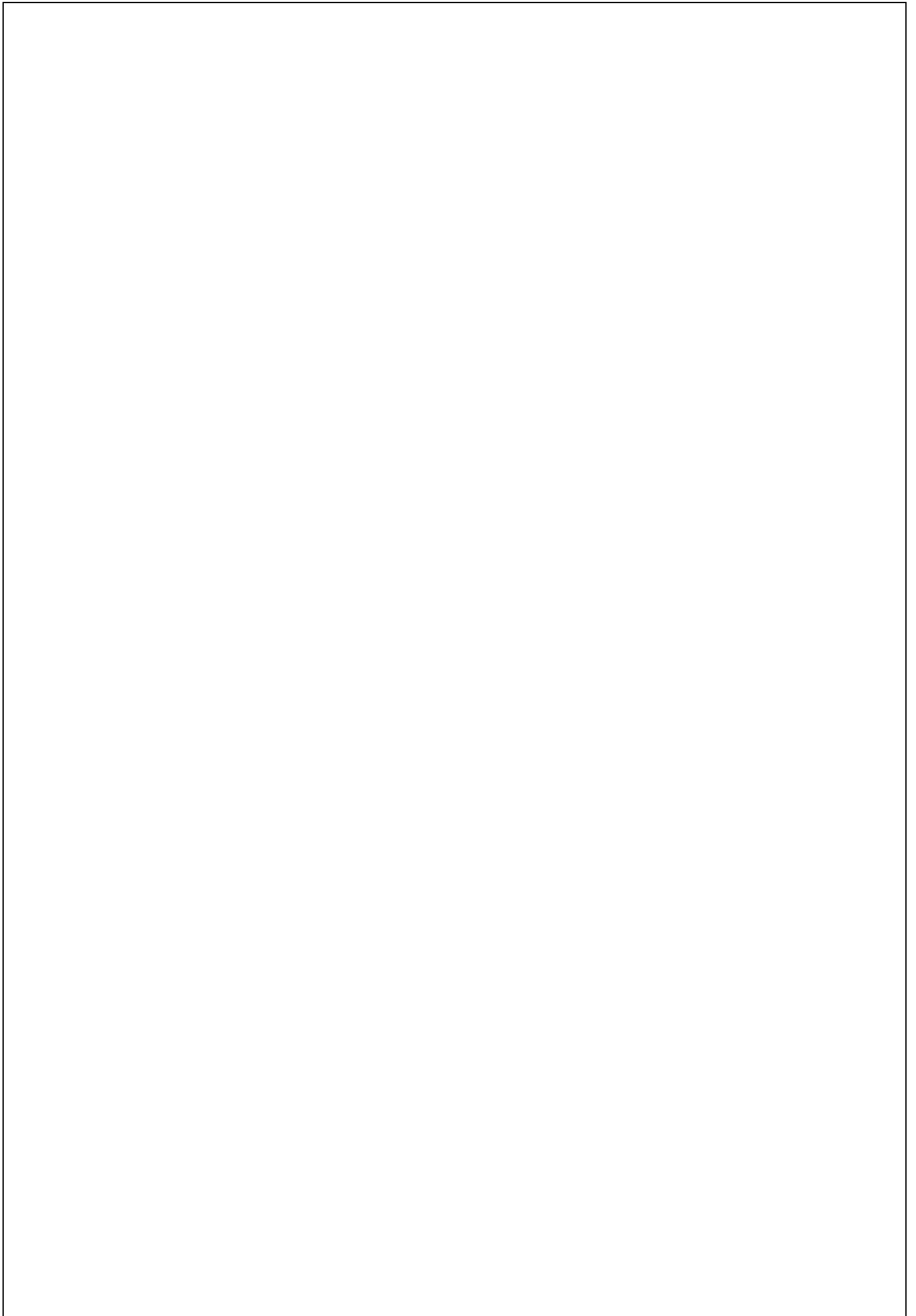




**Clinical and cleaning protocols**  
**AIR-N-GO<sup>®</sup> PERIO**



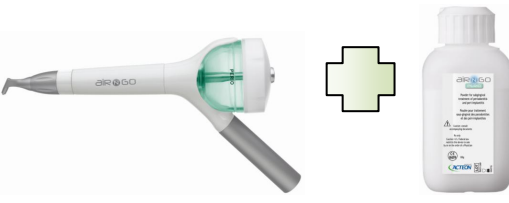



# Clinical Protocol and cleaning SATELEC® AIR-N-GO® PERIO nozzle

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## I - SUMMARY TABLE

Configuration	Application
<b>SUPRA Nozzle</b> 	Prevention without disease for pockets up to 5 mm
	Prevention of periodontal disease and peri-implantitis for pockets > 5 mm
	Maintenance on treated periodontal patients
	Surgical intervention: Biofilm removal during open flap debridement
<b>PERIO Nozzle</b> 	Treatments of periodontal diseases and peri-implantitis

## II - THE USE OF AIR-N-GO® WITH SUPRA NOZZLE - CONFIGURATION WITH THE PERIO POWDER



### a) Prevention without disease

In SUPRA function with SUPRA nozzle & green tank, AIR-N-GO® can be also used in combination with AIR-N-GO® PERIO powder, on teeth or implants, for pockets up to 5mm in order to control the bacterial flora in a maintenance procedure.

### **b) Prevention of periodontal disease and peri-implantitis**

For the prevention of periodontal disease and peri-implantitis the AIR-N-GO<sup>®</sup> **PERIO** powder is recommended on the pockets above 5mm. Exposed root surfaces, restorations and composite fillings should be treated only with AIR-N-GO<sup>®</sup> **PERIO** powder to reduce the substance removal and to prevent further tooth sensitivity.

Implant surfaces should also only be treated with AIR-N-GO<sup>®</sup> **PERIO** powder. Studies have shown the benefit of **Glycine** on implant surfaces and observed no changes of the surface.

