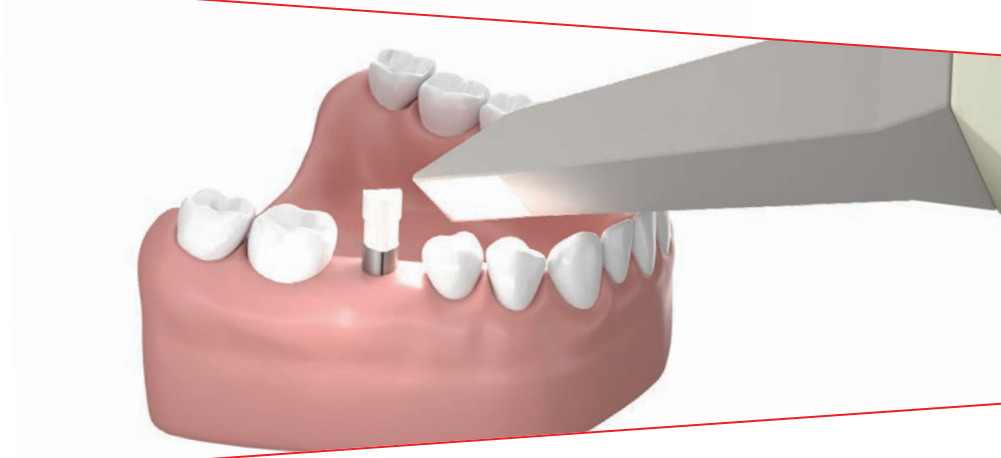


IMPLANT SYSTEM

XCN[®]

PROSTHETIC PROCEDURE



The pictures and illustrations in this brochure are for information purposes only and they are not intended to replace the methods or procedures for diagnosis and treatment planning of the Dental surgeon, Dentist and Dental Technician regarding the needs of each patient. Leone Spa disclaims any liability or any other obligation expressed or implied in this brochure.

DISCLAIMER

The Prosthetic Procedure and the use of the products of the XCN® Leone Implant System described in the following pages are intended for Professionals experienced in dental implant techniques.

In case of lack of basic notions, we suggest to attend specific courses in order to reach a high level of knowledge and practice in the use of implants. The rules on the use of the products described below represent a group of standard instructions that must be adjusted to the single needs and to the particular situations that may occur according to the manual ability, to the experience and to the diagnosis made by the legally qualified medical operator. It is not ascribed to the manufacturer the duty of monitoring the procedures of use of the product. A correct and appropriate use of the instruments and products related to the XCN® Leone Implant System shall completely be reverted to the clinician. The surgical procedure hereunder described is merely indicative as any single treatment case is assigned to the experience of the operator. As every medical operator well knows, a correct procedure and a perfect manufacture of the prosthesis may sometimes be followed by not satisfactory results owing to particular situations not imputable to responsibility of the dental operator or the manufacturer.

PREMISE

The Leone implant system offers the ability to fabricate fixed cement-and screw-retained prostheses, fixed and removable conometric-retained prostheses as well as bar-and attachment-retained prostheses. The following pages describe the prosthetic workflow step-by-step for every single indication. For a detailed description of each step, please refer to the online version of the prosthetic procedure and to the associated video tutorials: www.leone.it/english/implantology/video/procedure.php



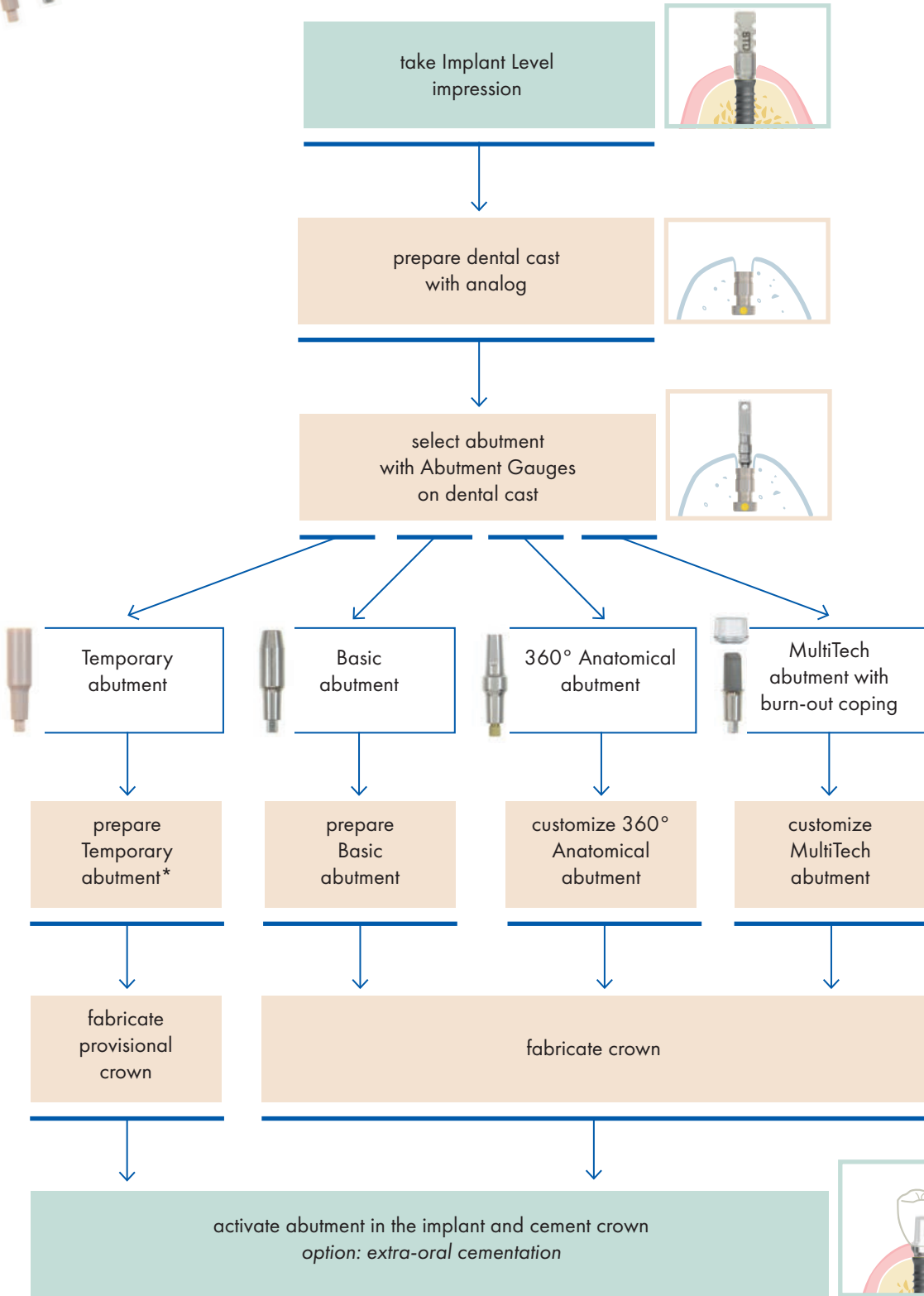
		CONVENTIONAL WORKFLOW	DIGITAL WORKFLOW	
		PAGES		
SINGLE CROWN	CEMENT-RETAINED	TEMPORARY ABUTMENT, STANDARD AND LARGE	125 138, 139	
		BASIC ABUTMENT, STANDARD AND LARGE	125 138, 139	
		360° ANATOMICAL ABUTMENT, STANDARD AND LARGE	125 138, 139	
		MULTITECH ABUTMENT	125 137, 138, 139	
		TI-BASE ABUTMENT	125 136, 137	
	SCREW-RETAINED	EXACONNECT	126, 127 140, 141, 142, 143	
	FIXED BRIDGE FIXED FULL-ARCH PROSTHESIS	CEMENT-RETAINED	TEMPORARY ABUTMENT, STANDARD AND LARGE	128 138, 139
			BASIC ABUTMENT, STANDARD AND LARGE	128 138, 139
			360° ANATOMICAL ABUTMENT, STANDARD AND LARGE	128 138, 139
			MULTITECH ABUTMENT	128 138, 139
SCREW-RETAINED		MUA	129, 130 144, 145, 146	
REMOVABLE PROSTHESIS	CONOMETRIC-RETAINED	MUA-CONIC → Fixed CAP	132, 133 147, 148, 149	
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REMOVABLE PROSTHESIS	BAR-RETAINED	MUA	129 144, 145, 146	
	ATTACHMENT-RETAINED	BALL HEAD ABUTMENT → HOUSING WITH O-RING	134	
		HOUSING WITH INSERT	134	
		MICRO HOUSING WITH O-RING	134	
	CONOMETRIC-RETAINED	MUA-CONIC → Mobile CAP	135	
Light CAP	135			

NOTE: the patient should be given appropriate post-operative instructions in order to prevent complications and variations in the efficiency of the device; a good level of oral hygiene and periodical checkups are recommended.

The Prosthetic Procedure reported was conceived with the invaluable contribution of Dental Technician Mr. Massimiliano Pisa, whom we thank sincerely.

CONVENTIONAL PROSTHETIC PROCEDURE

CEMENT-RETAINED SINGLE CROWN



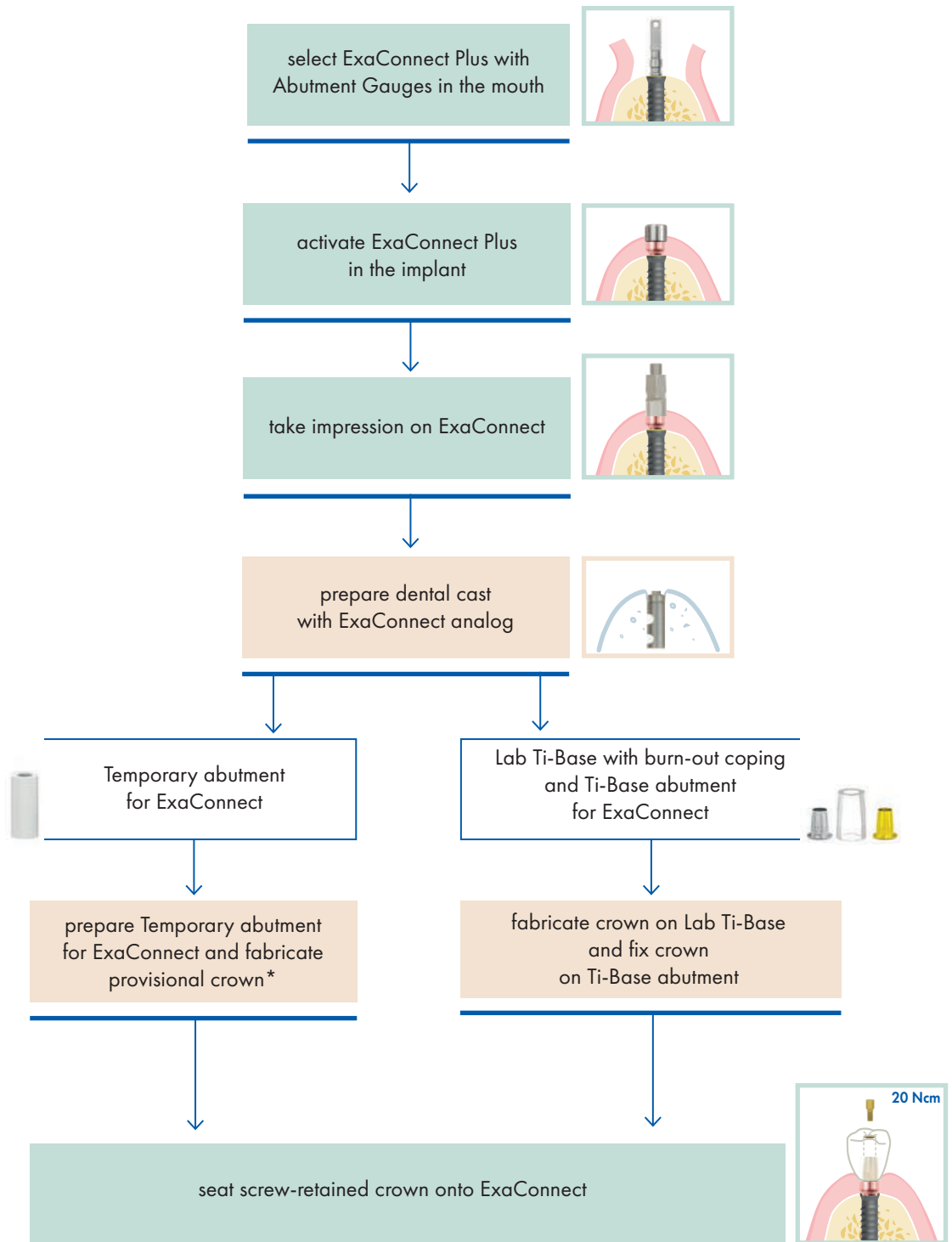
*The Temporary abutment and the provisional crown may also be selected and fabricated in the dental office.

