

# 100 GBT CLINICAL CASES VOL.3



GBT PROTOCOL NEW WAYS IN PREVENTION AND PROPHYLAXIS





Dear Clinician and GBT enthusiasts,

As Mahatma Gandhi wisely stated, “It is health that is the real wealth.” The 3<sup>th</sup> volume of GBT CLINICAL CASES underscores the versatility of GBT, demonstrating its applicability across all clinical indications. This volume features clinicians from around the world sharing their clinical experiences with children of various age groups, including teenagers and adolescents. Another focus area is the safety of GBT in patients with aesthetic needs, all types of restorations, and prostheses. The ease of application and utility in the aging population are also highlighted.

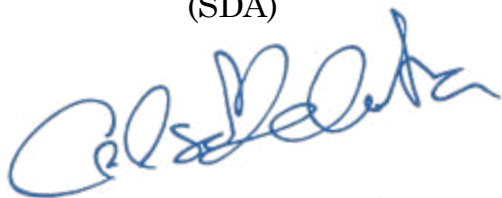
Addressing concerns in the medically compromised patient group, where there was previously insecurity and unpredictability in applying GBT, this volume showcases successful GBT usage in patients with various infections and diseases. It emphasizes that GBT is not only safe and effective but also highly comfortable. The majority of cases spotlight supportive periodontal therapy, emphasizing the need to recall patients on a regular basis.

As Bill Gates aptly puts it, “Treatment without prevention is simply unsustainable.”

Your Swiss Dental Academy Team

Nyon/Switzerland, November 21, 2023.

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**“I FEEL  
GOOD”**

PS: If you want to be featured in the next GBT Clinical Cases volume, please submit your clinical case to the email address: [gbtclinicalcases@ems-ch.com](mailto:gbtclinicalcases@ems-ch.com)

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**“I FEEL  
GOOD”**



# WHY GBT?

- 1 A GAME CHANGER **FOR BETTER ORAL PROPHYLAXIS**
- 2 GOOD ORAL HEALTH = **HEALTHY PATIENT**
- 3 BEST CLINICAL PROTOCOL = **BEST CLINICAL RESULTS.**  
GBT REDUCES THE RISK OF CARIES, GINGIVITIS AND PERIODONTAL DISEASE.  
“We can be sure only when biofilm has been completely removed.”  
Nicole Einemann and Manuela Cordes, Dental Hygienists, Dr. Arendt Dental, Bremerhaven, Germany
- 4 **PATIENTS WANT GBT. NOTHING ELSE.**  
NO MORE FEAR OF PAIN. NO MORE DISCOMFORT.  
ONCE EXPERIENCED, PATIENTS LOVE GBT,  
ESPECIALLY CHILDREN.
- 5 **SATISFIED CLINICIANS,**  
RELAXED PATIENTS. EFFICIENT, SYSTEMATIC  
WORKFLOW WITH ERGONOMIC INSTRUMENTS.  
BYE-BYE STRESS, BYE-BYE CARPAL TUNNEL S., BYE-BYE BIOFILM.
- 6 **SUCCESSFUL DENTAL PRACTICES -**  
GOOD MONEY FOR GOOD WORK. ENTHUSIASTIC PATIENTS WILL  
RECOMMEND THE **GBT-CERTIFIED** PRACTICE.
- 7 ORAL MEDICINE AND PREVENTION ARE THE **FUTURE OF DENTISTRY.** GBT IS THE FUTURE OF PREVENTION.
- 8 GBT IS A SURPRISING **“I FEEL GOOD EXPERIENCE”.**  
STATE-OF-THE-ART IS FAVORED BY PATIENTS.  
AND BY CLINICIANS.



Reserve a free GBT Demo: [gbt-dental.com/GBT-DEMO-ENG](http://gbt-dental.com/GBT-DEMO-ENG)

# HOW TO DO GBT?



## 01 ASSESSMENT AND INFECTION CONTROL

Protect your patients and your practice team from infections. Start GBT by rinsing 40 seconds with BACTERX® Pro. Diagnosis and documentation of the individual supra- and subgingival status for each patient.

## 02 DISCLOSE

Make the oral biofilm visible by disclosing and explain the **WHY** to the patient. Scientific evidence confirms that oral biofilm causes 95 % of all dental problems: caries, gingivitis and periodontitis.



## 03 MOTIVATE

Emphasize the importance of oral home care and professional prevention. Instruct your patients in oral hygiene.

## 04 AIRFLOW® MAX

Eliminate the disclosed biofilm supra- and subgingivally up to 4mm with AIRFLOW® MAX and AIRFLOW® PLUS Powder. The original **AIR-FLOWING®** is minimally invasive and pain-free.\*

## 05 PERIOFLOW®

Remove oral biofilm in deep pockets up to 9mm with PERIOFLOW® Nozzle and AIRFLOW® PLUS Powder.\*

## 06 PIEZON® PS / PI MAX

Gently remove calculus on natural teeth with the original PIEZON® NO PAIN PS (Perio Slim) Instrument and around implants, restorations and orthodontic appliances with the new PIEZON® PI (Peri Implant) MAX Instrument.\*

## 07 CHECK

Check whether oral biofilm and calculus have been removed completely and whether previously hidden caries is now visible. Conventional professional teeth cleaning removes only 50 % of oral biofilm in areas that are difficult to reach.

Source: Stiftung Warentest 7/2015. **NO MORE POLISHING**. Polishing and grinding with abrasive pastes is truly no longer necessary. Why produce unnecessary smear layers?

## 08 RECALL

Would your patient like to answer the GBT questionnaire?

This is helpful for a successful GBT treatment.

Schedule the next prophylaxis appointment.

\*Learn more about how GBT works in practice, how to avoid dust when AIR-FLOWING®, how to use PERIOFLOW® correctly or how to minimize the risk of emphysema at the Swiss Dental Academy (SDA): [www.swissdentalacademy.com](http://www.swissdentalacademy.com)

**A REGULAR GBT RECALL GUARANTEES  
LASTING ORAL HEALTH FOR YOUR PATIENTS.**

**We recommend a free GBT Demo: [gbt-dental.com/GBT-DEMO-ENG](http://gbt-dental.com/GBT-DEMO-ENG)**

# THE GBT COMPASS AND

## 08 RECALL

HEALTHY PATIENT = HAPPY PATIENT

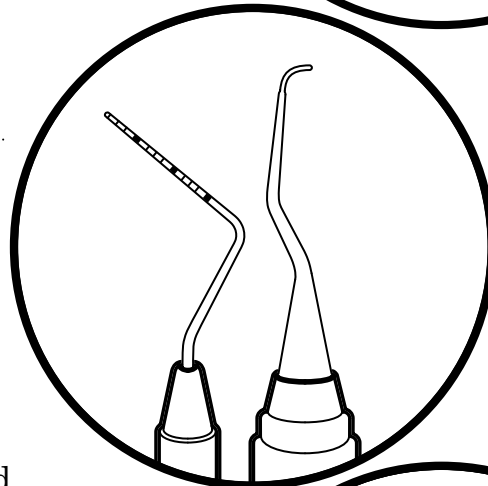
- ▶ Schedule recall frequency according to risk assessment
- ▶ Ask your patient if he or she liked the treatment



## 07 CHECK

MAKE YOUR PATIENT SMILE

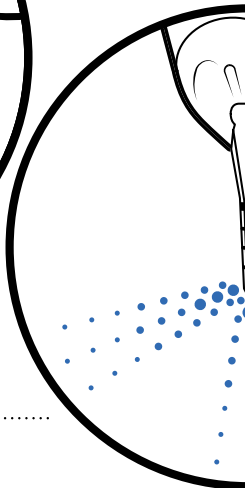
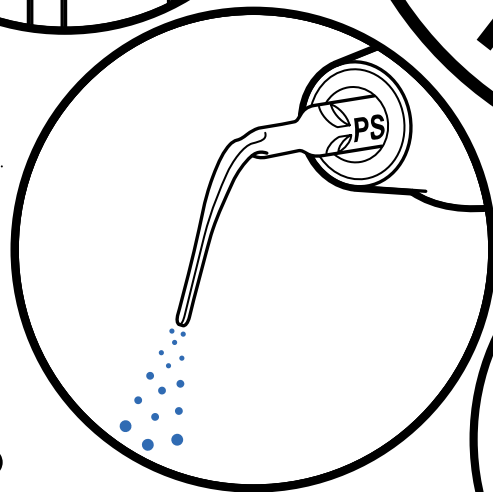
- ▶ Do a final check for remaining biofilm
- ▶ Ensure calculus is fully removed
  - ▶ Accurately diagnose caries
    - ▶ Protect with fluoride
    - ▶ No polishing anymore



## 06 PIEZON® PS

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 MAX Instrument around implants up to 3 mm subgingivally and on 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 new and slimmer PERIOFLOW® Nozzle



# ITS 8-STEP PROTOCOL

## 01 ASSESSMENT AND INFECTION CONTROL

ASSESS EVERY CLINICAL CASE AND IMPLEMENT HYGIENE MEASURES

- ▶ Start by rinsing with BacterX® Pro mouthwash
- ▶ Assess teeth, gingiva and periodontal tissues
- ▶ Assess implants and peri-implant tissues

## 02 DISCLOSE

MAKE BIOFILM VISIBLE

- ▶ Highlight to patients the disclosed biofilm and their problematic areas with EMS Biofilm Discloser
- ▶ The color will guide biofilm removal
  - ▶ Once biofilm is removed, calculus is easier to detect

## 03 MOTIVATE

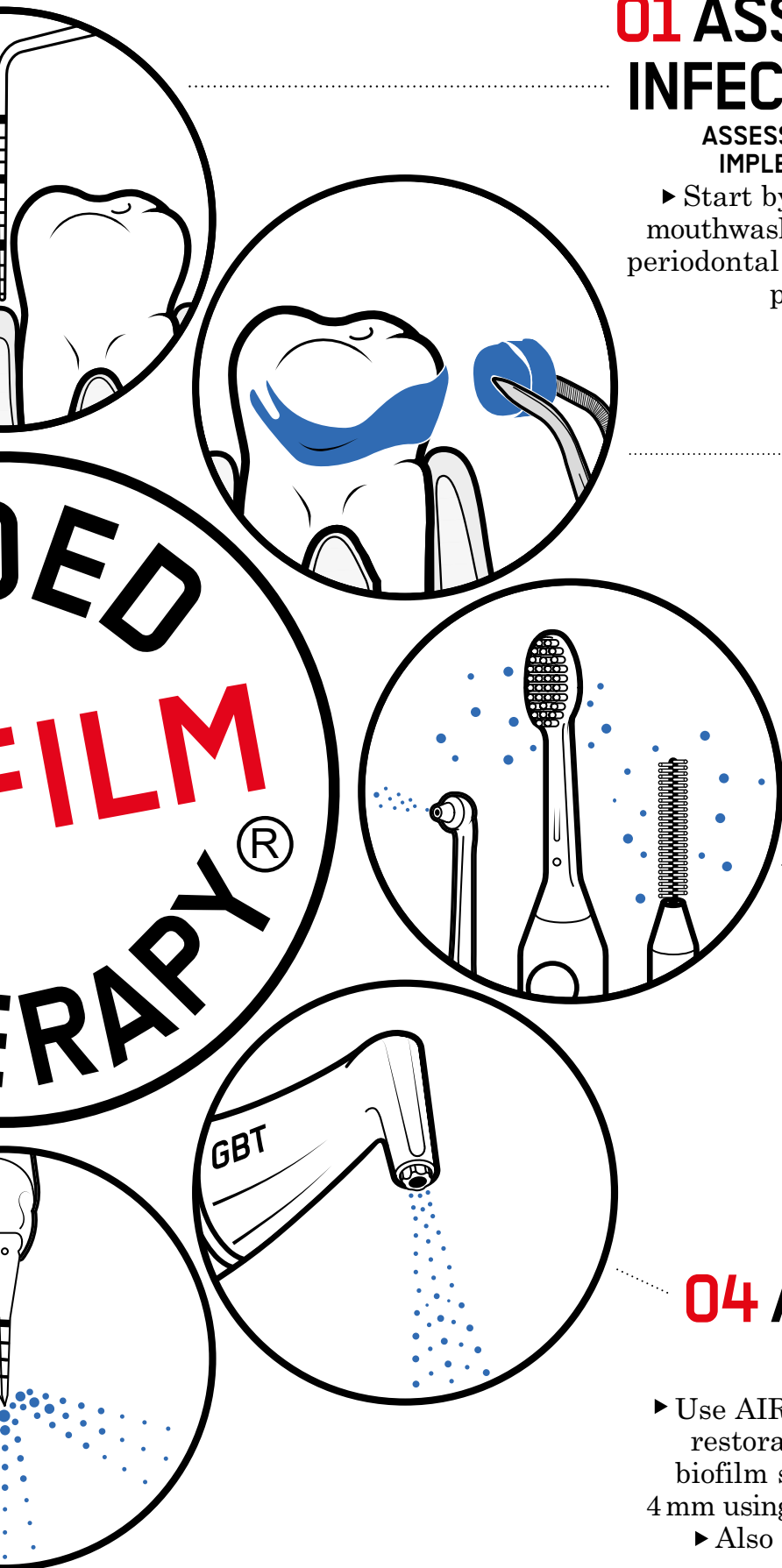
RAISE AWARENESS AND TEACH

- ▶ Emphasize the importance of prevention
- ▶ Instruct your patients in oral hygiene
- ▶ EMS recommends interdental brushes or dental floss as well as electric or manual toothbrushes and AIRFLOW® erythritol toothpaste for daily home care

## 04 AIRFLOW® MAX

REMOVE BIOFILM, STAINS AND EARLY CALCULUS

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



# AESTHETICS, RESTORATIONS

## CASE 1



**CLINICIAN**  
Dr. Lyu Da  
Periodontist  
China

### PATIENT INFORMATION

- ▶ Age 73, male.

### BACKGROUND INFORMATION

- ▶ 2 years of implant-overdenture restorations. Smoked 20 cigarettes/day for 50 years. Fairly good health, no history of hypertension or regular medication.

