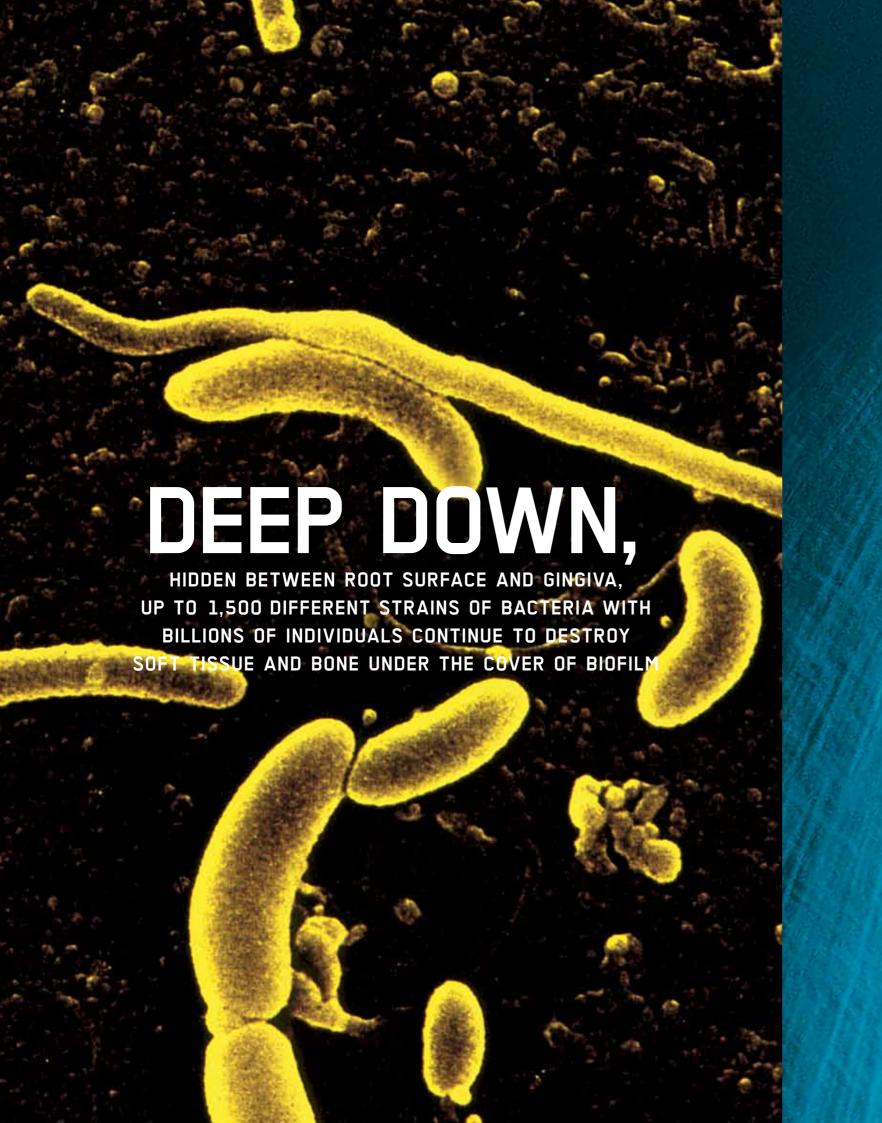
AIR-FLOW[®] KILLS BIOFILM





PROPHYLAXIS,

FOR AIR POLISHING, IS NOW A REALITY. ELIMINATE
BIOFILM WITH THE LATEST DEVELOPMENT FROM THE INVENTOR
OF THE ORIGINAL AIR-FLOW® METHOD