Generally, hard deposits have to be removed by an ultrasonic device or hand instruments.



Clinical case courtesy of  
Dr G. GAGNOT  
Scaling with tip n°1 by  
SATELEC®.



Clinical case courtesy of Dr E. NORMAND  
Sub-gingival scaling on molar with the P2R tip by  
SATELEC®.

*(Clinical studies with a similar device are available upon request).*

### **c) Maintenance on treated periodontal patients**

**PERIO** powder can also be used to prevent the progression of periodontal diseases.

### **d) Surgical intervention**

For biofilm removal during open flap debridement on tooth and implant, **PERIO** powder can also be used. After the treatment with AIR-N-GO<sup>®</sup>, the surgical field should be thoroughly cleaned by sodium chloride (NaCl).

### III - THE USE OF AIR-N-GO® WITH PERIO NOZZLE - CONFIGURATION WITH THE PERIO POWDER



#### a) Treatment of periodontal diseases and peri-implantitis

#### **WARNING:**

Sub-gingival treatment must be performed exclusively with AIR-N-GO® PERIO powder combined with the PERIO nozzle and Green tank of the AIR-N-GO® device.

- ✓ Target: Treatment of periodontal diseases and prevention of peri-implantitis (pockets > 4mm)

#### i. 1<sup>st</sup> STEP: Initial Therapy - Subgingival Treatment

Prior to subgingival AIR-N-GO® use, it is essential to perform the Initial Therapy. The patient has to receive hygiene guidelines and appropriate and suitable hygiene products.

After this information the supragingival treatment with different instruments like ultrasonic, hand-instruments, SUPRA nozzle should be performed.