### CLINICAL FINDINGS

- ▶ Diagnosis: Mucosal hyperplasia. Probing depths of approx. 4-5 mm.

### TREATMENT

- ▶ A complete Guided Biofilm Therapy (GBT) performed as recommended for implant maintenance, using AIR-FLOWING®, with AIRFLOW® PLUS Powder and PIEZON® PI MAX Instrument. Recall scheduled every 3 months.

## PATIENT FEEDBACK

“GBT IS THE GOOD, THE BEAUTIFUL AND THE TRUE.”

# AND PROSTHESES

**BEFORE GBT**



**AIRFLOW® MAX**



**PIEZON® PI MAX**



**AFTER GBT**



# AESTHETICS, RESTORATIONS

## CASE 2



### CLINICIAN

Shaymaa Alreefy  
Dental hygienist  
EMEA

### PATIENT INFORMATION

- ▶ Male, 41 years old.

### BACKGROUND INFORMATION

- ▶ Routine dental hygiene appointment. Undergoing Invisalign treatment now and for the previous 10 months. Patient has attachments bonded to teeth.

### CLINICAL FINDINGS

- ▶ Light supragingival calculus deposits along lower anterior teeth with moderate extrinsic staining on the palatal and lingual surfaces of the upper and lower anterior teeth respectively.

### TREATMENT

- ▶ Guided Biofilm Therapy (GBT) protocol followed, biofilm was highlighted and shown to patient for proper oral health instruction and motivation. Biofilm and extrinsic staining removed with AIRFLOW® PLUS powder. Calculus deposits removed with PIEZON® PS Instrument followed by final check and dental hygiene recall appointment set in three months.

## PATIENT FEEDBACK

“I FEEL SUPER HAPPY.”

# AND PROSTHESES

**BEFORE GBT**



**AFTER DISCLOSING**



**AFTER GBT**



# AESTHETICS, RESTORATIONS

## CASE 3



### CLINICIAN

Dr Julie Renaud  
Dentist  
France

### PATIENT INFORMATION

- ▶ Age 30, female.

### BACKGROUND INFORMATION

- ▶ Complains of spontaneous bleeding from the gums. She has never had treatment other than the advice to use mouthwashes and she is worried that the problem getting worse. Non-smoker, no health problems.

### CLINICAL FINDINGS

- ▶ On clinical examination, the patient has spontaneous bleeding, Bleeding On Probing (BOP), lots of dental biofilm and calculus. Microscopic analysis reveals significant dysbiosis. The gums are hyperplastic and very sensitive.

### TREATMENT

- ▶ Disclosing agent was used. Oral hygiene was taught and reinforced. Guided Biofilm Therapy (GBT) protocol included the AIRFLOW® PLUS Powder (and the AIRFLOW® MAX handpiece), then PIEZON® PS Instrument for cleaning residual calculus. She was given antiseptic (chlorhexidine) but no antibiotic because there was no suppuration. A check-up appointment was set 3 weeks later. After 3 weeks and only one session of GBT treatment she no longer had bleeding gums.

## PATIENT FEEDBACK

**“GBT CHANGED MY LIFE AND THAT I FEEL COMFORTABLE WITH MY MOUTH.”**

# AND PROSTHESES

**BEFORE GBT**



**AFTER DISCLOSING**



**AFTER GBT**



# AESTHETICS, RESTORATIONS

## CASE 4



### CLINICIAN

Marija Scheffler  
Dental hygienist  
Germany

### PATIENT INFORMATION

- ▶ Age 65, male.

### BACKGROUND INFORMATION

- ▶ No history of smoking. No relevant medical history. Patient was advised to apply Duraphat regularly in addition to using Elmex for home care. Patient used superfloss, interdental aids three times a week. Eats sweet snacks and always a soda with food. Comes to dental office every 4 months. High motivation levels.

### CLINICAL FINDINGS

- ▶ Chronic periodontitis present. Presence of denture and multiple crowns present. Patient having difficulty in keeping them clean. Risk of dental caries.

### TREATMENT

- ▶ Guided Biofilm Therapy (GBT) given according to recommendations with AIRFLOW® PLUS Powder. PIEZON® PS Instrument also used to remove calculus.

## PATIENT FEEDBACK

**“I HAVE NO MORE PAIN. IN THE FUTURE ONLY GBT OR NO TREATMENT.”**



# AND PROSTHESES

**BEFORE GBT**



**AFTER DISCLOSING**



**AFTER GBT**



# AESTHETICS, RESTORATIONS

## CASE 5



### CLINICIAN

Sarah Heuving  
Dental hygienist  
Germany

### PATIENT INFORMATION

- ▶ Age 64, female.

### BACKGROUND INFORMATION

- ▶ Smokes about 15 cigarettes a day. Anxious patient, needs new dentures, has never had a dental cleaning, rheumatism is known, no medication.

### CLINICAL FINDINGS

- ▶ Probing depths at 4-7mm, Bleeding On Probing (BOP) index in the posterior region increased despite smoking, severe smoking discoloration, calculus in the mandibular front. Never had a dental cleaning. Periodontitis therapy is planned.

### TREATMENT

- ▶ Detailed oral hygiene instruction with a focus on interdental care, gentle toothbrush advised and tongue cleaning shown. Professional teeth cleaning according to the Guided Biofilm Therapy (GBT) concept. Application of the AIRFLOW® MAX with AIRFLOW® PLUS Powder. Calculus removal with PIEZON® PS and PI MAX Instruments. Emphasis on education specific to periodontitis.

## PATIENT FEEDBACK

**“I AM NO LONGER AFRAID OF TEETH CLEANING AND AM LOOKING FORWARD TO MY NEXT TREATMENT. I AM INDEED GRATEFUL.”**

# AND PROSTHESES

**BEFORE GBT**



**AFTER DISCLOSING**



**AFTER GBT**



# AESTHETICS, RESTORATIONS

## CASE 6



### CLINICIAN

Sofia Drivas  
Dental hygienist  
Italy

### PATIENT INFORMATION

- ▶ Age 73, female.

### BACKGROUND INFORMATION

- ▶ Plaque score 35%, and FMBS (Full-Mouth Bleeding Score) of 15%. Overall good status of the dentition but the patient reported having some problems in cleaning the peri-implant prosthesis in the lower incisors.

### CLINICAL FINDINGS

- ▶ The patient did not present any condition of mucositis or peri-implantitis but the high FMPS indicates that there is the need to better motivate the patient in order to prevent peri-implant mucositis around implants positioned in the region of 3.1 and 4.1.

### TREATMENT

- ▶ The patient underwent a session of one hour of Guided Biofilm Therapy (GBT) treatment. After the motivational session, AIRFLOW® PLUS Powder used at 3 to remove biofilm and stains clearly visible in the photos. PIEZON® PI MAX Instrument was used during the ultrasonic treatment to remove calculus.

## PATIENT FEEDBACK

**“I AM VERY HAPPY WITH THE TREATMENT. I FELT NO PAIN AT ALL AND I AM NOW MORE CONFIDENT OF HER SMILE.”**

# AND PROSTHESES

**BEFORE GBT**



**AFTER DISCLOSING**



**AFTER GBT**



# AESTHETICS, RESTORATIONS

## CASE 7



### CLINICIAN

Nicole Stevanello  
Dental hygienist  
Italy

### PATIENT INFORMATION

- ▶ Age 70, female.

### BACKGROUND INFORMATION

- ▶ Poor oral hygiene with inflammation, halitosis, vegan diet, history of periodontitis.

### CLINICAL FINDINGS

- ▶ Heavy stains on vestibular and lingual surfaces, supra and subgingival biofilm and calculus. The patient presented signs of peri-implantitis with Bleeding On Probing (BOP), suppuration and PPD of  $\geq 5$  mm to the implants (3.6 - 4.4 - 4.6). Implants supported crowns (1.4 -1.5) presented mobility due to screw loosening.

### TREATMENT

- ▶ AIRFLOW® with PLUS Powder used supra- and subgingivally to remove biofilm and heavy stains followed by PIEZON® PI MAX to remove calculus around implants and ceramic crowns. No PERIOFLOW® at this appointment due to suppuration and profuse bleeding.

## PATIENT FEEDBACK

**“NO MORE PAIN AND INFLAMMATION. COMFORTABLE AND EFFICIENT.  
I RECOMMEND GBT PROTOCOL TO ALL PATIENTS.”**

# AND PROSTHESES

**BEFORE GBT**



**AFTER DISCLOSING**



**AIRFLOW® MAX**



**PIEZON® PI MAX**



**AFTER GBT**



# AESTHETICS, RESTORATIONS

## CASE 8



### CLINICIAN

Simone Villa  
Dental hygienist  
Italy

### PATIENT INFORMATION

- ▶ Age 40, male.

### BACKGROUND INFORMATION

- ▶ Patient with previous severe untreated periodontitis of grade C in stage IV. Absent oral hygiene and last dental visit carried out over two years ago.

### CLINICAL FINDINGS

- ▶ Presence of multiple restorations Severe periodontitis with third-class mobility on many dental elements, presence of periodontal pockets on all sextants and large amount of calculus deposits, Bleeding On Probing (BOP) +++.

### TREATMENT

- ▶ The treatment will be combined at a periodontal and surgical level with the initial restoration of periodontal health through the Guided Biofilm Therapy (GBT) protocol, manual scaling and root planing and subsequent replacement of the mobile elements.

## PATIENT FEEDBACK

**“BEFORE STARTING THE TREATMENT PROCESS, I HAD A GREAT FEAR OF NOT BEING ABLE TO ENDURE PROFESSIONAL ORAL HYGIENE TREATMENTS WITHOUT THE USE OF LOCAL ANESTHESIA.”**



# AND PROSTHESES

**BEFORE GBT**



**AFTER DISCLOSING**



**AFTER GBT**



# AESTHETICS, RESTORATIONS

## CASE 9



### CLINICIAN

RDH Eunae Kim  
Dental hygienist  
Korea

### PATIENT INFORMATION

- ▶ Age 60, female.

### BACKGROUND INFORMATION

- ▶ No relevant habits. Poor oral hygiene.

### CLINICAL FINDINGS

- ▶ Mandible has an implant overdenture. Presence of calculus deposits around exposed fixture threads. Overall bleeding present.

### TREATMENT

- ▶ Perform Guided Biofilm Therapy (GBT), including removal of supragingival calculus with PIEZON® PI MAX. Brushing was taught especially reinforcement on light pressure. Follow-up instructions at 3-month intervals.

## PATIENT FEEDBACK

**“I’VE BEEN SUFFERING FROM CALCULUS BUILD UP AROUND MY IMPLANTS,  
BUT NOW THAT I’M GETTING REGULAR CLEANINGS,  
I’M FEELING BETTER AND RELIEVED.”**

# AND PROSTHESES

**BEFORE GBT**



**AFTER DISCLOSING**



**AFTER GBT**



# AESTHETICS, RESTORATIONS

## CASE 10



### CLINICIAN

Magdalena Michałowska  
Dental hygienist  
Poland

### PATIENT INFORMATION

- ▶ Age 35, male.

### BACKGROUND INFORMATION

- ▶ Visiting dental office for the 1st time.

### CLINICAL FINDINGS

- ▶ Patient has prosthetic crowns. Very poor oral hygiene. Many decalcified teeth. Aproximal Plaque Index (API) 78%, Bleeding On Probing (BOP) 28%.

### TREATMENT

- ▶ Biofilm disclosed, oral hygiene instruction given. Patient instructed to use toothpaste with fluoride. Guided Biofilm Therapy (GBT) done. Recall visit in 3 months.

## PATIENT FEEDBACK

“I DIDN'T KNOW THAT THERE COULD BE SUCH A THING ON MY TEETH.”

# AND PROSTHESES

**BEFORE GBT**



**AFTER DISCLOSING**



**AFTER GBT**



# AESTHETICS, RESTORATIONS

## CASE 11



### CLINICIAN

Natalia Szelag  
Dental hygienist  
Poland

### PATIENT INFORMATION

- ▶ Age 55, female.

### BACKGROUND INFORMATION

- ▶ Reported to the hygiene dept to visit the dentist. Last visit to the dentist's office took place 5 years ago. Before the visit, the patient reported a problem with the crown on the implant in position 11.

### CLINICAL FINDINGS

- ▶ Presence of a temporary restoration for the last five years. The crown was cemented and placed back in place with temporary cement. The patient wanted to do final work.

### TREATMENT

- ▶ Guided Biofilm Therapy (GBT) done following each step including biofilm disclosure, AIRFLOW® technology with AIRFLOW® PLUS Powder and PIEZON® PI Instrument.

## PATIENT FEEDBACK

"I FEEL TRULY CLEAN!"

# AND PROSTHESES

**BEFORE GBT**



**AFTER DISCLOSING**



**AFTER GBT**



# AESTHETICS, RESTORATIONS

## CASE 12



### CLINICIAN

Dr. Ani Atanesyan  
Dentist  
Russia

### PATIENT INFORMATION

- ▶ Age 26, female.

### BACKGROUND INFORMATION

- ▶ No bad habits.

### CLINICAL FINDINGS

- ▶ Biofilm and mineralized supragingival and subgingival dental biofilm, the level of motivation is high. There are many composite and ceramic dental restorations in the oral cavity.

### TREATMENT

- ▶ Examination of the patient, probing, assessment of the condition of the oral cavity. Professional oral hygiene according to the Guided Biofilm Therapy (GBT) protocol. Selection and recommendations of individual products for home oral care.