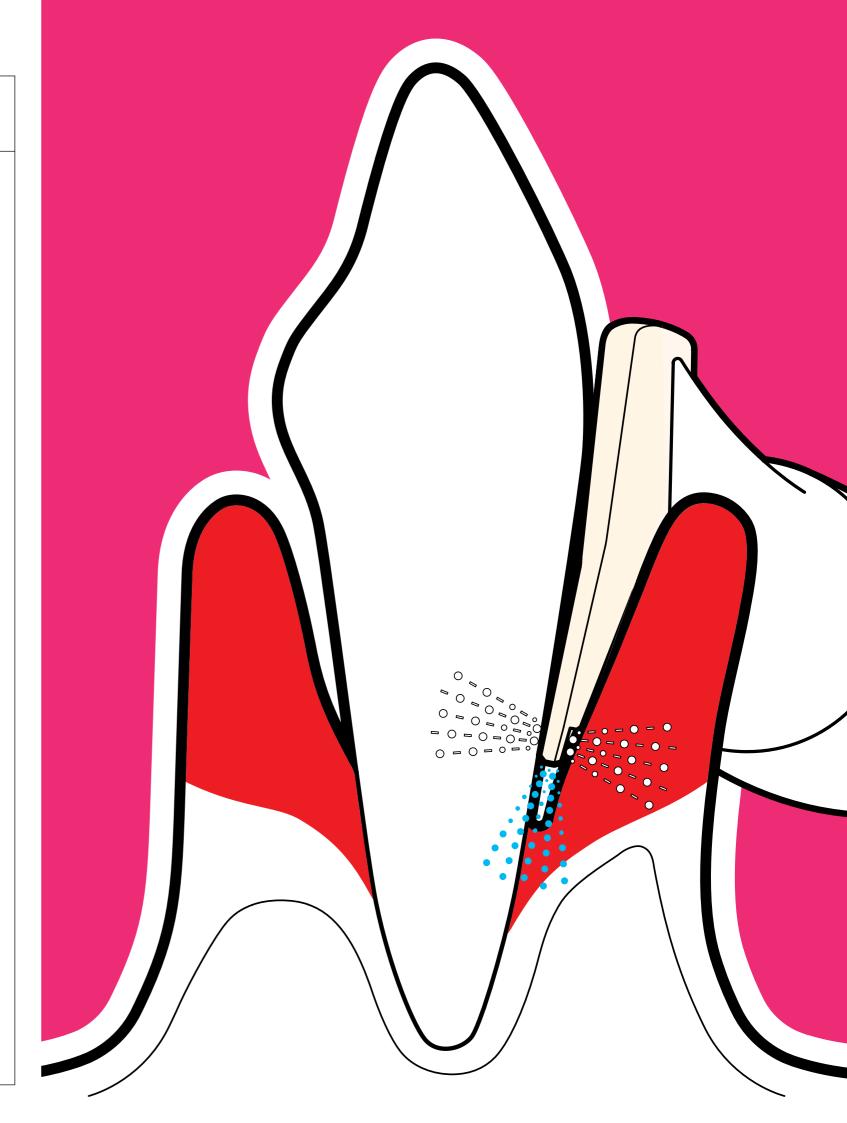
AIR-FLOW MASTER®
RESEARCH

THE ORIGINAL AIR-FLOW® METHOD NOW REACHES THE DEEPEST PERIODONTAL POCKETS. THE NEW PERIO NOZZLE AND THE NEW AIR-FLOW® POWDER PERIO COMBINE TO DELIVER **GREATER EFFICACY AND** MUCH MORE PATIENT COMFORT THAN CONVEN-TIONAL CURETTES OR OTHER INSTRUMENTS →

A NEW AIR POLISHING DEVICE FOR REMOVING SUBGINGIVAL PLAQUE

> The new treatment was perceived more acceptable and was more time efficient than scaling and root planning (SRP), however on a microbiological level was not superior to conventional SRP

Moëne R., Décaillet F., Andersen E., Mombelli A., School of Dental Medicine, University of Geneva, Switzerland – Journal of Dental Research 2009





