

TSA®

Phibo's original
internal connection

The first connection designed by Phibo®

- Internal connection
- Ideal for posterior sectors
- A reliable prosthetic connection



Surface Avantblast[®]

Guarantees restoration stability in short term, medium and long term.

Avantblast is the surface that characterises the TSA[®] implant, contributing **excellent bone-implant fusion stability**.

Avantblast[®] has been [endorsed scientifically*](#). It has seen 20 years of use and millions of patients who have benefitted.

TSA®: Design of the implant

Creation of the emergence profile of 1.5 mm for:

- Care, conformation and maintenance of bone and soft tissues
- Ensures tissue stabilities



The body of the TSA® implant is self-tapping offering this main characteristics:

- Minimally invasive characteristics
- Directional tapping, to facilitate implant insertion and shorten the surgical times
- Reduction of the increase in bone temperature during implant insertion
- Biomechanical stimulation of the bone tissue
- Maximum implant stability upon insertion

A versatile, easy and reliable prosthetic connection

ProUnic Advance abutment, with a single screw for single and multiple screwed restorations.

It presents angulations in the upper cone **to overcome disparallelisms of up to 30° between implants.**

- Greater stability
- Improved load distribution
- Increased durability of the implant and prosthesis
- Soft tissue care



ProUnic Advance
Abutment

- Angulations of the upper cone to overcome disparallelisms of up to 30° between implants
- Color code
- Single screw



The advantages of digitalization

Optimises all the solutions of a customised prosthesis.

TSA[®] has been designed for integration on a workflow that is 100% digital. More simple rehabilitations which provides more accurate results.