## PATIENT FEEDBACK

**“IT WAS AN INCREDIBLY ENJOYABLE AND COMFORTABLE  
EXPERIENCE FROM START TO FINISH.  
I FELT INCREDIBLE FRESHNESS AND CLEANLINESS AFTER THE PROCEDURE.”**

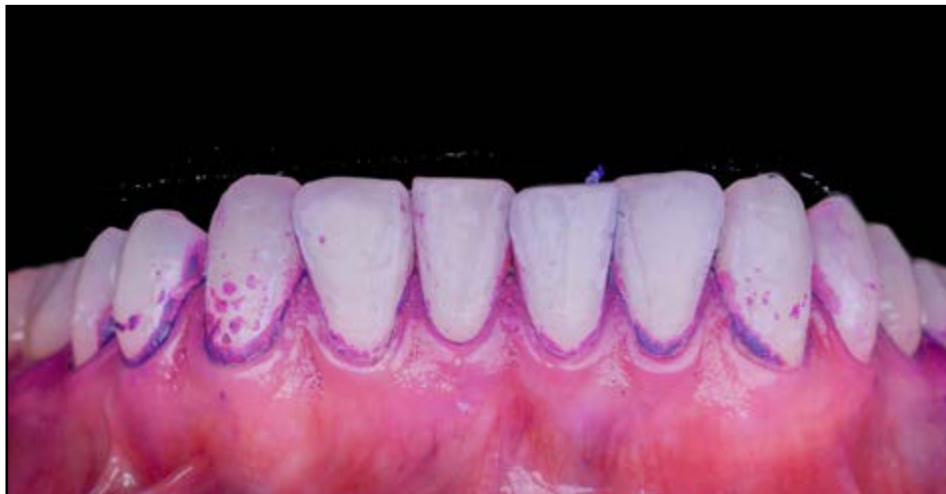


# AND PROSTHESES

**RINSING WITH AIRFLOW® MAX**



**AFTER DISCLOSING**



**AFTER GBT**



# AESTHETICS, RESTORATIONS

## CASE 13



### CLINICIAN

Dr. Li Beng Wong  
Periodontist  
Singapore

### PATIENT INFORMATION

- ▶ Age 72, male.

### BACKGROUND INFORMATION

- ▶ On 4-monthly periodontal maintenance. No relevant habits. Wears an upper cobalt chrome removable partial denture. Oral hygiene level unstable.

### CLINICAL FINDINGS

- ▶ Poor oral hygiene. Chronic stains on denture acrylic teeth.

### TREATMENT

- ▶ Use of pre-rinse mouth rinse, followed by biofilm disclosure and motivation (chairside interdental brushing demonstration). AIR-FLOWING® treatment was carried out using AIRFLOW® PLUS Powder. Calculus removal at certain interproximal areas was performed using PIEZON® PS Instrument. Final check for any residual biofilm, calculus and caries. Chronic stains on denture acrylic teeth were removed using AIRFLOW® PLUS Powder. Patient was placed on recall every 4 months.

## PATIENT FEEDBACK

**“I FIND THE TREATMENT VERY COMFORTABLE.  
I APPRECIATE THE VALUE-ADDED SERVICE TO CLEAN UP MY DENTURE  
TEETH WHICH I HAVE NOT BEEN ABLE TO DO MYSELF.”**

# AND PROSTHESES

**BEFORE GBT**



**AFTER DISCLOSING**



**AFTER GBT**



# AESTHETICS, RESTORATIONS

## CASE 14



### CLINICIAN

Silvia Kokindová  
Dental hygienist  
Slovakia

### PATIENT INFORMATION

- ▶ Age 20, female.

### BACKGROUND INFORMATION

- ▶ Previous bad experience with conventional oral hygiene treatment treatment at dental practice. High sensitivity during treatment at the dentist and dental hygienist. Dietary anamnesis revealed high consumption of soft drinks.

### CLINICAL FINDINGS

- ▶ Patient misses front teeth during cleaning with manual toothbrush. Interdental spaces cleaned only with flosspick irregularly. Demineralization and high caries index of permanent dentition. Sent to orthodontist for improved dental hygiene and to repair teeth with dental fillings before orthodontic therapy.

### TREATMENT

- ▶ The first step was disclosing. Dental biofilm was removed with AIRFLOW® PLUS Powder, calculus present on front teeth was removed with PIEZON® PS Instrument. Remineralizing paste GC MI Tooth Mousse Plus was applied after procedure and recommended once a week for home use. Recall was scheduled every 3 months.

## PATIENT FEEDBACK

**“AFTER MONTHS THERE ARE NO MORE DENTAL CARIES AND NO BLEEDING DURING CLEANING MY TEETH!”**

# AND PROSTHESES

**BEFORE GBT**



**AFTER  
DISCLOSING**



**AFTER GBT**



**AFTER GBT  
6-MONTH  
RECALL**



# AESTHETICS, RESTORATIONS

## CASE 15



### CLINICIAN

Dr Beatriz Rosell Sevilla  
Dentist  
Spain

### PATIENT INFORMATION

► Age 52, female.

### BACKGROUND INFORMATION

► No existing diseases, no medication. Smokes 15 cigarettes a day. Invisible orthodontic treatment for 1.5 years.

### CLINICAL FINDINGS

► No periodontal pockets or Bleeding On Probing (BOP). Biofilm and calculus accumulation around the attachments. Presence of stains.

### TREATMENT

► Guided Biofilm Therapy (GBT) performed. Biofilm discloser and emphasis on oral hygiene instructions. AIRFLOW® MAX was used with AIRFLOW® PLUS Powder to remove all biofilm and stains followed by PIEZON® PI Instrument in the areas with calculus remaining. After a final check, a 3-month recall was scheduled. Smoking cessation advised.

## PATIENT FEEDBACK

**“IT’S THE FIRST TIME A CLINICIAN HAS REMOVED STAINS AROUND MY ATTACHMENTS WITHOUT POLISHING CUPS OR ULTRASONICS. THE FEELING OF CLEANLINESS IS TRULY INCREDIBLE.”**

# AND PROSTHESES

**BEFORE GBT**



**AFTER DISCLOSING**



**AFTER GBT**



# CHILDREN AND GBT

## CASE 16



### CLINICIAN

Adina Mauder  
Dental hygienist  
Germany

### PATIENT INFORMATION

► Age 16, male.

### BACKGROUND INFORMATION

► Oral hygiene status is poor, Approximal Plaque Index (API) 55%, last dental cleaning 3 months ago.

### CLINICAL FINDINGS

► Moderate gingivitis, calculus in the lower mandibular front teeth, Bleeding On Probing (BOP)+, difficulty with interdental care.

### TREATMENT

► Guided Biofilm Therapy (GBT) treatment with AIRFLOW® PLUS Powder and PIEZON® PS Instrument only. Rinsing with CHX and application of fluoride. Post GBT short recall interval of 3 months showed improvement in compliance, better oral hygiene, Approximal Plaque Index (API) 10%, diet improved, Bleeding On Probing (BOP)-, less calculus, no swelling, no inflammation.

## PATIENT FEEDBACK

**“I DID NOT EXPECT THAT DENTAL TREATMENT CAN BE FUN. THE TEETH FEEL SMOOTH AND ARE BRIGHT WHITE. GREAT GBT! THANK YOU!”**



**BEFORE GBT**



**AFTER  
DISCLOSING**



**AFTER GBT**



# CHILDREN AND GBT

## CASE 17



### CLINICIAN

Adina Mauder  
Dental hygienist  
Germany

### PATIENT INFORMATION

► Age 16, male.

### BACKGROUND INFORMATION

► No relevant habits. Oral hygiene is poor. Approximal Plaque Index (API) 70%, last teeth cleaning 3 months ago.

### CLINICAL FINDINGS

► Gingivitis, periodontal pockets 4mm - tooth 46, calculus+, Bleeding On Probing (BOP)+, difficulty with interdental care.

### TREATMENT

► Guided Biofilm Therapy (GBT) treatment with AIRFLOW® PLUS Powder and PIEZON® PS Instrument only. Rinsing with CHX and application of fluoride. Post GBT short recall interval of 3 months, improvement in compliance, better oral hygiene, Approximal Plaque Index (API) 10%, diet improved, Bleeding On Probing (BOP)-, no pocket probing depth over 4 mm, less calculus, no swelling, no inflammation, recall every 3 months.

## PATIENT FEEDBACK

**“SINCE MY TREATMENT WITH GUIDED BIOFILM THERAPY,  
I AM EVEN MORE MOTIVATED TO COME FOR TREATMENT. IT IS FUN!  
THE RESULT IS GREAT. I HAVE WHITE TEETH.  
WOW GBT! COOL!”**

**BEFORE GBT**



**AFTER  
DISCLOSING**



**AFTER GBT**



# CHILDREN AND GBT

## CASE 18



### CLINICIAN

Cristina Giacomuzzo  
Dental hygienist  
Italy

### PATIENT INFORMATION

► Age 15, male.

### BACKGROUND INFORMATION

► Brush teeth only once a day. Professional oral hygiene every 6 months, manual toothbrush.

### CLINICAL FINDINGS

► Presence of gingival inflammation. Presence of severe white spot around the brackets. after some recall we can see improvement of the appearance of the white spots.

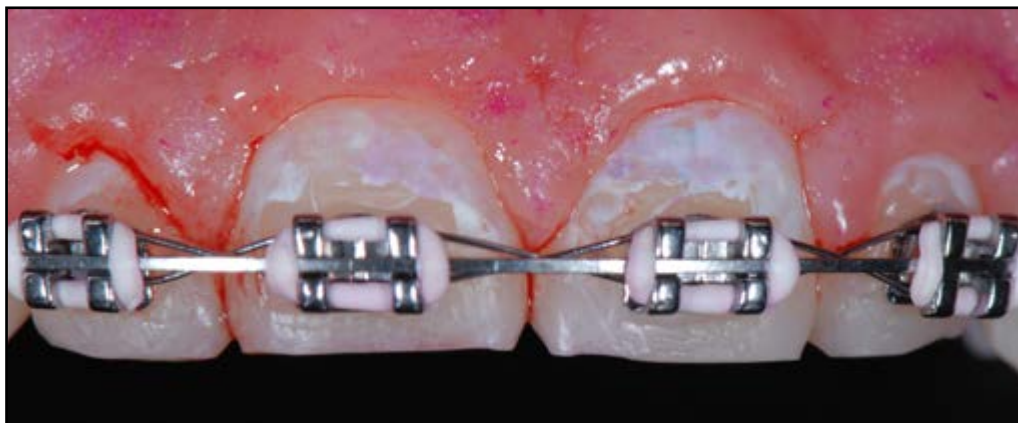
### TREATMENT

► Guided Biofilm Therapy (GBT) done, the patient was educated to improve dental hygiene with electric toothbrush and daily application of fluoride casein-based mousse. Frequent professional dental oral hygiene every 3 months.

## PATIENT FEEDBACK

**“WAS ALWAYS WORRIED ABOUT THE PAIN DURING DENTAL HYGIENE AND NOW I FELT NOTHING. THE MOTHER WAS HAPPY WITH THE IMPROVEMENT.”**

**AFTER 1<sup>ST</sup>  
GBT**



**BEFORE 1<sup>ST</sup>  
RECALL**



**AFTER  
DISCLOSING  
1<sup>ST</sup> RECALL**



**AFTER GBT  
1<sup>ST</sup> RECALL**



# CHILDREN AND GBT

## CASE 19



### CLINICIAN

Desrin-Dionne Morris  
Dental hygienist and dental therapist  
England

### PATIENT INFORMATION

► Age 15, male.

### BACKGROUND INFORMATION

► Patient is autistic. Has suboptimal brushing. Diet is low cariogenic. Good levels of motivation but has some amount of anxiety.

### CLINICAL FINDINGS

► No caries detected. BPE scores of 2 all over due to calculus. Has Bleeding On Probing (BOP) 79%, oedema, erythema, the gingivae are dark red and sore to touch. Biofilm score 76%. Stained mineralised calculus and biofilm present. Diagnosis of gingivitis. Retained upper baby teeth.

### TREATMENT

► After assessment, diet discussed. Disclosing done and patient advised and motivated on correct tooth brushing. AIR-FLOWING® done with AIRFLOW® PLUS Powder. PIEZON® PI Instrument used on low setting number 3 to remove supragingival calculus. Fissure sealants were placed onto all molars to protect deep fissures. 2nd appointment scheduled after 6 weeks.

## PATIENT FEEDBACK

**“MY TEETH FEEL MUCH BETTER AND MY GUMS ARE NOT SORE. I’M NOT NERVOUS ABOUT COMING TO MY HYGIENE APPOINTMENTS ANY MORE. CANT WAIT TO START PLAYING RUGBY. I’M VERY HAPPY.”**

**BEFORE GBT**



**AFTER DISCLOSING**



**AFTER GBT**



**6-WEEK  
RECALL  
AFTER  
DISCLOSING**



# CHILDREN AND GBT

## CASE 20



### CLINICIAN

Dr. Ghalia Moqbali  
Dentist  
Oman

### PATIENT INFORMATION

- ▶ Age 16, female.

### BACKGROUND INFORMATION

- ▶ Patient follows cariogenic diet, poor oral hygiene, but highly motivated to change her inaccurate dental habits.

### CLINICAL FINDINGS

- ▶ On examination, poor biofilm control, perio screening done, No pockets > 4mm, gingival recession in tooth 31, anterior cross bite and teeth crowding, dental caries in teeth 36 and 46.

### TREATMENT

- ▶ Biofilm disclosure done followed by full mouth Guided Biofilm Therapy (GBT) procedure. Patient to be assessed after 1 month with the perio specialist for free gingival graft surgery.

## PATIENT FEEDBACK

**“I HAD A GOOD TREATMENT EXPERIENCE, I WAS COMPLAINING ABOUT BLEEDING GUMS, BUT NOW I’M MUCH BETTER AFTER THE GBT, WHICH I EXPERIENCED FOR THE FIRST TIME IN PERIO CLINIC, HIGHLY RECOMMEND IT.”**



**BEFORE GBT**



**AFTER DISCLOSING**



**AFTER GBT**



# CHILDREN AND GBT

## CASE 21



### CLINICIAN:

Dr. Gleb Aseev  
Dentist  
Russia

### PATIENT INFORMATION

- ▶ Age 3, male.

### BACKGROUND INFORMATION

- ▶ First visit to dentist. Bad oral hygiene.

### CLINICAL FINDINGS

- ▶ Guided Biofilm Therapy (GBT) with AIRFLOW® PLUS powder and AIRFLOW® MAX handpiece. It was extra fast and gentle. Some areas were treated with PIEZON® NO PAIN handpiece with PIEZON® PI Instrument to remove calculus.