NEW-> AIR-FLOW MASTER®

THE WORLD'S FIRST
SUBGINGIVAL PROPHYLAXIS
UNIT

2 APPLICATION SYSTEMS IN ONE →

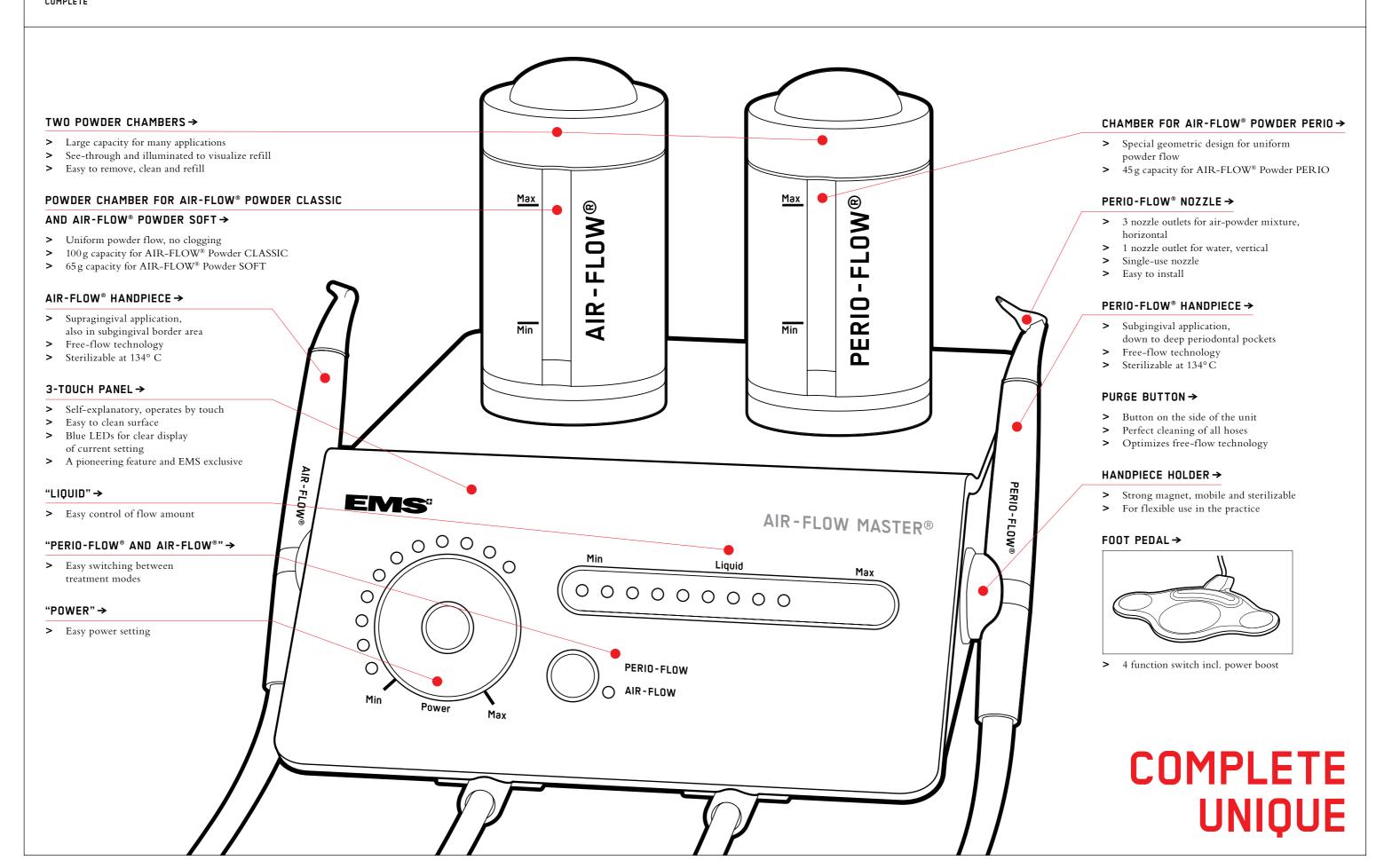
PERFECT FOR SUBGINGIVAL AND SUPRAGINGIVAL TREATMENT

3-TOUCH PANEL→

EASY SWITCHING BETWEEN SYSTEMS EASY SETTING OF APPLICATIONS



AIR-FLOW MASTER® COMPLETE

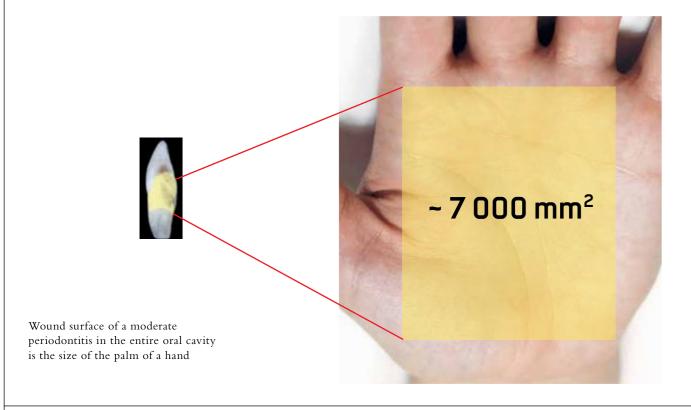


AIR-FLOW MASTER®

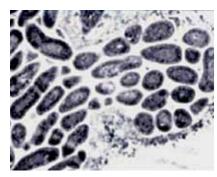
IF YOUR PATIENTS ONLY KNEW →

- > Periodontitis is the most common cause of tooth loss
- > Periodontitis affects the entire immune system often with dramatic effects on the entire body

FOUR OUT OF FIVE PATIENTS SUFFER FROM A FORM OF PERIODONTITIS



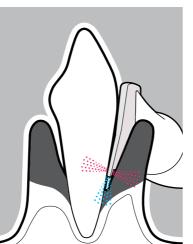
BIOFILM → THE DIRTY WORD



Biofilm in symbiosis with a variety of bacteria – protected from the outside, proliferating on the inside

- > Micro-organisms colonize the area and grow their breeding ground develops its own protective layer. Bacteria then separate and colonize other areas
- > Bacteria under cover of biofilm are resistant to drug therapy
- > Immune defenses of the body are powerless in order to prevent a bacterial invasion, the body triggers a process which breaks down bone tissue
- > Implant sites are equally affected by biofilm periimplantitis results in implant loss



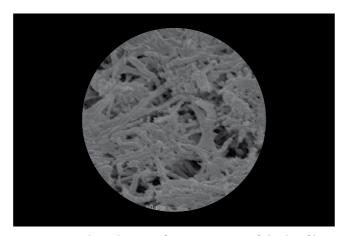


