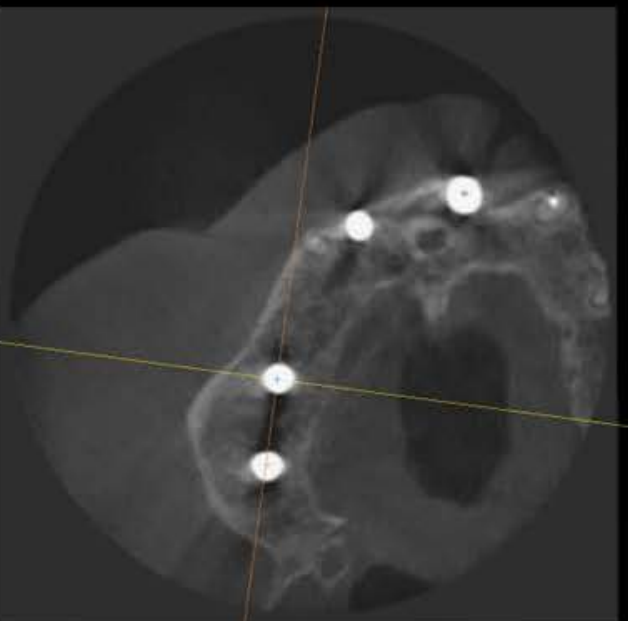


2.79 [dGy*cm^2]
4 [mA]
89 [kVp]
CT

Axial

ID : 000006790
0501125 柯秀月 (F) 055Y
20171107
Series : 1

R



MPR
TH 0.0mm

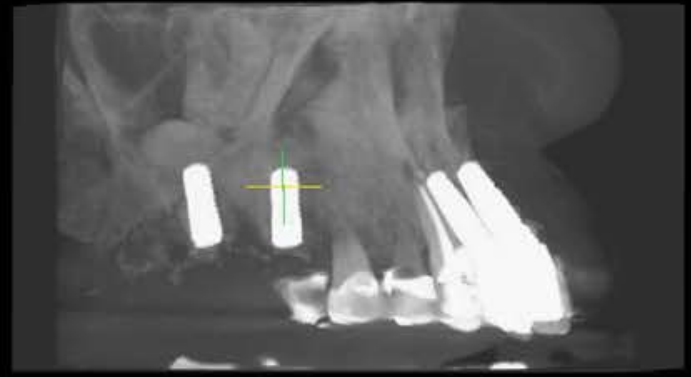
L



2.79 [dGy*cm^2]
4 [mA]
89 [kVp]
CT

3D

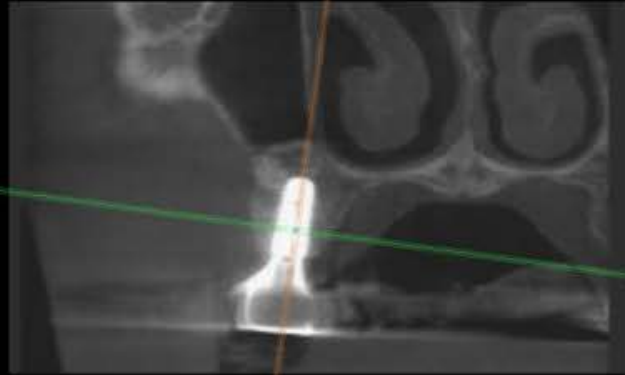
HFAPLR
MIP



Coronal

ID : 000006790
0501125 柯秀月 (F) 056Y
20180409
Series : 1

R



2.79 [dGy*cm^2]
4 [mA]
89 [kVp]
CT

Sagittal

MPR
TH : 1.0mm
ID : 000006790
0501125 柯秀月 (F) 056Y
20180409
Series : 1

L A

2 cm



2.79 [dGy*cm^2]
4 [mA]
89 [kVp]
CT

Sagittal

MPR
TH : 1.0mm

P



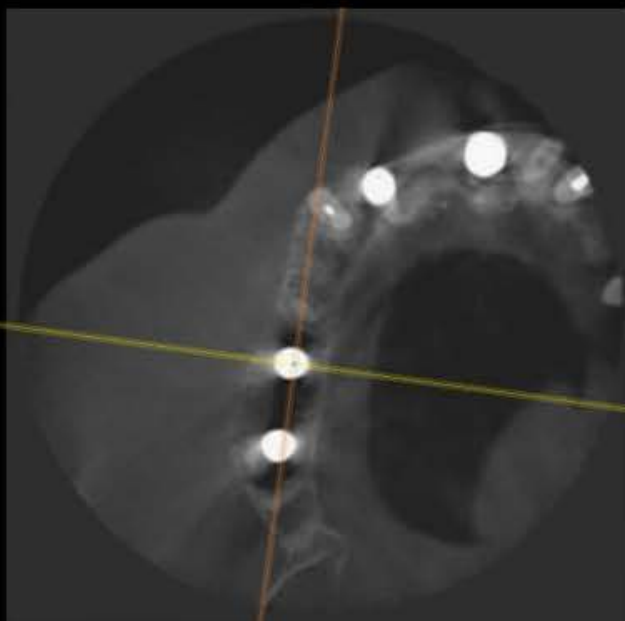
2 cm



Axial

ID : 000006790
0501125 柯秀月 (F) 056Y
20180409
Series : 1

R



2.79 [dGy*cm^2]
4 [mA]
89 [kVp]
CT

3D

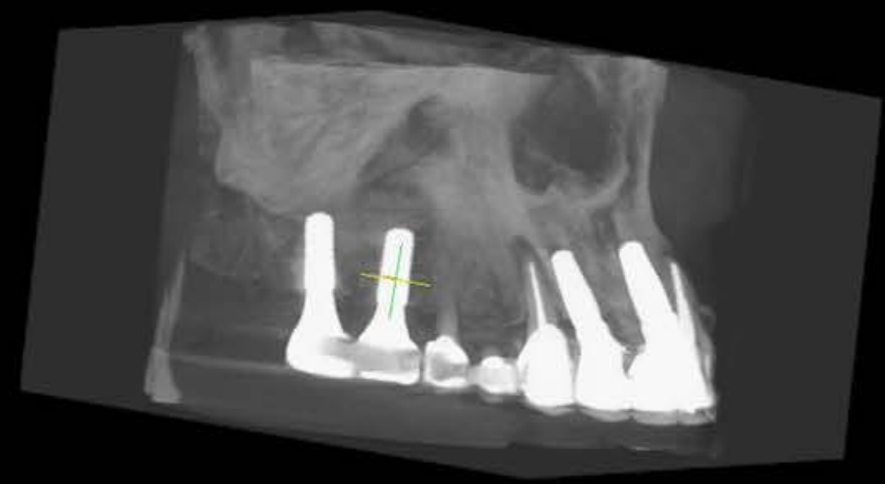
MPR
TH : 1.0mm

L

2 cm



3D



HFAPLR
MIP





16. CLOSED SINUS ELEVATION WITH SAFETY SURGICAL HAMMER

DR.JUI-YUAN SHIH

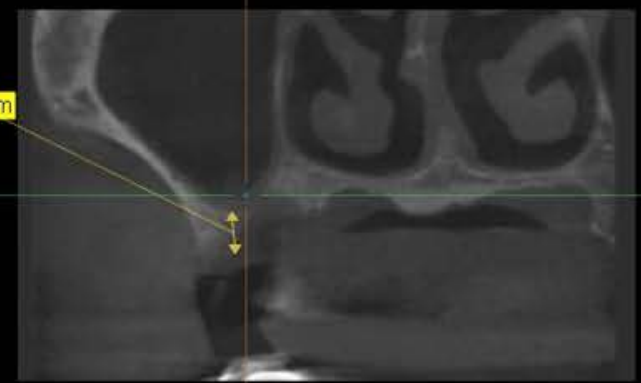
A series of several parallel white lines of varying lengths and positions, all slanted diagonally from the bottom-left towards the top-right, located on the right side of the slide.