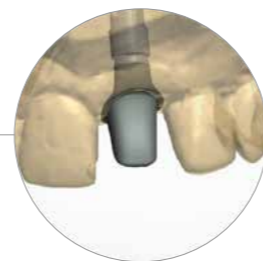
Designing smiles



Implant system



Digital data collection



Restoration design

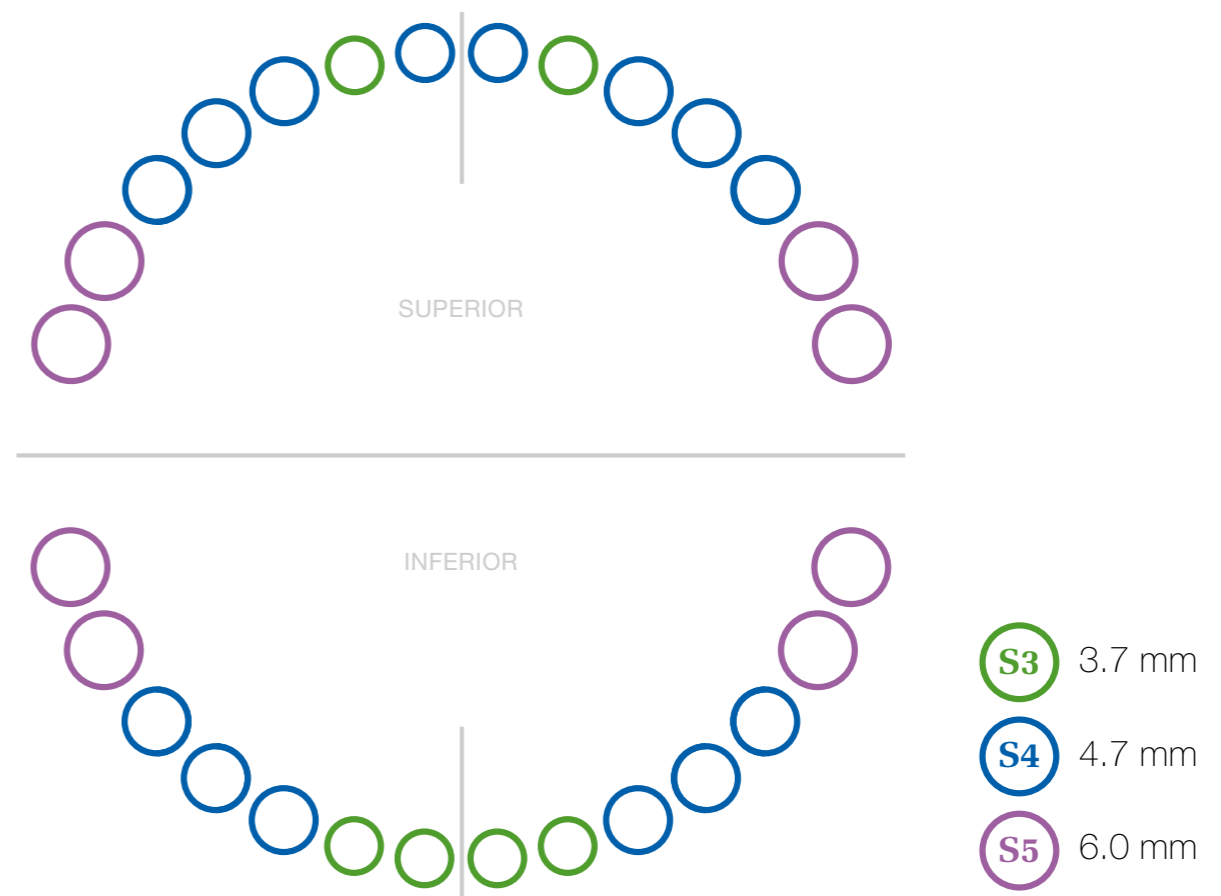


Prosthesis production



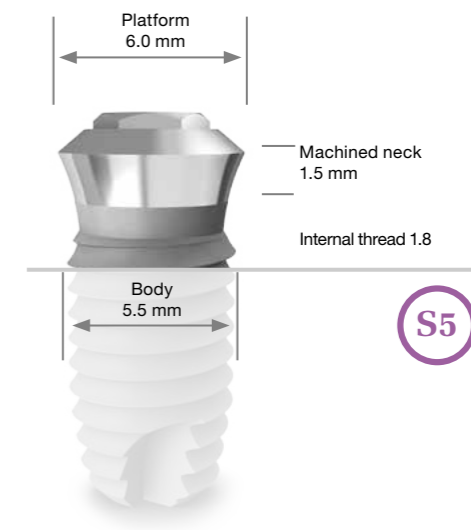
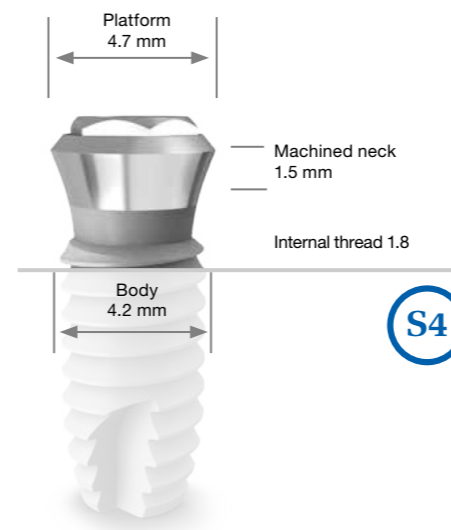
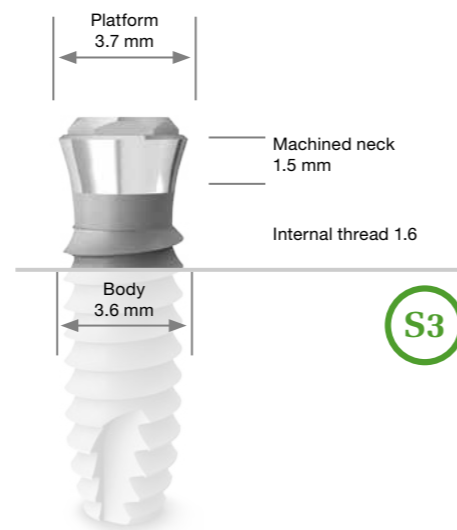
Final tooth

Insertion sectors



Platforms and dimensions

The TSA® implant is designed to position the implant shoulder 1.5 mm above the bone crest, leaving the neck length as a biological space. The drilling length for implant insertion is the total length of the implant, minus 1.5 mm.



Heights and references

S3



Reference	Length
TSA 03.085	8.5 mm
TSA 03.100	10.0 mm
TSA 03.115	11.5 mm
TSA 03.130	13.0 mm
TSA 03.145	14.5 mm
TSA 03.160	16.0 mm

S4



Reference	Length
TSA 04.085	8.5 mm
TSA 04.100	10.0 mm
TSA 04.115	11.5 mm
TSA 04.130	13.0 mm
TSA 04.145	14.5 mm
TSA 04.160	16.0 mm

S5



Reference	Length
TSA 05.085	8.5 mm
TSA 05.100	10.0 mm
TSA 05.115	11.5 mm
TSA 05.130	13.0 mm

The information contained in this document is exclusively for health professionals. TSA® has the CE marking and complies with the European Directive 93/42 / EEC of Medical Devices. The availability of TSA® portfolio is subject to the availability of relevant medical records under the applicable regulation in each country.