SUBGINGIVAL PROPHYLAXIS → AGAINST BIOFILM

- > Up to 5 mm pocket depth removal of biofilm with AIR-FLOW® handpiece and AIR-FLOW® Powder PERIO
- > Down to the bottom of periodontal pockets removal of biofilm with PERIO-FLOW® handpiece including Perio nozzle and AIR-FLOW® Powder PERIO

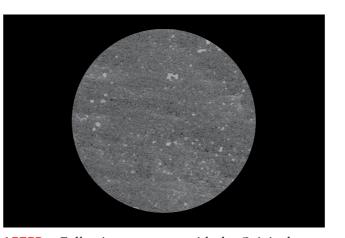
PERIO-FLOW® handpiece and nozzle for subgingival use 3 horizontal nozzle outlets for air-powder mixture 1 vertical nozzle outlet for water

SCIENTIFIC EVIDENCE →

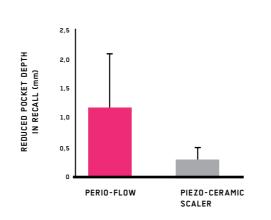


BEFORE → The white surfaces are parts of the biofilm located in a thick layer on the root surface

Photos by Prof. Dr. A. Mombelli, University of Geneva, Switzerland



AFTER → Following treatment with the Original
AIR-FLOW® Method, the biofilm is removed, the root
surface is clean and smooth down to the base of the
periodontal pocket



RESPONSE TO TREATMENT OF 200
PERIODONTAL POCKETS IN PATIENT RECALLS
3-6 MONTHS POST-TREATMENT

REDUCTION OF POCKET DEPTH BY \varnothing 1.22 mm AFTER 4-6 WEEKS

PATIENT COMFORT FEEDBACK "FEEL GOOD" FACTOR OF 2.18*

 \star on a scale from 1 = very pleasant to 10 = unbearable

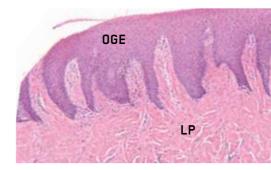
Clinical study on the subgingival application of the Original AIR-FLOW® method with PERIO-FLOW® handpiece and nozzle together with AIR-FLOW® Powder PERIO

