

CARIES AND PERIO PREVENTION

Protocol for Biofilm Management on teeth, implants and soft tissues.



This 14 year old patient has a significant lack of oral hygiene. Disclosing agent reveals massive acidogenic biofilm.

Picture: Courtesy of Dr. Gleb Aseev

BIOFILM-FREE WITH GBT*

GBT IS A GAME CHANGER – HIGHLY PREVENTIVE AND MINIMALLY INVASIVE

* With the correct Swiss Dental Academy (SDA) training and by following the GBT Guidelines an experienced dental professional can eliminate almost 100% of dental biofilm in one recall session.

Stiftung Warentest reports in a study that only 50% of dental biofilm was eliminated in difficult areas (interdental, gingiva margin, fissures) during PZR (Professional Tooth Cleaning) in 10 dental cabinets that offered PZR at extra cost.

IGEL monitor, an initiative of German health insurances rated the benefits of PZR as unclear (not proven).

EMS⁺
MAKE ME SMILE.

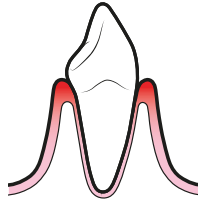
THE AIM OF GBT IS

GINGIVITIS

2-tone disclosing agent visibly reveals the presence of early and mature biofilm. The sulcus area (gingival margin) shows mature biofilm due to an improper brushing technique leaving biofilm untouched.

In this case, GBT was limited to AIRFLOW® PLUS Powder up to 3mm. Some bleeding from the gingival margin (red line) indicates low-grade gingivitis. GBT fosters the patient's motivation to use correct tooth brushing techniques.

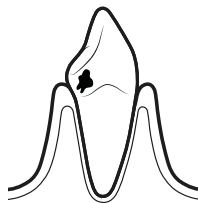
- ▶ GBT prevents and treats gingivitis



CARIES DETECTION

Accurate caries detection requires clean teeth. Here, the 2-tone disclosing agent shows the presence of biofilm, interdental as well as in the gum margin. Finally GBT reveals interdental caries at an advanced stage.

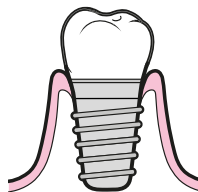
- ▶ GBT helps to detect caries precisely.
- ▶ No more biofilm: No more caries.



IMPLANTS

In this sequence of initial peri-implantitis treatment, AIRFLOW® removes supra- and subgingival biofilm up to 4mm. The disclosing agent color helps to minimize treatment time. PERIOFLOW® removes biofilm in peri-implant pocket up to 9mm. Finally, the PIEZON® PI Instrument removes the remaining calculus around the implant.

- ▶ GBT contributes to the treatment of peri-implantitis in a minimally invasive way.



TO ELIMINATE ALL BIOFILM ON TEETH, IMPLANTS AND SOFT TISSUES.



Pictures: Courtesy of Prof. Magda Mensi



Pictures: Courtesy of Beverly Watson



Pictures: Courtesy of Prof. Magda Mensi

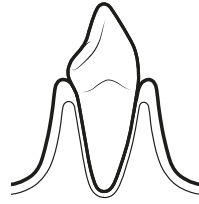
GUIDED **BIOFILM** THERAPY

CHILDREN

In this case, using a 2-tone disclosing agent visibly reveals cariogenic biofilm and helps motivating the young patient.

GBT was limited to AIRFLOW® PLUS Powder giving maximum comfort and improving patient compliance.

- ▶ GBT motivates children and prevents caries.

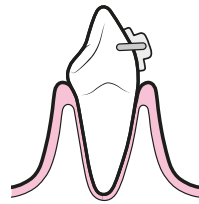


ORTHODONTICS

Orthodontic appliances are a challenge in terms of biofilm management. In this case, a 3-tone disclosing agent reveals cariogenic biofilm (pH < 4,5) in areas difficult to access during home care.

AIRFLOW® PLUS powder during GBT reveals demineralized white spots which were impossible to identify before.

- ▶ GBT prevents caries during orthodontic treatment.
- ▶ GBT maintains orthodontic appliances.

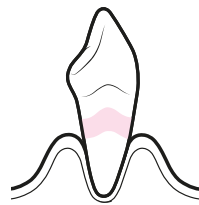


EXPOSED DENTINE

Biofilm and calculus removal on exposed dentine surfaces is usually critical in terms of patient comfort and risk of over instrumentation.

The disclosed biofilm helps to minimize AIRFLOW® treatment and to save time. No more color (of the disclosing agent) - no more biofilm. AIRFLOW® Plus powder and PIEZON® NO PAIN with PS instrument are the best assurance for high quality and painfree treatments.

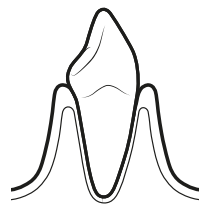
- ▶ GBT preserves exposed dentine preventing sensitivity.



STAINS AND CALCULUS

AIRFLOW® removes stains and facilitates further calculus removal, minimizing power instrumentation.

- ▶ GBT makes patient smile again and regain self esteem.



MORE CASES



Pictures: Courtesy of Dr. Gleb Aseev



Pictures: Courtesy of Dr. Gleb Aseev



Pictures: Courtesy of Prof. Magda Mensi



THE GBT COMPASS AND ITS

08 RECALL

HEALTHY PATIENT = HAPPY PATIENT

- ▶ Schedule recall frequency according to risk assessment
- ▶ Ask your patient if he or she liked the treatment

07 CHECK

MAKE YOUR PATIENT SMILE

- ▶ Do a final check for remaining biofilm
- ▶ Ensure calculus is fully removed
- ▶ Accurately diagnose caries
- ▶ Protect with fluoride

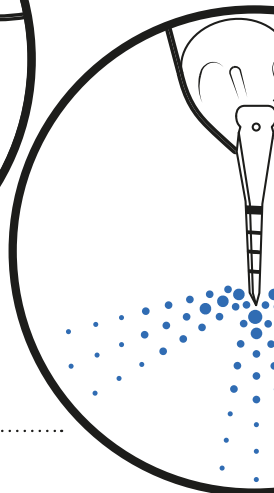
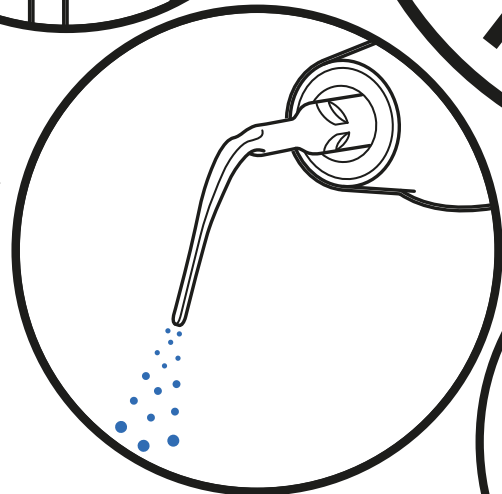
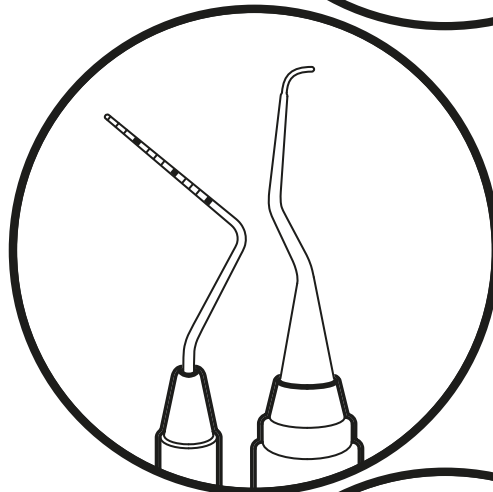
06 PIEZON®