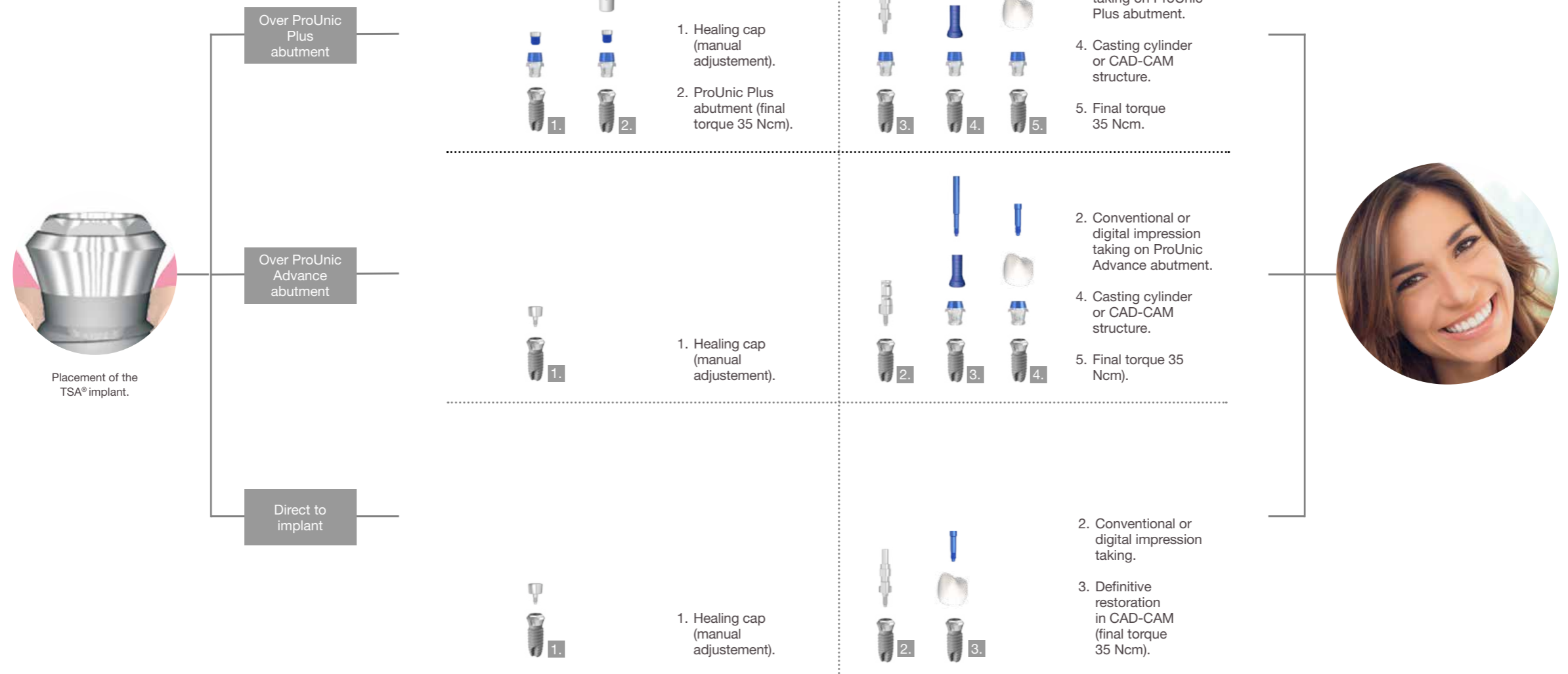


Heights and
References

General
Characteristics

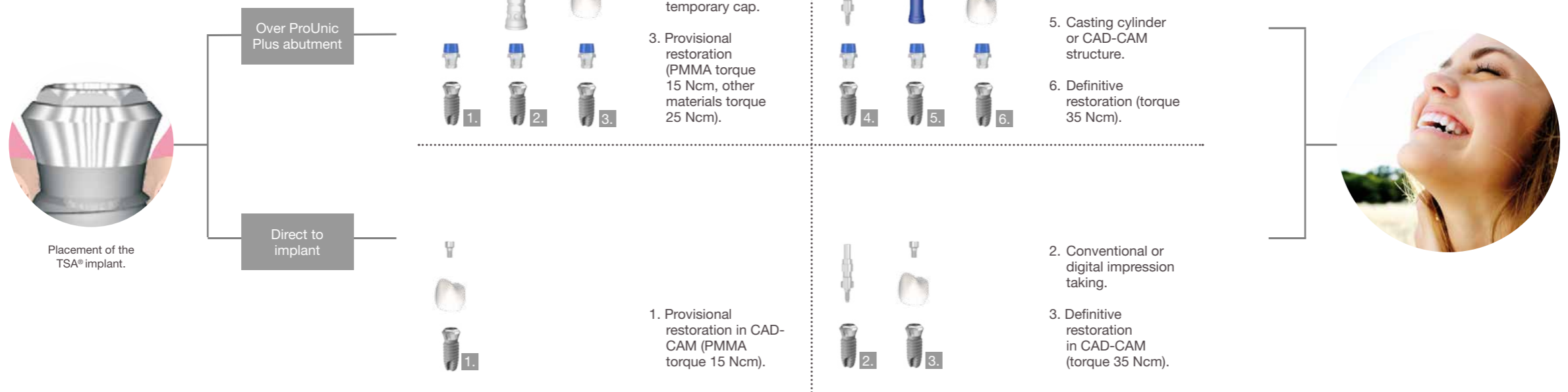
Restoration guide

Single unit and multiple screwed solutions



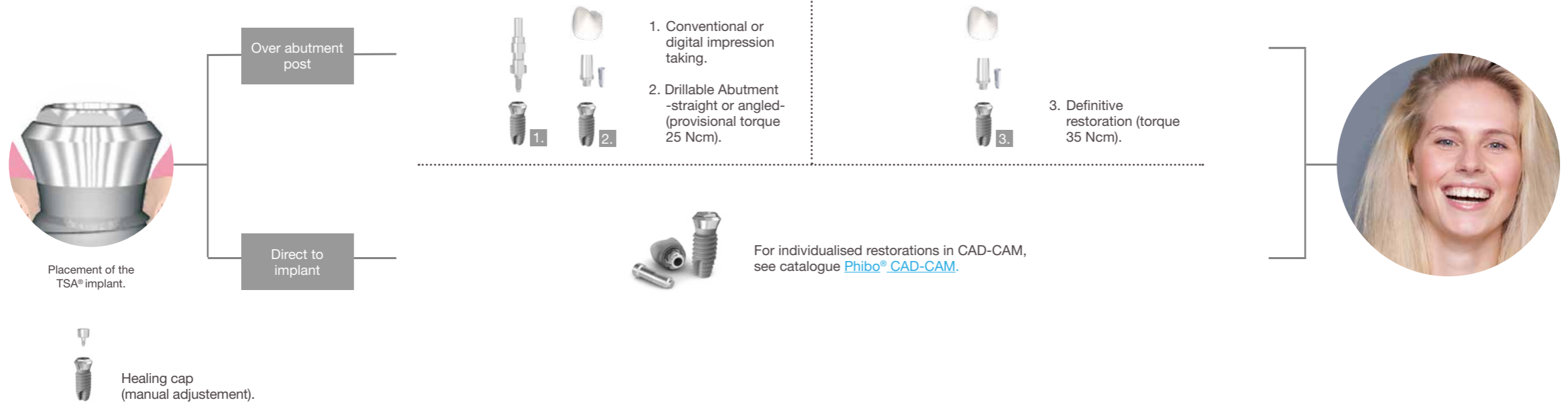
Restoration guide

Immediate aesthetic effect



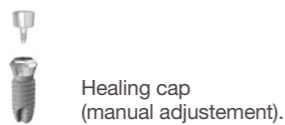