| → Steps carried out by **THE CLINICIAN**
| → Steps carried out by **THE DENTAL LABORATORY**



CONVENTIONAL PROSTHETIC WORKFLOW

SCREW-RETAINED SINGLE CROWN - ABUTMENT LEVEL



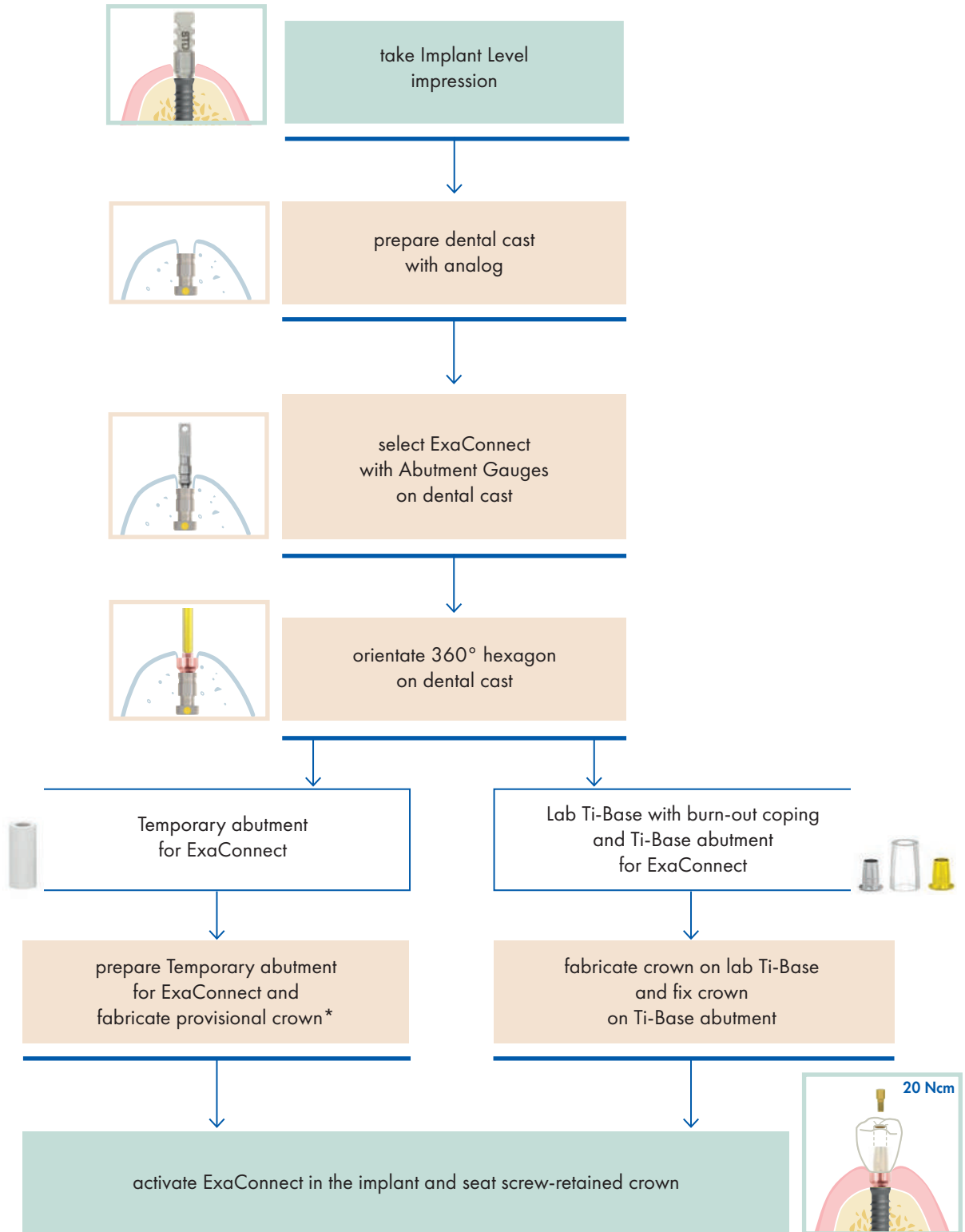
*The Temporary abutment and the provisional crown may also be fabricated in the dental office.

→ Steps carried out by **THE CLINICIAN**
→ Steps carried out by **THE DENTAL LABORATORY**

CONVENTIONAL PROSTHETIC WORKFLOW



SCREW-RETAINED SINGLE CROWN - IMPLANT LEVEL

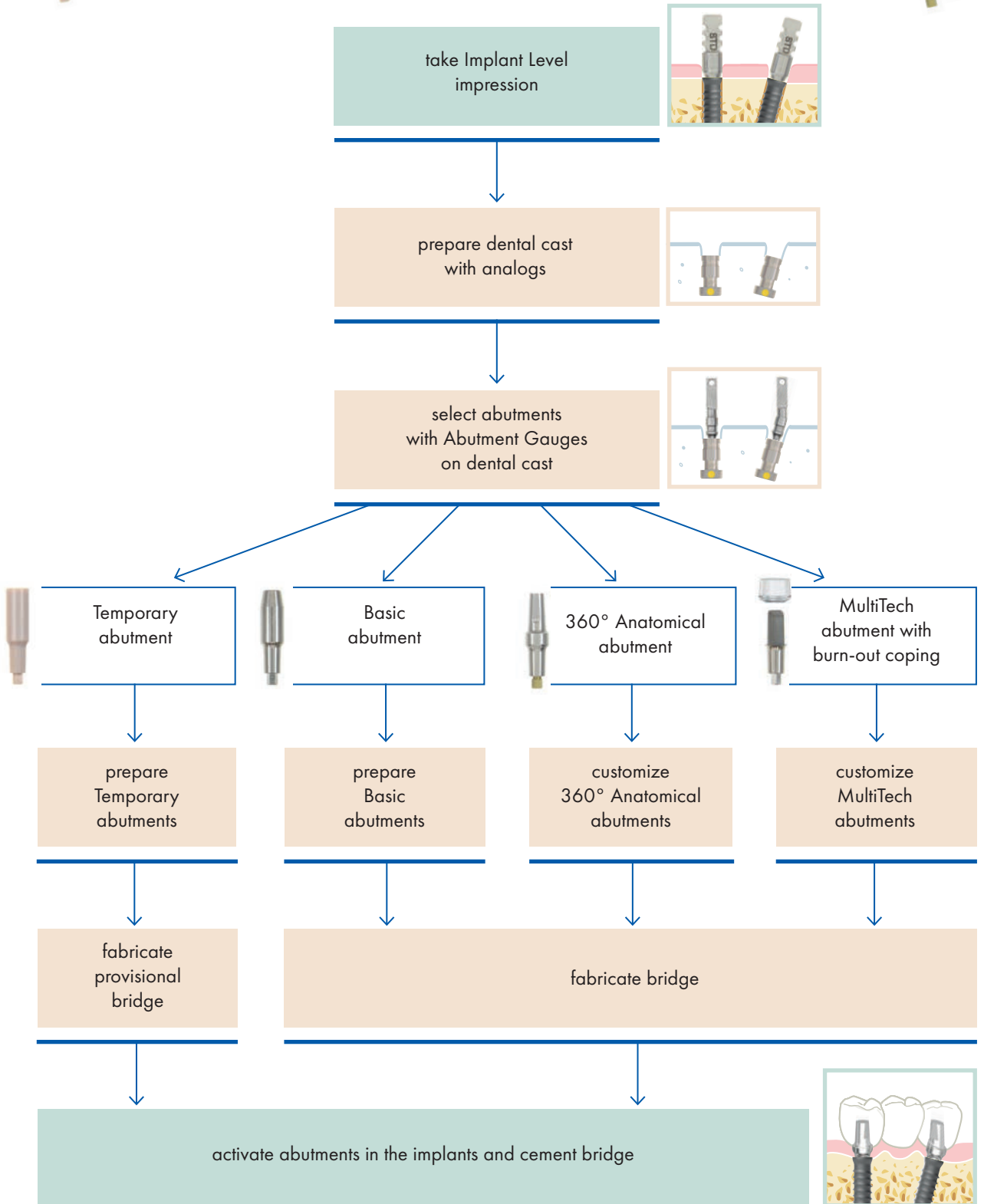


*The Temporary abutment and the provisional crown may also be fabricated in the dental office.

| → Steps carried out by **THE CLINICIAN**
| → Steps carried out by **THE DENTAL LABORATORY**

CONVENTIONAL PROSTHETIC WORKFLOW

CEMENT-RETAINED BRIDGE

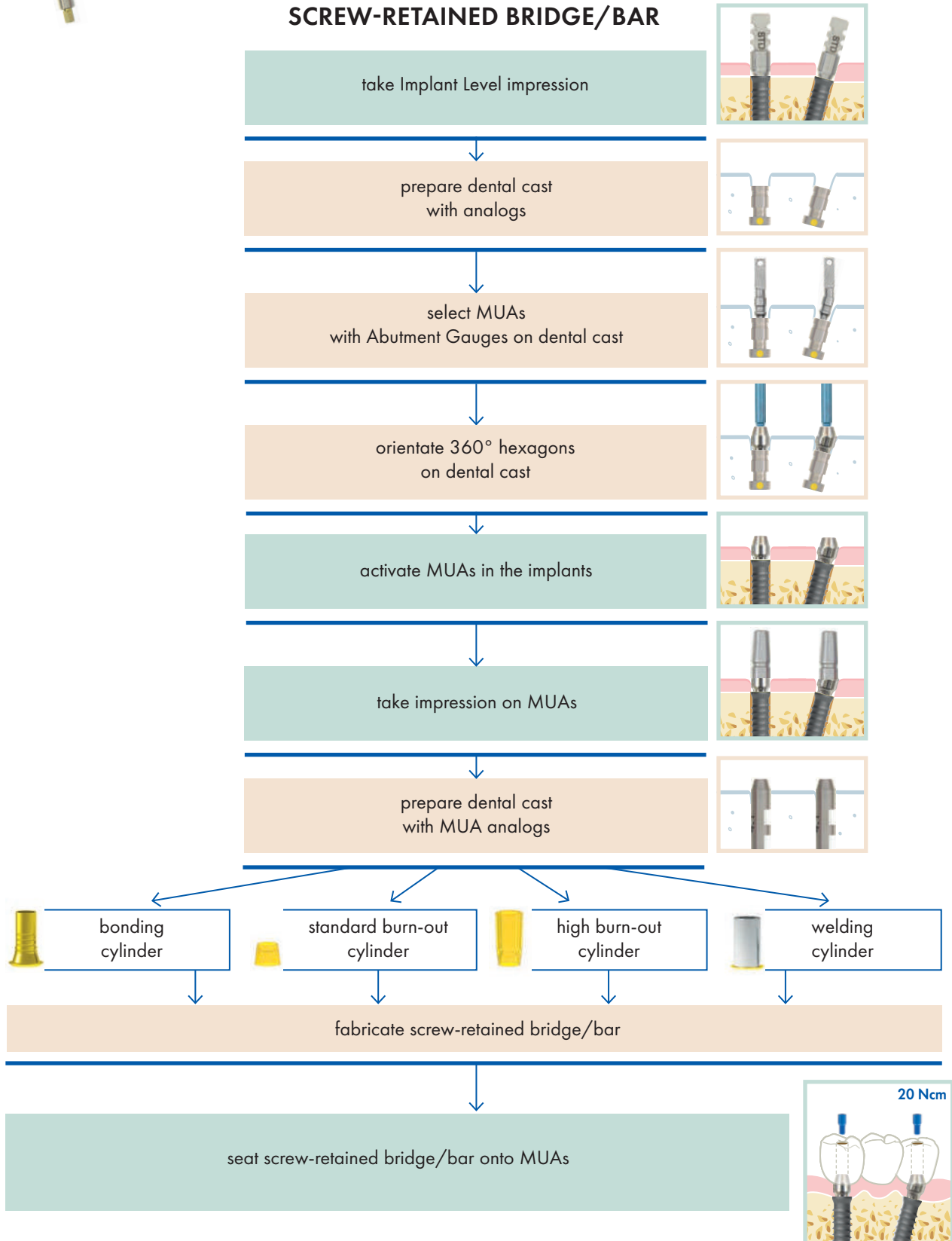


→ Steps carried out by **THE CLINICIAN**
→ Steps carried out by **THE DENTAL LABORATORY**