### TREATMENT

- ▶ Use of pre-rinse mouth rinse, followed by biofilm disclosure and motivation (chairside brushing and flossing demonstration). AIR-FLOWING® treatment was carried out using AIRFLOW® PLUS Powder. Calculus removal at certain interproximal areas was performed using PIEZON® PS Instrument without need for local anesthesia. Final check for any residual biofilm, calculus and caries. Patient was placed on recall every 6 months.

## PATIENT FEEDBACK

“PARENTS WERE THANKFUL.”

**BEFORE GBT**



**AFTER  
DISCLOSING**



**AFTER GBT**



# CHILDREN AND GBT

## CASE 22



### CLINICIAN

Dr. Zhang Xiao Wen  
Periodontist  
China

### PATIENT INFORMATION

- ▶ Age 11, male.

### BACKGROUND INFORMATION

- ▶ Brush teeth twice/day, less than 1min each time. Never used dental floss before.

### CLINICAL FINDINGS

- ▶ Staining was found on the surface of upper anterior teeth for more than two months and then dentist assistance was sought, accompanied by parents.

### TREATMENT

- ▶ Guided Biofilm Therapy (GBT) done with AIR-FLOWING®. Parents were instructed on oral hygiene. Patient was motivated and dietary counseling was given. Patient recalled every 4 months.

## PATIENT FEEDBACK

**“I FEEL COMFORTABLE AND I FEEL SO GOOD!”**

**BEFORE GBT**



**AFTER DISCLOSING**



**AFTER GBT**



# CHILDREN AND GBT

## CASE 23



### CLINICIAN

Giovanna Mosaico  
Dental hygienist  
Italy

### PATIENT INFORMATION

- ▶ Age 11, male.

### BACKGROUND INFORMATION

- ▶ This little patient rarely brushed his teeth due to pain and gingival bleeding during brushing. The medical history was negative for systemic diseases. The child preferred a sugary and not very varied diet, and was overweight. He did not have any caries, while biofilm-related gingivitis was evident. On intraoral examination, the patient presented significant accumulation of biofilm and calculus.

### CLINICAL FINDINGS

- ▶ Gingivitis with hypertrophy of the papillae.

### TREATMENT

- ▶ Biofilm detection and assessment were performed using the biofilm discloser. The residual biofilm was then removed with the AIRFLOW® Prophylaxis Master using AIRFLOW® PLUS Powder, while the calculus was tackled with the PIEZON® PS Instrument.

## PATIENT FEEDBACK

“I WAS SURPRISED TO SEE SIGNIFICANT IMPROVEMENT IN MY ORAL HYGIENE.”

**BEFORE GBT**



**AFTER DISCLOSING**



**AFTER GBT**



# CHILDREN AND GBT

## CASE 24



### CLINICIAN

Hanan Tahir Abdulla  
Hygienist  
UAE

### PATIENT INFORMATION

- ▶ Age 13, male.

### BACKGROUND INFORMATION

- ▶ Overall healthy. The patient has low level of motivation and poor oral hygiene due to insufficient brushing and no flossing. Patient consumes very sugary foods and drinks. Patient does not have any medical issues.

### CLINICAL FINDINGS

- ▶ Bleeding On Probing (BOP)-, patient has marginal inflammation in a few areas.

### TREATMENT

- ▶ Guided Biofilm Therapy (GBT) every three months using motivation and AIRFLOW® as the basis.

## PATIENT FEEDBACK

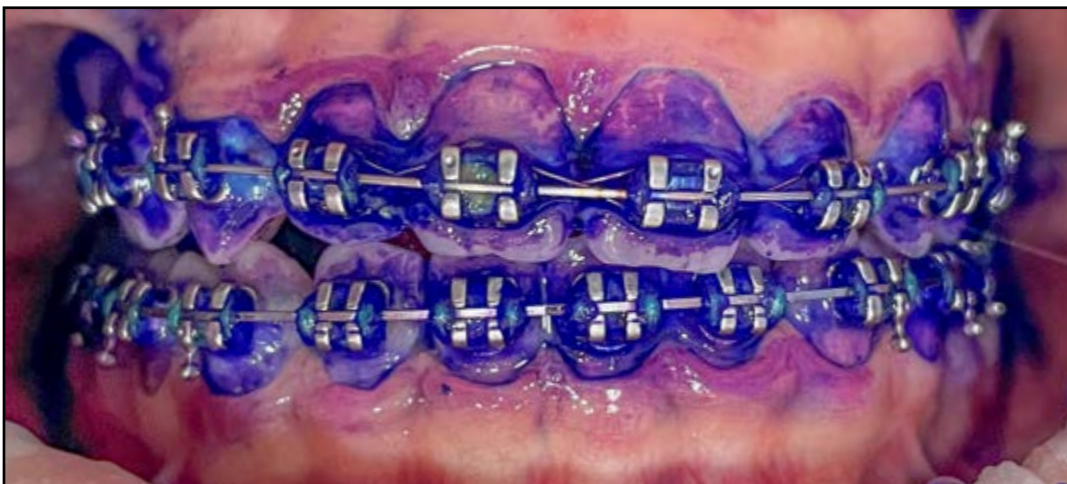
**“WAS NERVOUS BEFORE THE HYGIENE APPOINTMENT. FELT RELAXED DURING THE TREATMENT AND I’M HAPPY WITH THE TREATMENT.”**



**BEFORE GBT**



**AFTER DISCLOSING**



**AFTER GBT**



# CHILDREN AND GBT

## CASE 25



### CLINICIAN:

Karen Ng  
Dental hygienist  
Canada

### PATIENT INFORMATION

- ▶ Age 13, female.

### BACKGROUND INFORMATION

- ▶ A little self-conscious about her smile. Lazy about brushing her teeth. Visited the hygienist 2 yrs ago.

### CLINICAL FINDINGS

- ▶ Overall good oral hygiene. No Bleeding On Probing (BOP). Orthodontic treatment recommended to improve her bite.

### TREATMENT

- ▶ Patient was disclosed and motivated. This was the best part of the treatment as she was very enthusiastic about showing how she brushes her teeth. AIRFLOW® PLUS Powder and AIR-FLOWING® was done using AIRFLOW® MAX only. Patient recalled after 4 months.

## PATIENT FEEDBACK

**“I AM SUPER THRILLED. I PROMISE TO BRUSH BETTER  
AND COME BACK SOON.”**

**BEFORE GBT**



**AFTER DISCLOSING**



**AFTER GBT**



# CHILDREN AND GBT

## CASE 26



### CLINICIAN:

Karen Ng  
Dental hygienist  
Canada

### PATIENT INFORMATION

- ▶ Age 4, male.

### BACKGROUND INFORMATION

- ▶ No relevant habits. First ever dental hygiene appointment. Uses manual toothbrush 2x/day on its own, no interdental aids.

### CLINICAL FINDINGS

- ▶ Marginal gingival inflammation along maxillary teeth related to biofilm accumulation.

### TREATMENT

- ▶ Guided Biofilm Therapy (GBT) treatment protocol completed with AIRFLOW® PLUS Powder. Introduced electric toothbrush with phone app & timer. Discussed cariogenic biofilm with parent and need for extra attention when brushing along maxillary teeth. Recare in 6 months.

## PATIENT FEEDBACK

**“I AM SO THANKFUL THAT MY SON HAS BEEN ABLE TO EXPERIENCE GBT FROM THE START OF HIS DENTAL JOURNEY. HE LOVES SEEING HIS PICTURES AT EACH APPOINTMENT AND IT MOTIVATES HIM TO BRUSH BETTER AT HOME.”**

**BEFORE GBT**



**AFTER DISCLOSING**



**AFTER GBT**



# CHILDREN AND GBT

## CASE 27



### CLINICIAN

Katarzyna Ostrowska  
Dental hygienist  
Poland

### PATIENT INFORMATION

- ▶ Age 11, male.

### BACKGROUND INFORMATION

- ▶ Nothing relevant.

### CLINICAL FINDINGS

- ▶ Poor oral hygiene, manual toothbrush, diet with a lot of sweet and mushy foods. Mixed dentition, need for orthodontic consultation. Large biofilm deposits, calculus mainly on incisor teeth on the lingual side, gingival inflammation mainly in the 1st and 4th quadrant, minor bleeding during treatment.

### TREATMENT

- ▶ Guided Biofilm Therapy (GBT) was performed. Instruction using electric toothbrush, flossing demonstration (Flosser). Patient's mother present during oral hygiene instruction.

## PATIENT FEEDBACK

**"WILL COME BACK SOON. ENJOYED THE TREATMENT."**

**BEFORE GBT**



**AFTER  
DISCLOSING**



**AFTER GBT**



# CHILDREN AND GBT

## CASE 28



### CLINICIAN

Kendra Fox  
Dental hygienist  
United States

### PATIENT INFORMATION

- ▶ Age 14, male.

### BACKGROUND INFORMATION

- ▶ Loves Gatorade Sports drink, Plays baseball, basketball and football. Patient admits to brushing once a day. Does not floss or use a Waterpik. No unusual medical history, He seems motivated after looking at a small video showing oral bacteria.

### CLINICAL FINDINGS

- ▶ Patient has 2 areas of decay #3 and #14 occlusal. Generalized moderate biofilm, slight supragingival calculus on the mandibular lingual of anteriors.

### TREATMENT

- ▶ Treatment included: medical history review, pre-rinse with CloSYS, GC Tri plaque disclosing gel applied to all teeth. Oral hygiene instruction to include electric toothbrush, and Waterpik. Guided Biofilm Therapy (GBT) performed, no PIEZON® needed. Fluoride varnish 2.5% sodium fluoride and dispensed Fluorimax 5000 paste to be applied morning and before bed. Do not rinse or eat or drink for 30 minutes. Dietary counseling for patient and parents given.

## PATIENT FEEDBACK

**“I’M GOING TO GET UP 5 MINUTES EARLIER SO I CAN BRUSH AND WATERPIK MY TEETH. THE TREATMENT WAS EXCELLENT.”**



**BEFORE GBT**



**AFTER DISCLOSING**



**AFTER GBT**



# CHILDREN AND GBT

## CASE 29



### CLINICIAN

Krisztina Vörös  
Dental hygienist  
Hungary

### PATIENT INFORMATION

► Age 15, female.

### BACKGROUND INFORMATION

► Healthy, no medication taken. At the age of 12 she had her first GBT treatment at our clinic. Patient became a regular every 6 months. 1.5 years ago, patient received her fixed braces and from that moment GBT sessions have been repeated every 3 months due to the fact that local biofilm retention generates very easily around brackets. Due to personal issues (school exams, moving, stressful situations etc..) patient skipped one of her visits which has clearly led to signs of weakened quality of oral hygiene.

### CLINICAL FINDINGS

► Angle II/2 bite, deep bite, gap at lower teeth, front incisors are positioned backwards. Bleeding On Probing (BOP)+, gingival bleeding occurred on probing in the lower frontal region. After disclosing, strong staining and biofilm can be seen on and around the braces, on the surface of the teeth, on tongue, and supragingival calculus presents on the lower front region.

### TREATMENT

► Guided Biofilm Therapy (GBT) treatment with the use of AIRFLOW® PLUS Powder and PIEZON® PS Instrument. At step 3 - Motivation - patient has been educated how to use special ortho toothbrush and interdental aids. Recall was recommended after a month.

## PATIENT FEEDBACK

**“THIS TREATMENT IS ABSOLUTELY PAIN-FREE AND IT HELPS A LOT TO KEEP MY TEETH VERY CLEAN EVEN IF I AM NOT THE BEST WITH TOOTHBRUSHING AT HOME MYSELF.”**

**BEFORE GBT**



**AFTER DISCLOSING**



**AFTER GBT**



# CHILDREN AND GBT

## CASE 30



### CLINICIAN

Olga Dunaeva  
Dental hygienist  
Russia

### PATIENT INFORMATION

► Age 15, female.

### BACKGROUND INFORMATION

► No bad habits. Lacking oral hygiene skills. The mother brought the child to the hygiene and prevention department. Request was to teach the child to brush her teeth, instil hygiene skills. Medically fit. Patient loves sugar.

### CLINICAL FINDINGS

► Poor oral hygiene with gingivitis present. Presence of hard calculus in the area of 47, 46 lingual. In the cervical region of the lower jaw, active demineralization (diagnosis of Diagnodent KAVO), tooth 36 – C.

### TREATMENT

► Pre rinsing with 0.2% chlorhexidine, After probing, Biofilm Discloser applied, hygiene lesson with selection of personal hygiene products, removal of soft and pigmented biofilm with AIRFLOW® PLUS Powder. In the area of 47, 46 treatment of the cervical region with an ultrasonic PIEZON® PS Instrument. The teeth are coated with the fluoride-containing preparation Enamelast. Check up after 1 week and recall for cleaning after 4 months scheduled. Oral hygiene. Diet consultation given. Focus on oral hygiene.

## PATIENT FEEDBACK

“I FEEL CLEAN.”

**BEFORE GBT**



**AFTER DISCLOSING**



**AFTER GBT**



# CHILDREN AND GBT

## CASE 31



### CLINICIAN

Olga Dunaeva  
Dental hygienist  
Russia

### PATIENT INFORMATION

► Age 16, male.

### BACKGROUND INFORMATION

► No bad habits. The skill of oral hygiene is not formed. Came here as mother requested that the child does not brush his teeth and has a bad smell from his mouth. No allergies, there are no general somatic diseases. The patient eats 2-3 times a day, frequent snacks with various carbohydrates. Overall fit. The patient brushes his teeth 2-3 times a week.

### CLINICAL FINDINGS

► Generalized gingivitis. Biofilm present, Bleeding On Probing (BOP)+, presence of sensitivity, unpleasant odor. Hard dental calculus absent. In the cervical region of the upper and lower jaw, presence of active demineralization.

### TREATMENT

► After pre rinsing with 0.2% chlorhexidine, Biofilm Discloser staining used, hygiene lesson with the selection of individual hygiene products (sonic toothbrush, brushes and dental floss recommended), removal of soft biofilm with AIRFLOW® PLUS Powder. The teeth are coated with a fluoride-containing preparation Enamelast. Patient put on a 3 monthly recall. Recommended consultation with a pediatric dentist, orthodontist, treatment.