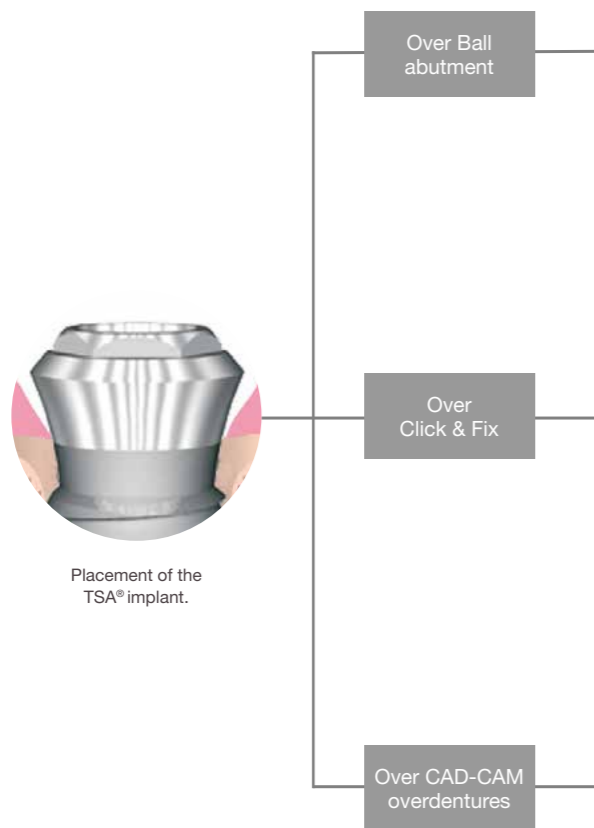
Restoration guide

Single unit and multiple cemented solutions



Restoration guide

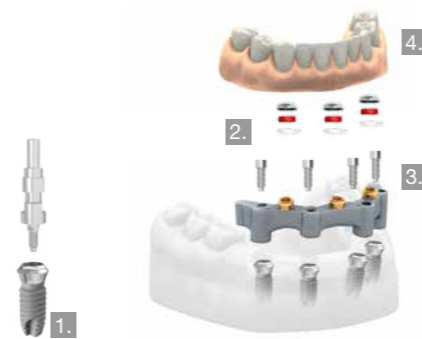
Overdentures restorations



1. Conventional or digital impression taking.
2. Ball abutment (torque 35 Ncm).
3. Provisional or definitive restoration.