Prof. Dr. U. P. Saxer, Zurich, Switzerland



OGE = ORAL
GINGIVAL
EPITHELIUM
LP = LAMINA

SPARING THE EPITHELIUM→



Negative control specimen → BIOPSY SCORE 1

BIOPSY SCORES

- 1 NO LESION
- 2 MINOR LESION
- 3 MEDIUM LESION
- 4 SEVERE LESION

Clinical study on the impact of the Original AIR-FLOW® Method (AIR-FLOW® S1) on the epithelium during treatment versus treatment with hand instrumentation

Petersilka G., Faggion Jr. C.M., Stratmann U., Gerss J., Ehmke B., Haeberlein I., Flemmig T.F. – Journal of Clinical Periodontology (Issue 4, 2008)



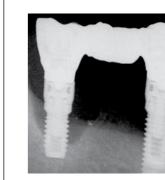
Epithelium following treatment with hand instrumentation → BIOPSY SCORE 4



Epithelium following treatment with the Original AIR-FLOW® Method→BIOPSY SCORE 1

IMPLANTS →

A POOR INVESTMENT WITHOUT PROPHYLAXIS



Implant, loose due to withdrawal of bone tissue

- > Periimplantitis is the periodontitis of implant patients
- > Biofilm adheres to the titanium implant, thus causing periimplant infections, withdrawal of supporting bone, and eventually loss of implant
- > Regular prophylaxis with the Original AIR-FLOW® method is proven to prevent periimplantitis* and its costly aftermath

THE IMPLANT PATIENT IS AND CONTINUES TO BE A PATIENT

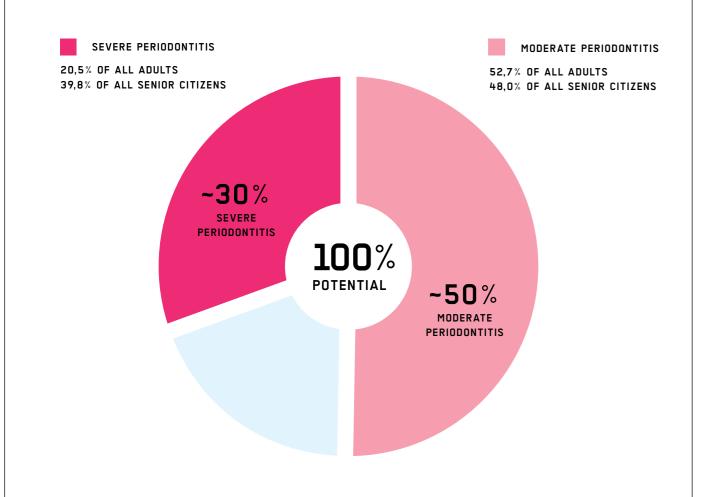
* The use of the Original AIR-FLOW® method allowed to restore the biocompatibility of titanium implant surfaces already contaminated by plaque (...). The powder's optimum abrasivity for titanium surfaces caused the removal of biofilm (99.9 percent) and of the uppermost titanium oxide layer

Schwarz F., Ferrari D., Popovski K., Hartig B., Becker J. – Journal of Biomedical Materials Research Part B (July 2008)

X-ray photography by Prof. Dr. Stefan Renvert, University of Kristianstad, Sweden



PERIODONTITIS AND PERIIMPLANTITIS → 100% POTENTIAL FOR SUBAND SUPRAGINGIVAL PROPHYLAXIS



> German Oral Health Survey 2006 Increase since 1997: adults + 29.9 percentage points, senior citizens + 23.7 percentage points

PERIODONTITIS AND PERIIMPLANTITIS → INCREASED RISK FACTOR

DIABETES 2-11 X

TES E II X STROK

OSTEOPOROSIS 2-4 X

ARTHEROSCLEROSIS 2 X

> according to Hetz/Hendriks 2004

STROKE 2 X

PREMATURE BIRTH 4-8 TIMES (HIGHER THAN WHEN HEALTHY)