CONVENTIONAL PROSTHETIC WORKFLOW



SCREW-RETAINED BRIDGE/BAR

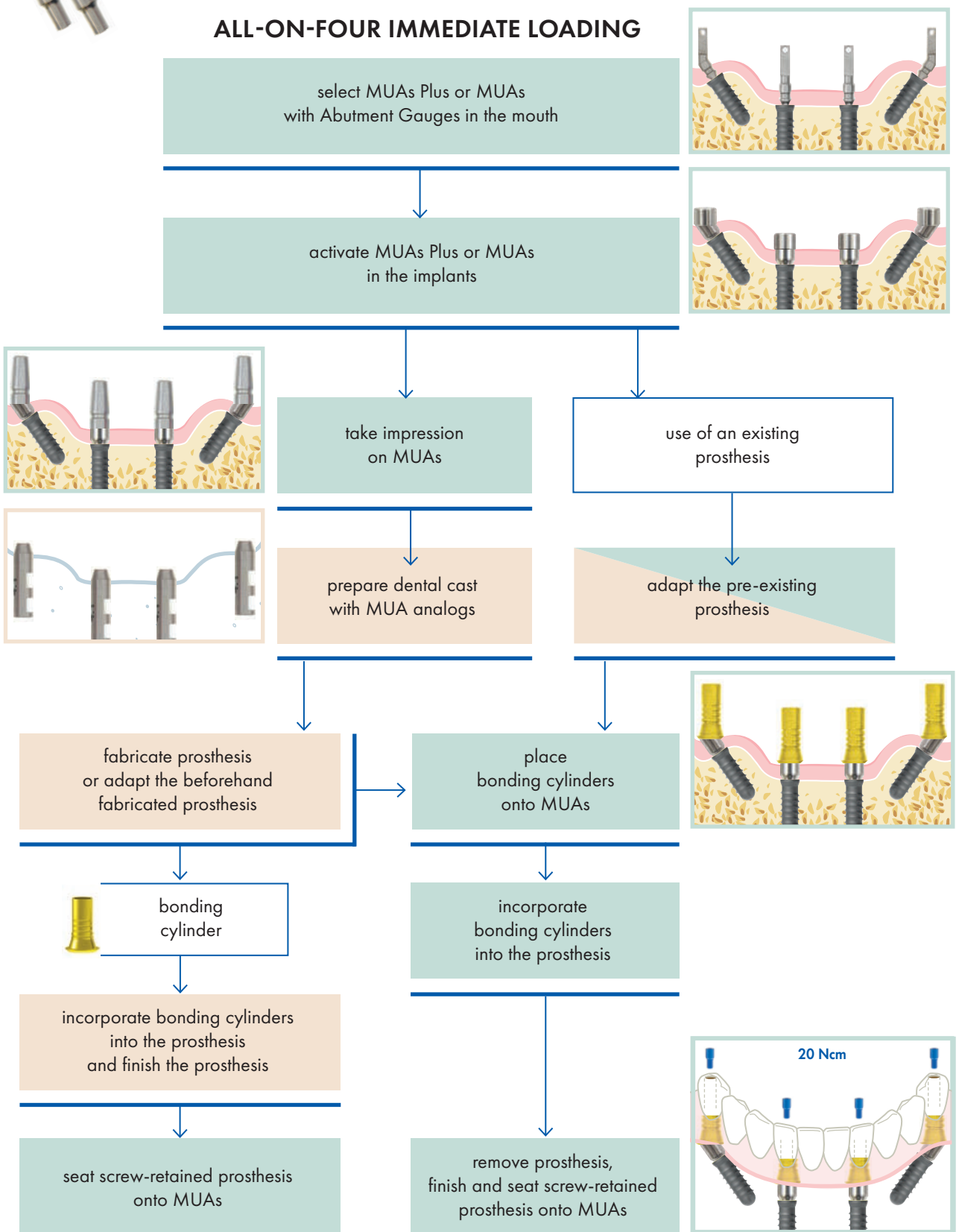


→ Steps carried out by **THE CLINICIAN**
→ Steps carried out by **THE DENTAL LABORATORY**

CONVENTIONAL PROSTHETIC WORKFLOW



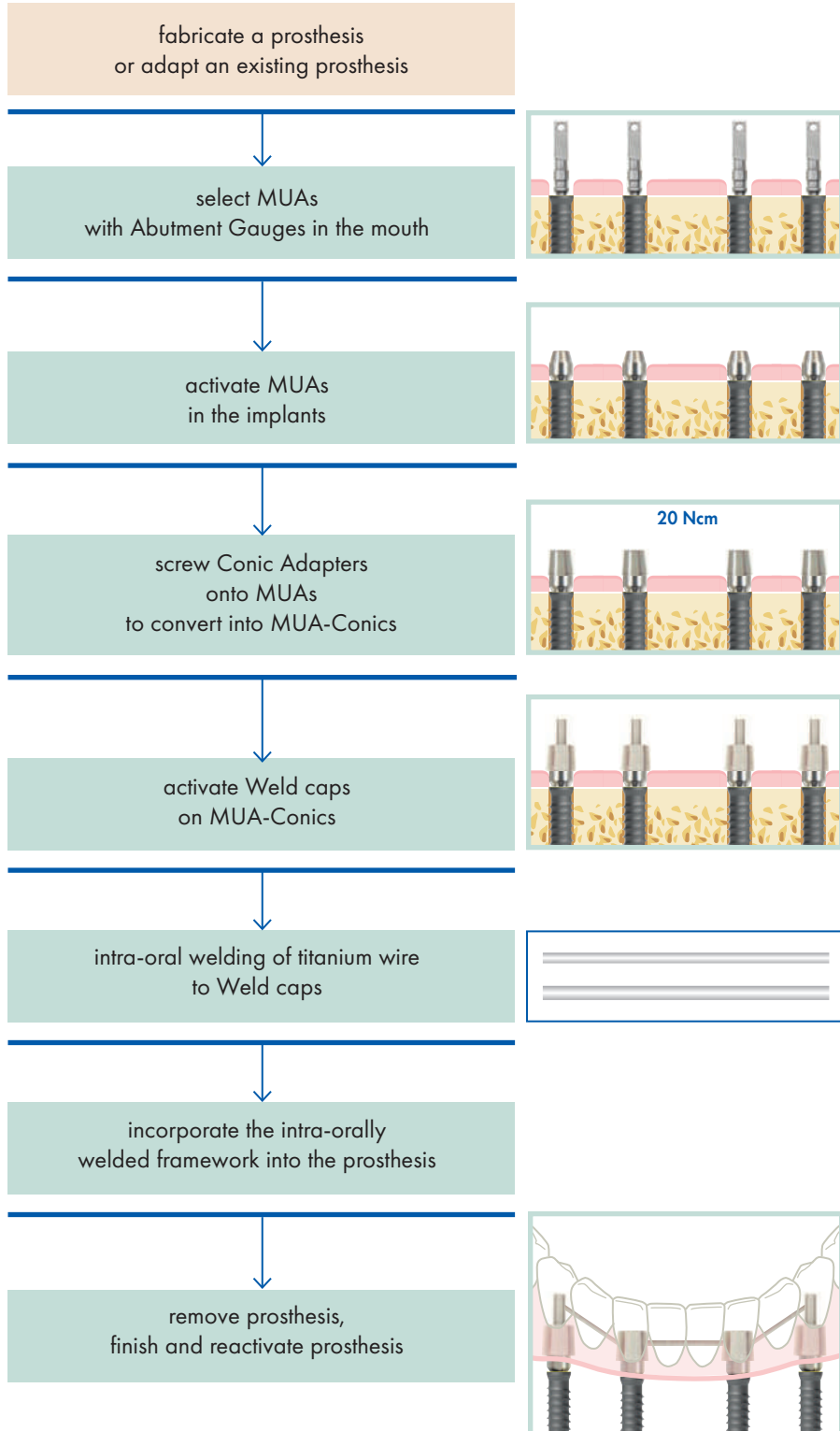
ALL-ON-FOUR IMMEDIATE LOADING



→ Steps carried out by **THE CLINICIAN**
→ Steps carried out by **THE DENTAL LABORATORY**

CONVENTIONAL PROSTHETIC WORKFLOW

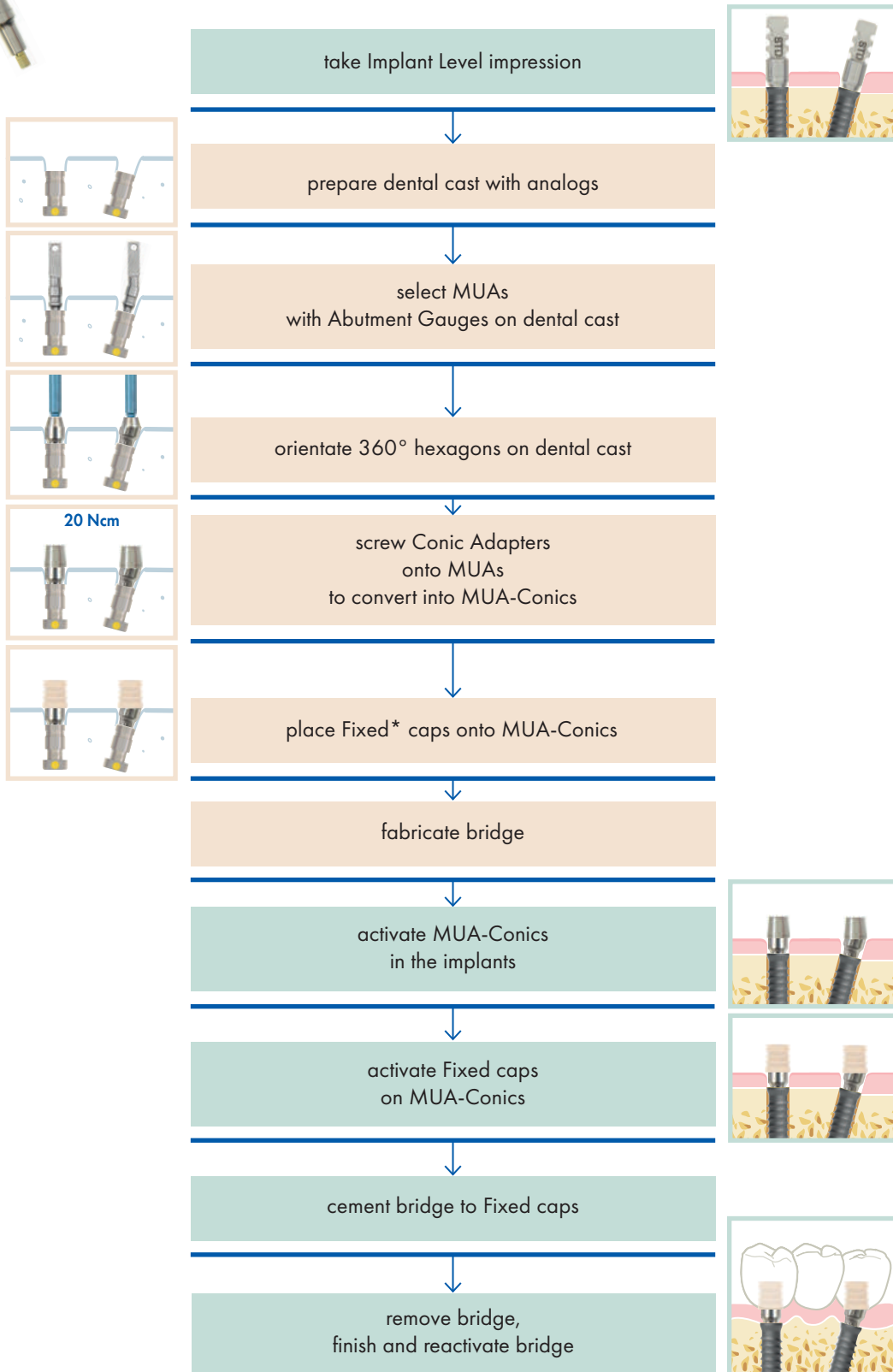
**CONOMETRIC-RETAINED BRIDGE WITH WELD CAPS
IMMEDIATE LOADING**



→ Steps carried out by **THE CLINICIAN**
→ Steps carried out by **THE DENTAL LABORATORY**