1. Click & Fix abutment (torque 30 Ncm).
2. Conventional or digital impression taking.
3. Provisional or definitive restoration.



1. Conventional or digital impression taking.
2. Click & Fix abutment over bar (torque 30 Ncm).
3. Bar screw to implant (torque 35 Ncm).
4. Provisional or definitive restoration.



References

Restorations

Healing abutments



010.3015	TSA® S3 1.5mm Healing Abutment
010.3030	TSA® S3 3.0mm Healing Abutment
010.3050	TSA® S3 5.0mm Healing Abutment
010.3070	TSA® S3 7.0mm Healing Abutment
010.4015	TSA® S4 1.5mm Healing Abutment
010.4030	TSA® S4 3.0mm Healing Abutment
010.4050	TSA® S4 5.0mm Healing Abutment
010.4070	TSA® S4 7.0mm Healing Abutment
010.5015	TSA® S5 1.5mm Healing Abutment
010.5030	TSA® S5 3.0mm Healing Abutment
010.5050	TSA® S5 5.0mm Healing Abutment

Standard screwed restorations

TSA® ProUnic Plus Abutments



013.3000	TSA® S3 ProUnic Plus Abutment
013.4000	TSA® S4 ProUnic Plus Abutment
013.5000	TSA® S5 ProUnic Plus Abutment
014.3010	TSA® S3 1.0mm Transgingival ProUnic Plus Abut.
014.3020	TSA® S3 2.0mm Transgingival ProUnic Plus Abut.
014.3030	TSA® S3 3.0mm Transgingival ProUnic Plus Abut.
014.4010	TSA® S4 1.0mm Transgingival ProUnic Plus Abut.
014.4020	TSA® S4 2.0mm Transgingival ProUnic Plus Abut.

Standard screwed restorations

TSA® ProUnic Plus Abutments



014.4030	TSA® S4 3.0mm Transgingival ProUnic Plus Abut.
014.5010	TSA® S5 1.0mm Transgingival ProUnic Plus Abut.

Final clinical screws for TSA® ProUnic Plus Abutments



019.3000	TSA® S3 ProUnic Plus Clinical Screw
019.4000	TSA® S4 ProUnic Plus Clinical Screw
019.5000	TSA® S5 ProUnic Plus Clinical Screw

TSA® ProUnic Advance Abutments



052.3001	TSA® S3 ProUnic Advance Abutment
052.3110	TSA® S3 1.0mm Transgingival ProUnic Advance Abut.
052.3120	TSA® S3 2.0mm Transgingival ProUnic Advance Abut.
052.3130	TSA® S3 3.0mm Transgingival ProUnic Advance Abut.
052.4001	TSA® S4 ProUnic Advance Abutment
052.4110	TSA® S4 1.0mm Transgingival ProUnic Advance Abut.
052.4120	TSA® S4 2.0mm Transgingival ProUnic Advance Abut.
052.4130	TSA® S4 3.0mm Transgingival ProUnic Advance Abut.
052.5001	TSA® S5 ProUnic Advance Abutment
052.5110	TSA® S5 1.0mm Transgingival ProUnic Advance Abut.

References

Standard screwed restorations

Final clinical screws for TSA® ProUnic Advance Abutments



055.3000	TSA® S3 ProUnic Advance Prosthetic Screw
055.3010	TSA® S3 1.0mm ProUnic Advance Prosthetic Screw
055.3020	TSA® S3 2.0mm ProUnic Advance Prosthetic Screw
055.3030	TSA® S3 3.0mm ProUnic Advance Prosthetic Screw
055.4000	TSA® S4 ProUnic Advance Prosthetic Screw
055.4010	TSA® S4 1.0mm ProUnic Advance Prosthetic Screw
055.4020	TSA® S4 2.0mm ProUnic Advance Prosthetic Screw
055.4030	TSA® S4 3.0mm ProUnic Advance Prosthetic Screw
055.5000	TSA® S5 ProUnic Advance Prosthetic Screw
055.5010	TSA® S5 1.0mm ProUnic Advance Prosthetic Screw

Standard cemented restorations

Abutment Posts



038.3000	TSA® S3 Abutment Post
038.3005	TSA® S3 0.5mm Abutment Post
038.3015	TSA® S3 1.5mm Abutment Post
038.3030	TSA® S3 3.0mm Abutment Post
038.4000	TSA® S4 Abutment Post
038.4005	TSA® S4 0.5mm Abutment Post
038.4015	TSA® S4 1.5mm Abutment Post
038.4030	TSA® S4 3.0mm Abutment Post
038.5000	TSA® S5 Abutment Post
038.5005	TSA® S5 0.5mm Abutment Post
038.5015	TSA® S5 1.5mm Abutment Post