BEFORE

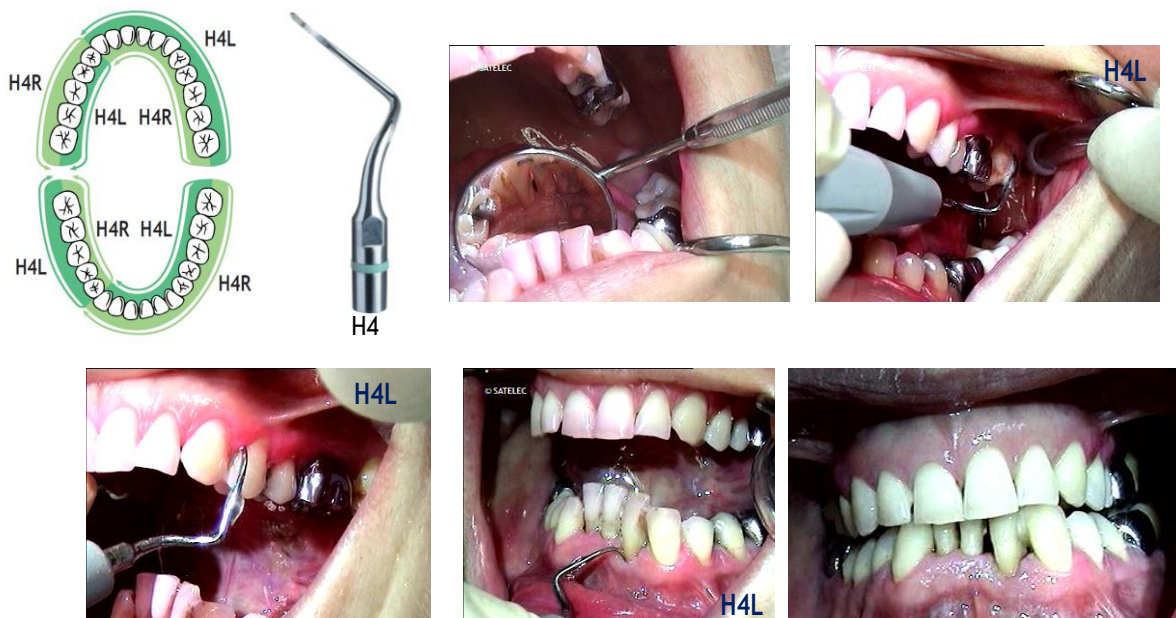


AFTER

Clinical case courtesy of Dr G. GAGNOT  
Use of AIR-N-GO SUPRA with « CLASSIC » Neutral powder after scaling with SATELEC® ultrasonic tips H4R and L.







**STEP 2 :** Pockets Debridement on posterior tooth with H4L and H4R tips

**ii. 2<sup>nd</sup> STEP: Additional biofilm removal**

It usually takes seven to ten days before initial re-attachment of the collagen fibers to the root takes place. Once the inflammation or bleeding has subsided, AIR-N-GO® **PERIO** can then be used in step two.

This procedure has an additional benefit to completely remove the biofilm of the treated root surface.

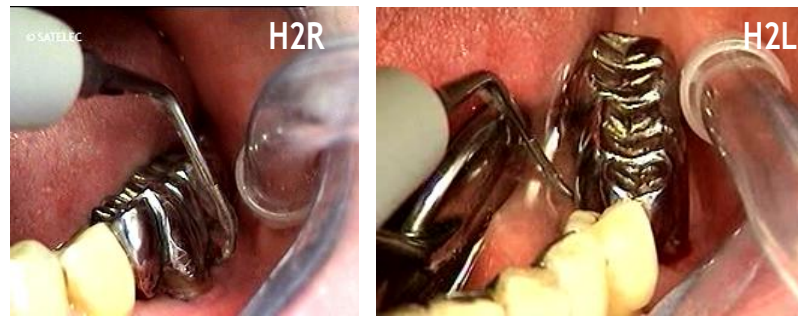
On a natural tooth, the AIR-N-GO® **PERIO nozzle** is recommended exclusively to treat pockets that are greater than 4 mm in depth but not deeper than 10mm (3mm of firm bone should remain around the apex. An X-ray should be taken to confirm).