Coronal

ID : 000013782
0290518 莊陳美英 [F] 077Y
20170825
Series : 1

R

5.4mm



2.79 [dGy*cm^2]
4 [mA]
89 [kVp]
CT

Sagittal

MPR
TH 0.0mm
ID : 000013782
0290518 莊陳美英 [F] 077Y
20170825
Series : 1

L A

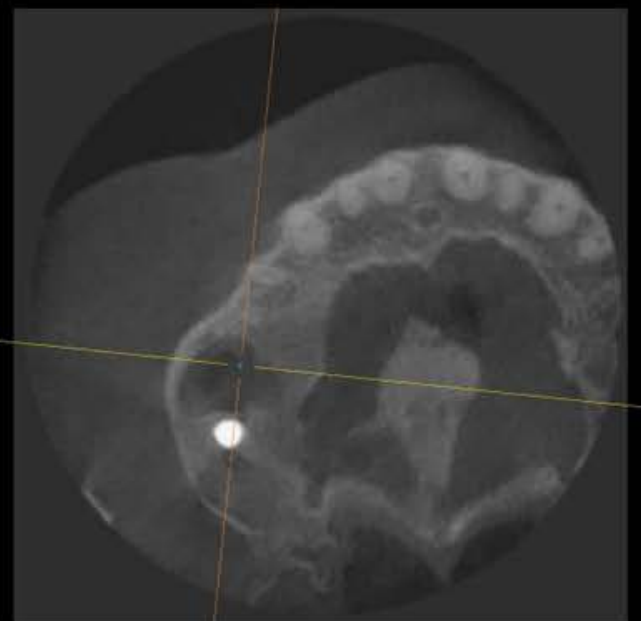


2.79 [dGy*cm^2]
4 [mA]
89 [kVp]
CT

Axial

ID : 000013782
0290518 莊陳美英 [F] 077Y
20170825
Series : 1

R

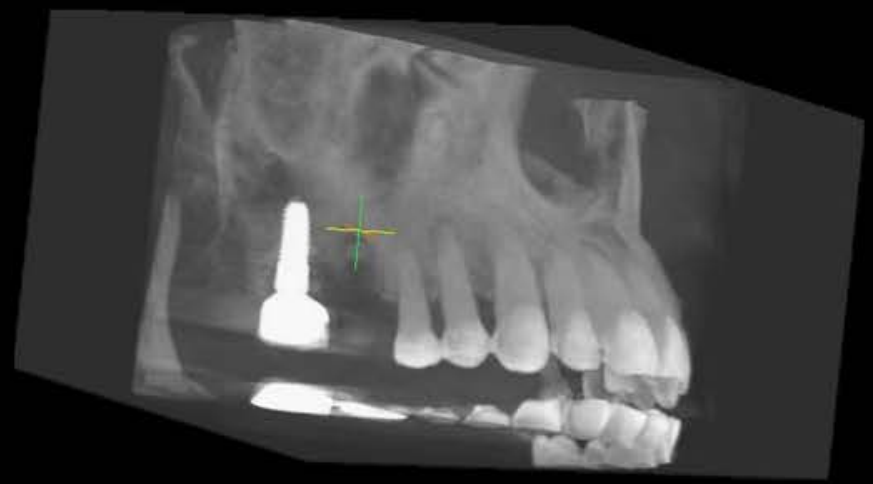


2.79 [dGy*cm^2]
4 [mA]
89 [kVp]
CT

3D

MPR
TH 0.0mm

L



2.79 [dGy*cm^2]
4 [mA]
89 [kVp]
CT

MPR
TH 0.0mm

P

2.79 [dGy*cm^2]
4 [mA]
89 [kVp]
CT

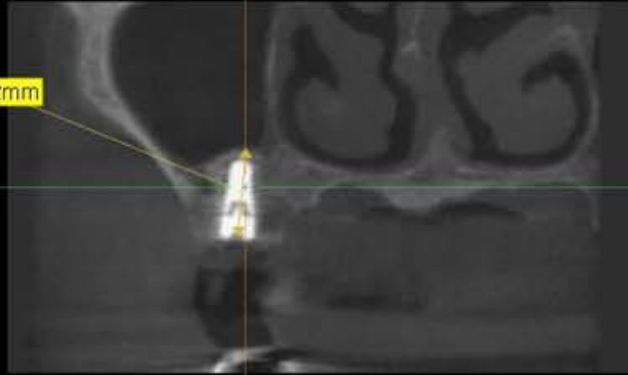
HFAPLR
MIP

Coronal

ID : 000013782
0290518 莊陳美英 [F] 077Y
20170825
Series : 1

R

11.2mm



2.79 [dGy*cm^2]
4 [mA]
89 [kVp]
CT

FL

MPR
TH 0.0mm

L



Sagittal

ID : 000013782
0290518 莊陳美英 [F] 077Y
20170825
Series : 1

A



MPR
TH 0.0mm

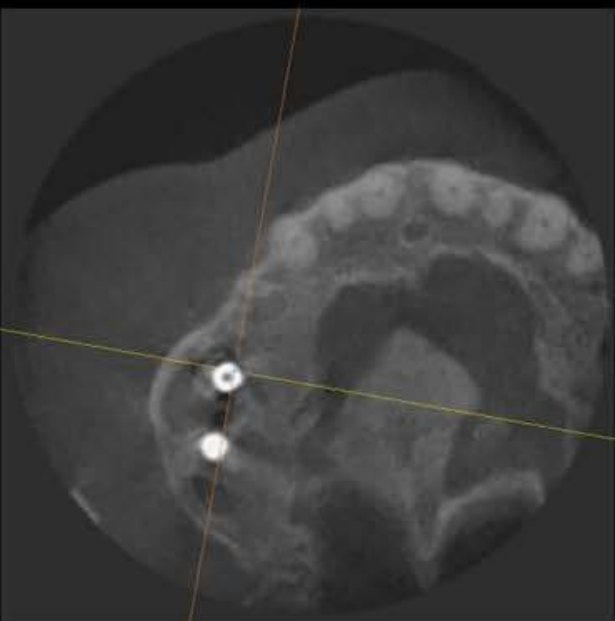
P



Axial

ID : 000013782
0290518 莊陳美英 [F] 077Y
20170825
Series : 1

R



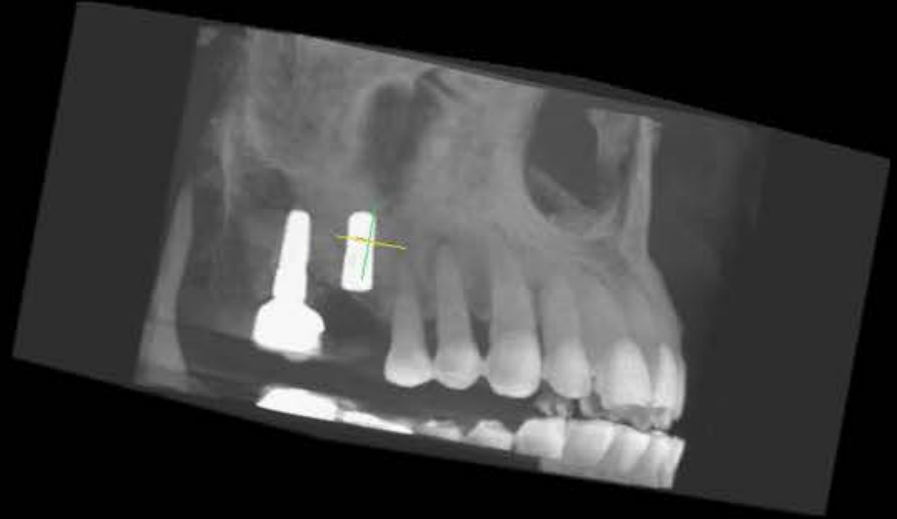
2.79 [dGy*cm^2]
4 [mA]
89 [kVp]
CT

MPR
TH 0.0mm

L



3D



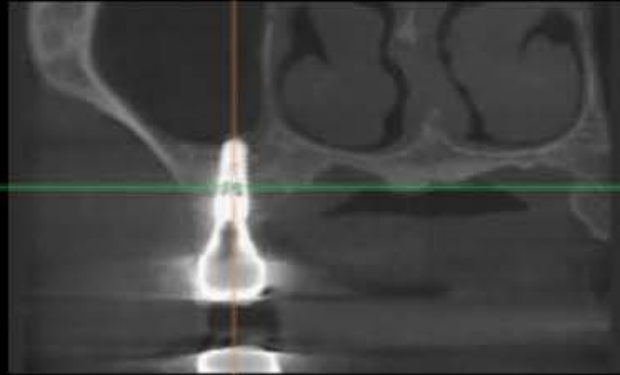
HFAPLR
MIP



Coronal

ID : 000013782
0290518 莊陳美英 [F] 077Y
20180131
Series : 1

R



2.79 [dGy*cm^2]
4 [mA]
89 [kVp]
CT

Sagittal

MPR
TH : 1.0mm
ID : 000013782
0290518 莊陳美英 [F] 077Y
20180131
Series : 1

L A



2.79 [dGy*cm^2]
4 [mA]
89 [kVp]
CT

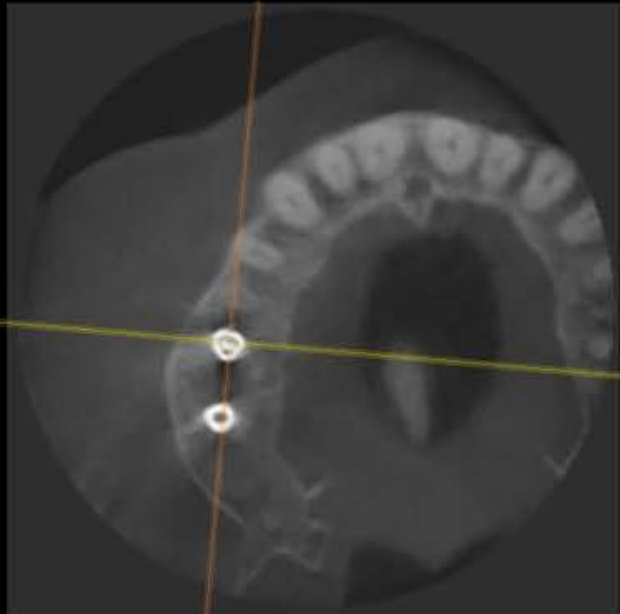
MPR
TH : 1.0mm

P

Axial

ID : 000013782
0290518 莊陳美英 [F] 077Y
20180131
Series : 1

R

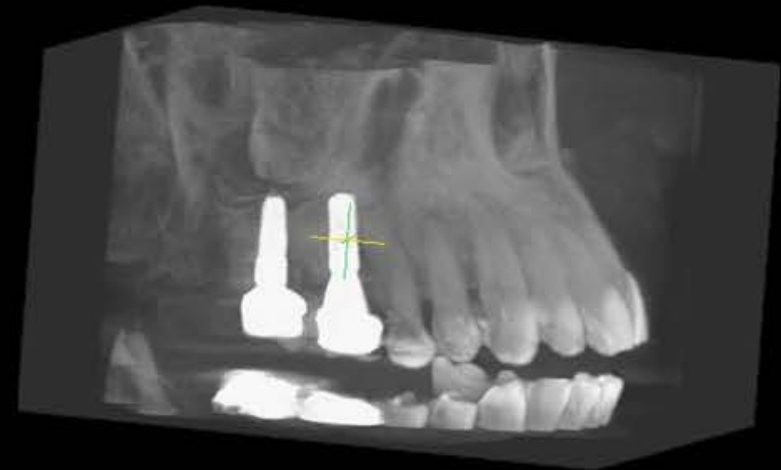


2.79 [dGy*cm^2]
4 [mA]
89 [kVp]
CT

3D

MPR
TH : 1.0mm

L



HFAPLR
MIP



26.27. CLOSED SINUS ELEVATION WITH SAFETY SURGICAL HAMMER

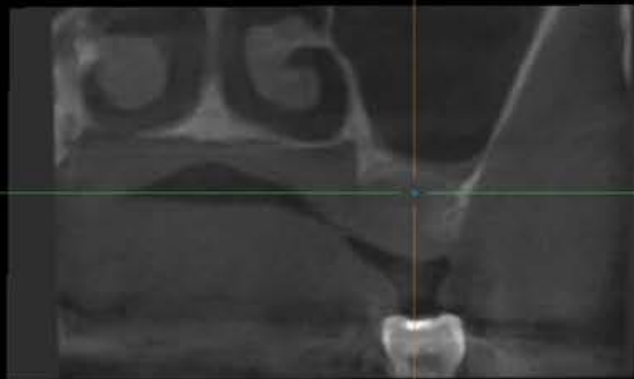
DR.JUI-YUAN SHIH

A series of several parallel white lines of varying thicknesses, slanted diagonally from the bottom left towards the top right, set against a blue gradient background.