Standard cemented restorations

Angled Abutments with shoulder



021.3115	TSA® S3 15° Angled Abutment
021.3125	TSA® S3 25° Angled Abutment
021.4115	TSA® S4 15° Angled Abutment
021.4125	TSA® S4 25° Angled Abutment
022.3115	TSA® S3 15° 1.0mm Angled Abutment
022.3125	TSA® S3 25° 1.0mm Angled Abutment
022.4115	TSA® S4 15° 1.0mm Angled Abutment
022.4125	TSA® S4 25° 1.0mm Angled Abutment

References

Immediate aesthetic restorations

Temporary caps for TSA® ProUnic Plus Abutments



060.3000	TSA® S3 ProUnic Plus Temporary Plastic Cap
060.4000	TSA® S4 ProUnic Plus Temporary Plastic Cap
060.5000	TSA® S5 ProUnic Plus Temporary Plastic Cap

Healing Caps for TSA® ProUnic Plus Abutments



099.3000	TSA® S3 ProUnic Plus Healing Cap
099.4000	TSA® S4 ProUnic Plus Healing Cap
099.5000	TSA® S5 ProUnic Plus Healing Cap

Standard impression copings

OVER ABUTMENT. Impression copings for TSA® ProUnic Plus (Open and Closed Tray)



011.3004	TSA® S3 O.T. ProUnic Plus Hexed Metallic Imp. Coping
011.3005	TSA® S3 O.T. ProUnic Plus Non-Hexed Metallic Imp. Coping
011.4004	TSA® S4 O.T. ProUnic Plus Hexed Metallic Imp. Coping
011.4005	TSA® S4 O.T. ProUnic Plus Non-Hexed Metallic Imp. Coping
011.5004	TSA® S5 O.T. ProUnic Plus Hexed Metallic Imp. Coping
011.5005	TSA® S5 O.T. ProUnic Plus Non-Hexed Metallic Imp. Coping

Standard impression copings

OVER ABUTMENT. Impression copings for TSA® ProUnic Plus (Open and Closed Tray)



011.3003	TSA® S3 C.T ProUnic Plus Non-Hexed Metallic Imp. Coping
011.4003	TSA® S4 C.T ProUnic Plus Non-Hexed Metallic Imp. Coping
011.5003	TSA® S5 C.T ProUnic Plus Non-Hexed Metallic Imp. Coping



062.3000	TSA® S3 ProUnic Plus Impression Coping. Plastic
062.4000	TSA® S4 ProUnic Plus Impression Coping. Plastic
062.5000	TSA® S5 ProUnic Plus Impression Coping. Plastic

DIRECT TO IMPLANT. TSA® Impression copings (Open and Closed Tray)



011.3002	TSA® S3 O.T. Metallic Impression Coping
011.4002	TSA® S4 O.T. Metallic Impression Coping
011.5002	TSA® S5 O.T. Metallic Impression Coping



011.3001	TSA® S3 C.T. Metallic Impression Coping
011.4001	TSA® S4 C.T. Metallic Impression Coping
011.5001	TSA® S5 C.T. Metallic Impression Coping

Prosthetic accessories for the laboratory

TSA® ProUnic Plus Analogs



061.3000	TSA® S3 ProUnic Plus Analog
061.4000	TSA® S4 ProUnic Plus Analog
061.5000	TSA® S5 ProUnic Plus Analog

References

Prosthetic accessories for the laboratory

TSA® implant analogs



012.3000	TSA® S3 Implant Analog
012.4000	TSA® S4 Implant Analog
012.5000	TSA® S5 Implant Analog

Non-hexed Casting cylinder for TSA® ProUnic Plus



016.3200	TSA® S3 ProUnic Plus Non-Hexed Casting Cylinder
016.4200	TSA® S4 ProUnic Plus Non-Hexed Casting Cylinder
016.5200	TSA® S5 ProUnic Plus Non-Hexed Cas. Cyl. Ball abu.

Hexed Casting cylinder for TSA® ProUnic Plus



016.3100	TSA® S3 ProUnic Plus Hexed Casting Cylinder
016.4100	TSA® S4 ProUnic Plus Hexed Casting Cylinder
016.5100	TSA® S5 ProUnic Plus Hexed Casting Cylinder

Laboratory Screws for TSA® ProUnic Plus



018.3000	TSA® S3 ProUnic Plus Waxing Screw
018.4000	TSA® S4 ProUnic Plus Waxing Screw
018.5000	TSA® S5 ProUnic Plus Waxing Screw

Calcinables para pilar fresable TSA®



038.3100	TSA® S3 Casting cylinder for drillable abutment
038.4100	TSA® S4 Casting cylinder for drillable abutment
038.5100	TSA® S5 Casting cylinder for drillable abutment

Prosthetic accessories for the laboratory

Non-hexed Casting cylinder for TSA® ProUnic Advance



053.3200	TSA® S3 ProUnic Advance Non-Hex. Cas. Cyl.
053.4200	TSA® S4 ProUnic Advance Non-Hex. Cas. Cyl.
053.5200	TSA® S5 ProUnic Advance Non-Hex. Cas. Cyl.