CHRONIC DISEASE OF THE BRONCHIAL PASSAGES 2-4 X

AIR-FLOW MASTER®

ORIGINAL AIR-FLOW® METHOD→ SUBGINGIVAL

PERIO-FLOW® HANDPIECE →

- > Innovative design, specially developed for use in deep periodontal pockets
- > Ergonomic handpiece for the new AIR-FLOW® Powder PERIO
- > Sterilizable at 134° C

PERIO-FLOW® NOZZLE →

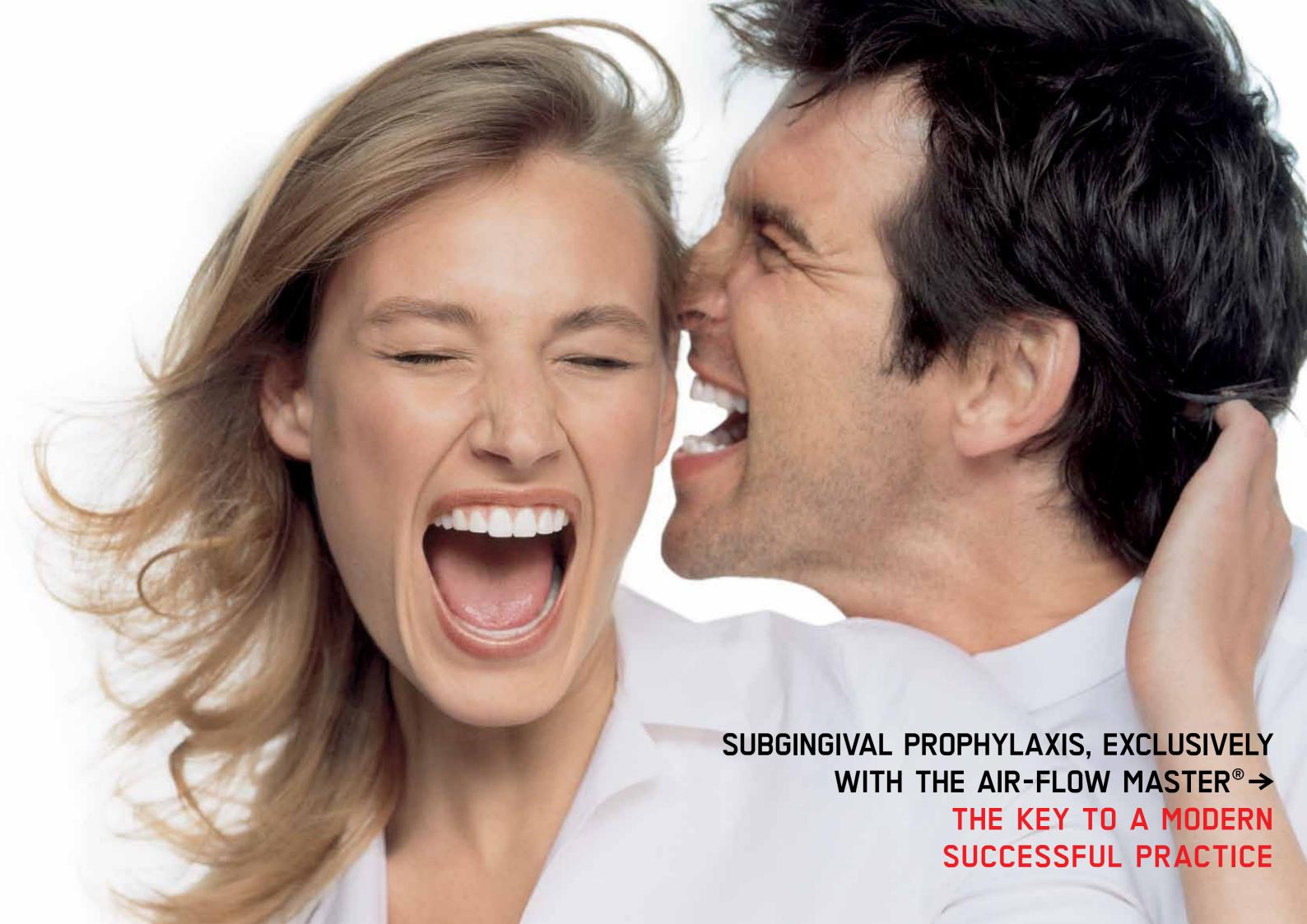
- > Optimum gentle turbulence in subgingival area prevents soft tissue emphysema via three horizontal nozzle outlets for air-powder mixture, and one vertical nozzle outlet for water
- > Patented single-use nozzle
- > Quick connection onto the new PERIO-FLOW® handpiece