Coronal

ID : 000010736
0680816 熊佳琳 (F) 037Y
20170503
Series : 1

R



2.79 [dGy*cm^2]
4 [mA]
89 [kVp]
CT



Sagittal

MPR
TH 0.0mm
ID : 000010736
0680816 熊佳琳 (F) 037Y
20170503
Series : 1

L



2.79 [dGy*cm^2]
4 [mA]
89 [kVp]
CT

A



MPR
TH 0.0mm

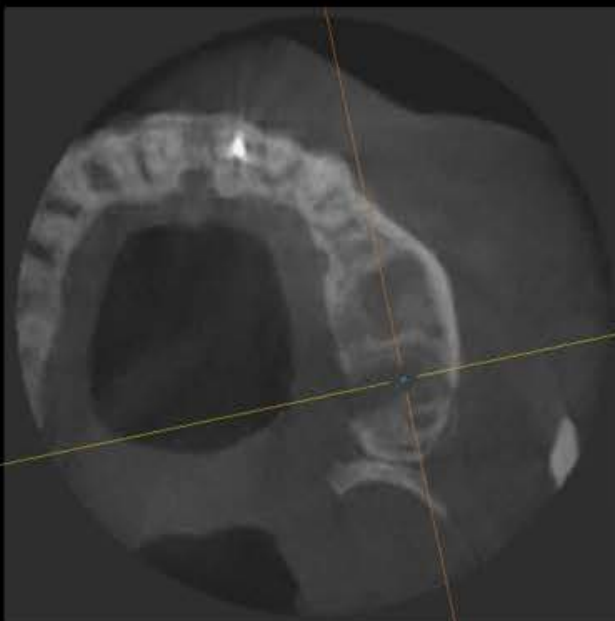
P



Axial

ID : 000010736
0680816 熊佳琳 (F) 037Y
20170503
Series : 1

R



2.79 [dGy*cm^2]
4 [mA]
89 [kVp]
CT



MPR
TH 0.0mm

L



3D



HFAPLR
MIP



Coronal

ID : 000010736
0690816 熊佳琳 (F) 037Y
20170503
Series : 1

R



12.2mm

FL

MPR
TH 0.0mm

L

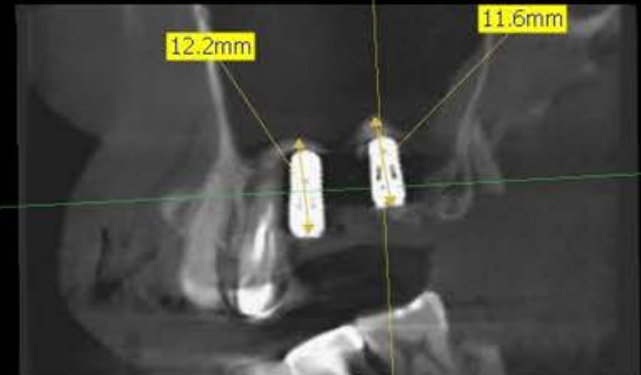


2.79 [dGy*cm^2]
4 [mA]
89 [kVp]
CT

Sagittal

ID : 000010736
0690816 熊佳琳 (F) 037Y
20170503
Series : 1

A



12.2mm

11.6mm

MPR
TH 0.0mm

P

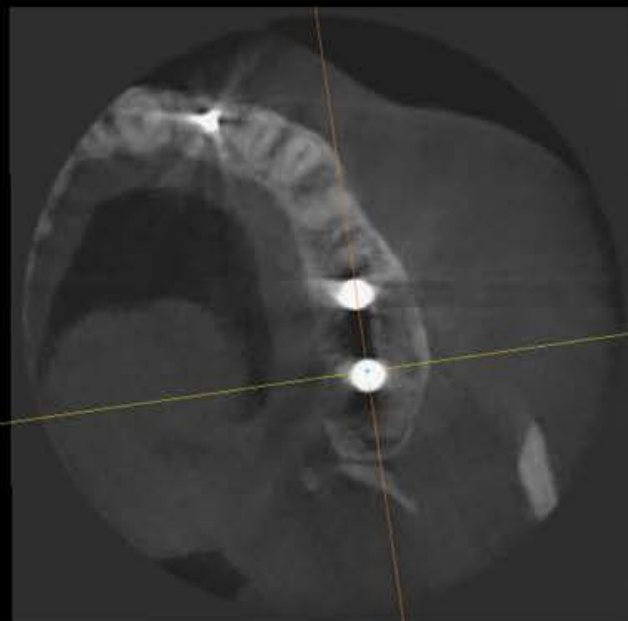


2.79 [dGy*cm^2]
4 [mA]
89 [kVp]
CT

Axial

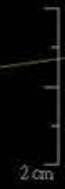
ID : 000010736
0690816 熊佳琳 (F) 037Y
20170503
Series : 1