CONVENTIONAL PROSTHETIC WORKFLOW

CONOMETRIC-RETAINED BRIDGE WITH FIXED CAPS

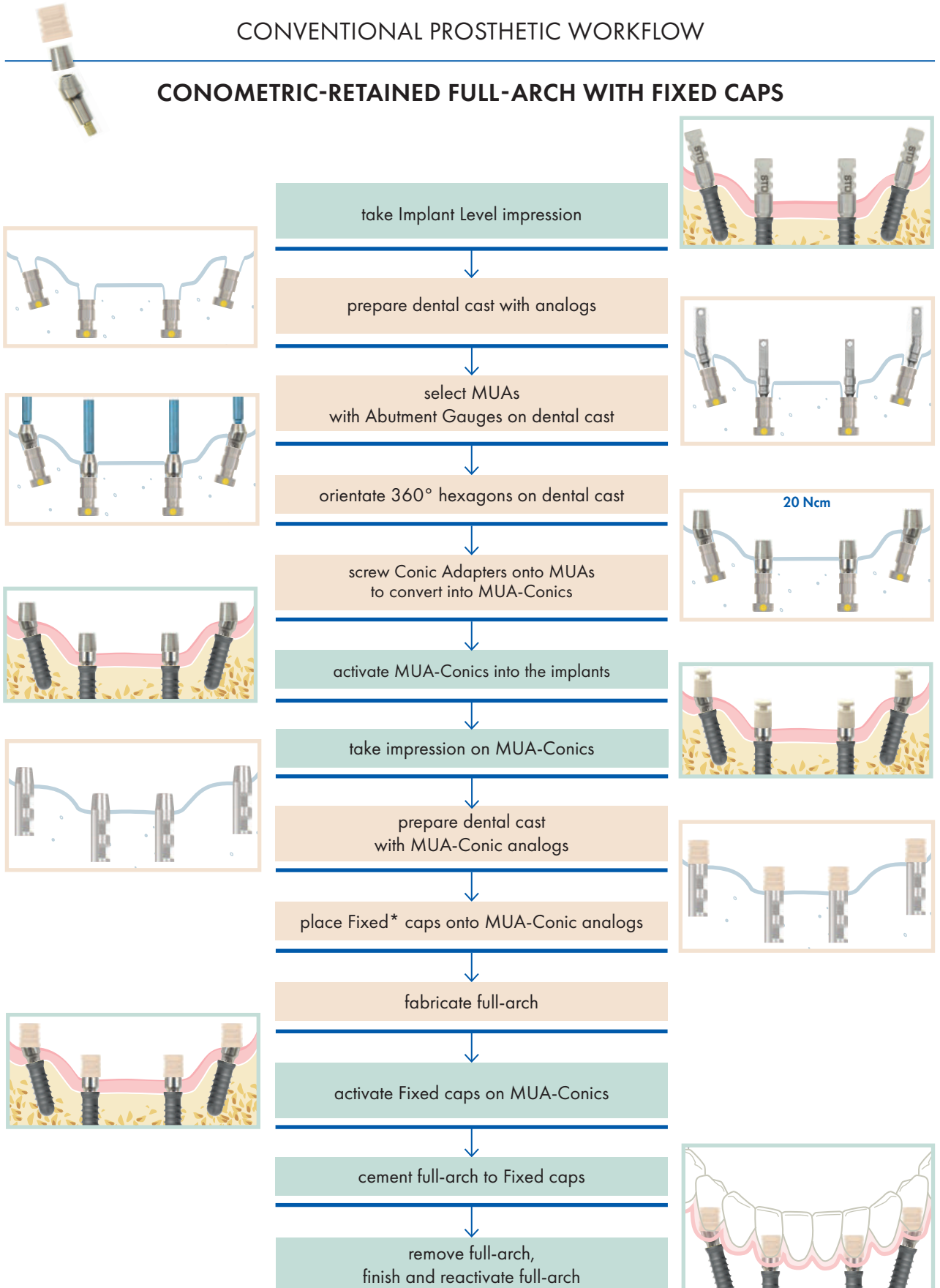


* It is possible to combine the use of the *Light cap* to modulate the retention of the prosthesis (see page 79)

→ Steps carried out by **THE CLINICIAN**
→ Steps carried out by **THE DENTAL LABORATORY**

CONVENTIONAL PROSTHETIC WORKFLOW

CONOMETRIC-RETAINED FULL-ARCH WITH FIXED CAPS



*It is possible to combine the use of the *Light* cap to modulate the retention of the prosthesis (see page 79)

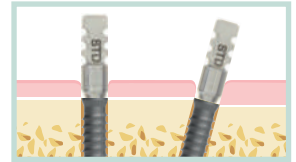
→ Steps carried out by **THE CLINICIAN**
→ Steps carried out by **THE DENTAL LABORATORY**

CONVENTIONAL PROSTHETIC WORKFLOW



REMOVABLE PROSTHESIS ON BALL HEAD ABUTMENTS

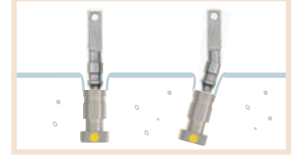
take Implant Level impression



prepare dental cast with analogs



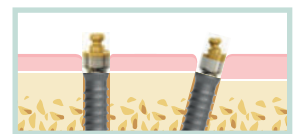
select ball head abutments with Abutment Gauges on dental cast



orientate 360° hexagons on dental cast



activate ball head abutments in the implants



select housing type

housing with O-ring or micro housing with micro O-ring



housing with soft white, medium orange or rigid violet insert

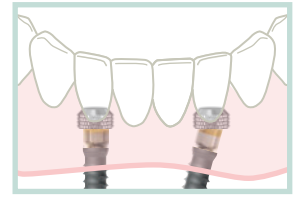


take impression with housings placed on ball head abutments

fabricate overdenture with adequate space for abutments and housings

incorporate housings into the overdenture

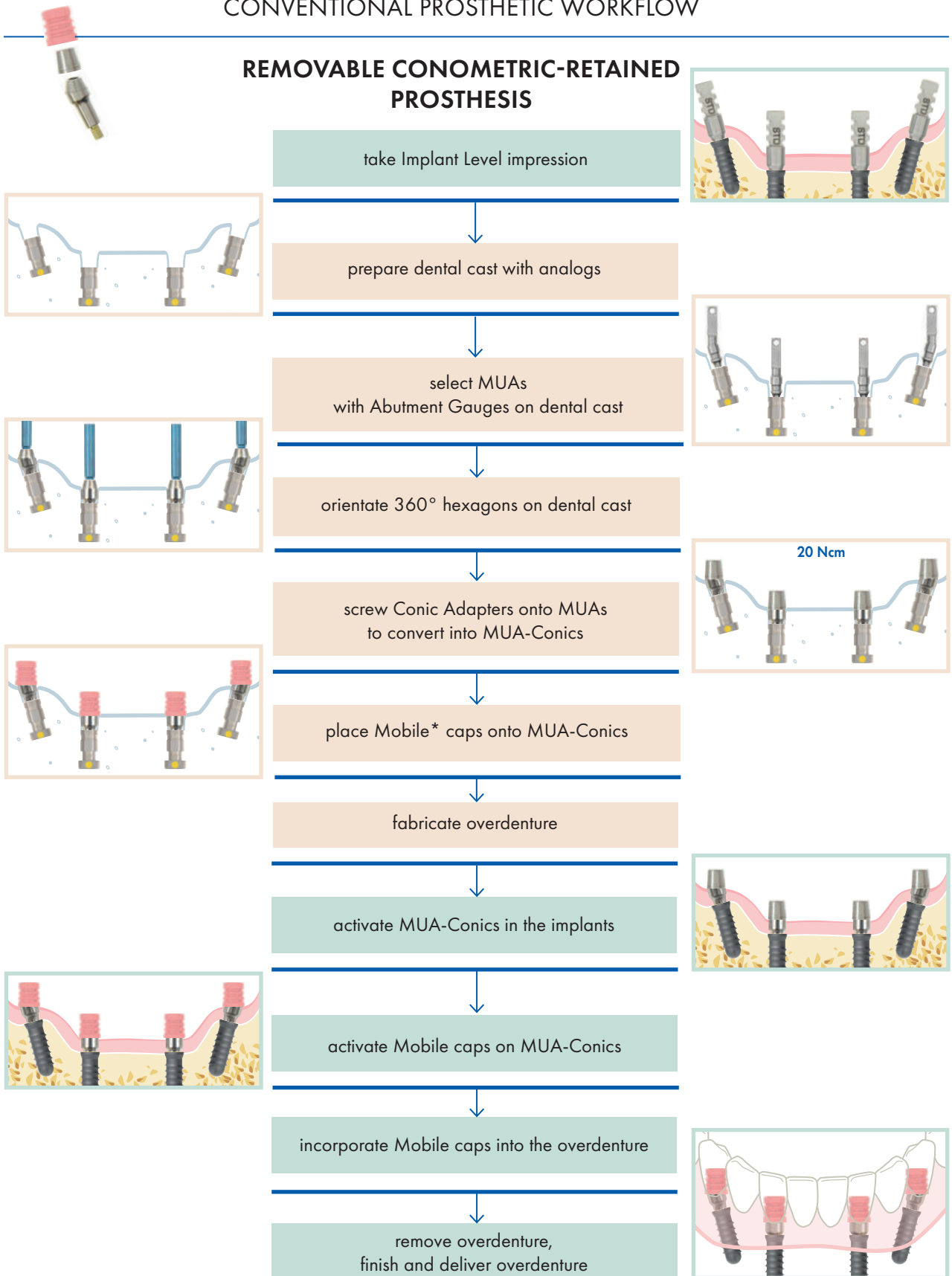
remove overdenture, finish and deliver overdenture



→ Steps carried out by **THE CLINICIAN**
→ Steps carried out by **THE DENTAL LABORATORY**

CONVENTIONAL PROSTHETIC WORKFLOW

REMOVABLE CONOMETRIC-RETAINED PROSTHESIS



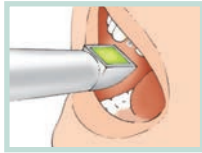
*It is possible to combine the use of the *Light* cap to modulate the retention of the prosthesis (see page 79)

→ Steps carried out by **THE CLINICIAN**
→ Steps carried out by **THE DENTAL LABORATORY**

DIGITAL PROSTHETIC WORKFLOW

CEMENT-RETAINED SINGLE CROWN

CHAIRSIDE TECHNIQUE



take digital intra-oral impression at Implant Level*



select Ti-Base abutment** design and mill the crown (CAD-CAM)

bond monolithic crown to Ti-Base abutment



activate restoration in the implant



*Orientate the Scan Post so that the notch is on the buccal side.

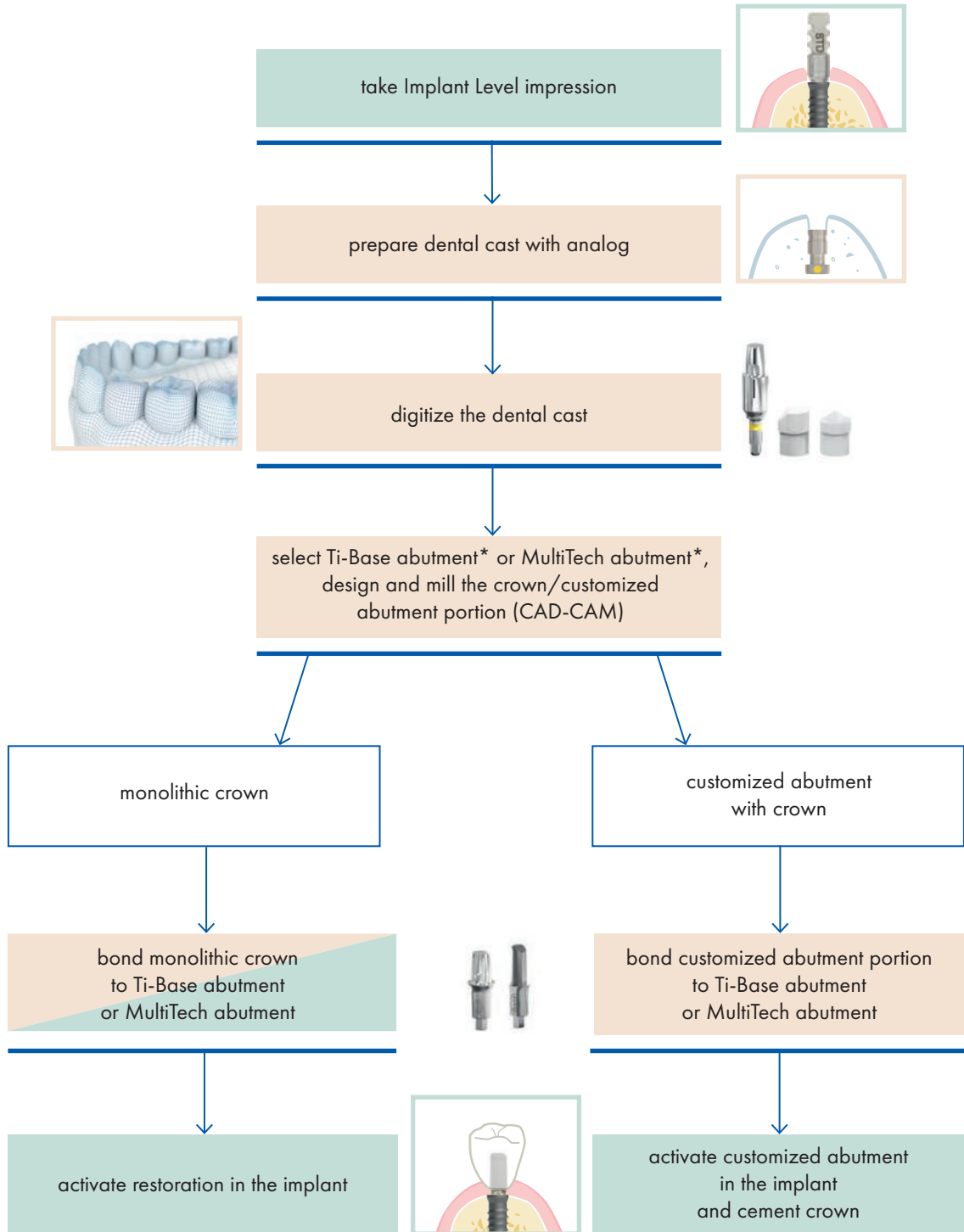
**As to dental CAD-CAM software including the specified products, please refer to Leone web site www.leone.it under section Implantology and download any updated library.