There should not be periodontitis radicularis.

The AIR-N-GO® **PERIO** treatment can be applied only after checking that there is no more bleeding on probing and when the pocket opening is sufficient to allow the **PERIO nozzle** to be inserted.



Another treatment can be offered as an alternative. The H2L/ H2R tips can also be used to complete this initial subgingival procedure treating furcations and very narrow spaces for biofilm removal.



Clinical case courtesy of Dr. G. GAGNOT  
Parodontal debridement - furcations treatments  
with H2L and H2R tips by SATELEC®

For situations with high demands on biofilm management a full mouth therapy with AIR-N-GO® use can be provided. For this approach a full mouth debridement with **Glycine** powder -supra- and subgingivally on all teeth and all mucous tissues- is used for suppressing periodontal pathogens. This kind of treatment results in a strong shift of oral microbiota. For subgingival debridement, the **PERIO nozzle** with the **PERIO powder** is recommended for supragingival and tissue debridement the **SUPRA nozzle** and the **PERIO powder** should be used.

### *iii. 3<sup>rd</sup> STEP: Reevaluation*

After the second step treatment, the full healing time of the collagen fibers of 6 to 8 weeks should be permitted.

The second probing should be performed to assess probing depths in pathological range to diagnose or exclude further treatment.

- \* In case of a good pocket closure, we recommend you to use the AIR-N-GO® device every 6 - 8 weeks in the **SUPRA** configuration with the AIR-N-GO® **PERIO powder**.

(Prior to the application of the AIR-N-GO® **PERIO powder**, the use of ultrasonic tips for cleaning and debridement of the periodontal pockets may not be necessary.) **In order to preserve the soft tissues, NEVER USE FORCE to get the nozzle inside the pocket:**

- \* In case of a bad pocket closure, and if some inflammation (pocket depth up to 5mm) and bleeding remain, you should search for remaining hard deposits. In case there is no hard deposit proceed to a light pocket debridement described in step 2.

As a reminder, we recommend the use of the P2L and P2R on natural tooth and Periosoft™ on the implants.

For peri-implantitis, please follow the same steps as above. In short, prior to application of AIR-N-GO® PERIO the pocket must first be, probed, cleaned and debrided of hard deposits with ultrasonic tips and/or manual instrumentation.



Clinical case courtesy of. Prof. U. SAXER  
Treatment of peri-implantitis using  
AIR-N-GO PERIO nozzle after pockets probing and debridements

The healing time surrounding implants takes up to 3 months.

#### IV - USING THE PERIO NOZZLE

A protocol for using the PERIO nozzle with glycine-based, AIR-N-GO® PERIO powder on the AIR-N-GO® device.

(For more details, please refer to user's manual)

- Patient and practitioner should wear accessories for protection (mask and glasses).

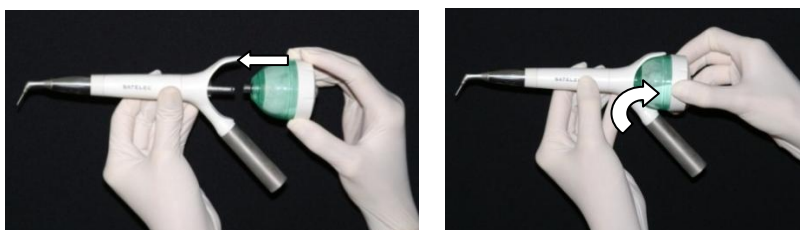
- Mount the **PERIO** nozzle on the AIR-N-GO<sup>®</sup> device.



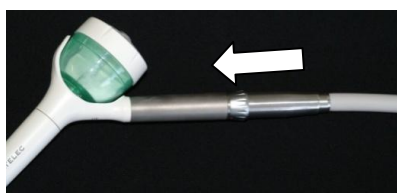
- Fill-in the **PERIO** tank with AIR-N-GO<sup>®</sup> **PERIO** powder exclusively.