REMOVE REMAINING CALCULUS

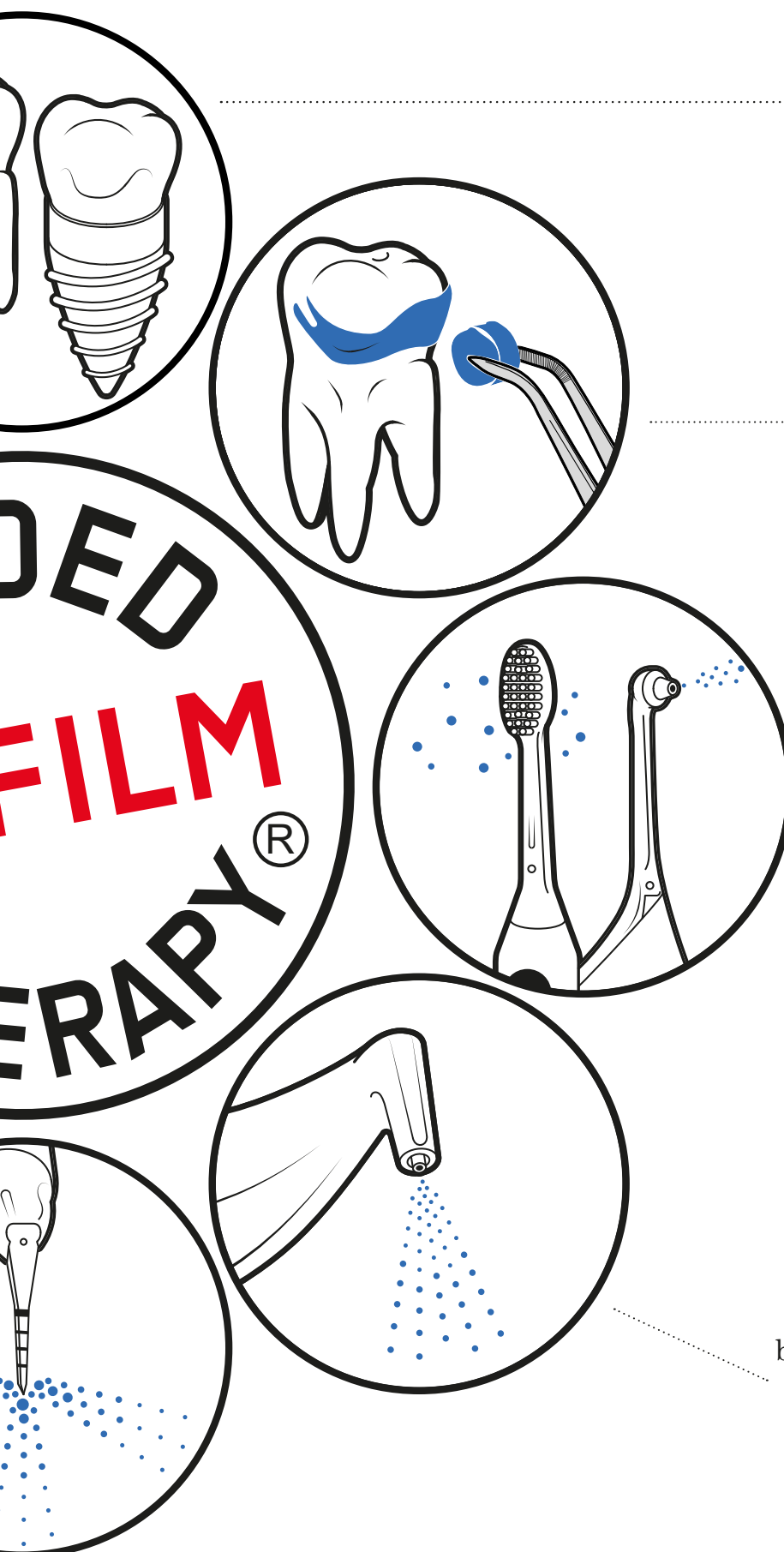
- ▶ Use the minimally invasive EMS PIEZON® PS Instrument supra- and subgingivally up to 10 mm
- ▶ Clean > 10 mm pockets with mini curette
- ▶ Use EMS PIEZON® PI Instrument around implants and restorations

05 PERIOFLOW®

REMOVE BIOFILM IN >4 TO 9 MM POCKETS ▶ Use AIRFLOW® PLUS Powder on natural teeth in deep pockets and root furcations and on implants ▶ Use depth-marked PERIOFLOW® Nozzle



8 STEP PROTOCOL



GUIDED
BIOFILM
THERAPY®

01 ASSESS

PROBE AND SCREEN EVERY CLINICAL CASE

- ▶ Healthy teeth, caries, gingivitis, periodontitis
- ▶ Healthy implants, mucositis, peri-implantitis
- ▶ Start by rinsing with BacterX® Pro mouthwash

02 DISCLOSE

MAKE BIOFILM VISIBLE

- ▶ Show patient disclosed biofilm and problem zones
- ▶ The color will guide biofilm removal
- ▶ Once biofilm is removed, calculus is easier to detect

03 MOTIVATE

RAISE AWARENESS AND TEACH

- ▶ Emphasize prevention
- ▶ Instruct your patients in oral hygiene
- ▶ EMS recommends Sonicare toothbrushes and interdental brushes or Airfloss Ultra

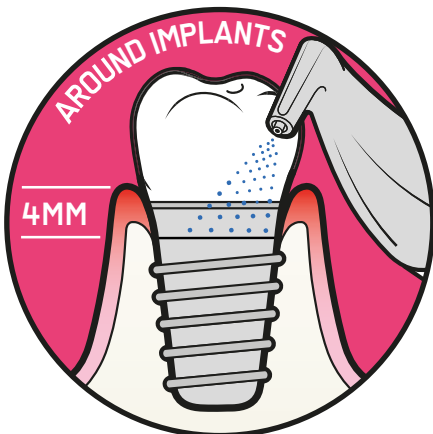
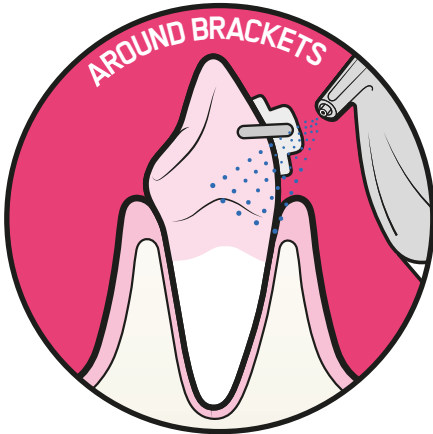
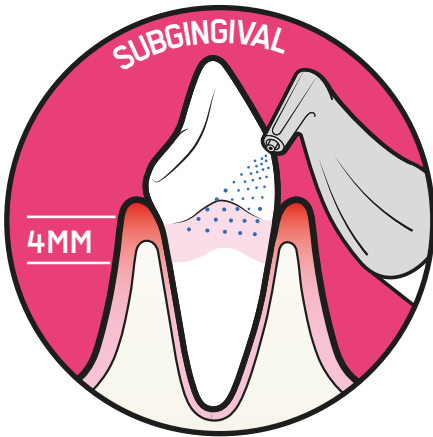
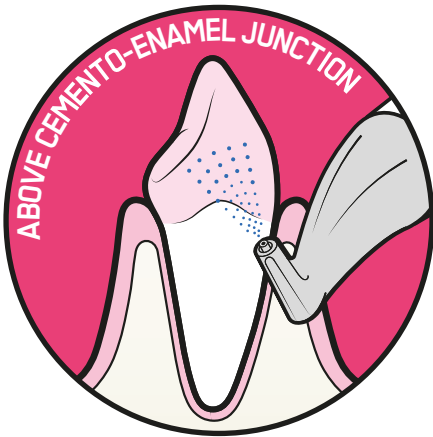
04 AIRFLOW®