AIR-FLOW® POWDER PERIO →

- > Grain size $\sim 25 \,\mu\text{m} \, (d\,50)$
- > Ultrafine grain matched to the new PERIO-FLOW® handpiece, with PERIO-FLOW® nozzle
- > Does not abrade dentin









Nº 1, TODAY AND TOMORROW THE ORIGINAL AIR-FLOW® METHOD→ WIDELY KNOWN AND RECOGNIZED

FIGHTS STAINING AND MICROBIAL TOOTH DEPOSITS

> Bacteria and micro-organisms in plaque are responsible for the spread of gingivitis, periodontitis and caries. This is countered by the removal of microbial tooth deposits and the effect of fluoride action





PREVENTS GINGIVITIS, PERIODONTITIS AND CARIES

Photos: Dr. M. Roubach

WHEN SEALING FISSURES

> Cleaning the fissures before sealing improves the adherence of the sealing material and reduces the risk of caries

MINIMIZES THE RISK OF CARIES

IN CONSERVATIVE DENTISTRY

> Cleaning the surface to prepare for enamel etching improves the adherence of composite, ceramic inlays and veneers

EXTENDS THE LIFE AND OPTIMIZES THE QUALITY OF SYNTHETIC AND CERAMIC RESTORATIONS

IN PROSTHETICS

> Cleaning healthy teeth for the color adjustment of bridges, crowns, inlays and onlays, etc.

FACILITATES COLOR DETERMINATION



IN ORTHODONTICS

> Preparing the surface prior to bonding, cleaning of cemented bands and bonded brackets, removing adhesive residue





REDUCES TREATMENT RISKS

Photo: Dr. R. Kalla

IN ESTHETIC DENTISTRY

- > Cleaning the teeth before bleaching helps determine the exact natural color of the teeth
- > Preparing the tooth surface guarantees the optimum efficacy of the bleaching agent

OPTIMIZES BLEACHING PERFORMANCE

ALWAYS OPTIMAL → ORIGINAL AIR-FLOW® POWDER







AIR-FLOW® POWDER CLASSIC →

Sodium bicarbonate, grain size $\sim 65\,\mu m$ (d50), Minimally abrasive, with anti-inflammatory action

AIR-FLOW MASTER®

PROPHYLAXIS WITHOUT LIMITS→

EASY ACCESS AND UNIFORM TURBULENCE
OF AIR-POWDER MIXTURE AND OF WATER→
PREVENTS SOFT TISSUE EMPHYSEMA

GENTLE APPLICATION OF BIOKINETIC ENERGY GENERATED WITH THE ORIGINAL AIR-FLOW® METHOD → NO SCRATCHING OF THE TOOTH SURFACE

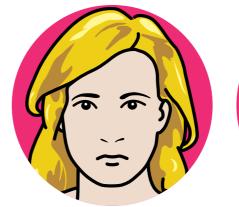
EFFECTIVE REMOVAL OF BIOFILM DOWN TO THE POCKET BOTTOM → WITHOUT DAMAGING THE CEMENTUM

SUSTAINED REDUCTION IN BACTERIA → NO TOOTH OR IMPLANT LOSS DUE TO PERIODONTITIS OR PERIIMPLANTITIS

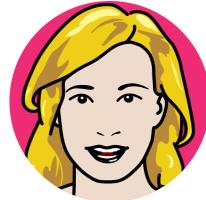
EFFECTIVE PERIO POLISHING → WITHOUT DAMAGE TO THE EPITHELIUM OR CONNECTIVE TISSUE

FAST, RELIABLE, STRESS-FREE TREATMENT
WITHOUT UNPLEASANT CURETTES OR NOISE →
FOR MAXIMUM PATIENT COMFORT

3 STEPS TO PERFECT PROPHYLAXIS →







2
INITIAL TREATMENT



RECALL

DEEP DOWN, SATISFACTION SHOWS



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