## PATIENT FEEDBACK

**“I WILL TRY TO CLEAN BETTER AND COME HERE MORE IF TREATMENT IS SO NICE.”**

**BEFORE GBT**



**AFTER DISCLOSING**



**AFTER GBT**



# CHILDREN AND GBT

## CASE 32



### CLINICIAN

Dr. Shahd Rezqalla  
Dentist  
Kuwait

### PATIENT INFORMATION

- ▶ Age 17, male.

### BACKGROUND INFORMATION

- ▶ Patient was diagnosed with mild mental disability that is not allowing him to maintain good oral hygiene. Patient can achieve good level of communication; however he has low level of motivation as he is not aware of the importance of oral hygiene. Patient is uncooperative and has dental anxiety. He had previous dental work done under GA due to his severe anxiety and medical condition.

### CLINICAL FINDINGS

- ▶ Generalized gingivitis (drug induced). Multiple carious teeth (class II + class III + class V). Poor oral hygiene. Malocclusion.

### TREATMENT

- ▶ Dental prophylaxis with 3-month recall. Gingival treatment with oral CHX. 2% mouthwash and Gengigel. Parents and his personal carer were educated to maintain good oral hygiene with adjusted oral hygiene instructions. Caries will be treated under sedation. Orthodontic treatment was not recommended.

## PATIENT FEEDBACK

“I’M VERY HAPPY! WITHOUT PAIN OR DISCOMFORT.”



**BEFORE GBT**



**AFTER DISCLOSING**



**AFTER GBT**



# CHILDREN AND GBT

## CASE 33



### CLINICIAN

Tatyana Bolsherotova  
Dentist  
Russia

### PATIENT INFORMATION

- ▶ Age 3, female.

### BACKGROUND INFORMATION

- ▶ The patient's first visit after adaptation appointments for professional hygiene. The patient has milk teeth. Presence of chipped enamel and increased sensitivity in the upper front teeth.

### CLINICAL FINDINGS

- ▶ Lots of biofilm in both jaws.

### TREATMENT

- ▶ Biofilm staining. Removal of biofilm by AIR-FLOWING®, AIRFLOW® PLUS Powder. Fluoridation of teeth. The Guided Biofilm Therapy (GBT) protocol was conducted with a focus on patient motivation and training in home teeth cleaning. Removed biofilm with AIRFLOW® PLUS Powder. Fluoridation of teeth. GBT was performed with emphasis on patient motivation and home teeth cleaning education.

## PATIENT FEEDBACK

**“PARENTS FEEDBACK: I AM NOT SCARED AND TREATMENT IS NOT PAINFUL.”**

**BEFORE GBT**



**AFTER DISCLOSING**



**AFTER GBT**



# CHILDREN AND GBT

## CASE 34



### CLINICIAN

Silvia Kokindova  
Dental hygienist  
Slovakia

### PATIENT INFORMATION

- ▶ Age 7, male.

### BACKGROUND INFORMATION

- ▶ High caries index, first visit for dental hygiene.

### CLINICAL FINDINGS

- ▶ Sticky old biofilm covering 2/3 of teeth with inflamed gingiva, highly carious mixed dentition. Irregular cleaning even with classic manual toothbrush.

### TREATMENT

- ▶ The first and the most important step is disclosing biofilm for child and parent. Training on cleaning teeth with manual toothbrush and using interdental brush. All the biofilm was removed with AIRFLOW® PLUS Powder, no calculus was present. Interdental spaces were controlled for calculus. Remineralizing cream REMIN PRO was applied after whole procedure.

## PATIENT FEEDBACK

**“MY TEETH ARE LIKE NEW!”**

**AFTER DISCLOSING**



**AFTER GBT**



# CHILDREN AND GBT

## CASE 35



### CLINICIAN

Silvia Kokindova  
Dental hygienist  
Slovakia

### PATIENT INFORMATION

- ▶ Age 17, male.

### BACKGROUND INFORMATION

- ▶ Good general health, no special diet, first time for dental hygiene.

### CLINICAL FINDINGS

- ▶ Generalized gingivitis induced by dental biofilm and calculus, even in interdental spaces, severe Bleeding On Probing (BOP)+.

### TREATMENT

- ▶ Guided Biofilm Therapy (GBT) protocol has been done with main focus on motivation and explaining the most important parts to clean - around the gum line. All the biofilm was removed with AIRFLOW® PLUS Powder. To remove calculus, the PIEZON® PS Instrument was used.

## PATIENT FEEDBACK

**“MY FIRST DENTAL HYGIENE WAS UNBELIEVABLY PLEASANT. I EXPECTED A WORSE VERSION OF THIS TREATMENT. HAPPY TO SEE YOU NEXT TIME.”**

**BEFORE GBT**



**AFTER DISCLOSING**



**AFTER GBT**



# CHILDREN AND GBT

## CASE 36



### CLINICIAN

Sarah Cash  
Dental hygienist  
Australia

### PATIENT INFORMATION

- ▶ Age 16, female.

### BACKGROUND INFORMATION

- ▶ Patient attended with her mum. Has an upper and lower fixed orthodontic appliance. Last dental visit was 6 months ago. Orthodontist has referred patient for a hygiene appointment before the lower wire is replaced. Patient has recently bought an electric toothbrush and reports brushing twice daily. Patient is not using anything to clean interdentally or between the orthodontic brackets.

### CLINICAL FINDINGS

- ▶ Poor oral hygiene, generalised gingivitis.

### TREATMENT

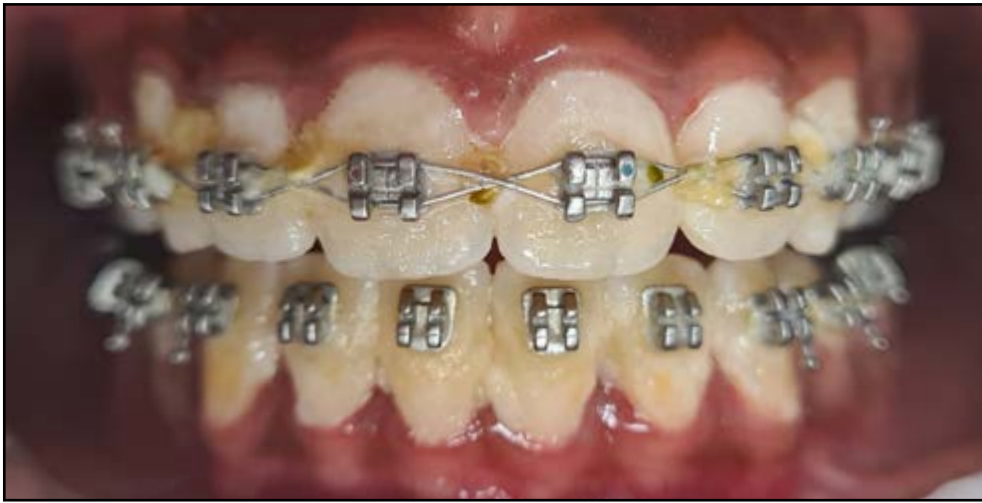
- ▶ Full mouth Guided Biofilm Therapy (GBT) was implemented. Her biofilm was disclosed using GC Tri Plaque ID Gel and shown to the patient and her parent. The patient was motivated and shown how to use an electric toothbrush. Additionally, I demonstrated how to use interdental brushes and a water flosser to clean interdentally and around the orthodontic brackets. Full mouth PMPR was completed using the full EMS GBT protocol with the AIRFLOW® MAX, AIRFLOW® PLUS Powder and the PIEZON® PS Instrument.

## PATIENT FEEDBACK

“DISCLOSING IS VERY USEFUL.”



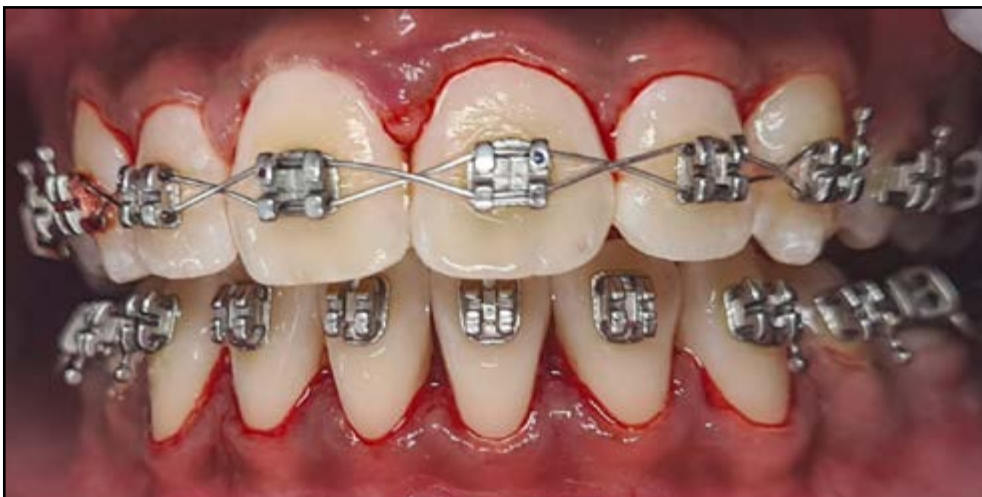
**BEFORE GBT**



**AFTER DISCLOSING**



**AFTER GBT**



# CHILDREN AND GBT

## CASE 37



### CLINICIAN

Katarzyna Ostrowska  
Dental hygienist  
Poland

### PATIENT INFORMATION

► Age 17, male.

### BACKGROUND INFORMATION

► Uses a manual toothbrush, fluoride-free toothpaste. Patient undergoing treatment with fixed orthodontic appliances.

### CLINICAL FINDINGS

► Poor oral hygiene. Large biofilm deposits and calculus. Presence of carious cavities. Lack of orthodontic brackets and arch in the mandible.

### TREATMENT

► Tooth brushing instruction with an electric toothbrush and interdental brushes was performed. Following the Guided Biofilm Therapy (GBT) protocol, a large carious cavity was evident on the mesial area of tooth No. 12 at the gingival line. Patient was recommended electric toothbrush, interdental brushes, irrigator, fluoride toothpaste and fluoride rinse. The patient was referred for conservative treatment and to an orthodontist for an emergency appointment. A control appointment was made for the patient to see the hygienist in 1 month.

## PATIENT FEEDBACK

**“MY BRACKETS NOT ONLY LOOK GOOD NOW, I ALSO FEEL THEY LOOK CLEANER. THANK YOU!”**

**BEFORE GBT**



**AFTER  
DISCLOSING**



**AFTER GBT**



# GERIATRICS AND GBT

## CASE 38



### CLINICIAN

Gisèle Choquette  
Dental hygienist  
Canada

### PATIENT INFORMATION

- ▶ Age 55, female.

### BACKGROUND INFORMATION

- ▶ No dental cleaning in the 15 yrs. Heavy smoker 20-25 cigarettes per day and more than 40 years, now vaping for 3 years 8 times a day. Stressful life, clenching and bad oral hygiene with poor diet.

### CLINICAL FINDINGS

- ▶ Periodontal disease: Stage 4 Grade C. Presence of generalized pockets between 5mm to 10mm, mobility of 1 to 3, bleeding index 3. Also has bruxism. Risk factors: smoking, lack of vitamin D and poor oral hygiene. Lots of food trapped between teeth. Patient advised on oral hygiene improvement and 6 months recall cleaning for life to maintain her oral hygiene.

### TREATMENT

- ▶ First appointment: Guided Biofilm Therapy (GBT) full mouth done. PERIOFLOW® has not been used because of the heavy bleeding and the lack of keratinized tissues. Debridement with PIEZON® PS, PSR PSL Instrument. Oral hygiene instruction. Second appointment after 2 weeks. Emphasis on oral hygiene instruction. Following which every 2 weeks for the next 6 weeks patient was recalled and GBT was done. Extractions carried out wherever necessary.

## PATIENT FEEDBACK

**“I DIDN’T HAVE ANY PAIN WITH AIRFLOW®, PERIOFLOW®, AND PIEZON®.  
I FEEL SO GOOD NOW!”**

**BEFORE GBT**



**AFTER  
DISCLOSING**



**AFTER  
6 MONTHS**



# GERIATRICS AND GBT

## CASE 39



### CLINICIAN

Karen Ng  
Dental hygienist  
Canada

### PATIENT INFORMATION

► Age 70, male.

### BACKGROUND INFORMATION

► Uses manual toothbrush 2x/day and no interdental aids. Client motivated to improve home care routine, but “never instructed” (by previous clinicians). First dental hygiene appointment in almost 3 years.

### CLINICAL FINDINGS

► Generalized marginal gingival inflammation related to biofilm accumulation. Generalized Stage III, Grade B. Bleeding On Probing (BOP) 30%. Hypersensitivity related to generalized recession and horizontal bone loss. Mandibular molars previously root canal treated and not crowned - fractured / broken many years ago.

### TREATMENT

► Guided Biofilm Therapy (GBT) protocol completed with AIRFLOW® PLUS Powder, PIEZON® PS Instrument and hand instrumentation. Educated the client about their exposed cementum/roots and increased susceptibility to disease. Instructions were given for the home management of biofilm (sulca brush tip of water flosser along gum margins). Plans to introduce electric toothbrush in the future. Recare in 4-months.

## PATIENT FEEDBACK

**“MY HYGIENE APPOINTMENT WAS THOROUGH AND MOST IMPORTANTLY, SO GENTLE AND COMFORTABLE! I NEVER THOUGHT IT WOULD BE POSSIBLE WITH MY RECEDING GUMS AND SENSITIVE SPOTS.”**

**BEFORE GBT**



**AFTER DISCLOSING**



**AFTER GBT**



# GERIATRICS AND GBT

## CASE 40



### CLINICIAN

Dr. Jacques Hassid  
Periodontist and Implantologist  
France

### PATIENT INFORMATION

- ▶ Age 90, female.

### BACKGROUND INFORMATION

- ▶ Patient has health problems - rheumatoid arthritis for 18 yrs. Non-smoker. More than 20 years ago, she was treated for chronic periodontitis.