R



MPR
TH 0.0mm

L

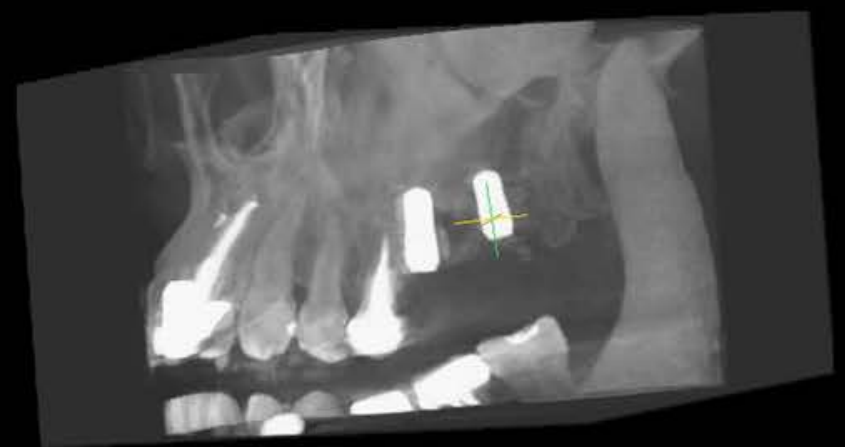


2.79 [dGy*cm^2]
4 [mA]
89 [kVp]
CT

3D

MPR
TH 0.0mm

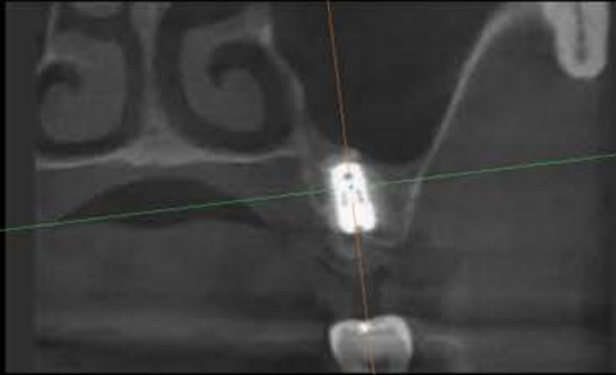
HFAPLR
MIP



Coronal

ID : 000010736
0680816 熊佳琳 (F) 038Y
20171212
Series : 1

R



2.79 [dGy*cm^2]
4 [mA]
89 [kVp]
CT

Sagittal

MPR
TH 0.0mm
ID : 000010736
0680816 熊佳琳 (F) 038Y
20171212
Series : 1

L A



2.79 [dGy*cm^2]
4 [mA]
89 [kVp]
CT

MPR
TH 0.0mm

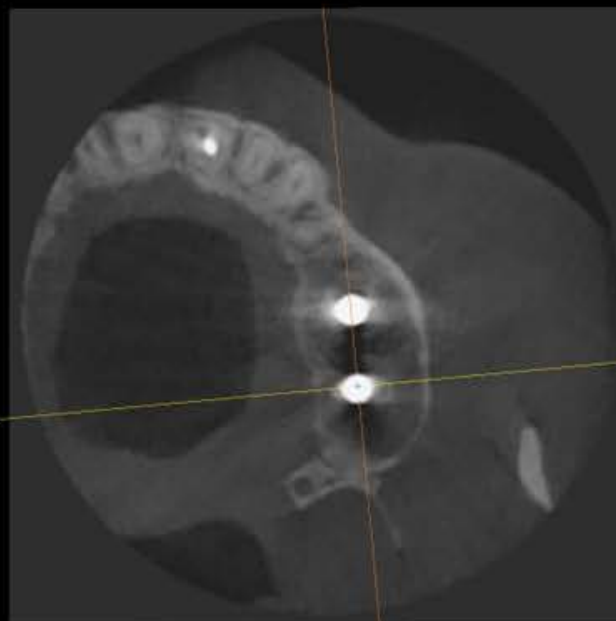
P

2.79 [dGy*cm^2]
4 [mA]
89 [kVp]
CT

Axial

ID : 000010736
0680816 熊佳琳 (F) 038Y
20171212
Series : 1

R

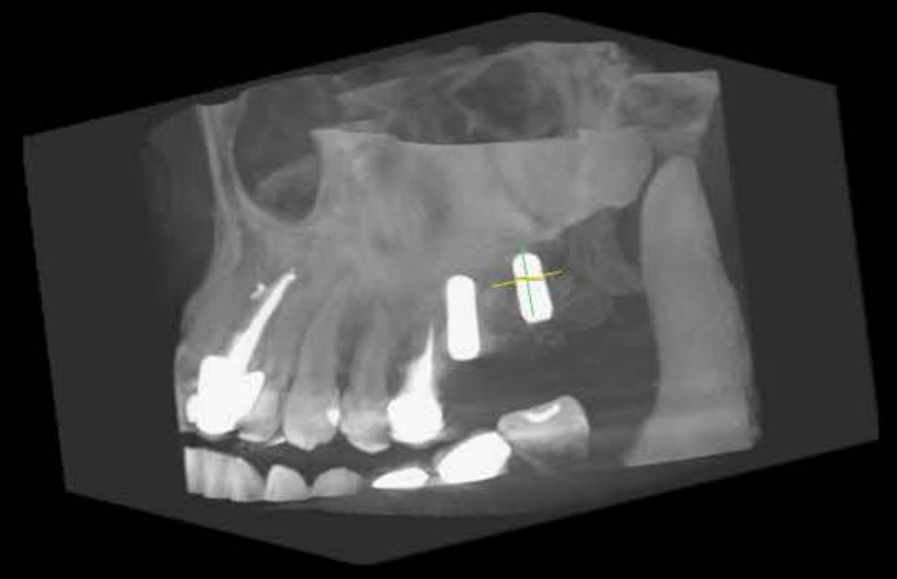


2.79 [dGy*cm^2]
4 [mA]
89 [kVp]
CT

3D

MPR
TH 0.0mm

L



2.79 [dGy*cm^2]
4 [mA]
89 [kVp]
CT

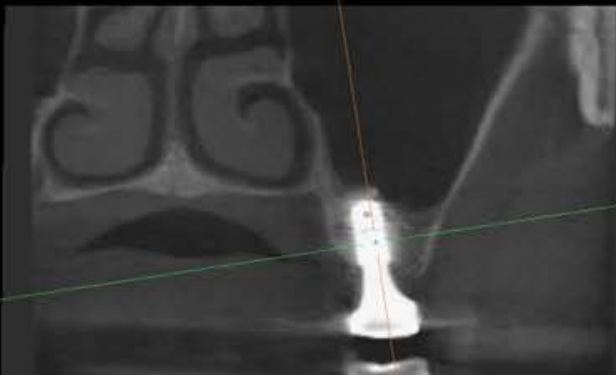
HFAPLR
MIP

2.79 [dGy*cm^2]
4 [mA]
89 [kVp]
CT

Coronal

ID : 000010736
0680816 熊佳琳 (F) 038Y
20180124
Series : 1

R



2.79 [dGy*cm^2]
4 [mA]
89 [kVp]
CT

FL

MPR
TH 0.0mm

L



Sagittal

ID : 000010736
0680816 熊佳琳 (F) 038Y
20180124
Series : 1

A



2.79 [dGy*cm^2]
4 [mA]
89 [kVp]
CT

MPR
TH 0.0mm

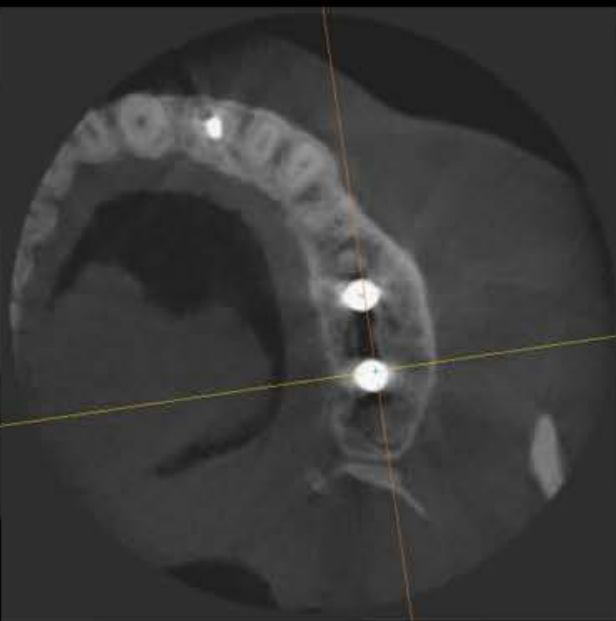
P



Axial

ID : 000010736
0680816 熊佳琳 (F) 038Y
20180124
Series : 1

R



2.79 [dGy*cm^2]
4 [mA]
89 [kVp]
CT

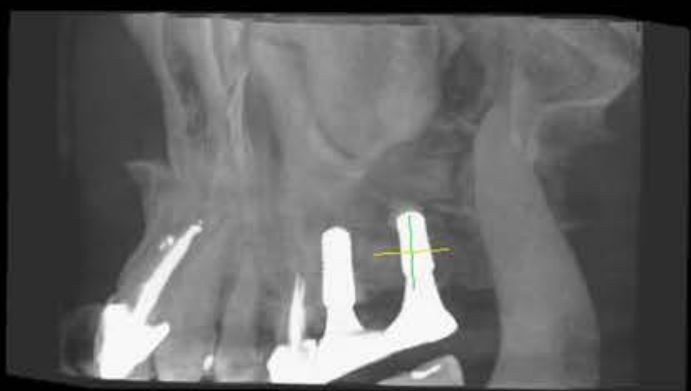
MPR
TH 0.0mm

L



3D

HFAPLR
MIP



15. CLOSED SINUS ELEVATION WITH SAFETY SURGICAL HAMMER

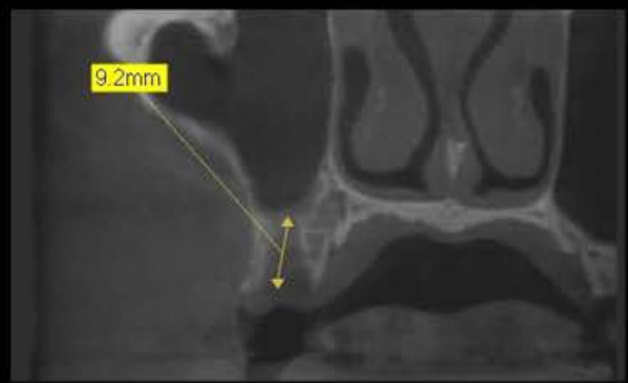
DR.JUI-YUAN SHIH

A decorative graphic consisting of several parallel white lines of varying thicknesses, slanted diagonally from the bottom left towards the top right, set against a blue gradient background.