Steps carried out by **THE CLINICIAN** Steps carried out by **THE DENTAL LABORATORY**



DIGITAL PROSTHETIC WORKFLOW

CEMENT-RETAINED SINGLE CROWN
CONVENTIONAL IMPRESSION TAKING

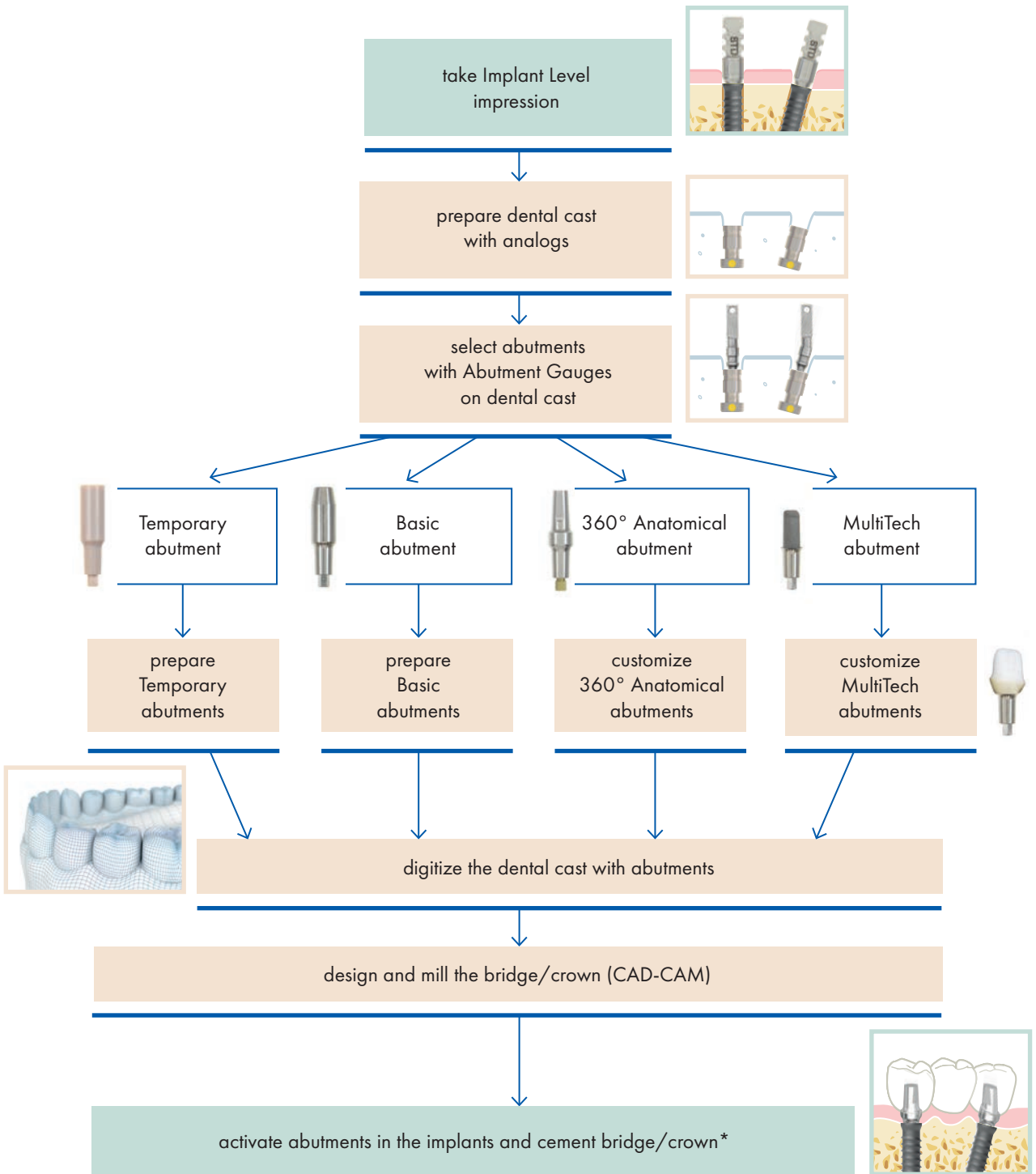


*As to dental CAD-CAM software including the specified products, please refer to Leone web site www.leone.it under section Implantology and download any updated library.

→ Steps carried out by **THE CLINICIAN**
→ Steps carried out by **THE DENTAL LABORATORY**

DIGITAL PROSTHETIC WORKFLOW

CEMENT-RETAINED BRIDGE/SINGLE CROWN
CONVENTIONAL IMPRESSION TAKING



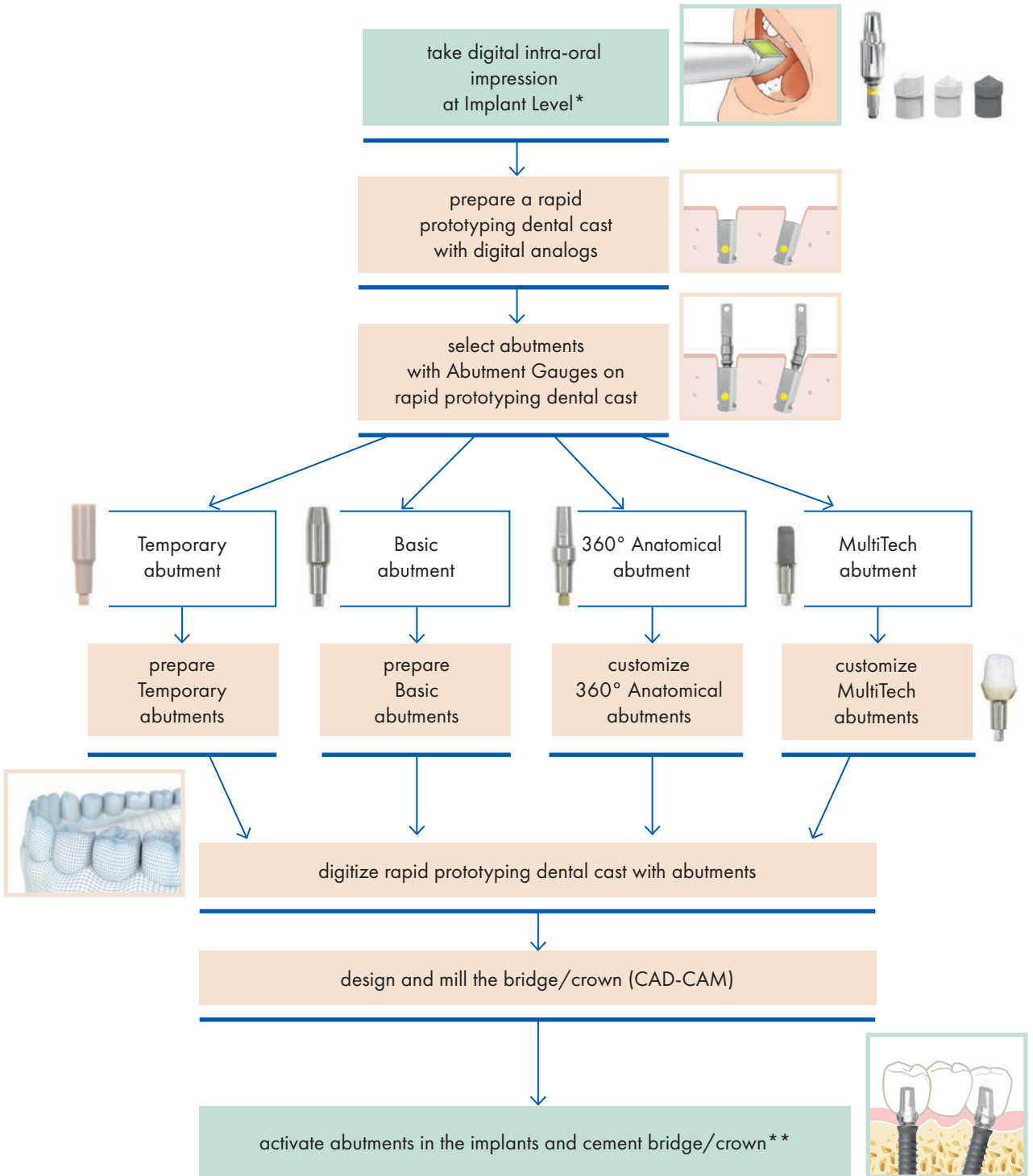
*In case of single crowns, option: extra-oral cementation.

→ Steps carried out by **THE CLINICIAN**
→ Steps carried out by **THE DENTAL LABORATORY**

DIGITAL PROSTHETIC WORKFLOW

CEMENT-RETAINED BRIDGE/SINGLE CROWN

DIGITAL IMPRESSION TAKING



* Orientate the Scan Post so that the notch is on the buccal side.
 **In case of single crowns, option: extra-oral cementation.

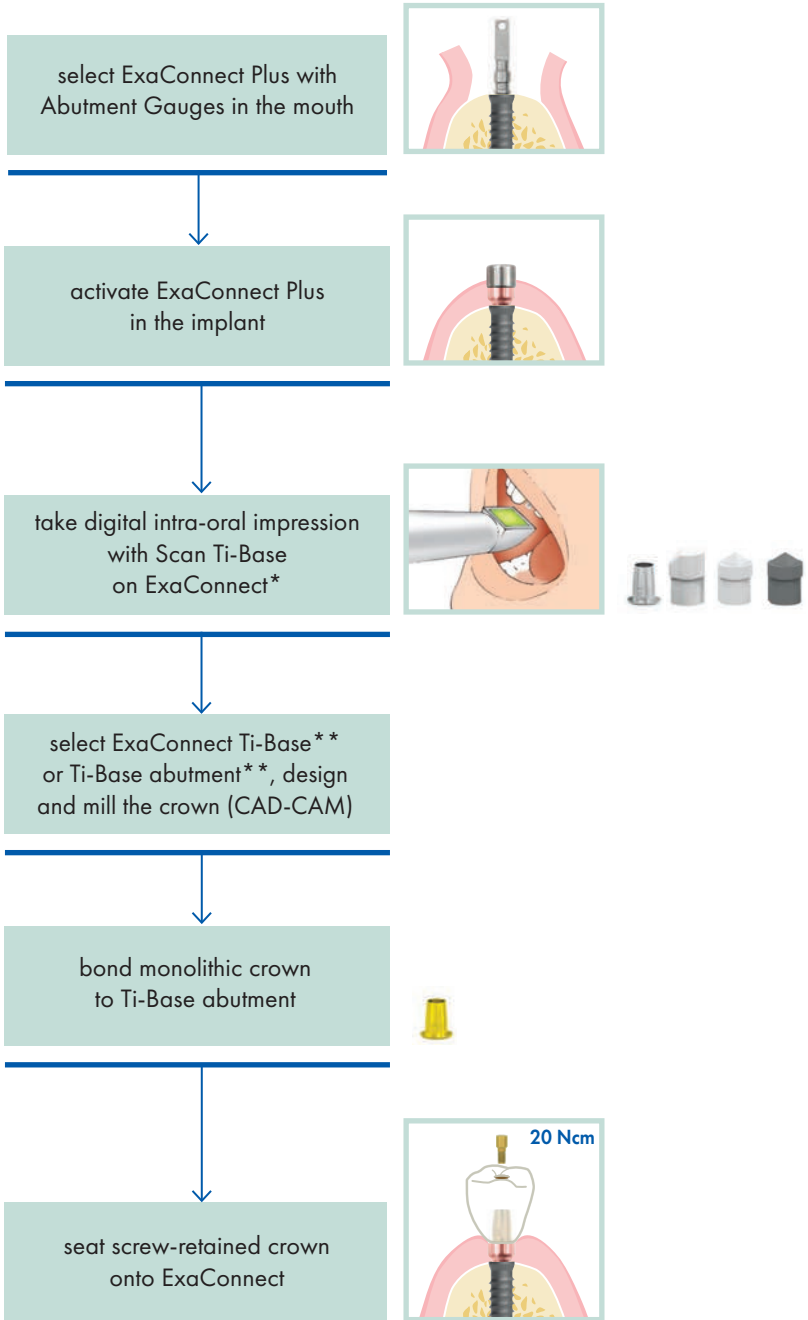
→ Steps carried out by **THE CLINICIAN**
→ Steps carried out by **THE DENTAL LABORATORY**

DIGITAL PROSTHETIC WORKFLOW



SCREW-RETAINED SINGLE CROWN - ABUTMENT LEVEL

CHAIRSIDE TECHNIQUE



*Orientate the Ti-Base so that the notch is on the buccal side.