### CLINICAL FINDINGS

- ▶ Oral hygiene is good. Manages to brush well. Good salivary flow.

### TREATMENT

- ▶ Complete Guided Biofilm Therapy (GBT) done every 6 months. Patient is on supportive periodontal therapy.

## PATIENT FEEDBACK

“THANKS TO GBT, I CAN MANAGE TO MAINTAIN GOOD TEETH.”



**BEFORE GBT**



**AFTER DISCLOSING**



**AFTER GBT**



# GERIATRICS AND GBT

## CASE 41



### CLINICIAN

Anja Baechinger  
Dental hygienist  
Switzerland

### PATIENT INFORMATION

- ▶ Age 65, male.

### BACKGROUND INFORMATION

- ▶ Regular recall every 6 months, highly motivated, good oral hygiene.

### CLINICAL FINDINGS

- ▶ Low Bleeding On Probing (BOP), no deep periodontal pockets, minimal calculus, light stains.

### TREATMENT

- ▶ Guided Biofilm Therapy (GBT) performed for the patient using AIRFLOW® PLUS Powder and the PIEZON® PS Instrument. Patient is motivated and maintains a good level of oral hygiene.

## PATIENT FEEDBACK

“I REALLY LIKE THIS GBT TREATMENT. FEELS SO GOOD DURING AND AFTER!”

**BEFORE GBT**



**AFTER DISCLOSING**



**AFTER GBT**



# GERIATRICS AND GBT

## CASE 42



### CLINICIAN

Eva Hochmann  
Dental hygienist  
Germany

### PATIENT INFORMATION

- ▶ Age 64, male.

### BACKGROUND INFORMATION

- ▶ High blood sugar. Poor oral care, no interdental care, low level of motivation.

### CLINICAL FINDINGS

- ▶ Periodontitis: 82% Bleeding On Probing (BOP)+; halitosis present.

### TREATMENT

- ▶ Guided Biofilm Therapy (GBT) performed for the patient using AIRFLOW® PLUS Powder and the PIEZON® PS Instrument.

## PATIENT FEEDBACK

**“I ALREADY FEEL MUCH BETTER AFTER THE FIRST TREATMENT WITH GBT. I THINKS IT IS THE BEST WAY TO IMPROVE MY ORAL HEALTH AND DIABETES. I’M GRATEFUL FOR MY FIRST TREATMENT WITH GBT.”**

**BEFORE GBT**



**AFTER DISCLOSING**



**AFTER GBT**



# GERIATRICS AND GBT

## CASE 43



### CLINICIAN

Dr. Bashar Hameed Alhadithy  
Periodontis  
Iraq

### PATIENT INFORMATION

- ▶ Age 65, male.

### BACKGROUND INFORMATION

- ▶ Patient was visiting Baghdad smile-specialized dental clinics with a request of wanting to clean teeth with the new device that he saw on Facebook. There was no contributory past medical history.

### CLINICAL FINDINGS

- ▶ The patient had mild halitosis and bleeding during tooth brushing. Poor oral hygiene with obvious biofilm retention.

### TREATMENT

- ▶ Supra- and subgingival professional mechanical biofilm removal through Guided Biofilm Therapy (GBT) protocol. Use of AIRFLOW® PLUS Powder throughout. PIEZON® was used only to remove hard calculus.

## PATIENT FEEDBACK

“SURPRISING TO SEE THE BIOFILM, BUT TREATMENT WAS AMAZING.”

**BEFORE GBT**



**AFTER DISCLOSING**



**AFTER GBT**



# GERIATRICS AND GBT

## CASE 44



### CLINICIAN

Pascale Hemelrijk  
Dental hygienist  
The Netherlands

### PATIENT INFORMATION

- ▶ Age 75, male.

### BACKGROUND INFORMATION

- ▶ Drinks 5 alcohol drinks per day. Poor mouth hygiene. Mouth habits: grinding during the night. Is on blood thinners, metformin and gliclazide prescribed for diabetes mellitus type 2. The patient has always been cleaned by their own dentist. This was the very first time he visited a dental hygienist and had Guided Biofilm Therapy (GBT). Patient uses hand to brush teeth.

### CLINICAL FINDINGS

- ▶ Stage IV Grade C Periodontitis. Bleeding On Probing (BOP)+. Oral hygiene poor.

### TREATMENT

- ▶ After the medical was taken, the the pockets were measured and the teeth and mouth inspected. The oral biofilm was made visible and the patient was instructed on the importance of oral home care and professional prevention. Comprehensive instruction, motivation, and explanation about the Guided Biofilm Therapy (GBT) method. Extensive instruction on using interdental brushes and electric toothbrush was given. The calculus was supra- and subgingivally removed without pain with the PIEZON® PS Instrument. This patient immediately scheduled a follow-up appointment for three months.

## PATIENT FEEDBACK

“I AM PLEASANTLY SURPRISED AND SUPER HAPPY!”



**BEFORE GBT**



**AFTER DISCLOSING**



**AFTER GBT**



# GERIATRICS AND GBT

## CASE 45



### CLINICIAN

Katarzyna Ostrowska  
Dental hygienist  
Poland

### PATIENT INFORMATION

- ▶ Age 89, female.

### BACKGROUND INFORMATION

- ▶ Average oral hygiene, uses manual toothbrush.

### CLINICAL FINDINGS

- ▶ Prosthetic restorations, leaking fillings, gingival recessions. Biofilm deposits, mineralized biofilm, calculus. Large calculus deposit around teeth 26-27. Missing teeth 34-38 and 45, 46, 48.

### TREATMENT

- ▶ Guided Biofilm Therapy (GBT) was performed. Instruction using electric toothbrush, demonstration of irrigator operation. Referral to a prosthodontist was made.

## PATIENT FEEDBACK

**“WOW AT MY AGE, I THOUGHT I WILL FEEL PAIN, BUT I AM FINE AND ACTUALLY LIKED THE TREATMENT.”**

**BEFORE GBT**



**AFTER  
DISCLOSING**



**AFTER GBT**



# GERIATRICS AND GBT

## CASE 46



### CLINICIAN

Gisela Casas  
Dental hygienist  
Spain

### PATIENT INFORMATION

► Age 68, female.

### BACKGROUND INFORMATION

► Highly sensitive patient. She has Invisalign attachments and implants. Hygiene done every 6 months. Patient is on supportive periodontal therapy.

### CLINICAL FINDINGS

► She presents with biofilm and calculus at a low level and a lot of stains, especially in the lower incisors.

### TREATMENT

► Guided Biofilm Therapy (GBT) protocol done through removal of biofilm and stains with AIRFLOW<sup>®</sup>, calculus with PIEZON<sup>®</sup> PS Instrument and PIEZON<sup>®</sup> PI for implants.

## PATIENT FEEDBACK

“COMING TO THE DENTIST IS NO LONGER A BAD EXPERIENCE.”

**BEFORE GBT**



**AFTER  
DISCLOSING**



**AFTER GBT**



# GERIATRICS AND GBT

## CASE 47



### CLINICIAN

Marta Romero Salgueiro  
Dental hygienist  
Spain

### PATIENT INFORMATION

- ▶ Age 62, female.

### BACKGROUND INFORMATION

- ▶ Atlantic diet (vegetables, fish, beef, cerzo meat), fresh produce picked from the garden. Very poor condition of the oral cavity. The patient is not motivated. He goes to a consultation “forced” by his partner.

### CLINICAL FINDINGS

- ▶ The patient has only gone to the dentist before to extract teeth. There has never been an oral cleaning, nor a filling. No treatment, only extractions.

### TREATMENT

- ▶ At the first appointment I probed the patient and performed a scaling using the Guided Biofilm Therapy (GBT). He went to consult for several weeks to review and motivate. I took pictures before and after each appointment.

## PATIENT FEEDBACK

**“I SHOULD HAVE TAKEN CARE OF MYSELF BEFORE, NOW THAT MY MOUTH IS CLEAN I AM AWARE OF THE IMPORTANCE OF TAKING CARE OF MYSELF AND BRUSHING MY TEETH. NOW I BRUSH MY TEETH EVERY NIGHT.”**

**BEFORE GBT**



**AFTER  
DISCLOSING**



**AFTER GBT**



# GERIATRICS AND GBT

## CASE 48



### CLINICIAN

Frida Falldén  
Dental hygienist  
Sweden

### PATIENT INFORMATION

► Age 61, male.

### BACKGROUND INFORMATION

► Patient in supportive periodontal therapy. Diagnosis: generalized periodontitis stage IV grade C. Majority of teeth are lost. Lack of oral hygiene.

### CLINICAL FINDINGS

► Several periodontal pockets 4-5mm. Several bleeding points. Generalized thin layer with calculus.

### TREATMENT

► Guided Biofilm Therapy (GBT) with AIRFLOW® PLUS Powder followed by PIEZON® PS Instrument. Fluoride treatment. Patient comes every 4 months for supportive therapy.

## PATIENT FEEDBACK

“A VERY NICE AND PAIN-FREE TREATMENT. IT FEELS VERY GOOD AND CLEAN.”



**BEFORE GBT**



**AFTER  
DISCLOSING**



**AFTER GBT**



# GERIATRICS AND GBT

## CASE 49



### CLINICIAN

Dr Ahmed Yassin  
Dentist  
UAE

### PATIENT INFORMATION

► Age 55, female.

### BACKGROUND INFORMATION

► Diet-healthy. Oral hygiene status-fair. Good level of motivation. No relevant past dental medical history.

### CLINICAL FINDINGS

► Bleeding On Probing (BOP), gingivitis caused by oral biofilm, presence of subgingival calculus, pockets under 4mm.

### TREATMENT

► Guided Biofilm Therapy (GBT) with AIRFLOW® PLUS Powder in one visit, then recall after one week for follow up, oral hygiene instructions.

## PATIENT FEEDBACK

**“I’M VERY HAPPY. MY TEETH ARE WHITER.  
I DIDN’T FEEL ANY PAIN. THANK YOU!”**

**BEFORE GBT**



**AFTER  
DISCLOSING**



**AFTER GBT**



# GERIATRICS AND GBT

## CASE 50



### CLINICIAN

Nina von de Fenn  
Dental hygienist  
Germany

### PATIENT INFORMATION

- ▶ Age 72, female.

### BACKGROUND INFORMATION

- ▶ Combination of pacemaker & defibrillator. Patient on medication: anticoagulant, 2 different blood pressure reducers and other medication. She stated that in the past she had regularly gone for a check-up and professional cleaning every six months.

### CLINICAL FINDINGS

- ▶ On average, she had probing depths of 5-7 mm deep with Probing One Bleeding (BOP)+ and partial calculus deposits as well as a maximum residual bone project of 40%.

### TREATMENT

- ▶ Professional tooth cleaning according to the Guided Biofilm Therapy (GBT) protocol as periodontal pre-treatment. A complete GBT was done. After disclosing, motivation for home care (which the patient did not know), an intensive cleaning with AIRFLOW® MAX and AIRFLOW® PLUS powder took place, then calculus removal with the PIEZON® PS Instrument. A final fluoride combination preparation was applied.

## PATIENT FEEDBACK

**“TREATMENT WAS SUPER AMAZING AND RELAXED.  
I LOOK FORWARD TO COMING TO THE NEXT ONE!”**

**BEFORE GBT**



**AFTER  
DISCLOSING**



**AFTER GBT**



# GERIATRICS AND GBT

## CASE 51



### CLINICIAN

Hanan Tahir Abdulla  
Dental hygienist  
UAE

### PATIENT INFORMATION

- ▶ Age 68, male.

### BACKGROUND INFORMATION

- ▶ Patient drinks a lot of coffee and has a fair level of oral hygiene. He brushes his teeth twice a day and flosses regularly. However, his last dental cleaning appointment was over a year ago.

### CLINICAL FINDINGS

- ▶ Chronic periodontal disease and gingival recession.

### TREATMENT

- ▶ Guided Biofilm Therapy (GBT) every three months.

## PATIENT FEEDBACK

**“I FELT GOOD DURING THE GBT APPOINTMENT AND MADE A PROMISE TO COME FOR REGULAR VISITS IN THE FUTURE BECAUSE IT WAS SUCH A POSITIVE EXPERIENCE.”**

**BEFORE GBT**



**AFTER DISCLOSING**



**AFTER GBT**



# GERIATRICS AND GBT

## CASE 52



### CLINICIAN

Celso Da Costa  
Dental hygienist  
Switzerland

### PATIENT INFORMATION

► Age 68, male.

### BACKGROUND INFORMATION

► Good oral hygiene. No relevant habits present. Comes for a regular prophylaxis every 6 months. Patient has a healthy diet. Implant placement done 7 years ago. Has difficulty in cleaning interdental spaces.

### CLINICAL FINDINGS

► Localised periodontitis in tooth #11. Mobility grade 1. Overall gingiva looks healthy. Recession in a few teeth.

### TREATMENT

► Guided Biofilm Therapy (GBT) done every 6 months. After assessment, disclosing agent was used. Every time the patient was curious to see the amount of biofilm he had. AIRFLOW® PLUS Powder was used. Patient was very comfortable and always requested to have the same treatment. PERIOFLOW® Nozzle was used in tooth #11. PIEZON® PS and PI MAX Instruments were used to remove calculus around natural teeth and implant. Patient is very motivated and looks forward to GBT.

## PATIENT FEEDBACK

**“THANK YOU CELSO FOR MAKING ME AWARE OF MY ORAL HYGIENE AND HEALTH. I LOVE GBT!”**



**BEFORE GBT**



**AFTER DISCLOSING**



**AFTER GBT**



# GERIATRICS AND GBT

## CASE 53



### CLINICIAN

Dr Claudiu Vintila  
Dentist  
Romania

### PATIENT INFORMATION

- ▶ Age 66, male.

### BACKGROUND INFORMATION

- ▶ Implants placed in 2018. The patient has not visited the dentist since implants were initially placed. Main complaint is frequent gingival bleeding around implant region 46.

### CLINICAL FINDINGS

- ▶ The patient presented a probing depth of 6 mm with Bleeding On Probing (BOP) around the implant reg. 46, no signs of bone loss around the implant on recent X-rays, therefore diagnosis of peri-implant mucositis.