REMOVE BIOFILM, STAINS AND EARLY CALCULUS

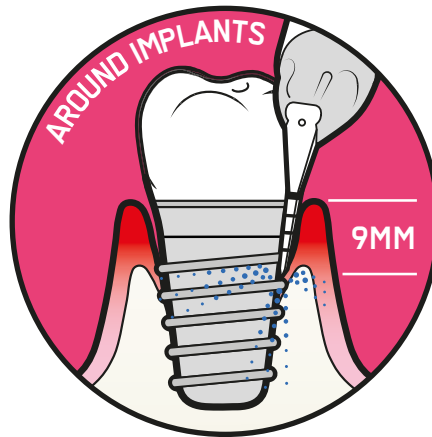
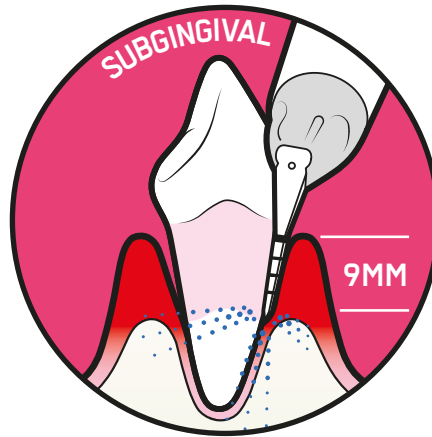
- ▶ Use AIRFLOW® for natural teeth, restorations and implants
- ▶ Remove biofilm supra- and subgingivally up to 4 mm using AIRFLOW® PLUS 14 µm Powder
- ▶ Remove remaining stains on enamel using AIRFLOW® CLASSIC Comfort Powder
- ▶ Also remove biofilm from gingiva, tongue and palate

GBT APPLICATIONS

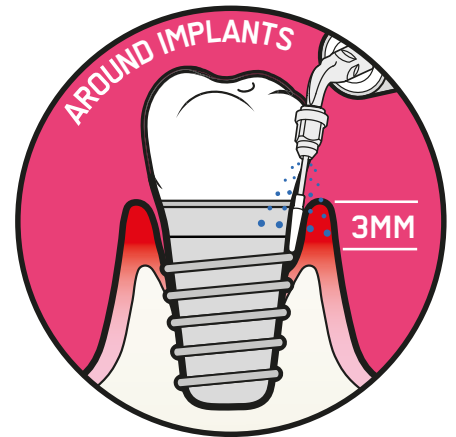
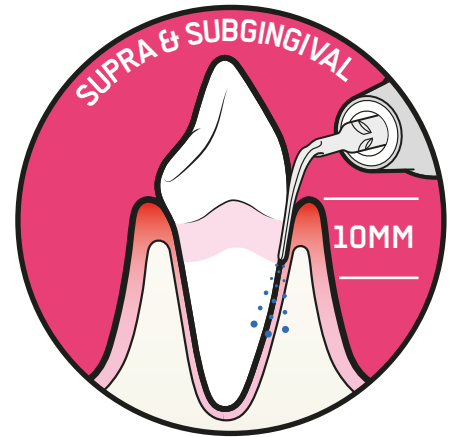
AIRFLOW®



PERIOFLOW®



PIEZON®



GBT IS THE GAME CHANGER

- ▶ HIGHLY PREVENTIVE,
- ▶ MINIMALLY INVASIVE,
- ▶ PAIN-FREE*,
- ▶ GENTLE AND SAFE



*Throughout this document, NO PAIN applies when used in accordance with EMS instructions and/or training by the Swiss Dental Academy.

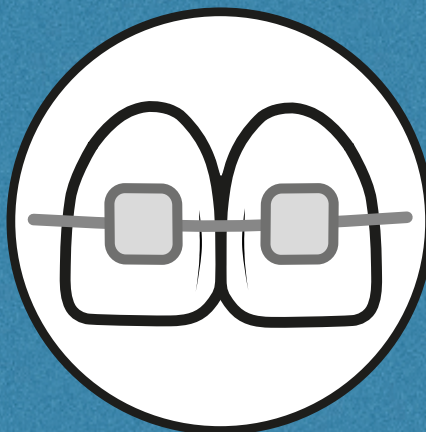
ARE GAME CHANGERS



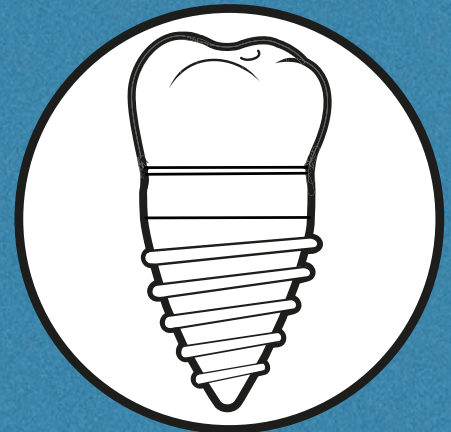
▶ GBT WORKS FOR ALL DENTAL PRACTITIONERS



GENERAL
DENTISTRY



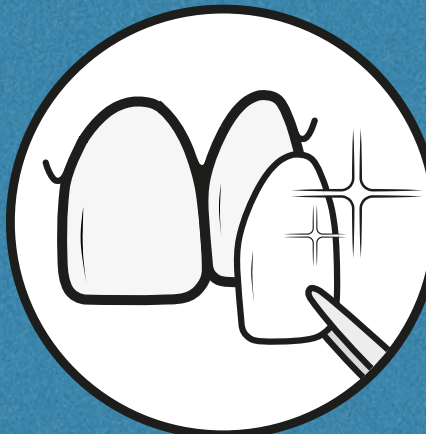
ORTHODONTOLOGY



IMPLANT
DENTISTRY



PEDIATRIC
DENTISTRY



AESTHETIC
DENTISTRY



PERIODONTOLOGY



GERODONTOLOGY



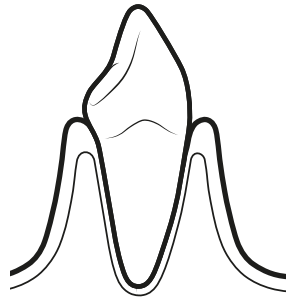
ENDODONTOLOGY



ORAL SURGERY

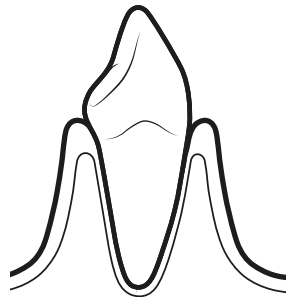
SAVE THE TOOTH

PRESERVE HEALTHY TEETH



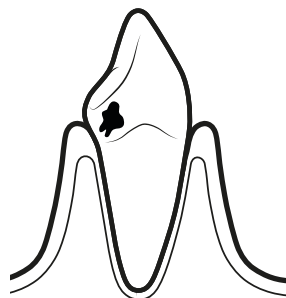
► GBT minimizes the use of power and hand instrumentation. AIRFLOW® is minimally invasive on all types of dental tissues: dentine, cementum, enamel and gums. Minimal abrasion for maximum comfort: GBT enables the patient to enjoy natural teeth and implants for much longer.

PREVENT CARIES



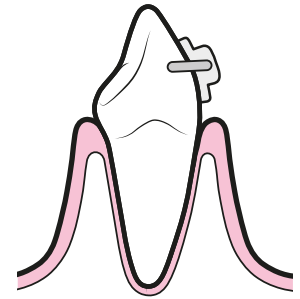
► Biofilm is not always visible to the naked eye. Disclosing biofilm helps to remove all biofilm. GBT prevents caries and gum disease in children and adults. No biofilm = No caries.

DETECT CARIES AT AN EARLY STAGE



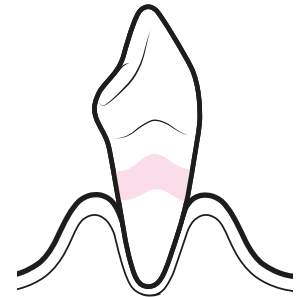
► Caries often develop in areas not accessible by rubber cups or brushes, such as interdental areas, pits and fissures. AIRFLOW® cleans it all. A final check delivers a more accurate, precise and early detection of caries on clean surfaces. Also, it allows fluoride to access a clean tooth more easily.