- Attach the green CLIP-N-GO **PERIO** tank to the handpiece by rotating it one quarter turn clockwise.

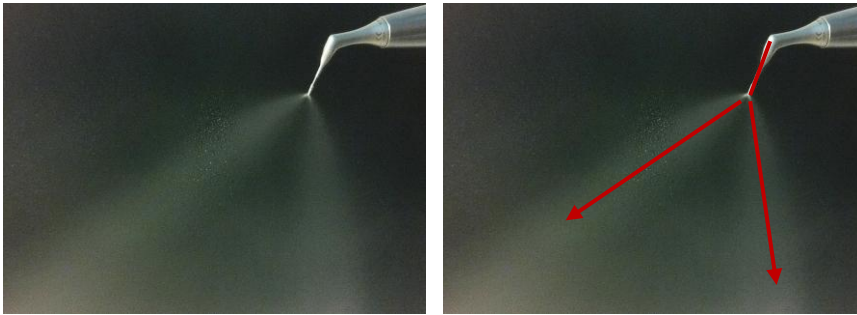


- Connect AIR-N-GO<sup>®</sup> **PERIO** system to your turbine coupling.

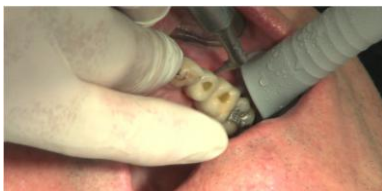


**!** The AIR-N-GO<sup>®</sup> **PERIO** kit is exclusively dedicated for sub-gingival treatment of periodontitis and peri-implantitis.

- Control the water pressure of the handpiece. The jet of the powder-air-water mixture must be symmetrical.



- Use the surgical suction tube and maintain it near the treated area for cleaning the operatory area.



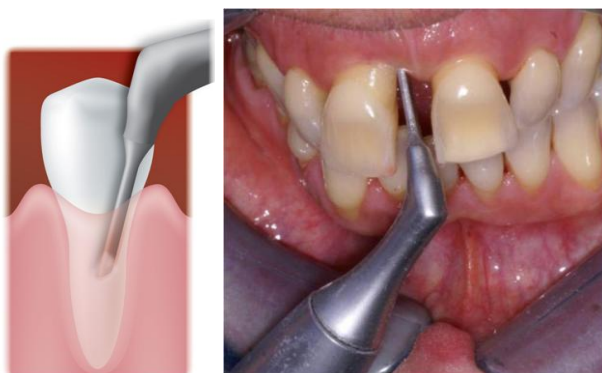
- Treat your patient as required.

- Each tooth or implant must be treated individually.

- Make sure there is no excessive bleeding during probing.

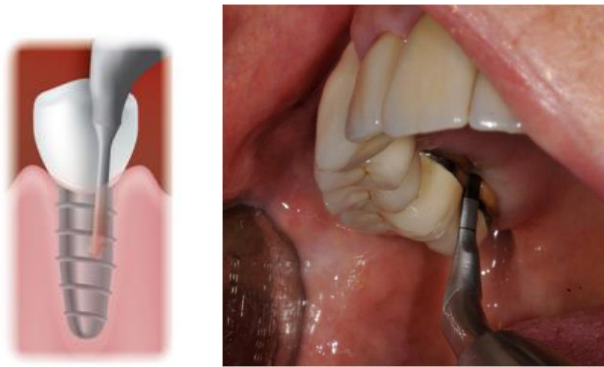


- Insert the nozzle to the bottom of the pocket exerting the same amount of pressure as with a periodontal probe.



Clinical case courtesy of Dr. G. GAGNOT

**Treatment of periodontitis**  
Penetration into a 5 mm pocket with the PERIO nozzle.



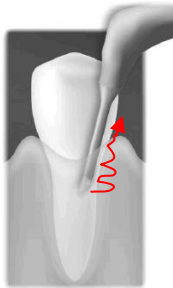
Clinical case courtesy of Dr. NORMAND

**Treatment of peri-implantitis**  
Penetration into a 5 mm pocket with  
the PERIO nozzle.

- Activate the AIR-N-GO<sup>®</sup> device with your pedal and only when the nozzle is inside the pocket.