### TREATMENT

- ▶ Full Guided Biofilm Therapy (GBT) done. AIR-FLOWING® was used with AIRFLOW® PLUS Powder, both supragingivally and subgingivally up to 4mm, followed by subgingival use of PERIOFLOW®, in order to reach full depth of the PD around the implant. The PIEZON® PI Instrument was used to ensure proper debridement of implant abutment and crown, thus avoiding any risk of damaging the implant surface or the restoration finish. The patient has understood the importance of regular recall visits for biofilm management.

## PATIENT FEEDBACK

**“REALLY COMFORTABLE. I WANT TO COME BACK FOR MORE.  
NOW I UNDERSTAND THE NEED FOR FREQUENT VISITS.”**

**BEFORE GBT**



**AFTER DISCLOSING**



**AFTER GBT**



# MAINTENANCE AND GBT

## CASE 54



### CLINICIAN:

Karen Ng  
Dental hygienist  
Canada

### PATIENT INFORMATION

- ▶ Age 30, male.

### BACKGROUND INFORMATION

- ▶ Ceramic brackets placed by orthodontist 6 months prior. Uses electric toothbrush 2x/day and no interdental aids.

### CLINICAL FINDINGS

- ▶ Generalized gingival inflammation related to biofilm accumulation. Generalized moderate Bleeding On Probing (BOP)+. Subgingival calculus present.

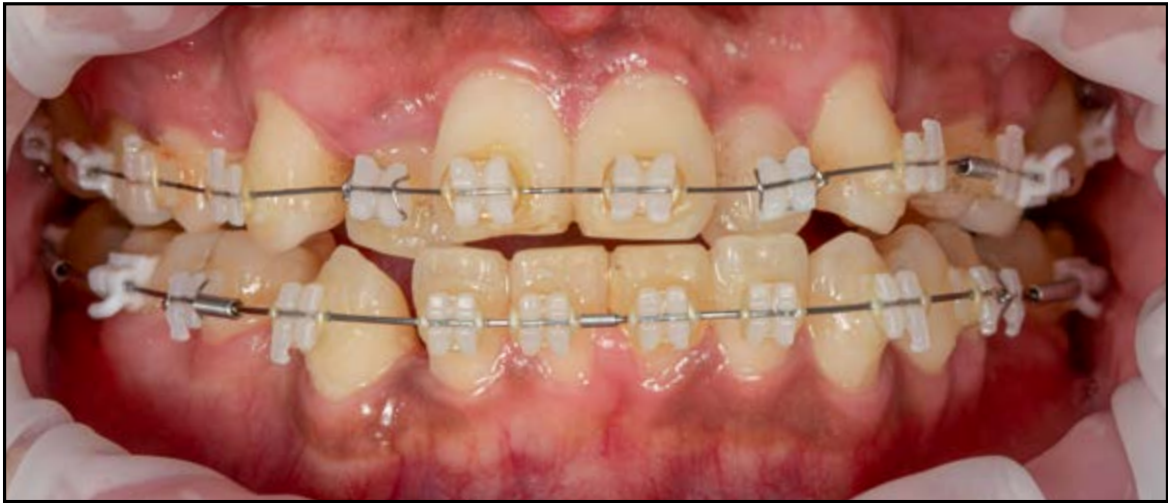
### TREATMENT

- ▶ Guided Biofilm Therapy (GBT) completed with AIRFLOW® PLUS Powder, PIEZON® PS, PSR & PSL Instruments. Instructions given for ortho tip of Waterpik along gum margins and brackets. Client motivated to maintain recare in 3-4 months.

## PATIENT FEEDBACK

**“IT’S SO HARD TO CLEAN BETWEEN MY BRACES.  
I LOVE HOW AMAZING MY TEETH FEEL AFTER EACH GBT VISIT.”**

**BEFORE GBT**



**AFTER DISCLOSING**



**AFTER GBT**



# MAINTENANCE AND GBT

## CASE 55



### CLINICIAN

Dr. Larisa Music  
Dentist  
Croatia

### PATIENT INFORMATION

► Age 22, male.

### BACKGROUND INFORMATION

► Young, systemically healthy patient reports to the university clinic because of gum bleeding. He uses an ultra-soft manual toothbrush and flosses occasionally. He is concerned about the bleeding and is motivated to improve his oral hygiene habits.

### CLINICAL FINDINGS

► The patient presents with gingival inflammation (Dg./ Generalized gingivitis), particularly around lower canines where shallow recessions are also present and interdentially in the molar area. Probing depths were within the physiological range.

### TREATMENT

► Guided Biofilm Therapy (GBT) was performed to remove the biofilm. The patient was instructed in proper oral hygiene, practising using interdental brushes and an electric toothbrush in front of the mirror. AIR-FLOWING® was then used to remove all remaining biofilm. PIEZON® PS Instrument was used only at a few sites with minimal hard deposits left, following the concept of minimal invasiveness.

## PATIENT FEEDBACK

**“THE TREATMENT WAS VERY COMFORTABLE, I LIKED THE SWEET TASTE AND THE WARM WATER. MY TEETH NOW FEEL SUPER CLEAN.”**

**BEFORE GBT**



**AFTER DISCLOSING**



**AFTER GBT**



# MAINTENANCE AND GBT

## CASE 56



**CLINICIAN**  
Dr. Lyu Da  
Dentist  
China

### PATIENT INFORMATION

- ▶ Age 36, female.

### BACKGROUND INFORMATION

- ▶ Patient has good overall oral hygiene. Well-motivated. Good diet.

### CLINICAL FINDINGS

- ▶ Bleeding On Probing (BOP) 59%, probing depths of 4-7mm. #16 lost. Periodontitis Grade II, Stage B.

### TREATMENT

- ▶ Guided Biofilm Therapy (GBT) with AIRFLOW® PLUS Powder followed by PIEZON® PS Instrument. Fluoride treatment. Patient comes every 4 months for supportive therapy.

## PATIENT FEEDBACK

**“I HAVE NEVER EXPERIENCED SUCH A PAIN-FREE DENTAL HYGIENE APPOINTMENT BEFORE. I AM ACTUALLY LOOKING FORWARD TO MY NEXT VISIT.”**



**BEFORE GBT**



**AFTER DISCLOSING**



**AFTER GBT**



**AFTER 3 YEARS**



# MAINTENANCE AND GBT

## CASE 57



### CLINICIAN

Dr. Zhang Jun  
Dentist  
China

### PATIENT INFORMATION

- ▶ Age 30, male.

### BACKGROUND INFORMATION

- ▶ Loose teeth pain in the lower anterior teeth for one month. Had a dental restoration in Nov 11, 2018. Brushes teeth twice a day, 2 minutes each time, never uses dental floss or inter-dental brushes

### CLINICAL FINDINGS

- ▶ Poor oral hygiene. Bleeding on Probing (BOP)+; Presence of a white restoration in the cervical region of 31. Swollen gums, prone to bleeding with deep pockets of approx. 5mm. X-ray shows horizontal absorption of alveolar bone in the lower anterior teeth.

### TREATMENT

- ▶ Non-surgical periodontal therapy done following the Guided Biofilm Therapy (GBT) protocol. Only used AIR-FLOWING® and PIEZON® PS instruments. Recall scheduled every 6 months.

## PATIENT FEEDBACK

**“GBT MAKES ME FEEL COMFORTABLE AND GIVES ME CONFIDENCE.  
I FEEL GOOD!”**

**BEFORE GBT**



**AFTER DISCLOSING**



**AFTER GBT**



# MAINTENANCE AND GBT

## CASE 58



### CLINICIAN

Dr. Jia Wei Liang  
Dentist  
China

### PATIENT INFORMATION

- ▶ Age 40, male.

### BACKGROUND INFORMATION

- ▶ The uncomfortable experience of dental scaling caused serious psychological issues.

### CLINICAL FINDINGS

- ▶ Poor oral hygiene and large amount of pigmentation can be seen on the tooth surface.

### TREATMENT

- ▶ Professional tooth cleaning according to the Guided Biofilm Therapy (GBT).

## PATIENT FEEDBACK

**“GBT NOT ONLY HELPS MY TEETH TO BECOME MORE BEAUTIFUL AND MORE HEALTHY, BUT ALSO HELPS ME OVERCOME MY FEAR OF DENTAL TREATMENT!  
I LOVE GBT!”**

**BEFORE GBT**



**AFTER DISCLOSING**



**AFTER GBT**



# MAINTENANCE AND GBT

## CASE 59



### CLINICIAN

Hanan Tahir Abdulla  
Hygienist  
UAE

### PATIENT INFORMATION

- ▶ Age 35, male.

### BACKGROUND INFORMATION

- ▶ The patient complains of gum bleeding and bad breath. Has poor oral hygiene due to insufficient brushing and no flossing. Patient consumes very sugary food and drinks. Patient does not have any medical issues

### CLINICAL FINDINGS

- ▶ Deep pockets, periodontitis, gum swollen and bleeding.

### TREATMENT

- ▶ Professional tooth cleaning according to the Guided Biofilm Therapy (GBT). Advised patient to come back after one month for follow up but his insurance covered every six months only.

## PATIENT FEEDBACK

**“I KEPT DELAYING MY APPOINTMENT BECAUSE I WAS AFRAID OF EXPERIENCING PAIN DURING THE TREATMENT. I HAD EXPECTED TO BE PAINFUL, I PROMISE I WILL COME MORE REGULARLY FROM NOW ON!”**

**BEFORE GBT**



**AFTER DISCLOSING**



**AFTER GBT**



# MAINTENANCE AND GBT

## CASE 60



### CLINICIAN

Dr. Guillaume Gardon-Mollard  
Periodontist  
France

### PATIENT INFORMATION

- ▶ Age 45, female.

### BACKGROUND INFORMATION

- ▶ Patient with history of incomplete periodontal treatment with laser.

### CLINICAL FINDINGS

- ▶ Bleedings gums, oral malodor, tooth mobilities, pain and functional discomfort. Patient had inflamed gums, 66% plaque index, up to 11mm periodontal pockets (mean=5.4mm), Bleeding On Probing (BOP) on 15% of the sites, tooth mobility in many teeth.

### TREATMENT

- ▶ Scaling and root planing was performed during two appointments in the same week and under a 10-day antibiotic coverage. EMS biofilm disclosure was used; supra-gingival biofilm was cleaned off using the AIRFLOW® device with AIRFLOW® PLUS Powder; sub-gingival biofilm was removed using the PERIOFLOW® handpiece; supra- and sub-gingival calculus were then removed using the PIEZON® handpiece with PIEZON® PS, PSR and PSL Instrument. A re-evaluation appointment was made at 3 months. One month later, the first prophylactic maintenance appointment was made and Guided Biofilm Therapy (GBT) performed. Patient will be monitored every 4 months with this protocol.

## PATIENT FEEDBACK

**“IT ALL WENT NICE AND EASY. I CAN FEEL THE IMPROVEMENT OF MY CONDITION IN A WAY I NEVER EXPERIENCED BEFORE. I FEEL MUCH MORE CONFIDENT IN MY PERIODONTAL TREATMENT NOW.”**



**BEFORE GBT**



**DISCLOSING AFTER 4-MONTH RECALL**



**AFTER GBT 4-MONTH RECALL**



# MAINTENANCE AND GBT

## CASE 61



### CLINICIAN

Adina Mauder  
Dental hygienist  
Germany

### PATIENT INFORMATION

- ▶ Age 36, female.

### BACKGROUND INFORMATION

- ▶ Moderate oral hygiene, last supportive periodontal therapy 3 months ago.

### CLINICAL FINDINGS

- ▶ Periodontitis, periodontal pockets 4mm - tooth 17, 27, 47, calculus++, Bleeding On Probing (BOP)+, difficulty with interdental care, improvement in compliance needed.

### TREATMENT

- ▶ Guided Biofilm Therapy (GBT) with AIRFLOW® PLUS Powder and PIEZON® PS Instrument only. Rinsing with CHX. Post GBT, short recall interval of 3 months. Better oral hygiene was seen. Bleeding On Probing (BOP)-, no periodontal pockets.

## PATIENT FEEDBACK

**“I AM HAPPY TO BE A PATIENT AT THIS DENTAL PRACTICE AND FEEL VERY PROFESSIONALLY TREATED!”**

**BEFORE GBT**



**AFTER  
DISCLOSING**



**AFTER GBT**



# MAINTENANCE AND GBT

## CASE 62



### CLINICIAN

Kristina Villmann,  
Dental hygienist  
Germany

### PATIENT INFORMATION

- ▶ Age 28, male.

### BACKGROUND INFORMATION

- ▶ Check-up with previous dentist every 6 months, No previous dental hygiene treatments. Patient noticed bleeding gums and bad taste. Home oral hygiene with manual toothbrush, no interdental.

### CLINICAL FINDINGS

- ▶ Retainer at the front of the jaw and lower jaw. Marginal gingiva 13-23 slightly swollen. Gum recession in 31. Calculus in the interdental spaces in the lateral area and in the front of the lower jaw.

### TREATMENT

- ▶ Assessment of the periodontium. Biofilm disclosed and patient well motivated. Subsequent biofilm management with the AIRFLOW® MAX handpiece and the AIRFLOW® PLUS Powder and removal of all mineralized deposits with PIEZON® NO PAIN and the PIEZON® PS Instrument. After checking, recall interval of 6 months was scheduled with the patient.

## PATIENT FEEDBACK

**“IT ALL WENT NICE AND EASY. I CAN FEEL THE IMPROVEMENT OF MY CONDITION IN A WAY I NEVER EXPERIENCED BEFORE. I FEEL MUCH MORE CONFIDENT IN MY PERIODONTAL TREATMENT NOW.”**

**BEFORE GBT**



**AFTER DISCLOSING**



**AFTER GBT**



# MAINTENANCE AND GBT

## CASE 63



### CLINICIAN

Nina von de Fenn  
Dental hygienist  
Germany

### PATIENT INFORMATION

- ▶ Age 19, male.

### BACKGROUND INFORMATION

- ▶ No conspicuous medical history, has not been for prophylaxis and dental treatment for more than 5 years. Patient is disturbed by his visible discoloration on the smooth surfaces of the upper incisors, would like to have white teeth again.