Coronal

ID : 000021989
0601019 廖梅鳳 (F) 046Y
20171019
Series : 1

R

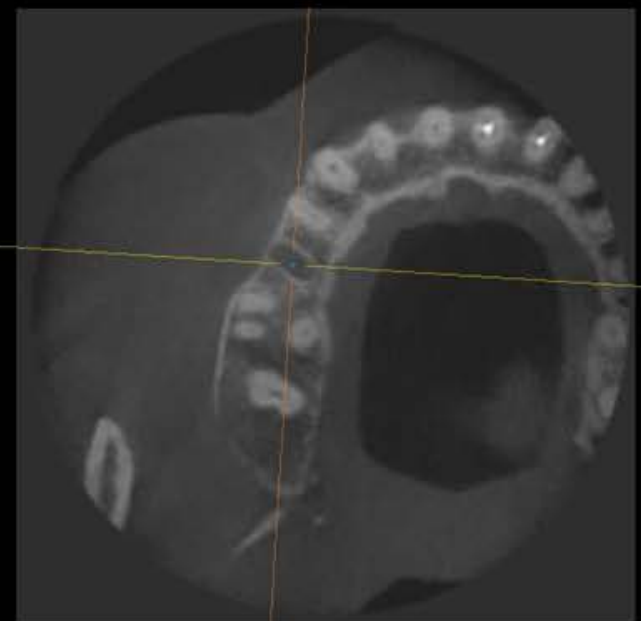


2.79 [dGy*cm^2]
4 [mA]
89 [kVp]
CT

Axial

ID : 000021989
0601019 廖梅鳳 (F) 046Y
20171019
Series : 1

R



2.79 [dGy*cm^2]
4 [mA]
89 [kVp]
CT

Sagittal

MPR
TH 0.0mm
ID : 000021989
0601019 廖梅鳳 (F) 046Y
20171019
Series : 1

L



3D

MPR
TH 0.0mm

L



Sagittal

MPR
TH 0.0mm
ID : 000021989
0601019 廖梅鳳 (F) 046Y
20171019
Series : 1

A



2.79 [dGy*cm^2]
4 [mA]
89 [kVp]
CT

3D

MPR
TH 0.0mm



MPR
TH 0.0mm

P



HFAPLR
MIP



Coronal

ID : 000021989
0601019 廖梅鳳 (F) 046Y
20171024
Series : 1

R



2.79 [dGy*cm^2]
4 [mA]
89 [kVp]
CT

Sagittal

MPR
TH 0.0mm
ID : 000021989
0601019 廖梅鳳 (F) 046Y
20171024
Series : 1

L

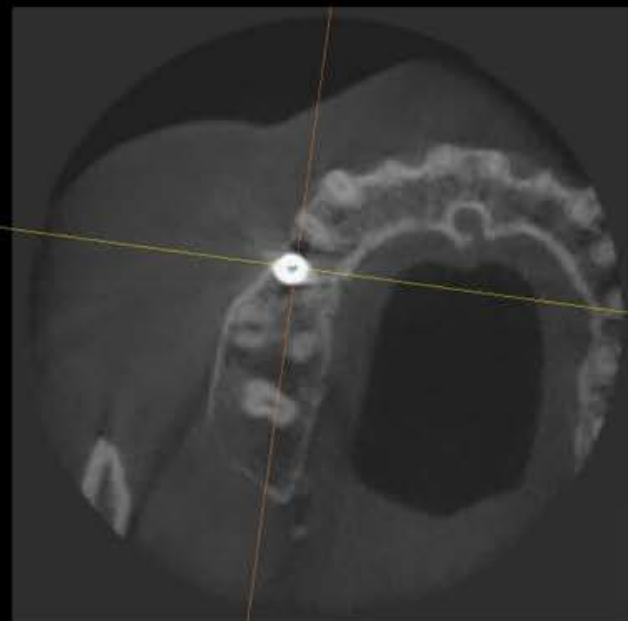


2.79 [dGy*cm^2]
4 [mA]
89 [kVp]
CT

Axial

ID : 000021989
0601019 廖梅鳳 (F) 046Y
20171024
Series : 1

R



2.79 [dGy*cm^2]
4 [mA]
89 [kVp]
CT

3D

MPR
TH 0.0mm

L



HFAPLR MIP



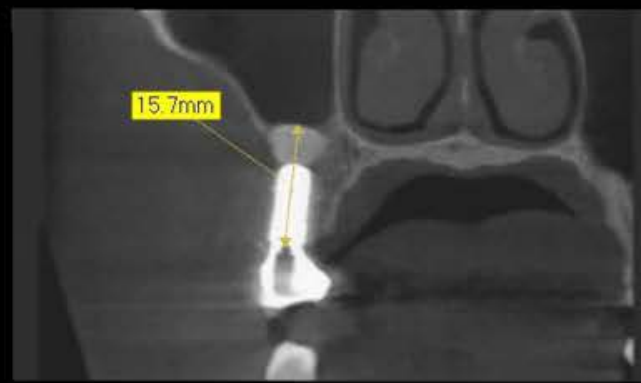
HFAPLR
MIP



Coronal

ID : 000021989
0601019 廖梅鳳 (F) 046Y
20180331
Series : 1

R

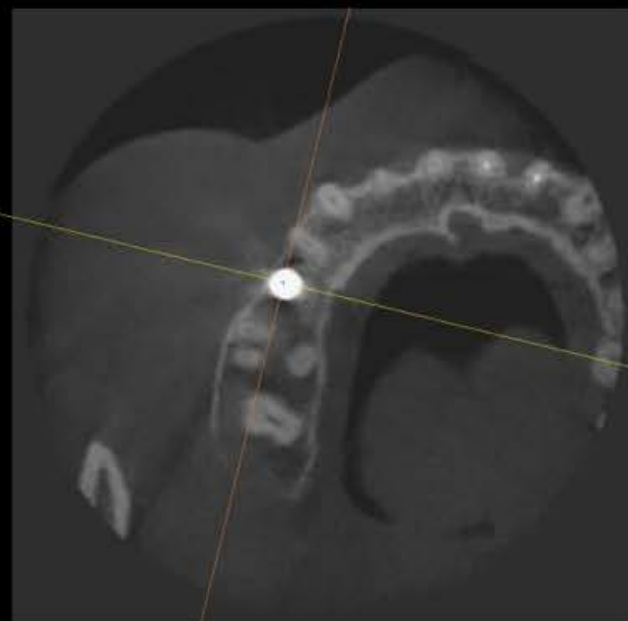


2.79 [dGy*cm^2]
4 [mA]
89 [kVp]
CT

Axial

ID : 000021989
0601019 廖梅鳳 (F) 046Y
20180331
Series : 1

R



2.79 [dGy*cm^2]
4 [mA]
89 [kVp]
CT

Sagittal

MPR
TH 0.0mm
ID : 000021989
0601019 廖梅鳳 (F) 046Y
20180331
Series : 1

L



2.79 [dGy*cm^2]
4 [mA]
89 [kVp]
CT

3D

MPR
TH 0.0mm

L



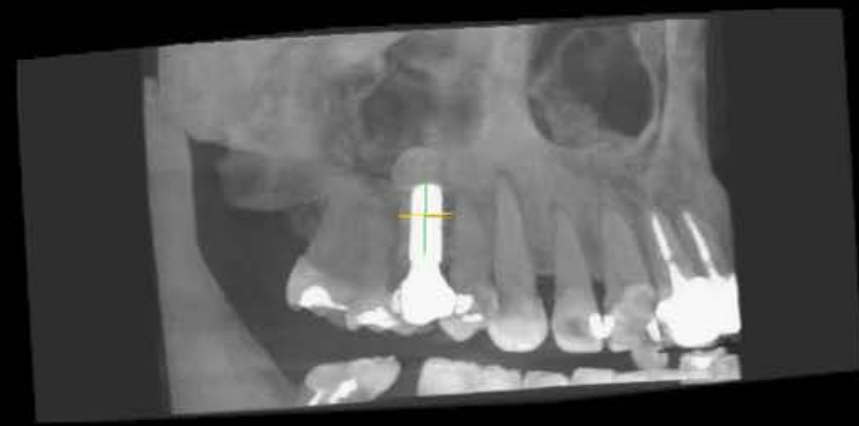
FL

MPR
TH 0.0mm

P



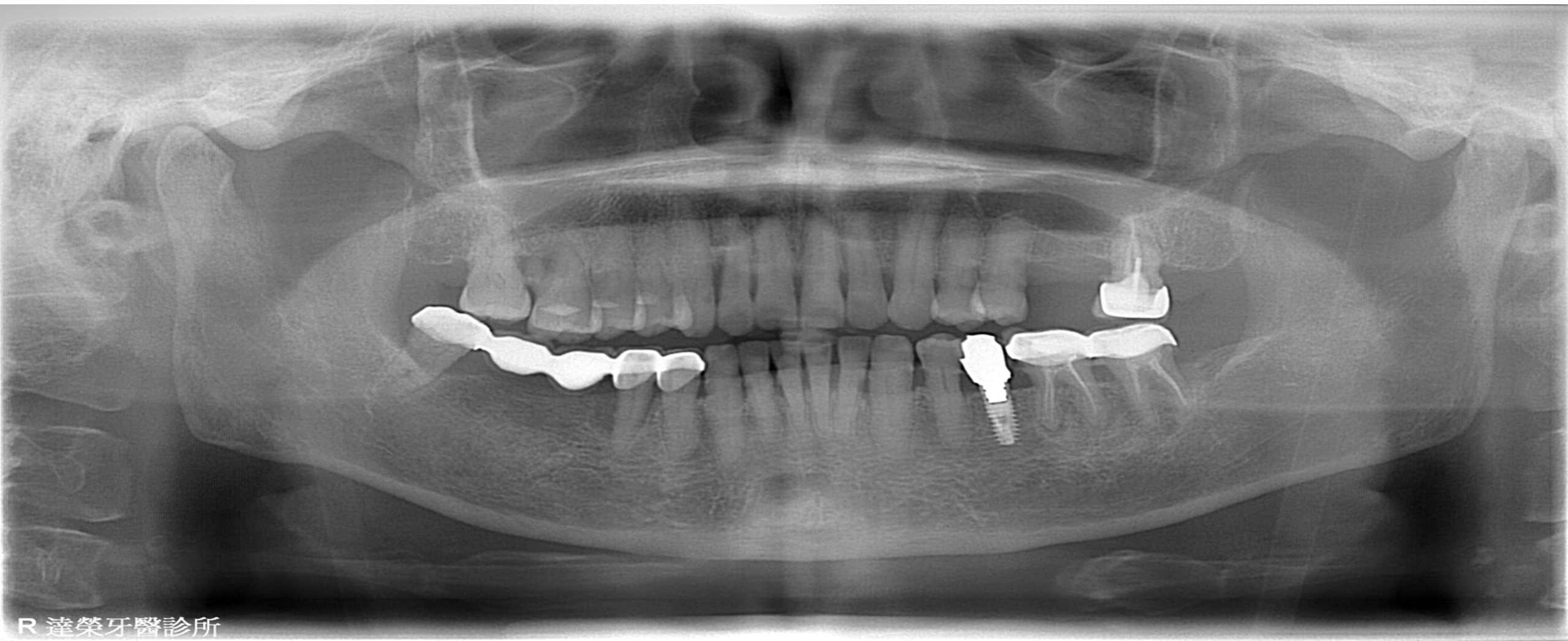
HFAPLR
MIP

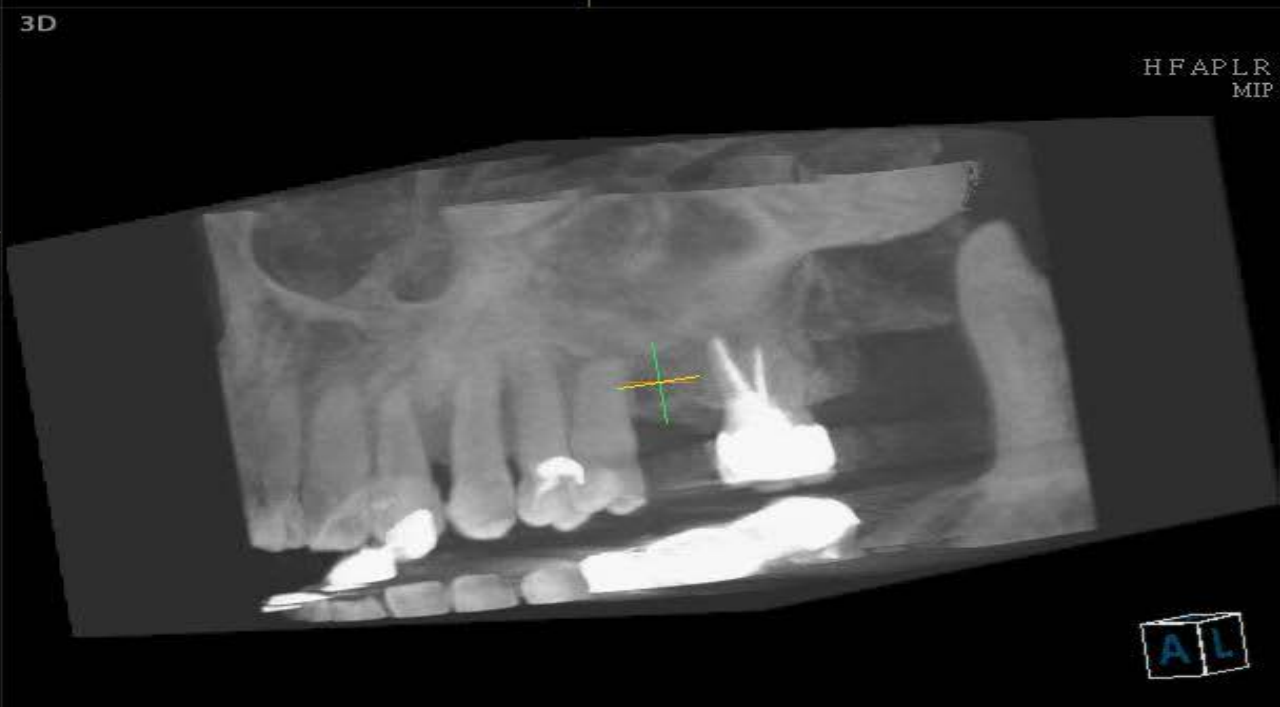
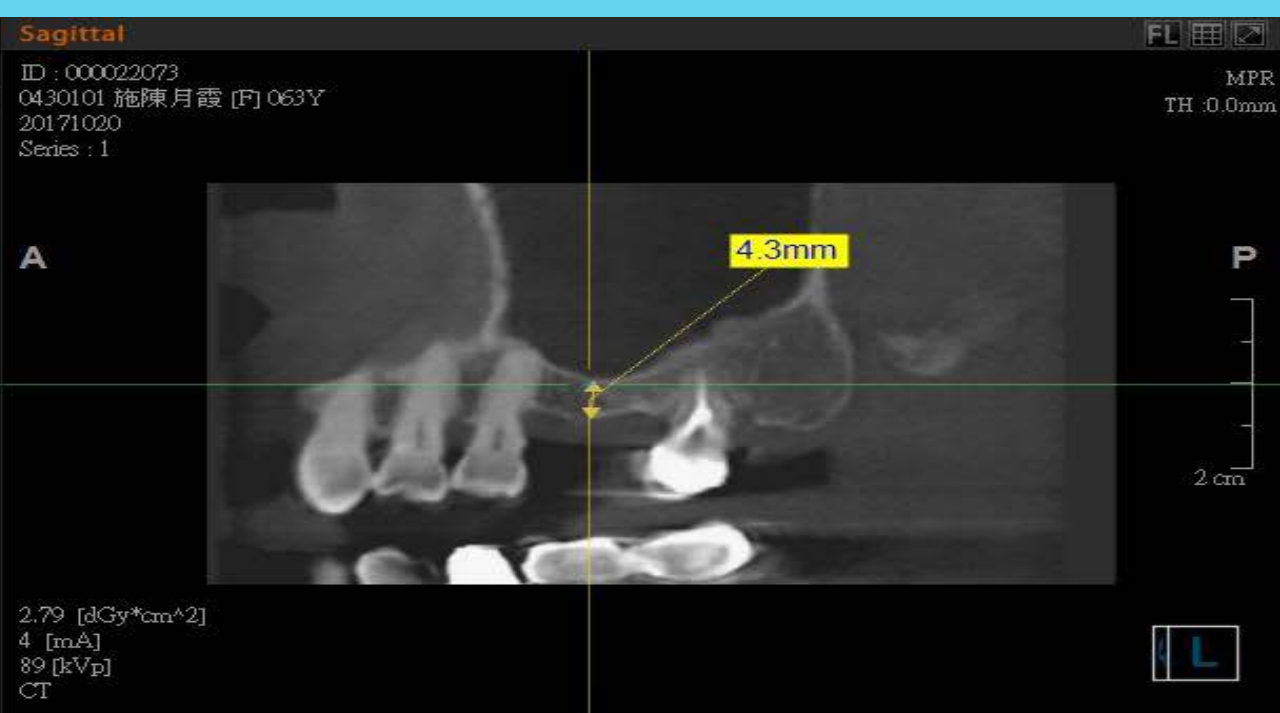


26.CLOSED SINUS ELEVATION WITH SAFETY SURGICAL HAMMER

DR.JUI-YUAN SHIH

A series of several parallel white lines of varying thicknesses, slanted diagonally from the bottom left towards the top right, set against a blue gradient background.