MAINTAIN ORTHODONTIC APPLIANCES



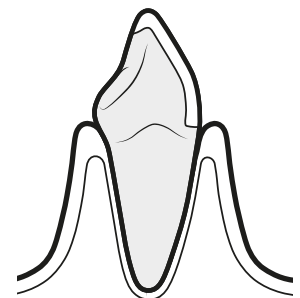
► Orthodontic appliances increase biofilm growth in areas not accessible by daily brushing and traditional prophylaxis. Biofilm creates wire friction, gingivitis and caries. AIRFLOW® with PLUS Powder removes biofilm with full access to critical areas. Safe and effective on teeth and brackets, it prevents caries and hyperplasia.

TREAT EXPOSED DENTINE



► Remove exposed biofilm on dentine with AIRFLOW® PLUS Powder and stop the procedure when the color has disappeared. GBT is a unique protocol which guarantees minimal invasiveness through direct visual control. AIRFLOW® PLUS Powder with heated water provides maximum comfort and minimal sensitivity.

PRESERVE AESTHETIC RESTORATIONS

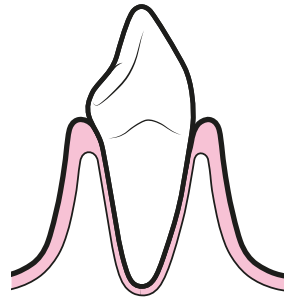


► To avoid gum recession - critical factor when it comes to aesthetic restorations - biofilm must be removed regularly. GBT protects your smile through effective but gentle biofilm removal around restoration margins. GBT inhibits stains and colorations.

SAVE THE IMPLANT

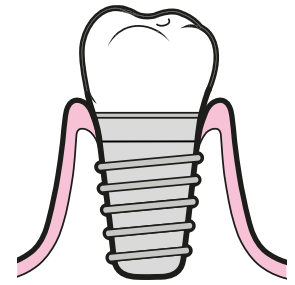


PRESERVE HEALTHY SOFT TISSUES



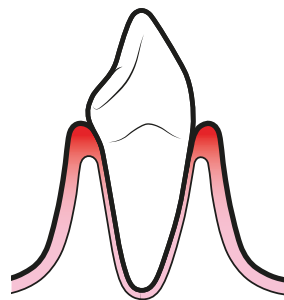
► GBT step 04 AIRFLOW® removes biofilm in a minimally invasive way. AIRFLOW® PLUS Powder is proven to be gentle on the gingiva and other soft tissues. In contrast, rotary and hand instruments may cause damage.

MAINTAIN IMPLANTS



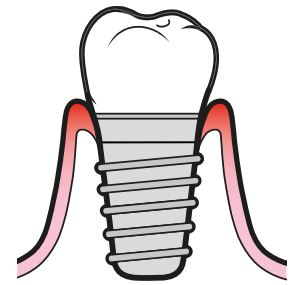
► GBT steps deliver a minimally invasive method to protect implant surfaces. 04 AIRFLOW® and 05 PERIOFLOW® with PLUS Powder are gentle on implant surfaces, while metal instruments may scratch.

TREAT GINGIVITIS



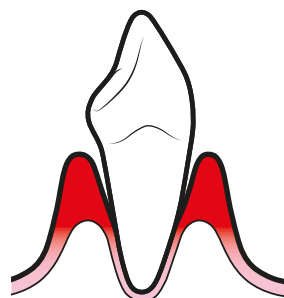
► AIRFLOW® PLUS Powder easily and safely removes biofilm and early calculus from coronal surfaces and sulcus. The PIEZON® PS NO PAIN Instrument removes the remaining calculus in a minimally invasive way.

TREAT MUCOSITIS



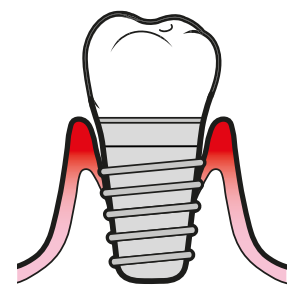
► While gentle on peri-implant tissues, AIRFLOW® with PLUS Powder safely reaches and cleans any ruggedness on implant surfaces for optimum biofilm removal. GBT is the state-of-the-art approach to implant maintenance.

TREAT PERIODONTITIS



► PERIOFLOW® with PLUS Powder preserves cementum during periodontal maintenance. It effectively removes subgingival biofilm in residual deep pockets. The PIEZON® PS NO PAIN Instrument removes the remaining calculus in a minimally invasive way. Final check ensures that no calculus remains.

TREAT PERI-IMPLANTITIS



► PERIOFLOW® with PLUS Powder removes subgingival biofilm with unequalled limitation of peri-implant bleeding. The PIEZON® PI Instrument removes the remaining abutment calculus thereby preserving the implant surface.

WHY GBT IS THE...

- ▶ Dental biofilm is the main etiological factor for caries, periodontal and peri-implant infections. Periodontitis may increase the risk of systemic diseases, such as cardiovascular and respiratory disorders, arthritis or diabetes.
- ▶ Regular oral hygiene, combined with professional measures, keeps the biofilm under control – for a better oral and systemic health. Axelsson and Lindhe pioneered preventive dentistry in the 1970^{ies} with studies and clinical protocols based on prophylaxis in “recall hours”. →¹⁻²
- ▶ GBT follows the recommendations on Professional Mechanical Plaque Removal (PMPR) and Oral Hygiene Instructions (OHI) for Home Care issued by the European Federation of Periodontology (EFP). →³⁻⁵
- ▶ “Periodontal Health for a Better Life!”



Dental biofilm is not always visible with the naked eye.

Professional tooth cleaning used to be an old fashioned method and could be a painful experience, patients do not like it and often stay away from recalls.

1 Removing calculus with hand instruments and scalers may be painful and invasive, and scratch dental and implant surfaces.

2 Polishing with rotary rubber cups and brushes is time-consuming and often messy.

With many areas not reachable, the gingiva will be affected mechanically. Dental hygienists and assistants know that traditional cleaning may be a painful experience. For this reason, patients may not return for follow-up appointments. Now, almost fifty years later, it is time for change.

1. Axelsson P. Preventive Materials, Methods and Programs: Quintessence Publishing, 2004. → 2. Axelsson P, Nystrom B, Lindhe J. The long-term effect of a plaque control program on tooth mortality, caries and periodontal disease in adults. Results after 30 years of maintenance. *Journal of Clinical Periodontology* 2004;31:749-757. → 3. Tonetti MS, Chapple ILC, Jepsen S, Sanz M. Primary and secondary prevention of periodontal and peri-implant diseases. *Journal of Clinical Periodontology* 2015;42:S1-S4. → 4. Tonetti MS, Eickholz P, Loos BG, Papapanou P, van der Velden U, Armitage G, et al. Principles in prevention of periodontal diseases. *Journal of Clinical Periodontology* 2015;42:S5-S11. → 5. Sanz M, Bäumer A, Buduneli N, Dommisch H, Farina R, Kononen E, et al. Effect of professional mechanical plaque removal on secondary prevention of periodontitis and the complications of gingival and periodontal preventive measures. *Journal of Clinical Periodontology* 2015;42:S214-S220.

GAME CHANGER



GUIDED BIOFILM THERAPY IS THE NEW STATE-OF-THE-ART APPROACH

1 Before removal, biofilm is always disclosed with a dye solution. Biofilm and early calculus are easily removed with AIRFLOW® and PERIOFLOW® – supra- and subgingivally.

2 If needed, this is followed by debridement with PIEZON® PS NO PAIN piezoceramic instruments.

► Guided Biofilm Therapy means that the clinician is guided by the disclosed biofilm during tooth cleaning procedures.

► Guided Biofilm Therapy is truly minimally invasive and reduces the need of hand and sonic/ultrasonic instrumentation. It is safe, effective and gentle to teeth and soft tissues, implants and restorations. →¹⁻⁴

► GBT is also very comfortable for patients and practitioners. →⁵ It is efficient and time-saving. →⁶ This also applies to primary caries and perio prevention in children and teenagers.

► GBT is part of a comprehensive preventive concept – to preserve your patients' oral health – and to make the patients feel good.