Hexed Casting cylinder for TSA® ProUnic Advance



053.3100	TSA® S3 ProUnic Advance Hexed Casting Cylinder
053.4100	TSA® S4 ProUnic Advance Hexed Casting Cylinder
053.5100	TSA® S5 ProUnic Advance Hexed Casting Cylinder

Lab Screws for TSA® ProUnic Advance



063.3000	TSA® S3 ProUnic Advance Waxing Screw
063.3010	TSA® S3 1.0mm ProUnic Advance Waxing Screw
063.3020	TSA® S3 2.0mm ProUnic Advance Waxing Screw
063.3030	TSA® S3 3.0mm ProUnic Advance Waxing Screw
063.4000	TSA® S4 ProUnic Advance Waxing Screw
063.4010	TSA® S4 1.0mm ProUnic Advance Waxing Screw
063.4020	TSA® S4 2.0mm ProUnic Advance Waxing Screw
063.4030	TSA® S4 3.0mm ProUnic Advance Waxing Screw
063.5000	TSA® S5 ProUnic Advance Waxing Screw
063.5010	TSA® S5 1.0mm ProUnic Advance Waxing Screw

References

Overdentures Restorations

Ball Abutments



- 022.3001 TSA® S3 1.0mm Ball Abutment
- 022.3003 TSA® S3 3.0mm Ball Abutment
- 022.3005 TSA® S3 5.0mm Ball Abutment
- 022.4001 TSA® S4 1.0mm Ball Abutment
- 022.4003 TSA® S4 3.0mm Ball Abutment
- 022.4005 TSA® S4 5.0mm Ball Abutment



022.0010 TSA® S3 S4 Ball Abutment Metallic Cap. Titanium.



022.0005 TSA® S3 S4 Ball Abutment joint (5 units). EPDM.

Click and Fix Abutments



- 1755 C CLICK & FIX Abutment for TSA® S3 x 1,0mm
- 1756 C CLICK & FIX Abutment for TSA® S3 x 2,0mm
- 1757 C CLICK & FIX Abutment for TSA® S3 x 3,0mm
- 1758 C CLICK & FIX Abutment for TSA® S3 x 4,0mm
- 1759 C CLICK & FIX Abutment for TSA® S3 x 5,0mm
- 1761 C CLICK & FIX Abutment for TSA® S4 x 1,4mm
- 1762 C CLICK & FIX Abutment for TSA® S4 x 2,0mm
- 1763 C CLICK & FIX Abutment for TSA® S4 x 3,0mm
- 1764 C CLICK & FIX Abutment for TSA® S4 x 4,0mm
- 1765 C CLICK & FIX Abutment for TSA® S4 x 5,0mm
- 1767 C CLICK & FIX Abutment for TSA® S5 x 2,0mm
- 8519 C CLICK & FIX Retention kit (1 unit)

Overdentures Restorations

Locator®



08393 Locator® Tool



08505 Locator® Imprinting (4 units)



08514 Locator® Block out Spacer (20 units)



08517 Locator® Angulated Post (4 units)



08530 Locator® Analogue (4 units)



08540.2 Locator® Extended retention Kit (2 units)



09530 Locator® Angulation guide

**Locator® is a registered trademark of Zest Anchors, Inc.*

References

Surgical instruments and prostheses

Prostheses and instrument kit



- 171.0300 TSA® Surgical Kit
- 171.0600 TSA® Prosthetic Kit
- 170.0001 TSA® Radiographic Template



- 173.0100 Contra-Angle Adapter, Short
- 173.0300 Contra-Angle Adapter, Long



- 173.1251 Contra-Angle Hex Driver 1.25mm, Short
- 173.1252 Contra-Angle Hex Driver 1.25mm, Medium



- 172.0000 Torque Wrench



- 172.0001 Open end Wrench



- 172.0100 Ratchet Adapter, Short - to Mounter
- 172.0300 Ratchet Adapter, Long - to Mounter



- 174.1251 Manual Hex Driver 1.25mm, Short
- 174.1252 Manual Hex Driver 1.25mm, Medium
- 174.1253 Manual Hex Driver 1.25mm, Long



- 172.1251 Hex Tool 1.25mm, Short - to Wrench
- 172.1252 Hex Tool 1.25mm, Medium - to Wrench