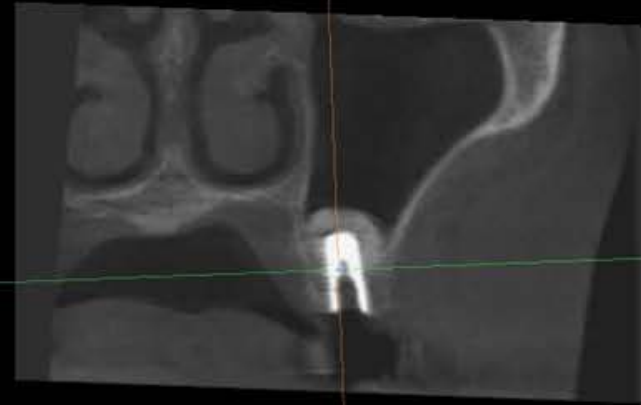




Coronal

ID : 000022073
0430101 施陳月霞 (F) 063Y
20171023
Series : 1

R



FL

MPR
TH 0.0mm

L

2 cm



2.79 [dGy*cm^2]
4 [mA]
89 [kVp]
CT

Sagittal

ID : 000022073
0430101 施陳月霞 (F) 063Y
20171023
Series : 1

A



MPR
TH 0.0mm

P

2 cm

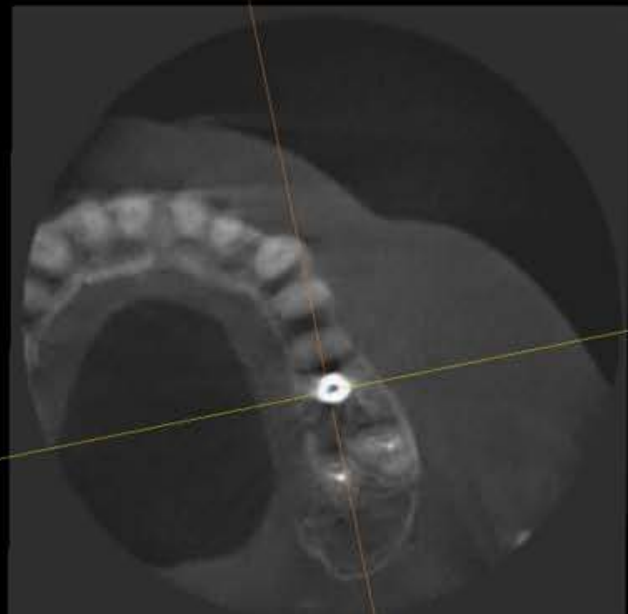


2.79 [dGy*cm^2]
4 [mA]
89 [kVp]
CT

Axial

ID : 000022073
0430101 施陳月霞 (F) 063Y
20171023
Series : 1

R



MPR
TH 0.0mm

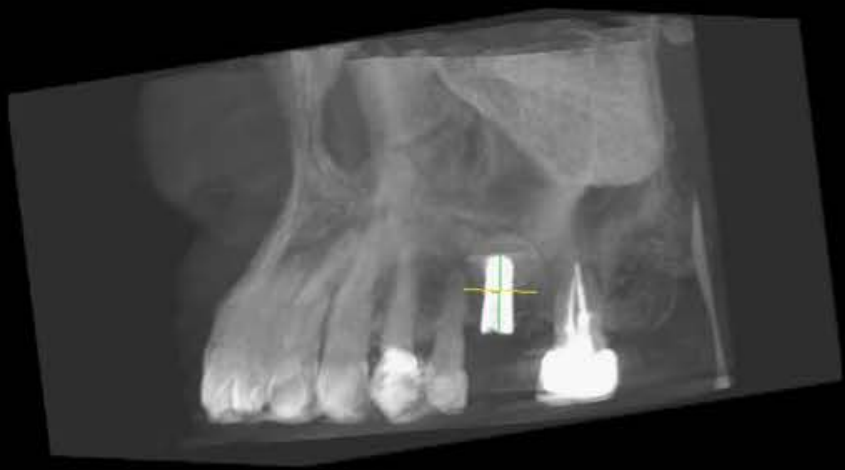
L

2 cm



2.79 [dGy*cm^2]
4 [mA]
89 [kVp]
CT

3D



HFAPLR
MIP



Coronal

ID : 000022073
0430101 施陳月霞 [F] 064Y
20180508
Series : 1

R



MPR
TH :0.0mm

L

2 cm



2.79 [dGy*cm^2]
4 [mA]
89 [kVp]
CT

Sagittal

ID : 000022073