** As to dental CAD-CAM software including the specified products, please refer to Leone web site www.leone.it under section Implantology and download any updated library.

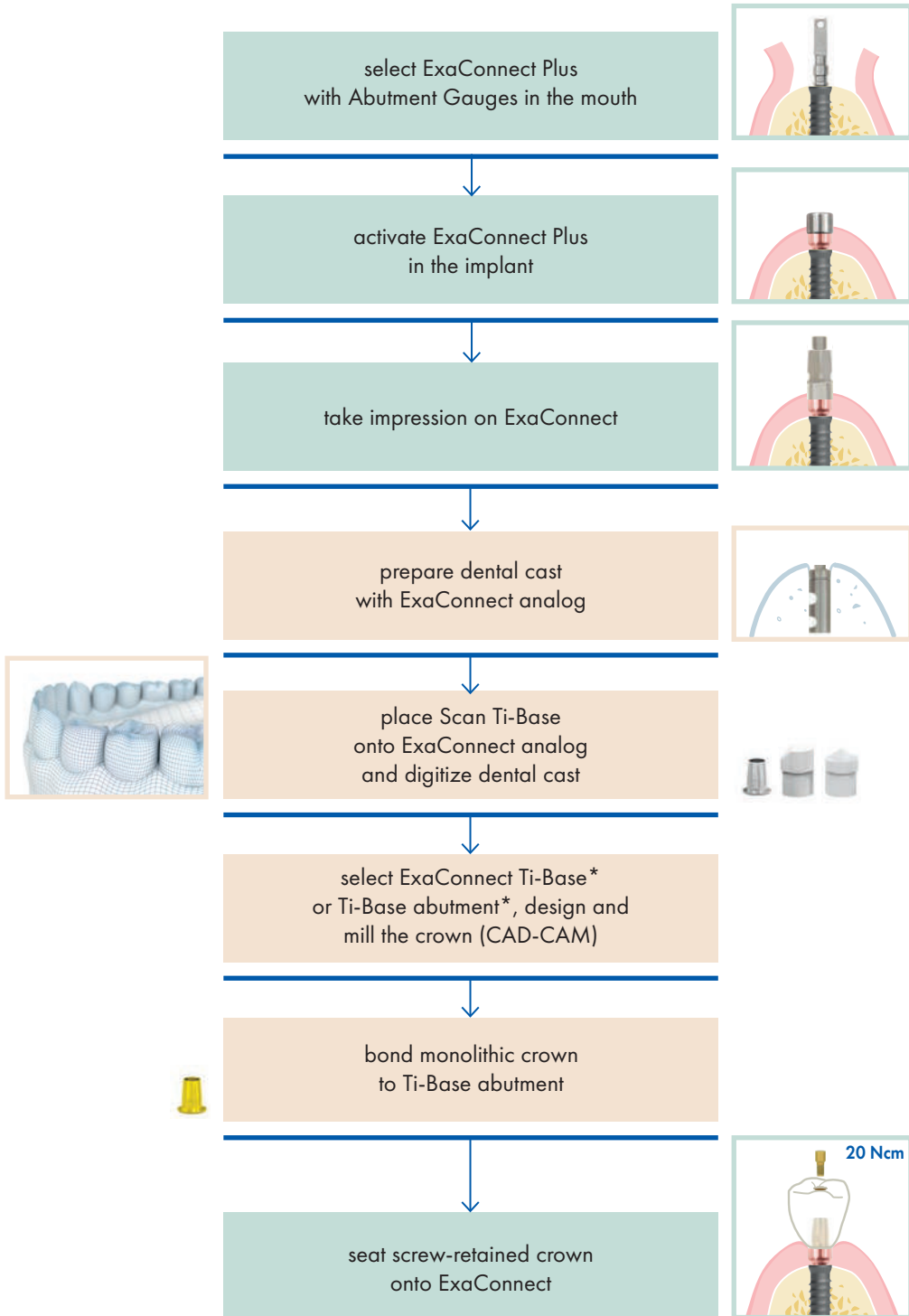
→ Steps carried out by **THE CLINICIAN**
→ Steps carried out by **THE DENTAL LABORATORY**



DIGITAL PROSTHETIC WORKFLOW

SCREW-RETAINED SINGLE CROWN - ABUTMENT LEVEL

CONVENTIONAL IMPRESSION TAKING



*As to dental CAD-CAM software including the specified products, please refer to Leone web site www.leone.it under section Implantology and download any updated library.

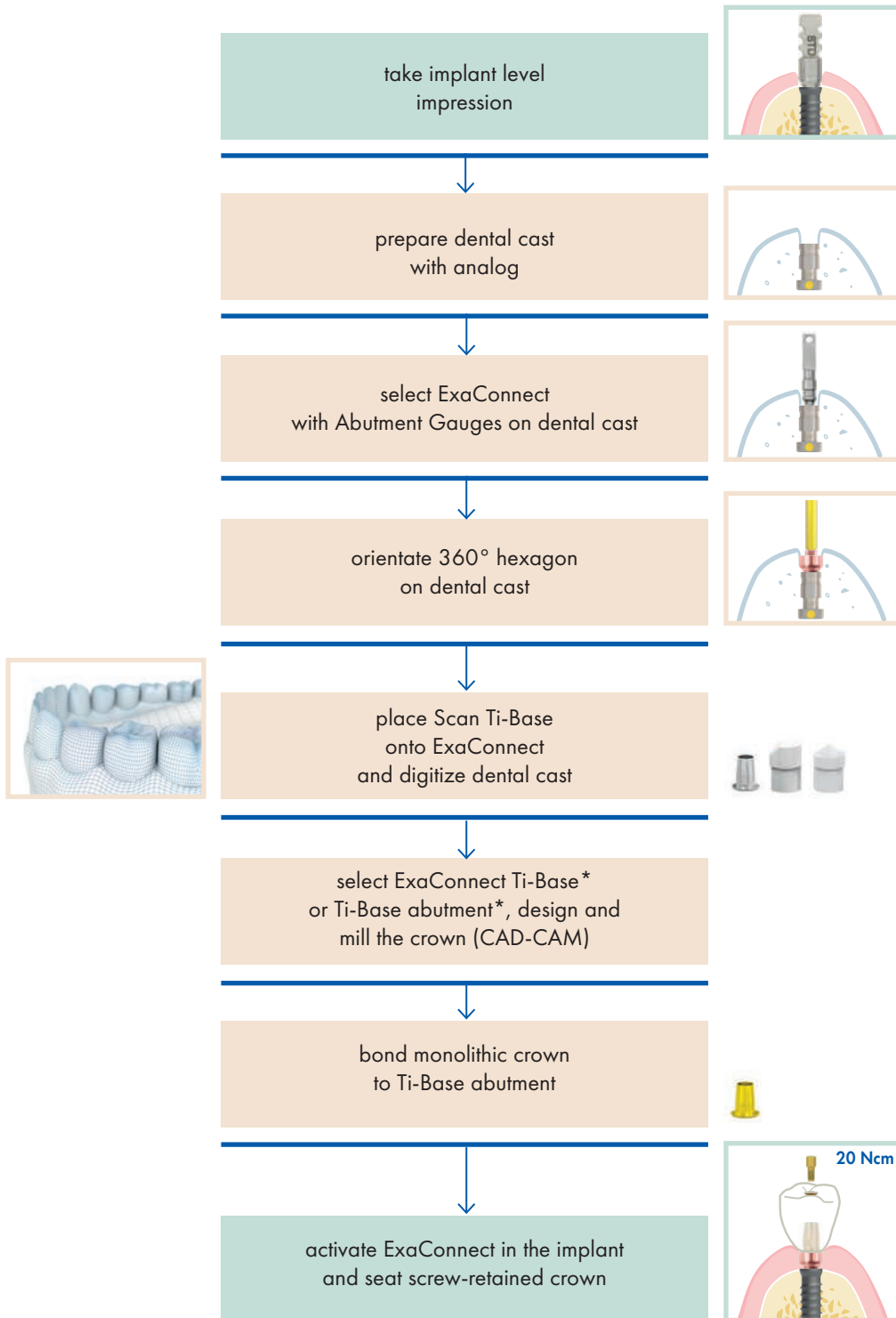
→ Steps carried out by **THE CLINICIAN**
→ Steps carried out by **THE DENTAL LABORATORY**

DIGITAL PROSTHETIC WORKFLOW



SCREW-RETAINED SINGLE CROWN - IMPLANT LEVEL

CONVENTIONAL IMPRESSION TAKING



*As to dental CAD-CAM software including the specified products, please refer to Leone web site www.leone.it under section Implantology and download any updated library.

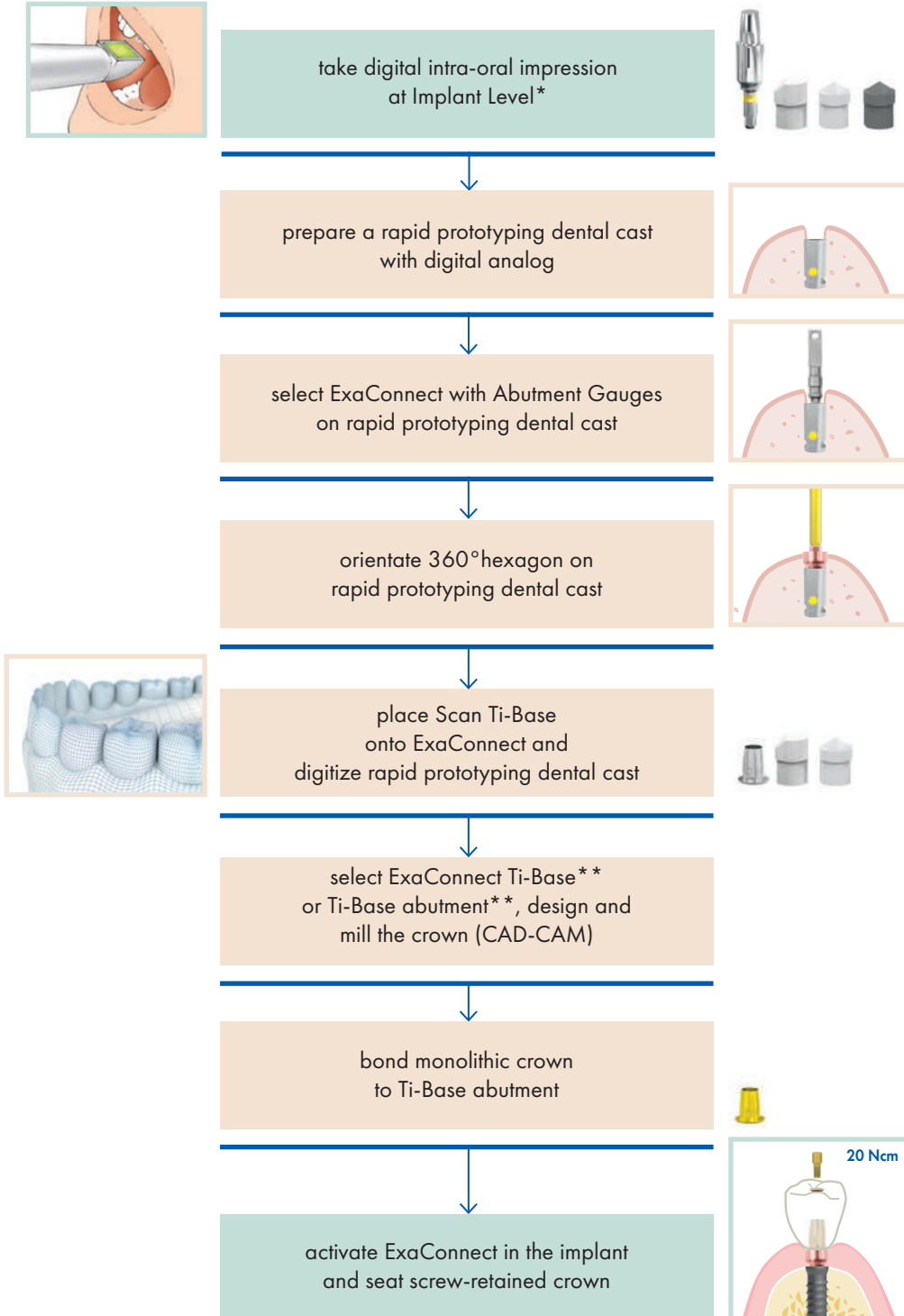
→ Steps carried out by **THE CLINICIAN**
→ Steps carried out by **THE DENTAL LABORATORY**

DIGITAL PROSTHETIC WORKFLOW



SCREW-RETAINED SINGLE CROWN - IMPLANT LEVEL

DIGITAL IMPRESSION TAKING



*Orientate the Scan Post so that the notch is on the buccal side.