Surgical instruments and prostheses

Prostheses and instrument kit



- 152.0001 Circular Scalpel Ø3.70
- 152.0002 Circular Scalpel Ø4.70
- 152.0003 Circular Scalpel Ø6.00



- 172.1100 Phibo® manual handle

Screw driver for CAD-CAM restorations



- 172.1101 Hexalobular tool, short - to wrench
- 172.1102 Hexalobular tool, medium - to wrench






- 172.1103 Axis® Hexalobular Angled Tool Short - to Wrench
- 172.1104 Axis® Hexalobular Angled Tool Medium - to Wrench
- 172.1105 Axis® Hexalobular Angled Tool Long - to Wrench



References

Surgical instruments

Initial surgical sequence

	175.0001	Precision Drill TSA® TSH®
	175.1018	Round Marking Bur ø1.8mm
	175.1023	Round Marking Bur ø2.3mm
	173.0001	Drill Extender

Surgical sequence / Drilling length


	176.1123	Pilot Drill - Short ø2.3mm TSA® TSH®
	176.1323	Pilot Drill - Long ø2.3mm TSA® TSH®
	177.0000	Depth Indicator Drill Parallelizer ø2.3mm TSA® TSH®
	179.0028	Depth Indicator Drill ø2.8mm TSA® TSH®
	179.0030	Depth Indicator Drill ø3.0mm TSA® TSH®
	179.0036	Depth Indicator Drill ø3.6mm TSA® TSH®
	179.0043	Depth Indicator Drill ø4.3mm TSA®
	179.0049	Depth Indicator Drill ø4.9mm TSA®

Final surgical sequence/surgical drills


178.0037	TSA® S3 Countersink Drill
178.0047	TSA® S4 Countersink Drill
178.0060	TSA® S5 Countersink Drill

Surgical instruments

Final surgical sequence/surgical drills

	178.1128	Surgical Drill - Short ø2.8mm TSA® TSH®
	178.1130	Surgical Drill - Short ø3.0mm TSA® TSH®
	178.1136	Surgical Drill - Short ø3.6mm TSA® TSH®
	178.1243	Surgical Drill ø4.3mm TSA®
	178.1249	Surgical Drill ø 4.9mm TSA®
	178.1328	Surgical Drill - Long ø2.8mm TSA® TSH®
	178.1330	Surgical Drill - Long ø3.0mm TSA® TSH®
	178.1336	Surgical Drill - Long ø3.6mm TSA® TSH®

Final surgical sequence/Bone taps

	181.0136	TSA® S3 Contra-Angle Bone Tap, Short
	181.0142	TSA® S4 Contra-Angle Bone Tap, Short
	181.0255	TSA® S5 Contra-Angle Bone Tap
	181.0336	TSA® S3 Contra-Angle Bone Tap, Long
	181.0342	TSA® S4 Contra-Angle Bone Tap, Long

Final surgical sequence/Drill stops

	DS23	Drill Stop Ø2.30mm
	DS28	Drill Stop Ø2.80mm
	DS30	Drill Stop Ø3.00mm
	DS36	Drill Stop Ø3.60mm
	DS43	Drill Stop Ø4.30mm
	DS49	Drill Stop Ø4.90mm
	DS00	Drill Stop screw (5units)

References

Surgical kit



Surgical kit

Surgical
References

References

Prosthetic Kit



Bibliography

Scientific studies made with Phibo® implant systems Comparison of immediate and delayed implants in the maxillary molar region: a retrospective study of 123 implants. Int J Oral Maxillofac Implants. 2012 May-Jun;27(3):604-10. Peñarrocha-Oltra D, Demarchi CL, Maestre-Ferrín L, Peñarrocha-Diago M, Peñarrocha-Diago M.

Palatal positioning of implants in severely resorbed edentulous maxillae. Int J Oral Maxillofac Implants. 2009 May-Jun;24(3):527-33. Peñarrocha M, Carrillo C, Boronat A, Balaguer J, Peñarrocha M.

Removal torque and physico-chemical characteristics of dental implants etched with hydro - fluoric and nitric acid. An experimental study in Beagle dogs Med Oral Patol Oral Cir Bucal 2006;11:E281-5. Martínez-González JM, GarcíaSabán F, Ferrándiz-Bernal J, Gonzalo- Lafuente JC, Cano-Sánchez J, Barona-Dorado C.

Extraction of impacted maxillary canines with simultaneous implant placement. J Oral Maxillofac Surg. 2007 Nov;65(11):2336-9. Peñarrocha M, Peñarrocha M, García-Mira B, Larrazabal C.

Evaluation of 80 implants subjected to immediate loading in edentulous mandibles after two years of follow-up. Med Oral Patol Oral Cir Bucal 2006; 11:E165-70 Martínez-González JM, Barona-Dorado C, Cano-Sánchez J, Fernández-Cáliz F, SánchezTurrión A.