- Gently move the nozzle upwards moving it slowly from side to side without pressure for five seconds per side/surface.



- Leave AIR-N-GO<sup>®</sup> activated even when you have gone past the top of the pocket. The gingival margin must be treated slightly in order to obtain an optimal result.
- After releasing the foot pedal, an air/powder jet may continue to spray a few seconds. Wait few seconds before removing the nozzle from the mouth in order not to disseminate more powder in the room.

During the healing period the patient should be recommended to use a 0.2% chlorhexidine gluconate solution twice a day during 1-4 weeks (according to the treatment plan).



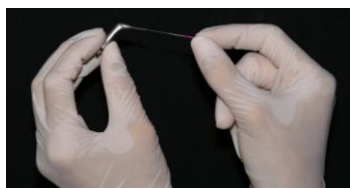
## V - PROTOCOL FOR CLEANING THE PERIO NOZZLE

(For more details, please refer to user's manual)

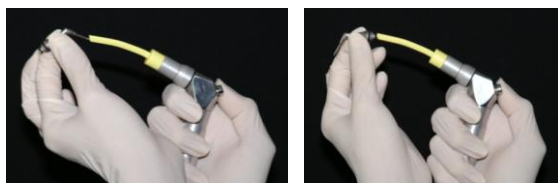
→The nozzle must be unscrewed after each treatment.



→ Remove any residual powder in the PERIO nozzle, using only the PERIO nozzle cleaning probe provided in your kit AIR-N-GO® PERIO.



→ Clean the PERIO nozzle from the front and rear using the air spray on the AIR / WATER syringe built into the chair.



→ Rinse under running cold tap water for at least one minute.

→ Immerse the PERIO nozzle in an ultrasonic tank containing 2 cm (0.8 inch) of Listerine<sup>1</sup>® or other mouth wash polar solvent (e.g. Ethanol as contained in Listerine) for at least 10 minutes.

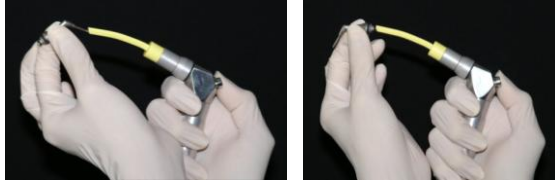


<sup>1</sup> Listerine® is a registered trademark of Pfizer

→ Remove the nozzle and tap on a hard surface to remove any last particles that may remain.

→ Rinse under running cold tap water for at least 30 seconds.

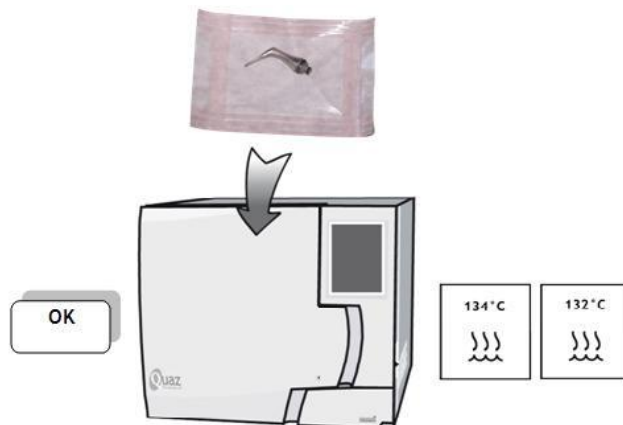
→ Dry the nozzle again using the air spray.



→ Place the nozzle in a sterilization bag.



→ Sterilize in a class B autoclave at 134° for 18 min. \*If you do not have a “class B” Autoclave, please follow your autoclave manufacturer’s recommended settings for sterilization.



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