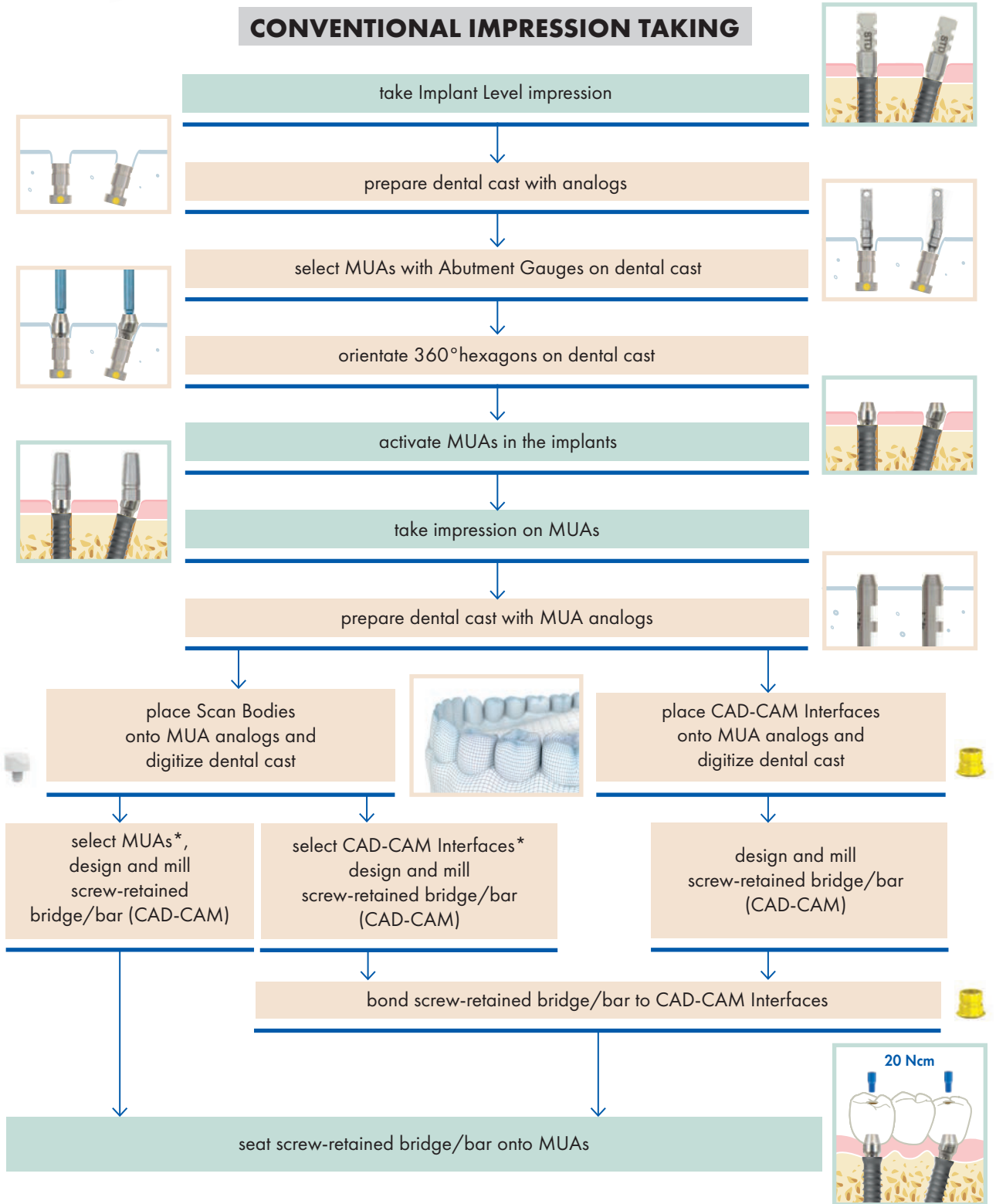
**As to dental CAD-CAM software including the specified products, please refer to Leone web site www.leone.it under section Implantology and download any updated library.

→ Steps carried out by **THE CLINICIAN**
→ Steps carried out by **THE DENTAL LABORATORY**

DIGITAL PROSTHETIC WORKFLOW

SCREW-RETAINED BRIDGE/BAR - IMPLANT LEVEL

CONVENTIONAL IMPRESSION TAKING



*As to dental CAD-CAM software including the specified products, please refer to Leone web site www.leone.it under section Implantology and download any updated library.

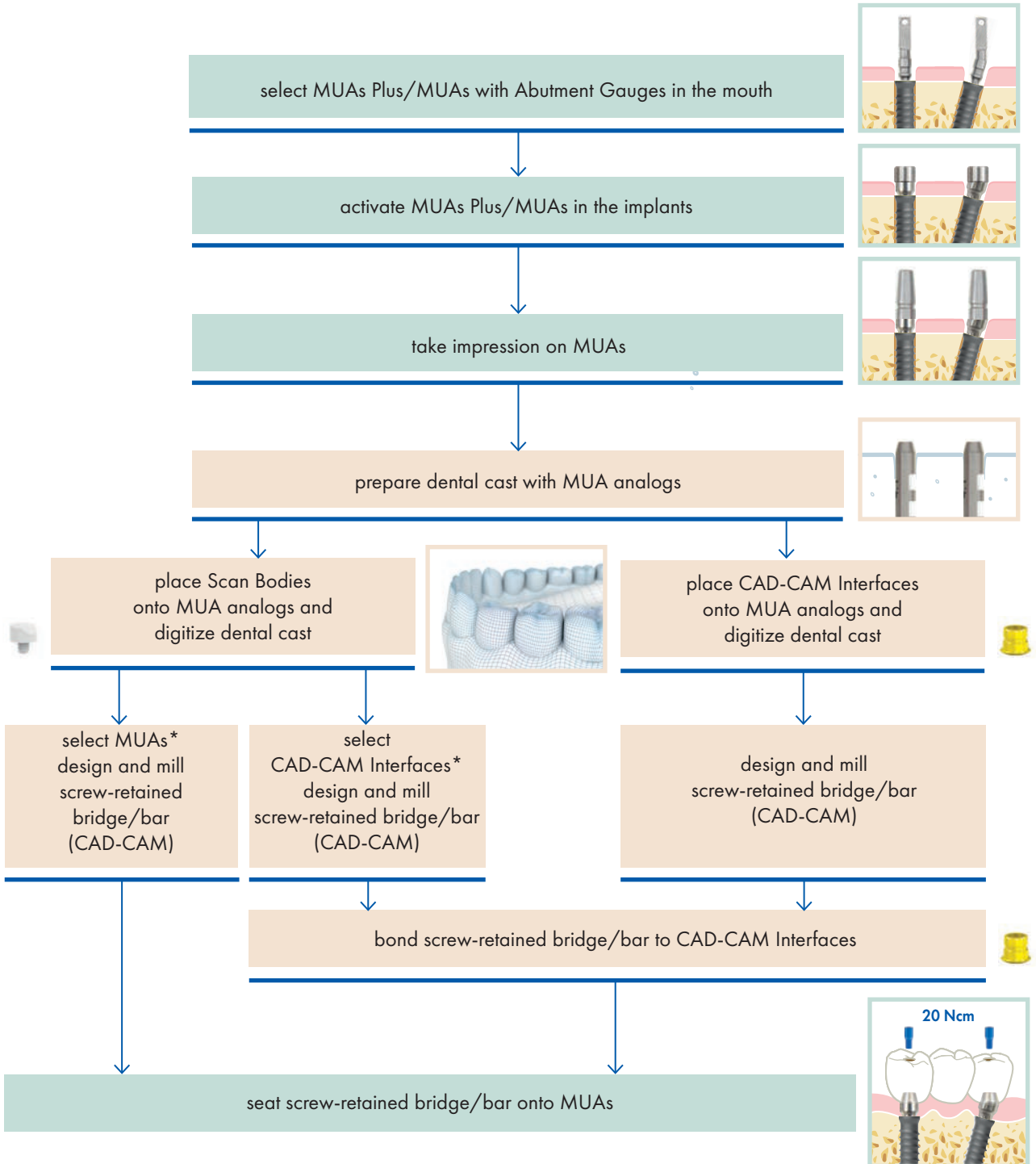
→ Steps carried out by **THE CLINICIAN**
→ Steps carried out by **THE DENTAL LABORATORY**

DIGITAL PROSTHETIC WORKFLOW



SCREW-RETAINED BRIDGE/BAR - ABUTMENT LEVEL

CONVENTIONAL IMPRESSION TAKING



*As to dental CAD-CAM software including the specified products, please refer to Leone web site www.leone.it under section Implantology and download any updated library.

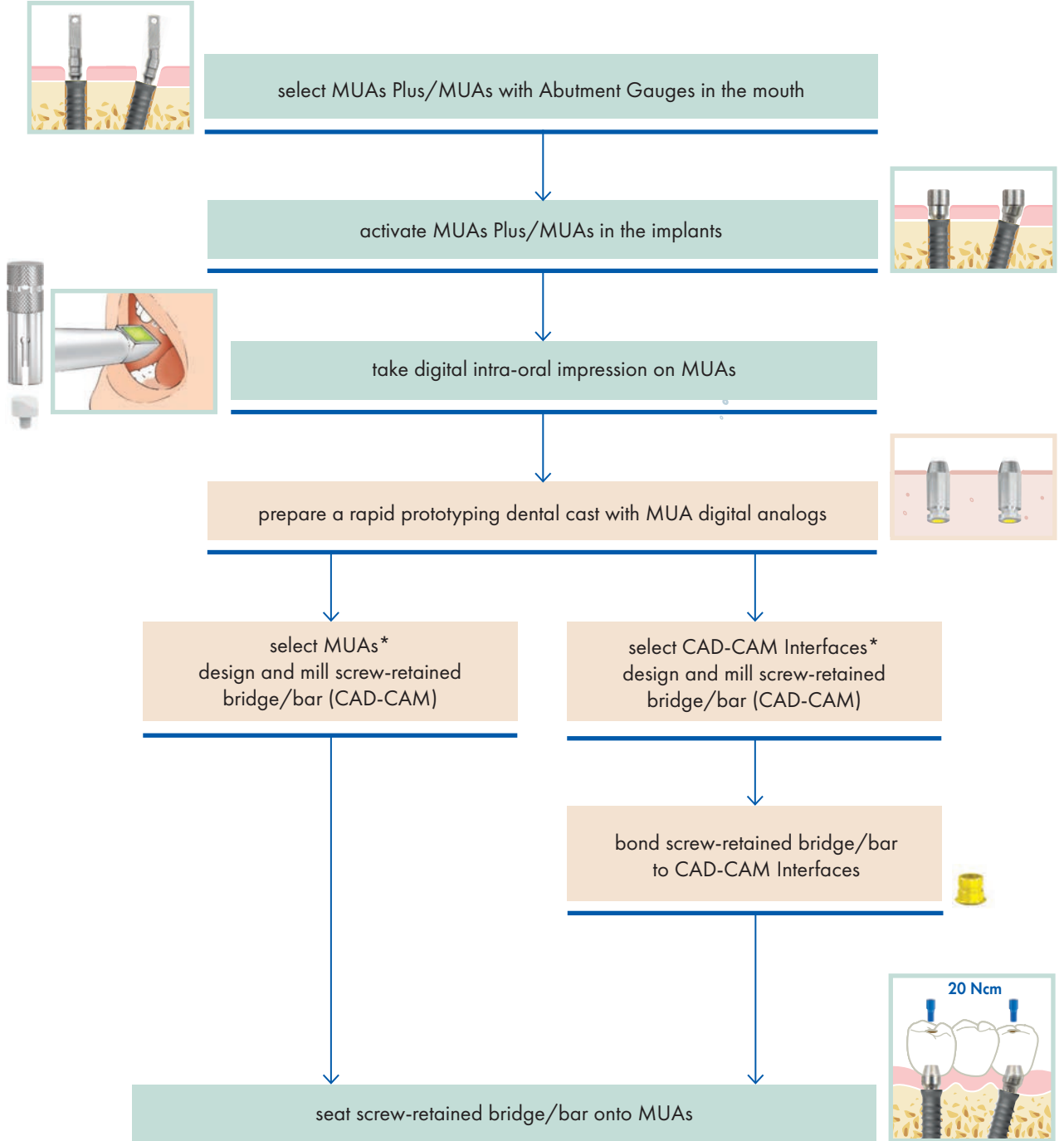
→ Steps carried out by **THE CLINICIAN**
→ Steps carried out by **THE DENTAL LABORATORY**