0430101 施陳月霞 [F] 064Y
20180508
Series : 1

A



MPR
TH :0.0mm

P

2 cm

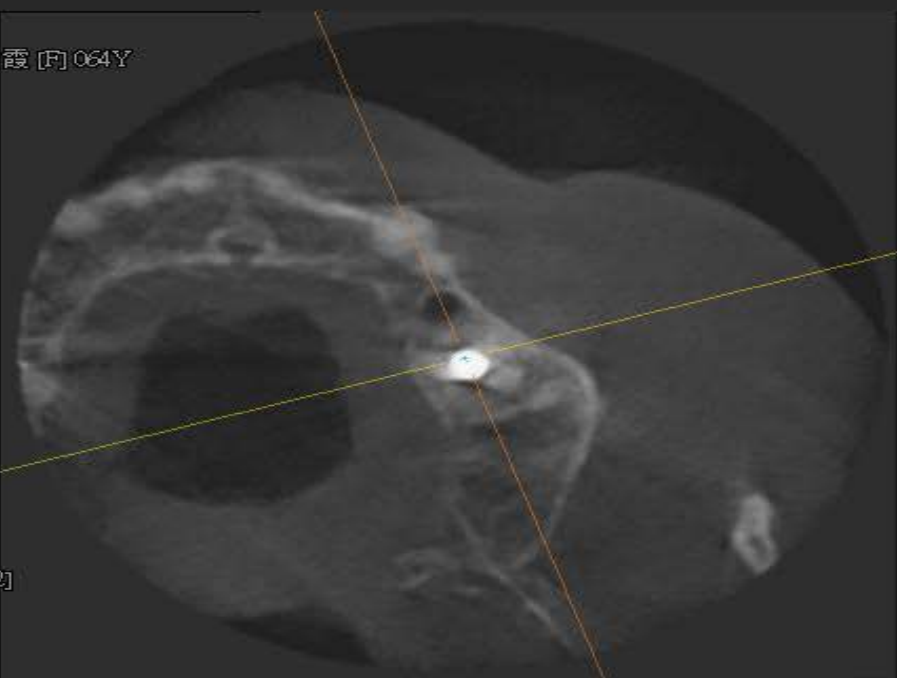


2.79 [dGy*cm^2]
4 [mA]
89 [kVp]
CT

Axial

ID : 000022073
0430101 施陳月霞 [F] 064Y
20180508
Series : 1

R



FL

MPR
TH :0.0mm

L

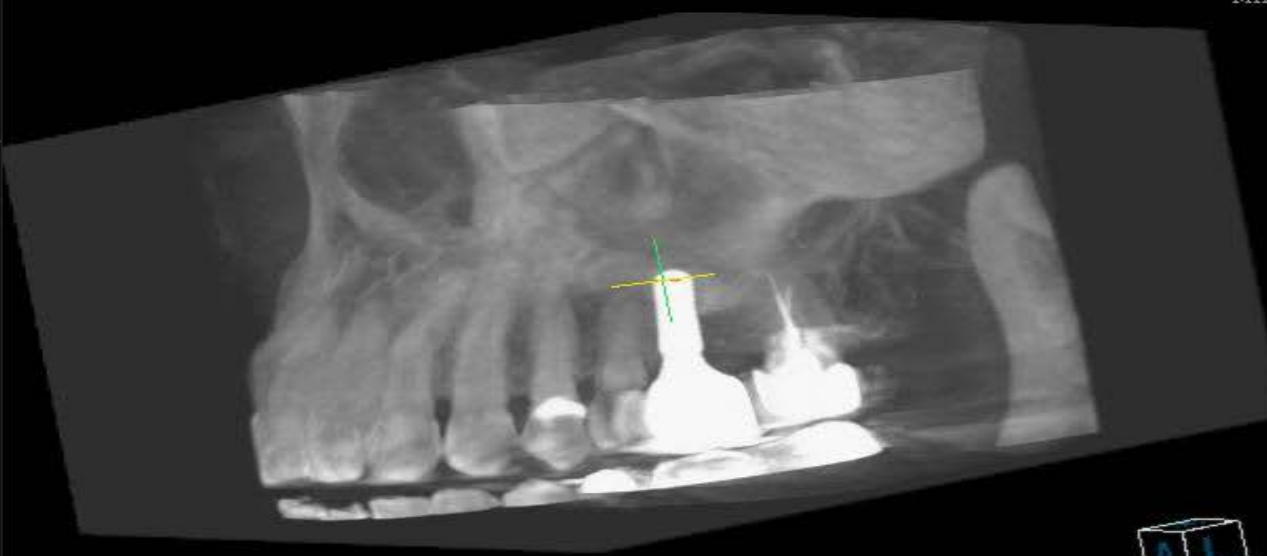
2 cm



2.79 [dGy*cm^2]
4 [mA]
89 [kVp]
CT

3D

HFAPLR
MIP

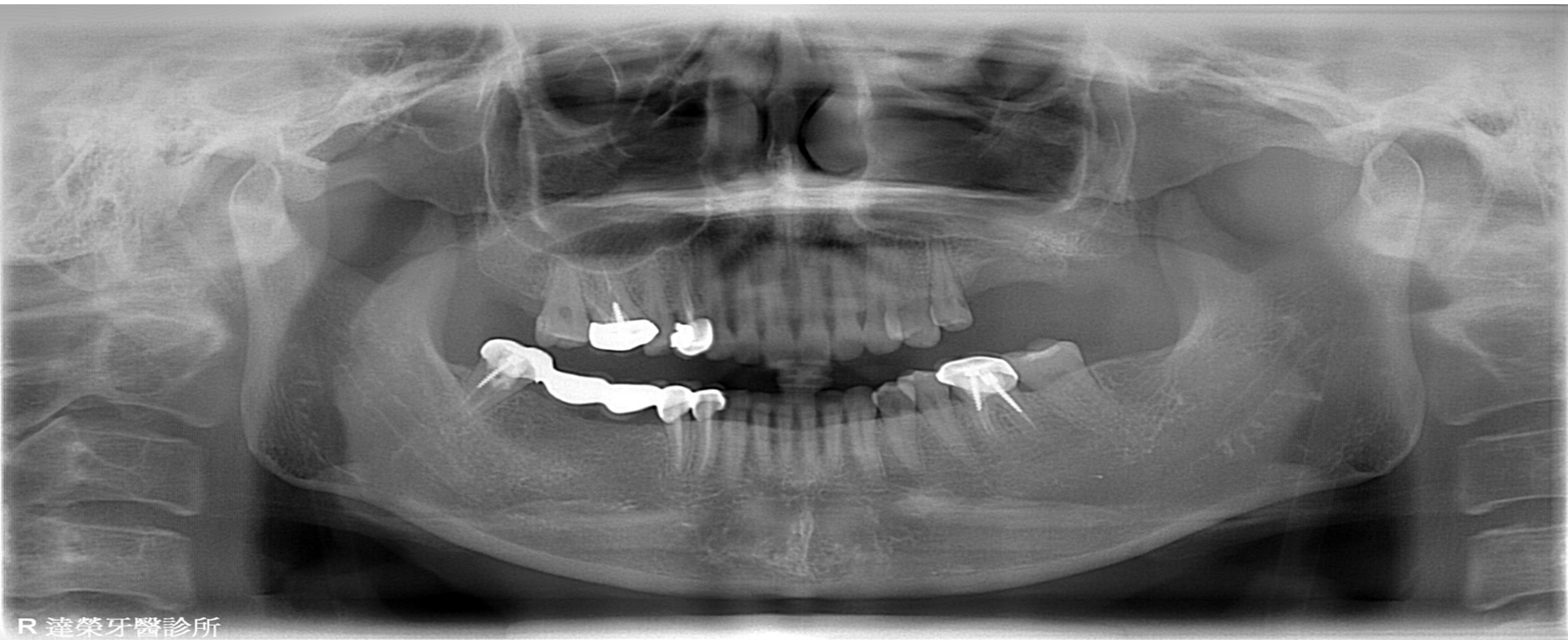


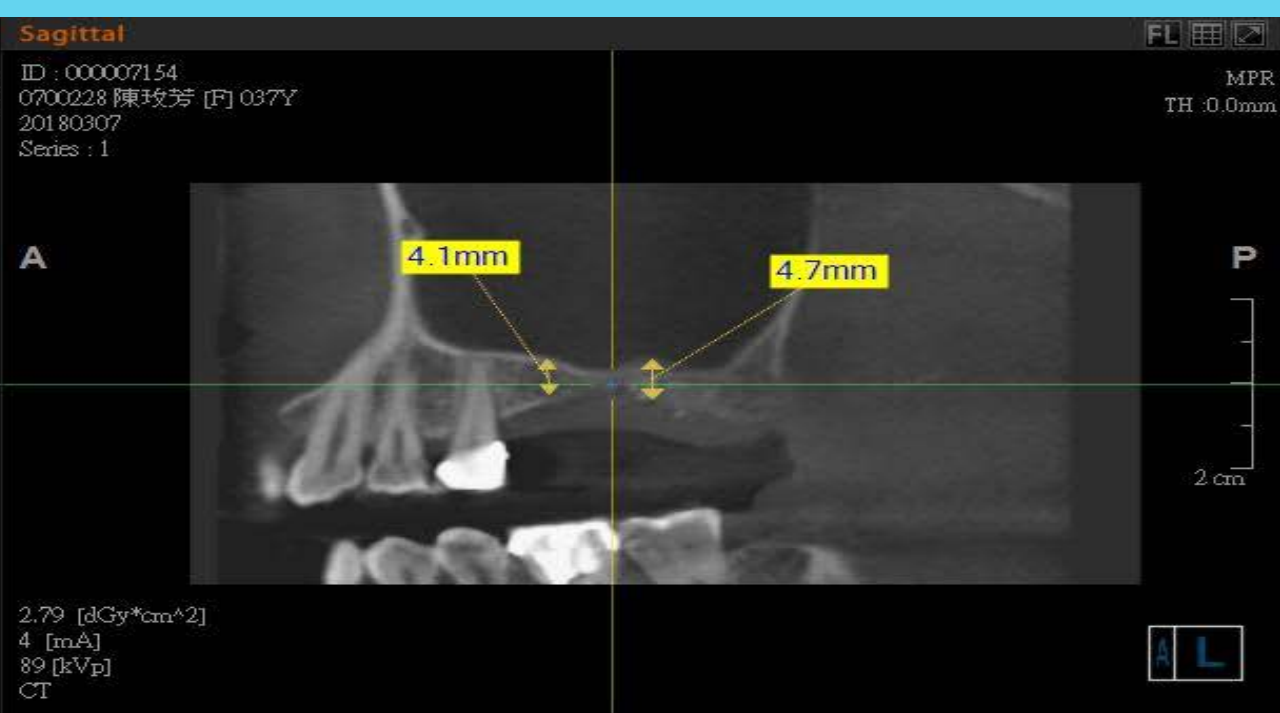
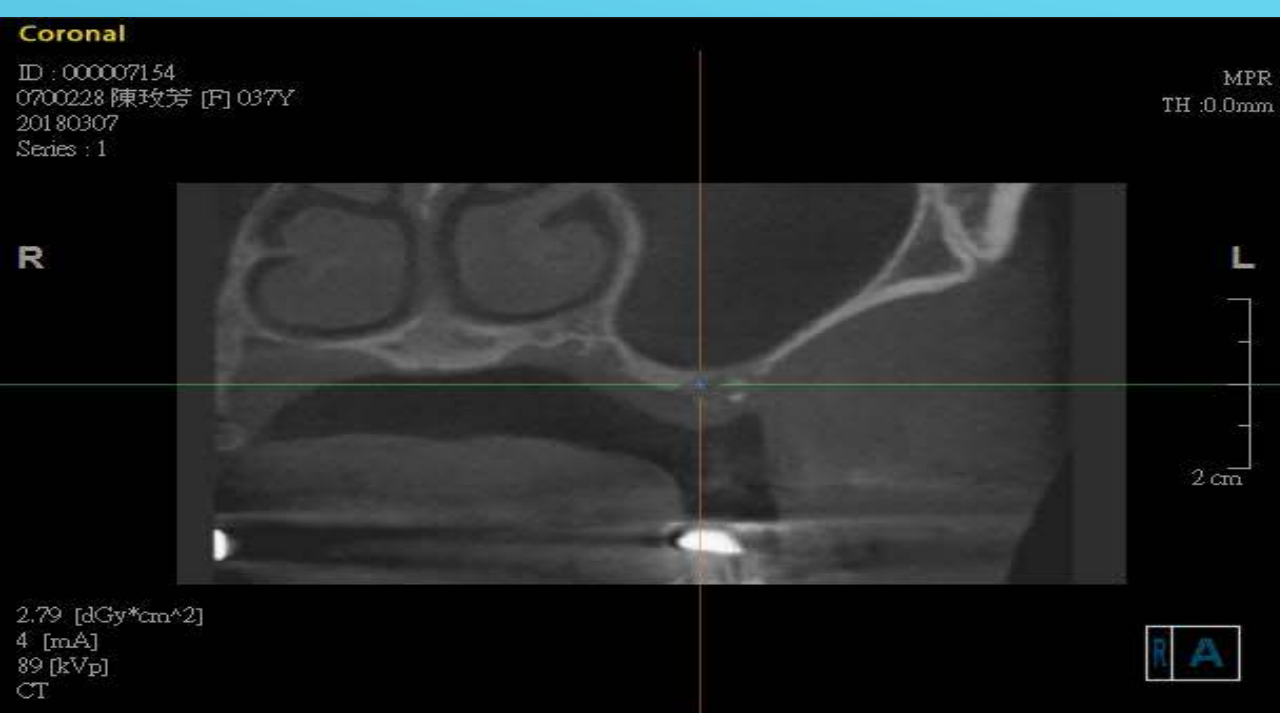


26.27. CLOSED SINUS ELEVATION WITH SAFETY SURGICAL HAMMER

DR.JUI-YUAN SHIH

A series of several parallel white lines of varying thicknesses, slanted diagonally from the bottom-left towards the top-right, located on the right side of the slide.

