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DISINFECTION, CLEANING AND STERILIZATION

Reprocessing procedure for dental instruments

I - FOREWORD

For hygiene and sanitary safety purposes, all instruments must be cleaned, disinfected and sterilized before each usage to prevent any contamination. This concerns the first use as well as the subsequent ones.

Instruments which are marked as "sterile" do not require any specific treatment before the first use, but have to follow this procedure for all subsequent use if not labelled as "single use".

II - AREA OF APPLICATION

Disinfection and sterilisation before each use (except for the first use of sterile instruments) and reprocessing procedures concerning:

DESINFECTION and STERILIZATION

<u>A. Device</u>

A1. Instruments:

Cutting instruments, (hand and engine driven) such as:

Endodontic instruments (files, broaches, reamers, enlargers, endodontic burs, ultrasonic inserts); Rotary cutting instruments (Diamond burs, tungsten carbide burs, stainless steel drills, carbon steel burs). Root canal filling instruments (Pluggers, spreaders, compactors); Hand instruments, clamps and Rubber Dam accessories.

A2. Accessories:

Supports, kits, instrument organisers and other accessories

DESINFECTION ONLY

<u>B. Filling material and calcinable plastic posts:</u> Only chemical disinfection (no sterilisation) Gutta percha, Obturators, Uniclip and Mooser Calcinable plastic posts.

PRESENT PROCEDURE NOT APPLICABLE

C. Exclusion

- Equipment such as Motors, Apex locators and other devices with reprocessing procedures included in the individual Direction for Use.

- MTA, Glyde, TopSeal, Paper Points, Rubber Dam.

III - GENERAL RECOMMENDATION

1 - Use only a disinfecting solution which is approved for its efficacy (VAH/DGHM-listing, CE marking, FDA approval) and in accordance with the DFU of the disinfecting solution manufacturer. For all metal instruments, it is recommended to use anticorrosion disinfecting and cleaning agents

2 - For your own safety, please wear personal protective equipment (gloves, glasses, mask).

3 - The user is responsible for the sterilization or disinfection of the product for the first cycle and each further usage as well as for the usage of damaged or dirty instruments where applicable after sterilization.

4 - It is safest for the practitioner to use our instruments only once. Should our instruments be reused, we recommend to always carefully inspect them before use: the appearance of defects such as cracks, deformations (bent, unwound), corrosion, loss of color coding or marking, are indications that the devices are not able to fulfil the intended use with the required safety level and must therefore be discarded.



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In any case, we recommend not to exceed the following maximum number of uses for our root canal shaping instruments:

Type of canal	Stainless Steel instruments with a diameter ≤ISO 015	Stainless Steel instruments with a diameter >ISO 015	NiTi instruments	
extremely curved (>30°) or S-shaped canals	1 canal max	2 canals max	2 canais max	
moderately curved canals (10° to 30°)	1 canal max	4 canals max	4 canals max	
slightly curved (<10°) or straight canals	1 canal max	8 canals max	8 canals max	

5 - Single use marked devices are not approved for re-use.

6- The water quality has to be convenient to the local regulations especially for the last rinsing step or with a washer-disinfector.

7 - Tungsten carbide burs, plastic supports, hand instruments and NiTi instruments are degraded by Hydrogen Peroxide (H_2O_2) solution.

8 – Only the active part of the-NiTi Instruments should be immersed in a NaOCI solution at NOT more than 5%.

9 - Do not use acid (pH < 6) or alkaline (pH > 8) solutions with aluminium devices. These types of devices are degraded in presence of caustic soda solutions with mercury salt.

10- The washer-disinfector is not recommended for devices made of aluminium, tungsten carbide or carbon steel.



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IV - STEP-BY-STEP PROCEDURE

A. Devices

			A3. Contra Angle				
			A1. Instruments Following uses		5	1	
		¥	A2 Accessories Fir.	st use			
	Operation	Operating mode	Warning				
1.	Disassembling	- Disassemble the device, if required	Silicone stops have to be removed.			х	
2.	Pre-Disinfection	detergent and disinfecting solution combined with proteolytic enzyme if possible.	 Follow instructions and observe concentrations immersion times given by the manufacturer (an concentration may cause corrosion or others de instruments). The disinfecting solution should be aldehyde fr blood impurities fixation) and without di- or trieth as corrosion inhibitor. Do not use disinfecting solutions containing Ph products which are not compatible with the instr (See general recommendations). For visible impurities observed on instruments cleaning is recommended by brushing them mai soft material. 	excessive fects on ree (to avoid nanolamines nenol or any uments a pre- nually with		×	
3.	Rinsing	1 min)	 Use quality water in accordance with local regulations. If a pre-disinfectant solution contains a corrosion inhibitor, it is recommended to rinse the instruments just before the cleaning. 			x	
4a.	Automated Cleaning with washer- disinfector	 Place the devices in a kit, support or container to avoid any contact between instruments or posts. Put them in the washer- disinfector 	 Discard any instruments with large obvious def (broken, bent). Avoid any contact between instruments or posiplacing in the washer-disinfector use kits, support container. Follow instructions and observe concentrations the manufacturer (see also general recommendations) of the second second manufacture of the second second manufacturer (see also general recommendations). Use only approved washer-disinfector according is the second second second manufacture. Use only approved washer-disinfector according is the second se	ts when orts or s given by ations).	x	x	x
OR			<u> </u>			L	· · ·
4b		avoid any contact between instruments. - Immerse in the disinfecting solution with cleaning properties, assisted by an ultrasonic device if suitable.	 No visible impurities should be observed on the instruments. Discard any instruments with large obvious def (broken, bent, and twisted). Follow instructions and observe concentrations given by the manufacturer (see also general recommendations). The disinfecting solution should be aldehyde fr without di- or triethanolamines as corrosion inhited. 	fects s and time ee and	x	x	
5.	Rinsing	1 min)	 Use quality water in accordance with local regularies of the disinfecting solution contains a corrosion in recommended to rinse the instruments just befor autoclaving. Dry on a single use non-weaved cloth, or with a machine or filtered compressed air. 	hibitor, it is re the	x	x	
6.	Inspection	- Inspect devices and sort out those with defects. - Assemble the devices (stops)	 Dirty instruments must be cleaned and disinfed Discard instruments which show any defect as in the General Recommendation above. Protect carbon steel bur with corrosion inhibitor packaging. For Contra Angle : lubricate the device with an spray before packaging 	described r before	x	x	x



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			A3. Contra Angle				
			A1. Instruments	Following uses	s	_]
			A2 Accessories	First use			
	Operation	Operating mode	Warning	Warning			
7.	support or container to avoid any contact between		sterilization. Use kits, supports or containers - Check the validity period of the pouch give manufacturer to determine the shelf life. - Use packaging which are resistant up to a	s. n by the temperature of	x	×	x
8.	Sterilization	- Steam sterilisation at: 134 °C / 273°F during 18 min	 141°C (286°F) and in accordance with EN ISO 11607. The instruments, posts and the plastic supports must be sterilized according to the packaging labelling. Use only autoclaves that are matching the requirements of EN 13060, EN 285. Use a validated sterilisation procedure according ISO 17665 		x	×	x
9.	Storage	 Keep devices in sterilization packaging in a dry and clean environment 	 Sterility cannot be guaranteed if packaging damaged or wet. Check the packaging and the medical devicusing them (packaging integrity, no humidity period). 	ces before	x	x	x

B. Filling material and calcinable plastic posts

1.	Operation	Operating mode	Warning
	Disinfection		- Do not use disinfecting solutions containing Phenol or any products which are not compatible with the treated filling material (See general recommendation).