GBT IS A CLINICALLY SOUND AND PATIENT-ORIENTED CONCEPT

► Since 1982 EMS has provided dental practices all over the world with AIRFLOW® air polishing and PIEZON® PS NO PAIN piezoceramic scaling technology.

► In 2003 EMS invented PERIOFLOW® for subgingival biofilm removal – in combination with the AIRFLOW® PERIO Powder on a glycine basis. →⁷ This was an important paradigm shift in perio and preventive dentistry.

► In 2012 EMS added the high-tech erythritol-based AIRFLOW® PLUS Powder with a particle size of only 14 µm.

► Guided Biofilm Therapy is based on clinically proven technologies invented by EMS. It was developed in cooperation with highly respected and experienced periodontologists, caries specialists and dental hygienists.

► GBT is a systematic, predictable, risk-oriented and user-friendly treatment adaptable to all age groups and each individual patient.

1. Wennstrom JL, Dahlen G, Ramberg P. Subgingival debridement of periodontal pockets by air polishing in comparison with ultrasonic instrumentation during maintenance therapy. *Journal of Clinical Periodontology* 2011;38:820-827. → 2. Ronay V, Merlini A, Attin T, et al. In vitro cleaning potential of three implant debridement methods. Simulation of the non-surgical approach. *Clinical Oral Implants Research* 2017;28:151-155. → 3. Bühler J, Amato M, Weiger R, Walter C. A systematic review on the effects of air polishing devices on oral tissues. *International Journal of Dental Hygiene* 2016;14:15-28. → 4. Barnes CM, Covey D, Watanabe H, et al. An in vitro comparison of the effects of various air polishing powders on enamel and selected esthetic restorative materials. *The Journal of Clinical Dentistry* 2014;25:76-87. → 5. Aslund M, Suvan J, Moles DR, et al. Effects of two different methods of non-surgical periodontal therapy on patient perception of pain and quality of life: a randomized controlled clinical trial. *Journal of Periodontology* 2008;79:1031-1040. → 6. O'Hehir TE. How subgingival air polishing will turn dental hygiene upside down. Interview with Prof. Dr. Thomas Flemmig. *dentaltown.com* 2014;94-96. → 7. Flemmig TF, Arushanov D, Daubert D, et al. Randomized controlled trial assessing efficacy and safety of glycine powder air polishing in moderate-to-deep periodontal pockets. *Journal of Periodontology* 2012;83:444-452.

THE MINIMALLY INVASIVE WAY



- ▶ NO MORE RUBBER CUPS
- ▶ NO MORE BRUSHES
- ▶ NO MORE PASTE
- ▶ LESS USE OF POWER AND
HAND INSTRUMENTATION

THE NEW AND MODERN WAY



**“I FEEL
GOOD”**

- ▶ ONLY THE BEST FOR MY PATIENTS
- ▶ ONLY THE ORIGINALS

THE ORIGINAL.

THE AIRFLOW® PROPHYLAXIS MASTER



The original from the Inventor. Guaranteed Swiss Precision and superb design. Reliability and know-how since 1981.

THE MASTER.



THE INDEPENDENT PROPHYLAXIS STATION



The Swiss Made AIRFLOW® Prophylaxis Master was developed in the EMS Research Centre with more than 100 000 hours of technical and clinical testing in collaboration with leading dental professionals from all over the world.

04 AIRFLOW®

AIRFLOW® REMOVES BIOFILM, STAINS AND EARLY CALCULUS. CLEANS AND POLISHES IN ONE SINGLE PROCEDURE.

- ▶ After the use of AIRFLOW® no extra polishing with rubber cups/paste is necessary anymore.
- ▶ Dental offices using AIRFLOW® and GBT have more and happier recall patients.
- ▶ Professional prophylaxis is becoming an important economic factor. →¹



DOUBLE SPRAY

Powder inside
Rinsing around

With rubber cups and polishing paste it is impossible to clean:

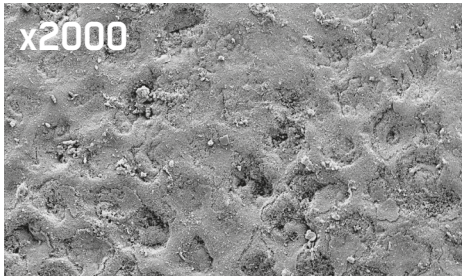
- ▶ Interdental spaces, especially in patients with mal-aligned teeth
- ▶ Exposed tooth necks
- ▶ Pits and fissures
- ▶ Orthodontics brackets
- ▶ Exposed dentine
- ▶ Misaligned teeth
- ▶ Peri-implant sulcus

AIRFLOW® will remove biofilm and young calculus in all these situations.

It also cleans the gingival or peri-implant sulcus to a depth of 4mm. →²⁻⁴ At the same time AIRFLOW® is fast, efficient and comfortable for the patient.

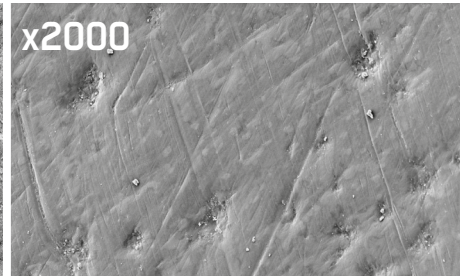
1. O'Hehir TE. dentaltown.com 2014(1):94-96. → 2. Patil SS, et al. J Intern Soc Prev & Commun Denti 2015;5:457-462. → 3. Flemmig TF, et al. J Periodontol 2007;78:1002-1010. → 4. Botti RH, et al. Eur J Paediatr Dent 2010;11:15-18.

MINIMALLY ABRASIVE POWDER



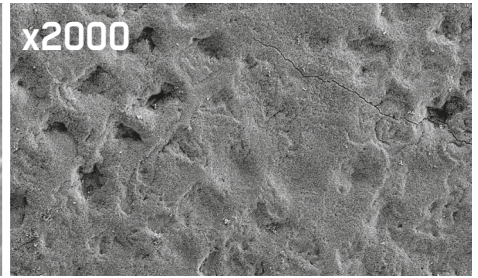
TOOTH ENAMEL SURFACE WITH RESIDUAL BIOFILM BEFORE CLEANING.

► The enamel prisms of the natural tooth enamel are easily recognizable – The photo shows the remnants of the bacteria killed off with sodium hypochlorite. →⁵



TOOTH ENAMEL AFTER POLISHING WITH LOW-ABRASIVE PASTE (RDA 27).

► The vital enamel prisms have been polished away. Pastes have caused scratches. Biofilm has been spread into natural crevices.
► Overall abrasive pastes cause a loss of valuable enamel. No improvement of the dental surface. →⁵



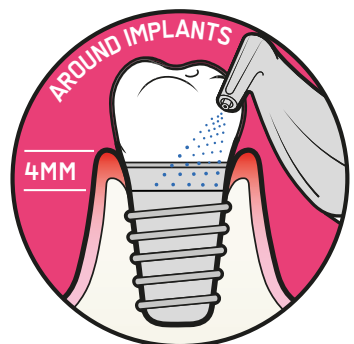
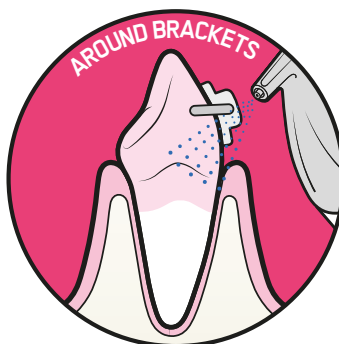
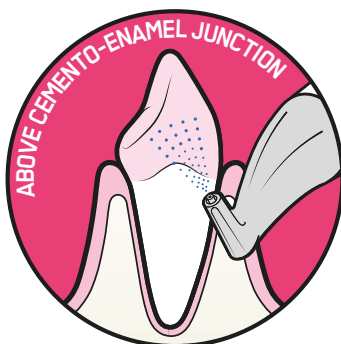
TOOTH ENAMEL AFTER CLEANING WITH AIRFLOW® POWDER PLUS