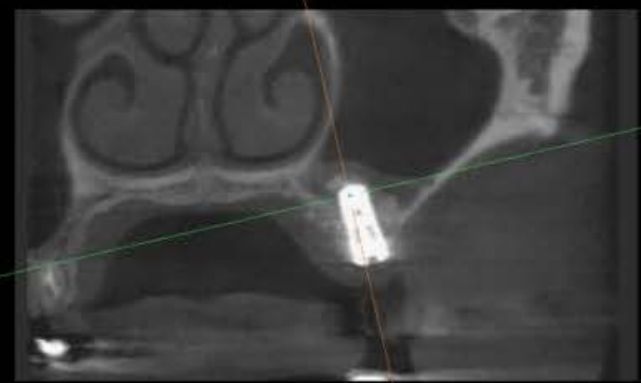




Coronal

ID : 000007154
0700228 陳玟芳 (F) 037Y
20180409
Series : 1

R



Sagittal

MPR
TH 0.0mm
ID : 000007154
0700228 陳玟芳 (F) 037Y
20180409
Series : 1

L



2.79 [dGy*cm^2]
4 [mA]
89 [kVp]
CT

3D

MPR
TH 0.0mm

L

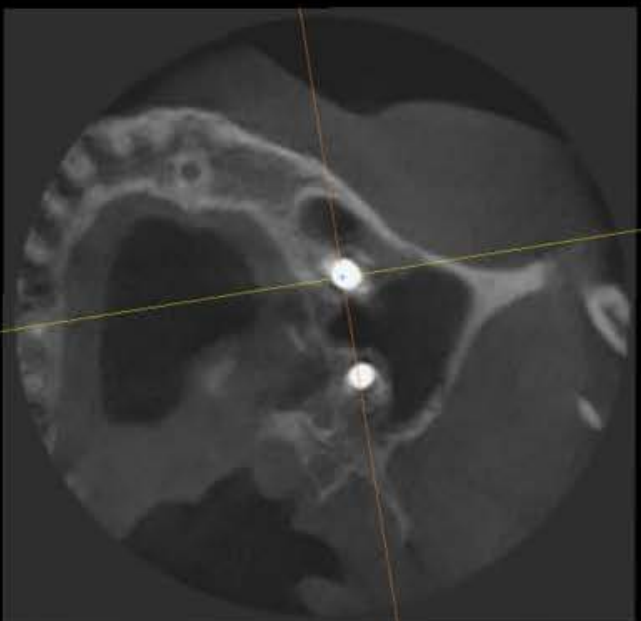


2.79 [dGy*cm^2]
4 [mA]
89 [kVp]
CT

Axial

ID : 000007154
0700228 陳玟芳 (F) 037Y
20180409
Series : 1

R



2.79 [dGy*cm^2]
4 [mA]
89 [kVp]
CT

A

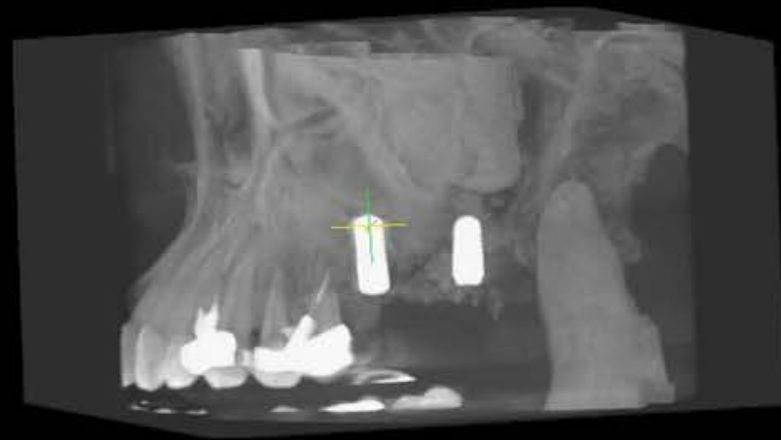


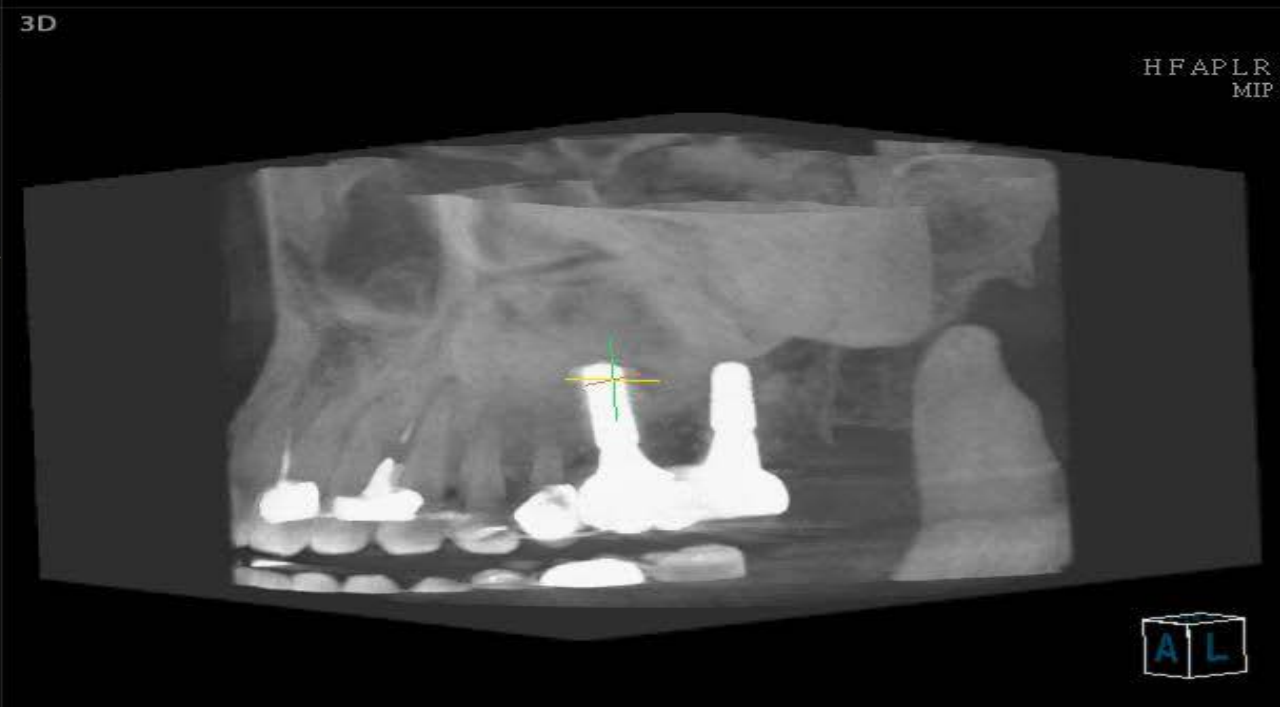
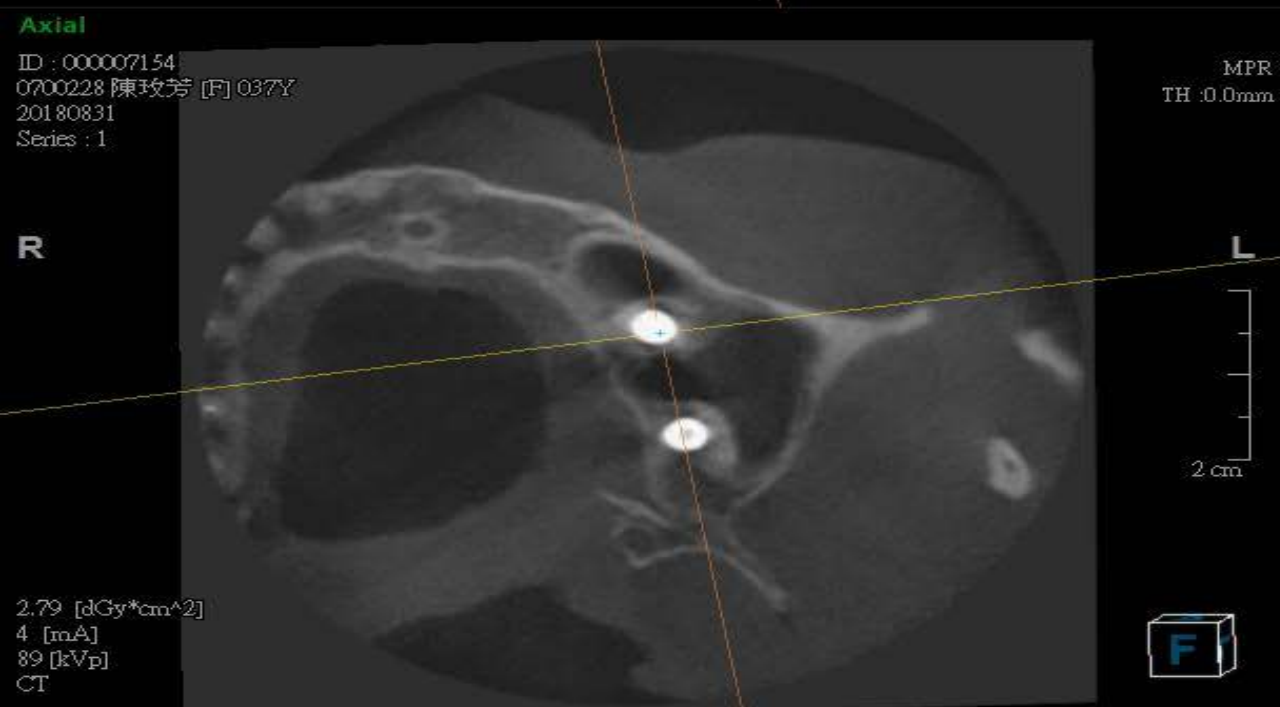
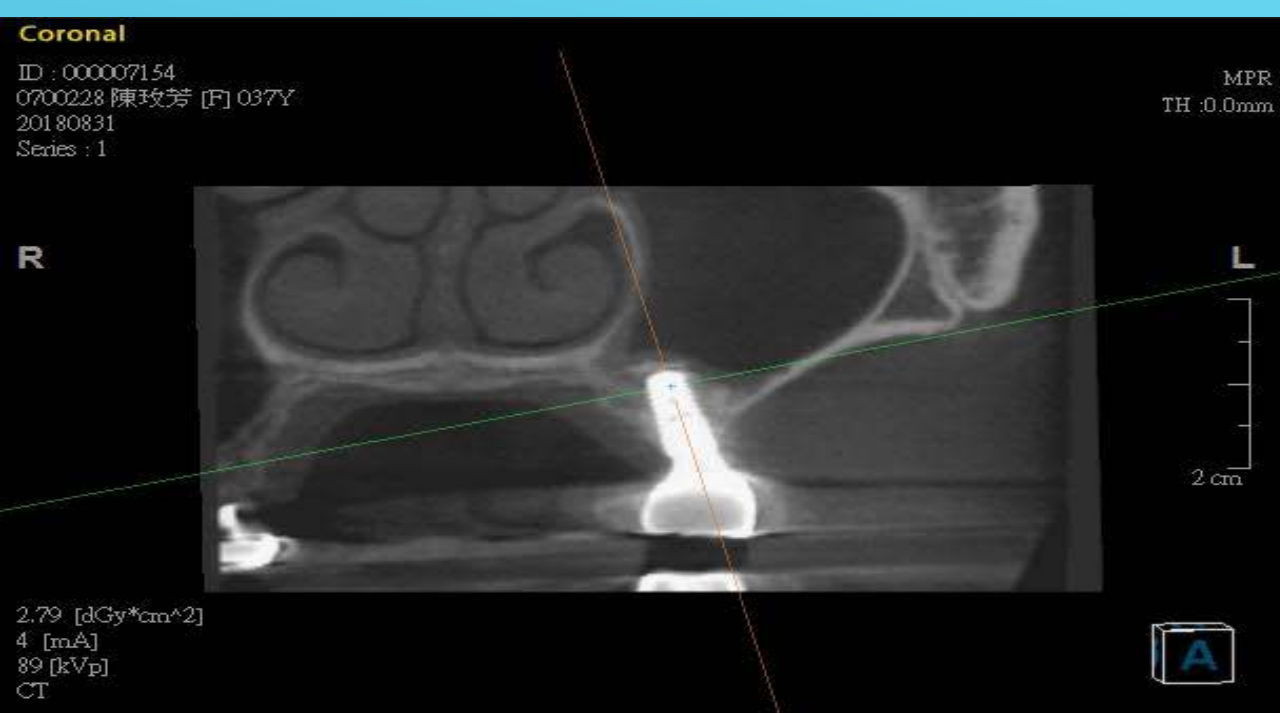
MPR
TH 0.0mm

P



HFAPLR
MIP







The benefit of using safety surgical hammer

- Control the striking force, prevent surgical complication.
- Improve the success rate of closed sinus lift.

Thank you for your attention.

We sincerely hope this safety surgical hammer can be a good instrument in you daily surgical practice, and doing well for your patient.