DIGITAL PROSTHETIC WORKFLOW

SCREW-RETAINED BRIDGE/BAR - ABUTMENT LEVEL

DIGITAL IMPRESSION TAKING



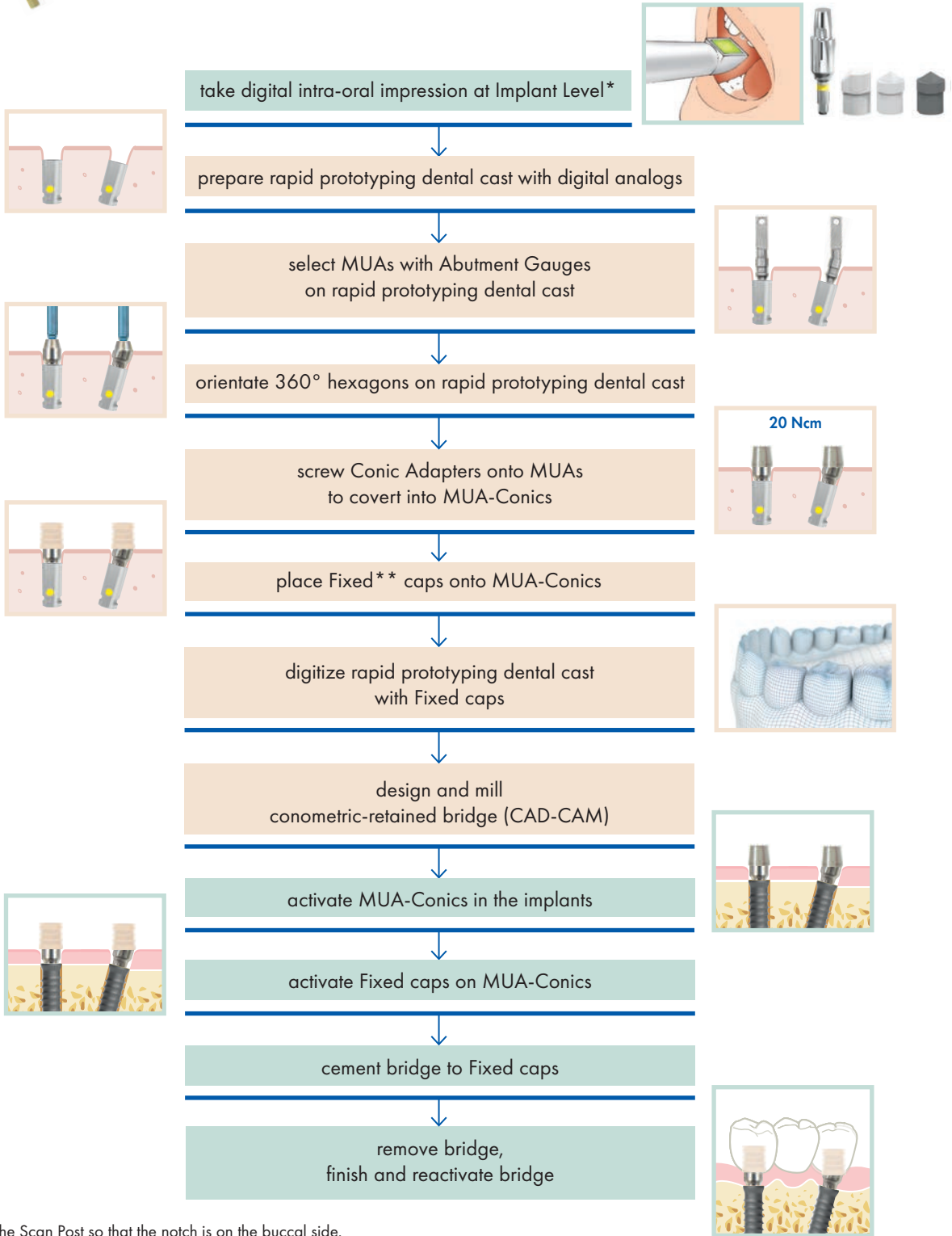
*As to dental CAD-CAM software including the specified products, please refer to Leone web site www.leone.it under section Implantology and download any updated library.

Steps carried out by **THE CLINICIAN** Steps carried out by **THE DENTAL LABORATORY**

DIGITAL PROSTHETIC WORKFLOW

CONOMETRIC-RETAINED BRIDGE WITH FIXED CAPS

DIGITAL IMPRESSION TAKING



*Orientate the Scan Post so that the notch is on the buccal side.

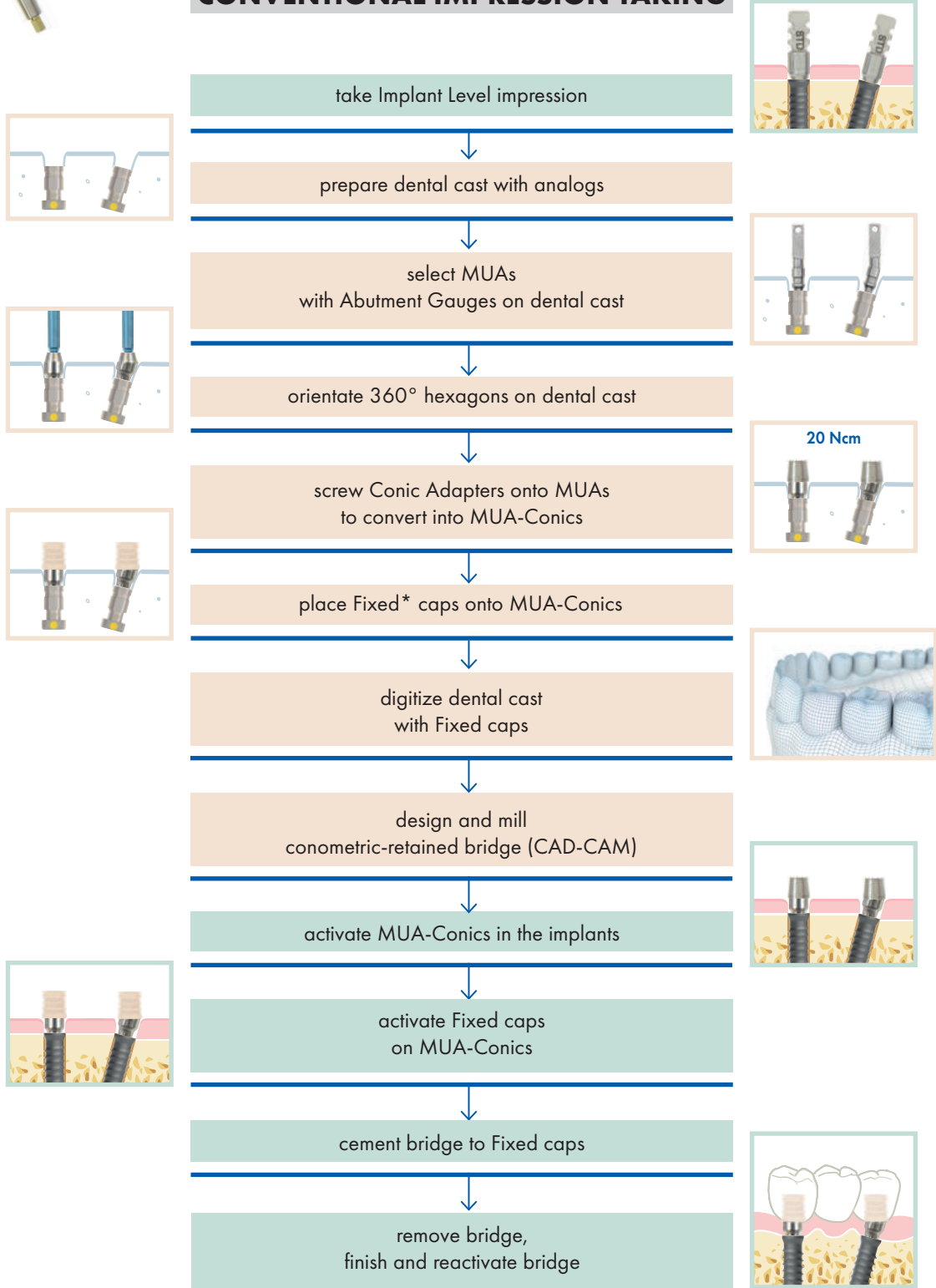
** It is possible to combine the use of the *Light* cap to modulate the retention of the prosthesis (see page 79).

→ Steps carried out by **THE CLINICIAN**
→ Steps carried out by **THE DENTAL LABORATORY**

DIGITAL PROSTHETIC WORKFLOW

CONOMETRIC-RETAINED BRIDGE WITH FIXED CAPS

CONVENTIONAL IMPRESSION TAKING



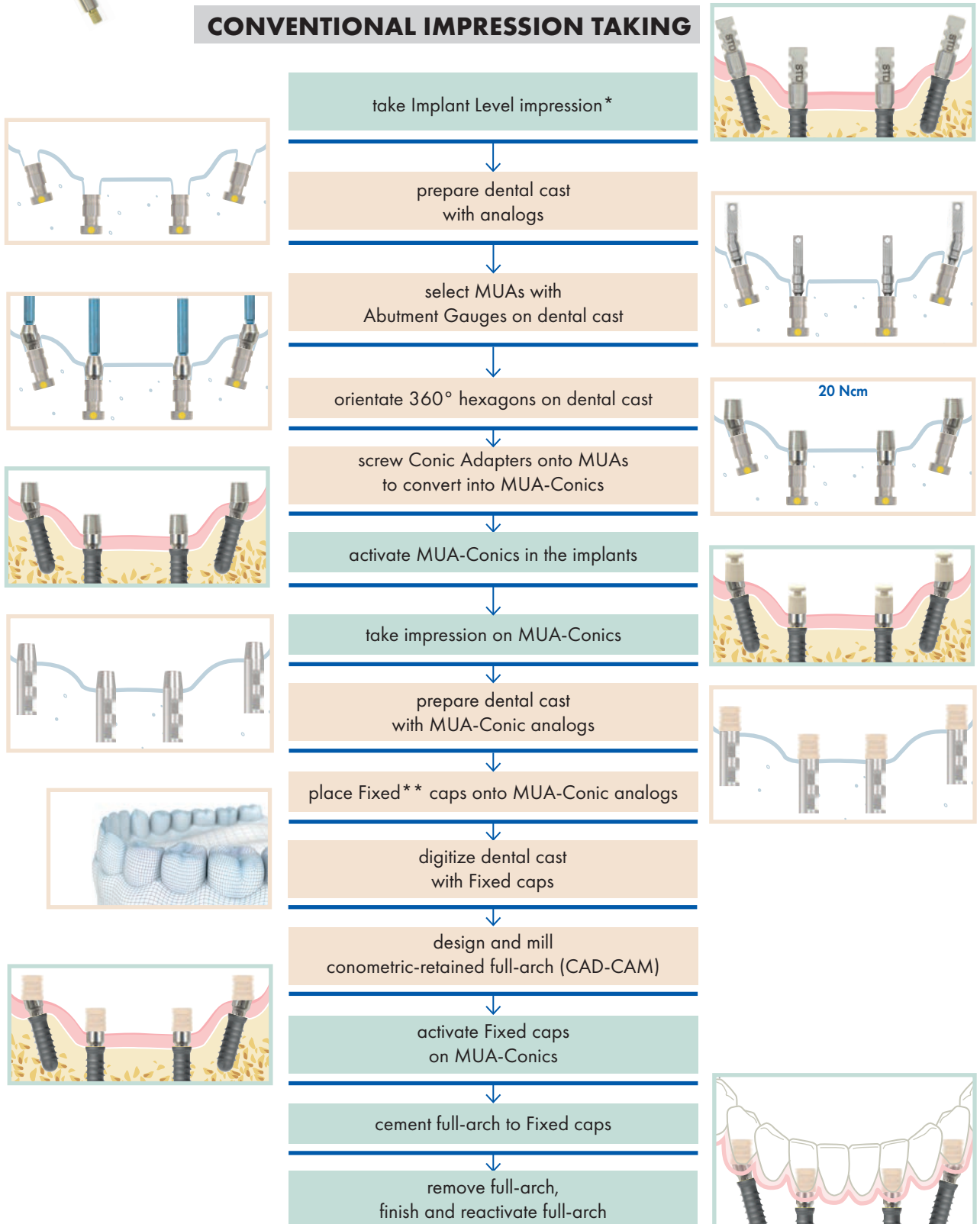
*It is possible to combine the use of the *Light* cap to modulate the retention of the prosthesis (see page 79).

Steps carried out by **THE CLINICIAN**
 Steps carried out by **THE DENTAL LABORATORY**

DIGITAL PROSTHETIC WORKFLOW

CONOMETRIC-RETAINED FULL-ARCH WITH FIXED CAPS

CONVENTIONAL IMPRESSION TAKING



* Alternatively, take a digital intra-oral impression at Implant Level.

** It is possible to combine the use of the *Light* cap to modulate the retention of the prosthesis (see page 79).

→ Steps carried out by THE CLINICIAN
 → Steps carried out by THE DENTAL LABORATORY