► The biofilm has been completely removed with AIRFLOW®. The surface is clean down to the pores. No abrasion. The enamel prisms remain intact and the surface is perfectly smooth. The tongue no longer feels any roughness and there is no need for polishing with (abrasive) pastes. This saves enamel – and treatment time. →⁵

5. Camboni S, Donnet M. The Journal of clinical dentistry 2016;27:13-18.



AIRFLOW® PLUS



AIRFLOW® POWDERS

AIRFLOW® PLUS POWDER IS AN UNIQUE POWDER THAT REMOVE BIOFILM AND EARLY CALCULUS IN A MINIMALLY INVASIVE WAY FROM:

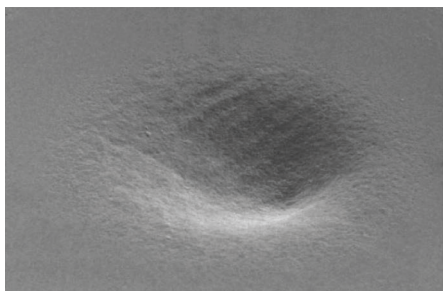
- ▶ Enamel
- ▶ Dentine
- ▶ Soft tissues
- ▶ Tongue and palate
- ▶ Primary teeth
- ▶ Orthodontic appliances
- ▶ Implant surfaces
- ▶ Restorations



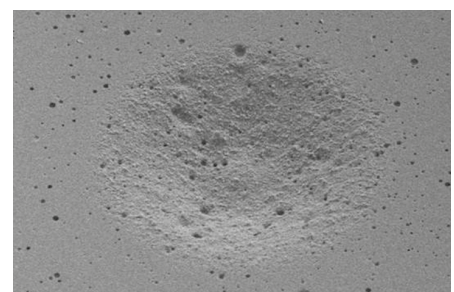
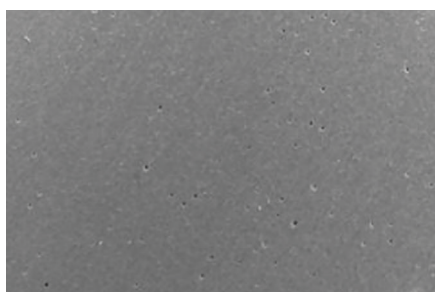
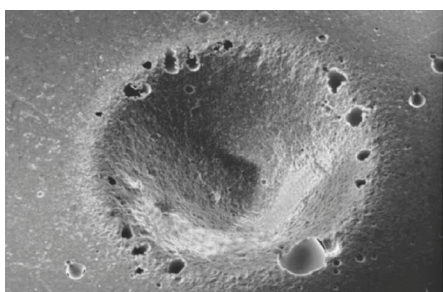
**OSSPRAY
CALCIUM SODIUM
PHOSPHOSILICATE →¹**

**EMS AIRFLOW® PLUS
POWDER ERYTHRITOL →²**

**EMS SODIUM
BICARBONATE →³**



EFFECT OF 5 SEC AIR POLISHING ON HUMAN ENAMEL



EFFECT OF 5 SEC AIR POLISHING ON GLASS IONOMER

1. Barnes CM, et al. J Clin Dent 2014;25:76-87. → 2. For Powder PLUS complimentary tests have been submitted to the J Clin Dent (Barnes CM, et al.). → 3. Barnes CM, et al. J Clin Dent 2014;25:76-87. The EMS sodium bicarbonate had a particle size of 65 µm. New Powder AIRFLOW® CLASSIC Comfort has 40 µm particle size, for more smoothness and patient comfort.

EMS POWDER GUIDE



► With 2 chemical laboratories in Germany and Switzerland, EMS is the only company producing its own powder. With more than 30 years of research, clinical testing, scientific studies and millions of patients treated, EMS recommends the following 2 powders in 100% of clinical cases.

RECOMMENDED

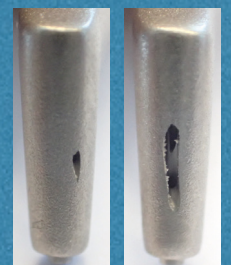


OTHER EMS POWDERS

Name	PLUS	CLASSIC COMFORT	CLASSIC 65µm	SOFT	PERIO
Ref	DV-082	DV-048/*	DV-048/ LEM/65	DV-071	DV-070
Flavor	NEUTRAL	LEMON/LEM MINT/MIN CHERRY/CHE NEUTRAL/NEU	LEMON	NEUTRAL	NEUTRAL
Composition	ERYTHRITOL	SODIUM BICARBONATE	SODIUM BICARBONATE	GLYCINE	GLYCINE
Particle size	~14µm	~40µm	~65µm	~65µm	~25µm
pH	~7	~8.1	~8.1	~6	~6
Tooth	Stains and early calculus	✓	✓	✓	✗
	Enamel	✓	✓	✓	✓
	Enamel white spots	✓	✗	✗	✗
Gum	Dentine	✓	✗	✗	✓
	Gum	✓	✗	✗	✓
Restoration	Tongue and palate	✓	✗	✗	✓
	Hybrid composite	✓	✗	✗	✓
Implant	Glass ionomer	✓	✗	✗	✓
	Implant and mucositis	✓	✗	✗	✓
Orthodontics	Brackets and appliances	✓	✗	✗	✓

⚠ Beware of so-called „EMS compatible“ powders in the market, which can damage the patient’s tooth and the unit. See 2 cases of damaged nozzle due to the abrasion of those powders.

- Use only EMS powders with your EMS devices.
- Use of other powders will lead to a loss of warrantee.



05 PERIOFLOW®



PERIOFLOW® AND AIRFLOW® PLUS POWDER ARE INDICATED FOR

- ▶ Subgingival biofilm removal (debridement) in >4 to 9 mm* periodontal^{→1} and peri-implant^{→2} pockets
- ▶ Initial and follow-up (SPT) periodontal therapy^{→3}
- ▶ Prevention of mucositis / peri-implantitis^{→4}
- ▶ Initial and follow-up treatment of mucositis / peri-implantitis^{→5}



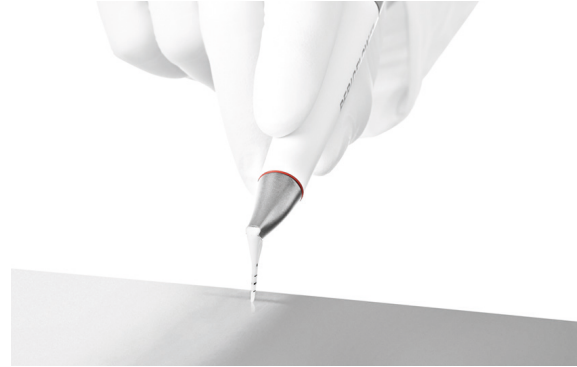
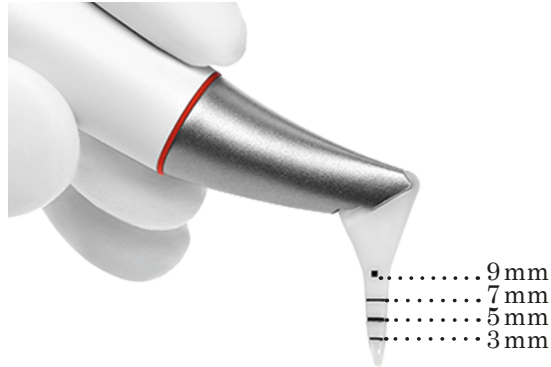
3
POWDER
SPRAYS
+ water rinsing

1. Sculean A, et al. Quintessence Int 2013;44:475-477. → 2. Schwarz F, et al. Quintessence Int 2016;47:293-296. → 3. Flemmig TF, et al. J Periodontol 2012;83:444-452 → 4. Muller N, et al. J Clin Periodontol 2014;41:883-889. → 5. Riben-Grundstrom C, et al. J Clin Periodontol 2015;42:462-469

FIRST TO GO SUBGINGIVAL



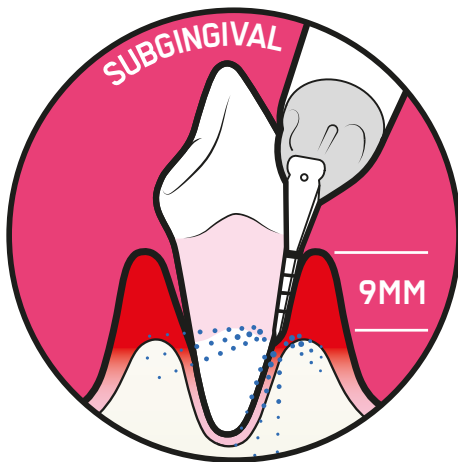
PERIOFLOW® NOZZLE



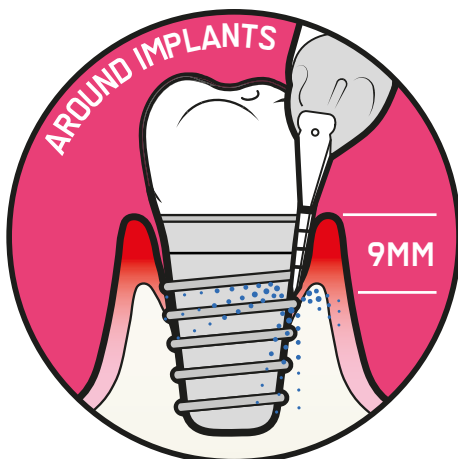
PERIOFLOW® Nozzles are flexible, thereby adapting to the pocket's natural curves.

PERIOFLOW® APPLICATIONS

SUBGINGIVAL POCKET



IMPLANT



06 PIEZON®

**AFTER USING
AIRFLOW®,
REMOVE REMAINING
SUPRA- AND SUBGINGIVAL
CALCULUS WITH THE PIEZON®
NO PAIN* PS INSTRUMENT.**

- ▶ Linear movement of the PS Instrument
= no damage to tooth surfaces and soft tissues.
Minimally invasive with regard to root cementum.
Dynamic power setting.
- ▶ “EMS PS (Perio Slim) Instrument delivers the best
interproximal and subgingival access.”**



FOR 95% OF ALL CASES

*No PAIN: when used in accordance with EMS instructions and/or the training by the Swiss Dental Academy.

**CRA, Clinical Research Associates, USA. Newsletter June 1998.

THE PS NO PAIN INSTRUMENT THE ONE AND ONLY



PICTURES: COURTESY OF PROF. MAGDA MENSI

SUBGINGIVAL CALCULUS REMOVAL WITH EMS PIEZON® PS INSTRUMENT

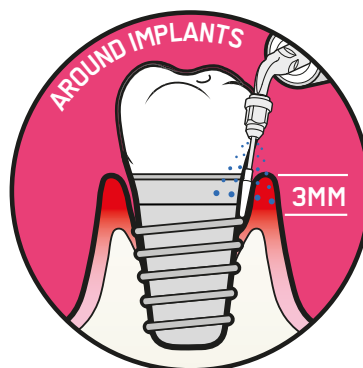
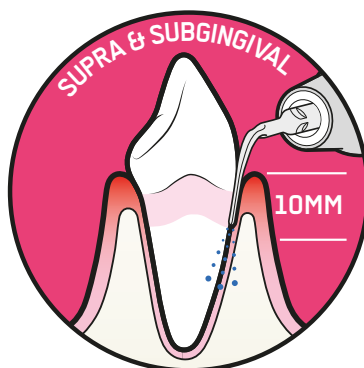


ACCURATE CARIES DIAGNOSIS




PICTURES: COURTESY OF DR. WOLFGANG GUTWERK

EMS PS PERIO SLIM INSTRUMENT
IS INDICATED FOR 95% OF ALL CASES.



GBT IS COOL...*



“I do not want to do without Airflow technology or Airpolishing in my everyday work. Gentle on substance, clean, pleasant for patients and quicker, particularly in the interdental spaces. The results are accordingly good. Less inflammation, and the tooth necks are no longer sensitive after treatment.”

**PETRA NATTERER,
DENTAL HYGIENIST**

“I’m so happy with GBT, I could not accept any other tooth cleaning method anymore. Due to GBT I see my dentist regularly and gladly for my prophylaxis. And each time I leave the office I’m happy with my clean and brilliant white smile! To me prophylaxis with GBT has become a great experience and I dearly recommend it!”

SABINE PAVICIC

“Patients started to book in particularly with me. They thought I was more gentle than the other hygienists and their mouths were feeling better than ever. The bosses had also noticed a seemingly higher standard of treatment being delivered with lower bleeding scores and cleaner mouths coming from my surgery. They thought it was me. They thought I was more skilled. A better motivator. An exceptional communicator. It wasn’t me. It was the AIRFLOW®.”

FAYE DONALD, BEST UK DENTAL HYGIENIST 2014 AND 2017

PATIENTS AND USERS ARE FANS



“The devices of the company EMS helped us very much to simplify the procedure protocol of our “prophylaxis sessions”, to make it more gentle on substance and more patient-friendly (less pain). After more than 3 years, prophylaxis has become a technically and economically very important part of our dental practice thanks also to the scientific and technical competence (e.g. NO PAIN with PS tip, PLUS Powder) of EMS.”

**DR. NADINE STRAFELA-BASTENDORF,
DENTIST**

**“AIRFLOW®
IS COOL -
SUPER
COOL.”**

MORRIS MEYER (9 YEARS)

“With the EMS devices, we can motivate our patients in terms of prophylaxis. Through a pleasant feeling in the mouth – WELLNESS factor. Removal of stains – BEAUTY factor. 100% plaque removal – HEALTH factor.”
MICHAELA GRUL

“Due to the small particle size of the product, especially the Plus powder, there is practically no traumatic gingivitis anymore. ...We were able to increase turnover in the area of prophylaxis by approx. 50 percent from 2015 to 2016, which is surely also due to the now much more pleasant treatment. The reactions were positive without exception.”

DIRK PALME, DENTIST

THE SWISS DENTAL ACADEMY

More than 100,000 dental
professionals trained.
More than 200 SDA trainers.



THE PIONEER: **SDA**

The Swiss Dental Academy is a pioneer of dental education in prophylaxis and prevention since 2006. With dental prevention and maintenance treatments revolutionized by AIRFLOW®, hundreds of clinicians deliver practical hands-on training based on the most recent scientific findings.



I certainly hope that over the next few years many dentists and hygienists will adopt the GBT concept in their daily practice. I am sure they will love it. Even after years of practice, I get inspired each time I look at the faces of our training participants when they return highly motivated to their daily routine. Not only has GBT made my life as a dental hygienist much easier but I have also given my patients more than one reason to smile.

Nina von de Fenn

SDA Trainer
Dental Assistant / Hygienemanagerin

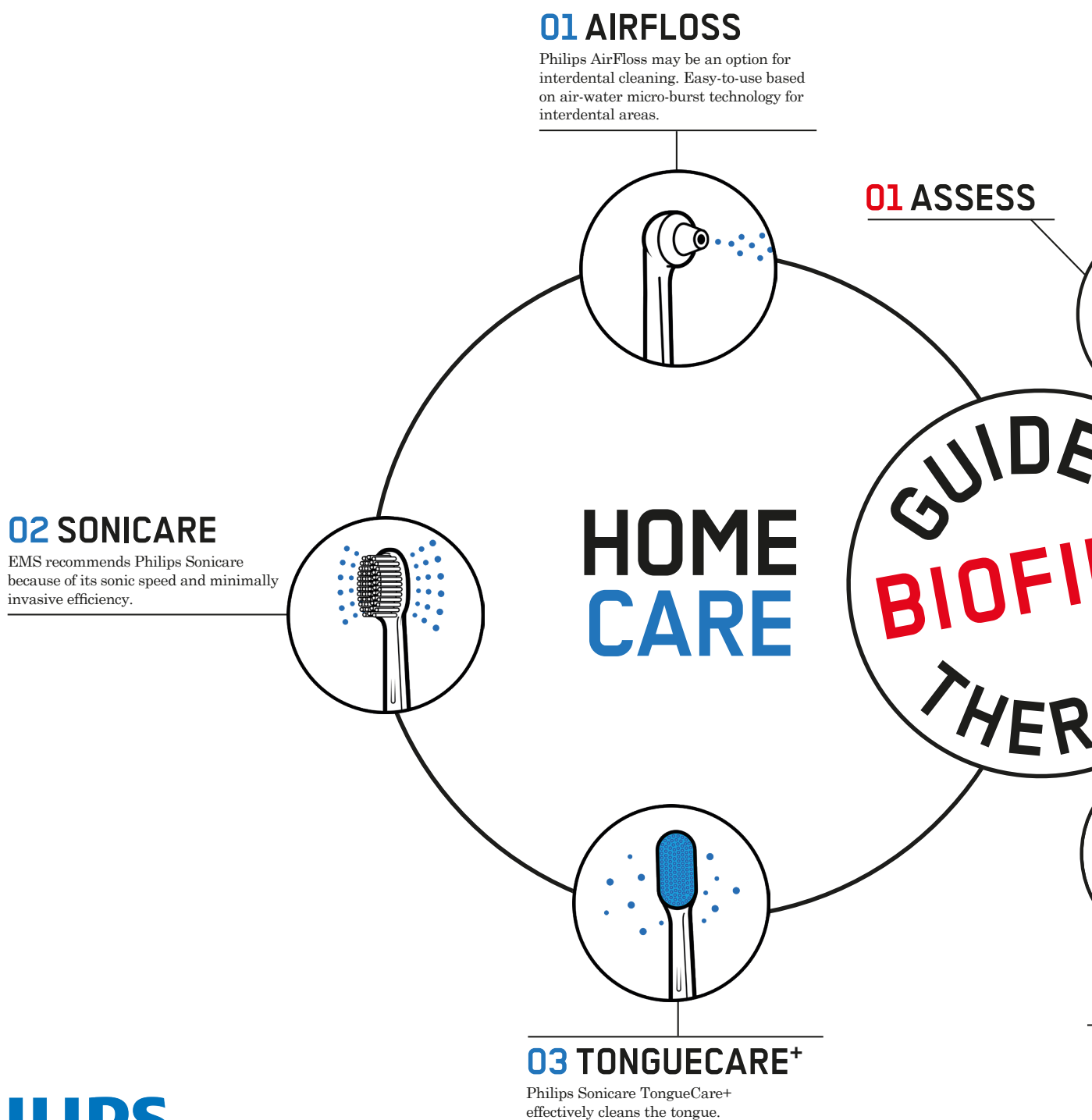
THE FUTURE: **PROPHYLAXIS**

Prophylaxis and prevention are timely topics. Informed patients understand that preventive, professional dental cleaning is preferable to expensive restoration work. Indeed, there is nothing like keeping one's natural teeth. As a dental prophylaxis specialist and staff member, it is your role and responsibility to support your patients' maintenance of their natural teeth. Attending the Swiss Dental Academy gives you a definitive competitive edge.

ALSO FOR HOME CARE

EMS AND PHILIPS COOPERATE

- ▶ The European Federation of Periodontology (EFP) Consensus: Combining home and professional care is a must to preserve natural teeth and implants.
- ▶ EMS and Philips have harmonized their concepts to optimize oral care.



PHILIPS

OPTIMAL ORAL HYGIENE

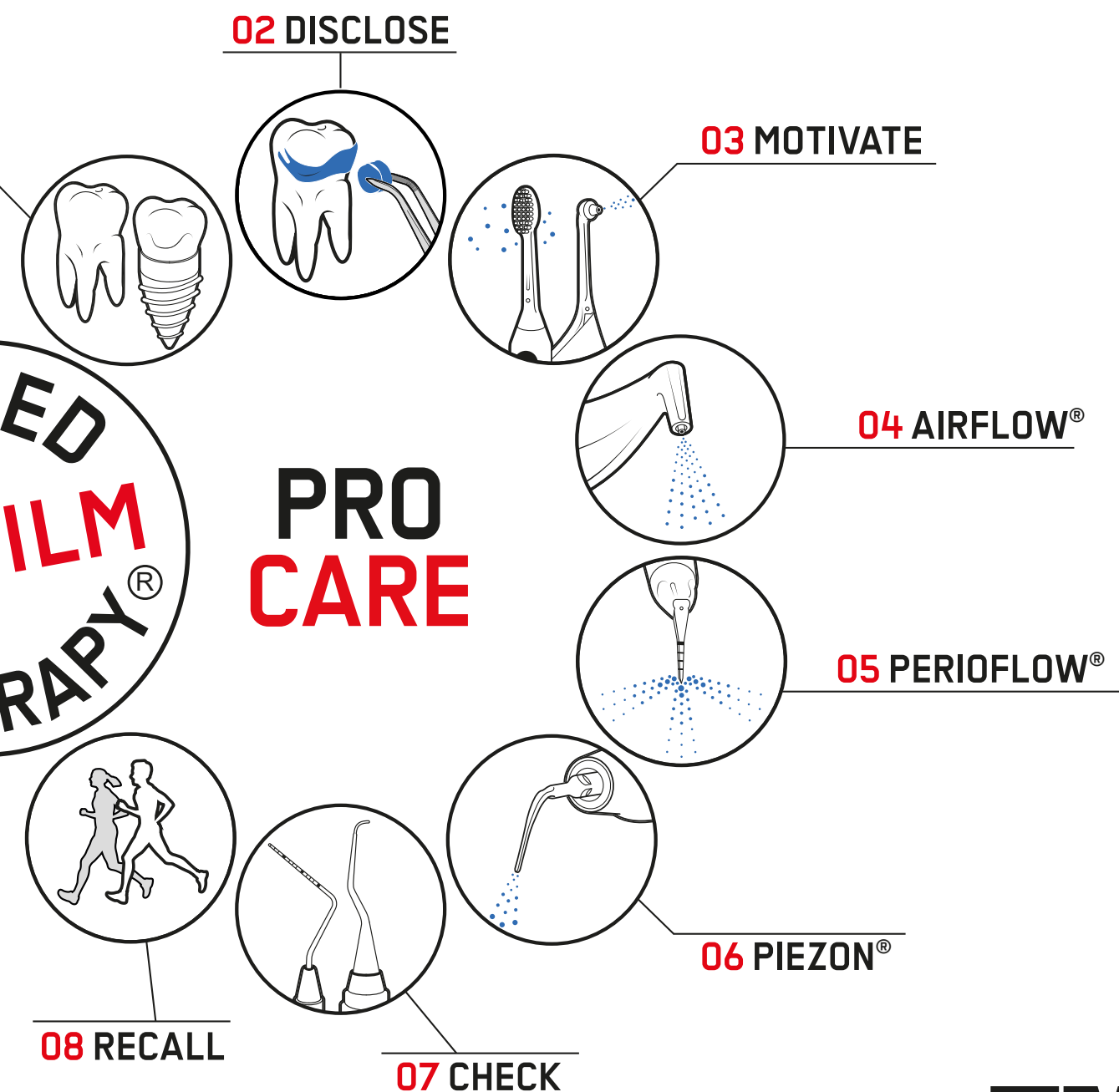


EMS RECOMMENDS PHILIPS SONICARE BECAUSE OF ITS SONIC SPEED AND ITS MINIMALLY INVASIVE EFFICIENCY.

► For interdental cleaning Philips AirFloss Ultra may be an option.

It is an easy-to-use device based on air-water micro-burst technology for interdental areas. AIRFLOSS — as efficient as Dental Silk but easier to use.

► Philips Sonicare Tonguecare+ — effective cleaning of the tongue.



SMILE IS IN THE AIR

**"I FEEL
GOOD"**

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E.M.S. Electro Medical Systems S.A.
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1260 Nyon - Switzerland
+41229944700 - ems-dental.com

EMS 
MAKE ME SMILE.