### CLINICAL FINDINGS

- ▶ Minimally deepened periodontal pockets in the posterior region due to insufficient daily interdental care, discoloration on the vestibular surfaces of the maxillary anterior teeth (black stain), calculus deposits visible especially in the mandibular anterior from lingual as well as from vestibular in the interdental spaces.

### TREATMENT

- ▶ Professional tooth cleaning according to the Guided Biofilm Therapy (GBT). Before starting the treatment, the patient did not want to undergo the treatment and was worried that it would be painful as his teeth were very sensitive. After explaining the brushing technique and further motivating him to use the interdental space care daily, intensive cleaning with AIRFLOW® MAX and AIRFLOW® PLUS Powder, scaling with PIEZON® PS Instrument and final fluoridation was performed.

## PATIENT FEEDBACK

**“I AM ALREADY LOOKING FORWARD TO MY NEXT APPOINTMENT.”**

**BEFORE GBT**



**AFTER DISCLOSING**



**AFTER GBT**



# MAINTENANCE AND GBT

## CASE 64



### CLINICIAN

Sarah Heuving  
Dental hygienist  
Germany

### PATIENT INFORMATION

- ▶ Age 24, female.

### BACKGROUND INFORMATION

- ▶ Healthy lifestyle, athlete, smokes e-cigarette.

### CLINICAL FINDINGS

- ▶ Probing depth inconspicuous, usually at 2-3mm, bleeding during probing. Inconspicuous, discolored teeth from smoking.

### TREATMENT

- ▶ When dietary habits are discussed, the patient eats a balanced and healthy diet. Smoking has been switched from regular cigarettes to e-cigarettes. The goal should be to quit smoking. Professional teeth cleaning according to the Guided Biofilm Therapy (GBT). Apply the AIRFLOW® MAX with AIRFLOW® PLUS Powder. Calculus removal with the PIEZON® PS Instrument. Final fluoridation and feedback meeting.

## PATIENT FEEDBACK

**“I FEEL GOOD ABOUT GBT AND WILL TELL MY FRIENDS ABOUT IT!”**



**BEFORE GBT**



**AFTER DISCLOSING**



**AFTER GBT**



# MAINTENANCE AND GBT

## CASE 65



### CLINICIAN

Sarah Heuving  
Dental hygienist  
Germany

### PATIENT INFORMATION

- ▶ Age 23, male.

### BACKGROUND INFORMATION

- ▶ Young, healthy man. Works in agriculture, has a lot of stress.

### CLINICAL FINDINGS

- ▶ Probing depths at 3-5mm, Bleeding On Probing (BOP) index in the posterior region increased despite smoking, severe smoking discoloration, calculus in the mandibular anterior as well as the maxillary molars. The last time teeth were cleaned was many years ago.

### TREATMENT

- ▶ Detailed oral hygiene instruction with a focus on performing oral hygiene at home twice a day. Relationship between oral health and the whole body. Professional teeth cleaning according to the Guided Biofilm Therapy (GBT). Application of the AIRFLOW® MAX with AIRFLOW® PLUS Powder. Calculus removal with PIEZON® PS Instrument. A final fluoride treatment and feedback meeting with a new recall date.

## PATIENT FEEDBACK

**“I REALLY ENJOYED THE GBT TREATMENT, I AM SURPRISED  
HOW PLEASANT A TOOTH CLEANING CAN BE!”**

**BEFORE GBT**



**AFTER DISCLOSING**



**AFTER GBT**



# MAINTENANCE AND GBT

## CASE 66



### CLINICIAN

Dr. Bashar Hameed Alhadithy  
Dentist  
Iraq

### PATIENT INFORMATION

► Age 35, male.

### BACKGROUND INFORMATION

► Complaining of heavy calculus and stains. In addition, there is bleeding during tooth brushing. Also has halitosis.

### CLINICAL FINDINGS

► Poor oral hygiene, presence of heavy calculus and stains. Bleeding On Probing (BOP)+ generalised probing depths of 4mm.

### TREATMENT

► 1<sup>st</sup> time Guided Biofilm Therapy (GBT). Patient was anaesthetized with infiltration as requested for his comfort. Non-surgical initial periodontal therapy done with Guided Biofilm Therapy (GBT) to achieve biofilm and calculus removal. Only half the mouth was disclosed. The procedure was repeated after 2 weeks. PIEZON® PS Instrument was used after PERIOFLOW®. Inflammation was totally under control after 12 weeks. Patient was put on Supportive Periodontal Therapy (SPT) every 4 months.

## PATIENT FEEDBACK

**“I SEE WHAT DENTISTS SAY IN THEIR ADS IS TRUE. I NEVER FELT ANYTHING DURING THE DENTAL CLEANING. MY TEETH ARE BREATHING NOW. I DID NOT HEAR ANY ANNOYING SOUND LIKE THE LAST TIME I DID CLEANING. I WISH THE CLEANING SESSION WAS LONGER. WILL TELL ALL MY ACQUAINTANCES TO TRY AND GO FOR A GBT.”**

**BEFORE GBT**



**AFTER DISCLOSING**



**AFTER GBT**



# MAINTENANCE AND GBT

## CASE 67



### CLINICIAN

Irsida Flamuraj  
Dental Hygienist  
Italy

### PATIENT INFORMATION

- ▶ Age 44, female.

### BACKGROUND INFORMATION

- ▶ Good eating habits. Biofilm was never disclosed to this patient. Uses only manual toothbrush. Does not use interdental care. Non-smoker, no health problems.

### CLINICAL FINDINGS

- ▶ Bleeding On Probing (BOP)+. Lots of biofilm on disclosing. Presence of calculus.

### TREATMENT

- ▶ Guided Biofilm Therapy (GBT) was performed with emphasis on each step. Initial therapy comprised 2 appointments with 1 week interval. Next recall is in 3 months.

## PATIENT FEEDBACK

“I FEEL SO CLEAN, WONDERFUL EXPERIENCE! LOVE GBT.”

**BEFORE GBT**



**AFTER DISCLOSING**



**AFTER GBT**



# MAINTENANCE AND GBT

## CASE 68



### CLINICIAN

Seo Gahye  
Dental hygienist  
South Korea

### PATIENT INFORMATION

- ▶ Age 59, female.

### BACKGROUND INFORMATION

- ▶ The patient visits the dentist because a previously treated partial prosthesis has fallen out. Mentions a tooth that has suddenly become black and asks if it can be removed. Oral hygiene: not good.

### CLINICAL FINDINGS

- ▶ Clinical examination reveals generalized gingival bacterial biofilm and calculus. Current oral hygiene supplies include a toothbrush and floss.

### TREATMENT

- ▶ 3 sessions of Guided Biofilm Therapy (GBT) were recommended. After non-surgical treatment, stains were removed, interdental tools were given. Recall was scheduled for every 3 months.

## PATIENT FEEDBACK

**“THIS WAS MY FIRST TIME GETTING GBT DONE AND I WAS SURPRISED AT HOW EASILY THE STAINS CAME OFF WITHOUT ANY DISCOMFORT. I’LL HAVE TO BRUSH BETTER TO AVOID STAINING OR CALCULUS, AND I’D DEFINITELY DO IT AGAIN IF THE STAINS CAME BACK.”**



## BEFORE GBT



## AFTER GBT



# MAINTENANCE AND GBT

## CASE 69



### CLINICIAN

Sunmi Park  
Dental hygienist  
Korea

### PATIENT INFORMATION

- ▶ Age 40, male.

### BACKGROUND INFORMATION

- ▶ There was a lot of interest in restoring teeth for function (dental implants), but there was no awareness of the need for calculus removal.

### CLINICAL FINDINGS

- ▶ Moderate periodontal disease in an inflammatory state with generalized bleeding and bone loss. #16 - extraction scheduled, teeth missing - 17, 26, 27.

### TREATMENT

- ▶ Starting with oral health education on the process of periodontal disease, personal oral hygiene management was customized for the care of natural teeth and implanted teeth. Before the implant prosthesis was fitted, four sessions of non-surgical periodontal treatments were performed, and intensive education on brushing and interdental toothbrushing was provided at each session.

## PATIENT FEEDBACK

**“I FELT THAT MY TEETH ARE REALLY CLEAN AND NOT PAINFUL.  
WHEN I SMILE, THE GUM LINE LOOKS BLACK, SO I WAS WORRIED ABOUT IT,  
BUT IT’S GREAT TO SEE THE IMPROVEMENT.”**

**BEFORE GBT**



**AFTER DISCLOSING**



**AFTER GBT**



# MAINTENANCE AND GBT

## CASE 70



### CLINICIAN

Dr. Claudia Elizalde Molina  
Periodontist  
Mexico

### PATIENT INFORMATION

- ▶ Age 36, male.

### BACKGROUND INFORMATION

- ▶ History of orthodontics in the past, more than 5 years without going to dentist, aggressive tooth cleaning. Arrived at the clinic for tooth cleaning. Presenting periodontitis Stage 1 Grade A.

### CLINICAL FINDINGS

- ▶ Bleeding On Probing (BOP)+, periodontal pockets 4mm, calculus and biofilm. Clinical Attachment Loss (CAL) present.

### TREATMENT

- ▶ Biofilm disclosure motivated the patient to understand the importance of the biofilm and good oral hygiene necessary for a healthy mouth. Scaling with AIRFLOW® PLUS Powder was used first using Guided Biofilm Therapy (GBT) protocol and then we used the PIEZON® PS Instrument to remove the calculus. The patient recalled every 6 months.

## PATIENT FEEDBACK

**“I AM VERY HAPPY WITH THE RESULTS & THE DIFFERENCE OF COLOR OF MY GUMS. THIS NEW WAY OF TREATING PATIENTS IS COOL. I SAW THE DIFFERENCE COMPARING THE TRADITIONAL TOOTH CLEANING.”**

**BEFORE GBT**



**AFTER DISCLOSING**



**AFTER GBT**



# MAINTENANCE AND GBT

## CASE 71



### CLINICIAN

Marleen Goossen  
Dental hygienist  
Netherlands

### PATIENT INFORMATION

- ▶ Age 53, male.

### BACKGROUND INFORMATION

- ▶ Does not smoke. Normal diet, oral hygiene status is poor, level of motivation low, uses a manual toothbrush twice a day, no interdental cleaning, healthy.

### CLINICAL FINDINGS

- ▶ Lots of calculus, bleeding gums in the interdental areas. Periodontal Probing Depths (PPD) of 4 to 5 mm. Long time since last seen for prophylaxis treatment.

### TREATMENT

- ▶ Assessment followed by disclosing. Instruction on oral hygiene and electric toothbrush. AIRFLOW® MAX supra- and subgingival to 4 mm sub. PIEZON® with PS Instrument removing supra- and subgingival calculus. Check remaining biofilm, calculus and caries. Apply fluoride. New appointment made after 3 months.

## PATIENT FEEDBACK

**“NICE TO HAVE THIS TREATMENT IN A PAINLESS AND COMFORTABLE WAY. BECAUSE OF THE DISCLOSING AND INSTRUCTION, I’M MOTIVATED AGAIN TO TAKE BETTER CARE OF MYSELF.”**

**BEFORE GBT**



**AFTER DISCLOSING**



**AFTER GBT**



# MAINTENANCE AND GBT

## CASE 72



### CLINICIAN

Aleksandra Michalska  
Dental hygienist  
Poland

### PATIENT INFORMATION

- ▶ Age 38, female.

### BACKGROUND INFORMATION

- ▶ Without general diseases. Uses only electric toothbrush. First cleaning in dental office ever.

### CLINICAL FINDINGS

- ▶ Approximal Plaque Index (API) 45%, bleeding index 82%. Probing depths: 4-5mm. Generalized periodontal disease with recession, a lot of subgingival and supragingival calculus.

### TREATMENT

- ▶ Guided Biofilm Therapy (GBT) performed. Assessment of the condition of gums, Then DISCLOSE the biofilm using biofilm discloser. Motivation by showing the biofilm and calculus and the patient's hygiene was discussed. Recommended changing the toothbrush for manual soft toothbrush and interdental brushing. Biofilm removed with AIRFLOW® PLUS Powder followed by PIEZON® PS Instrument to remove calculus. After check, patient scheduled for recall and PERIOFLOW® treatment after 4 weeks. Recommended regular visits every 3-4 months.

## PATIENT FEEDBACK

**“IT WAS MY FIRST CONTACT WITH CLEANING TEETH. I’M VERY STRESSED BUT AFTER MY VISIT I’M PLEASANTLY SURPRISED. THERE WAS NO DISCOMFORT. SOMETHING AMAZING!”**



**BEFORE GBT**



**AFTER DISCLOSING**



**AFTER GBT**



# MAINTENANCE AND GBT

## CASE 73



### CLINICIAN

Dr. Dorin Gheorghe  
Periodontist  
Romania

### PATIENT INFORMATION

- ▶ Age 25, male.

### BACKGROUND INFORMATION

- ▶ The patient's chief complaint was the change in tooth position (upper central incisors) and whether this issue could be addressed with orthodontic treatment. Heavy smoker.

### CLINICAL FINDINGS

- ▶ Poor oral hygiene was observed, with massive biofilm deposits. Severe Bleeding On Probing (BOP)+, significant pus deposits with deep periodontal pockets (8-9mm depth). Shallower periodontal pockets (4-6mm) were found in other probing sites. The patient was diagnosed with generalized periodontitis, stage 3, grade C.

### TREATMENT

- ▶ 1<sup>ST</sup> visit Guided Biofilm Therapy (GBT) performed with a gentle use of AIRFLOW<sup>®</sup> PLUS Powder. At the second visit, an improvement of oral hygiene was observed, yet the disclosure of biofilm with EMS Biofilm Discloser showed that there was still progress to be made. After patient re-motivation, supragingival AIRFLOW<sup>®</sup> with PLUS Powder was performed and PIEZON<sup>®</sup> PS Instrument was used for subgingival and supragingival removal of remnant calculus deposits.

## PATIENT FEEDBACK

**“GBT MADE ME AWARE THAT I HAD A HUGE PROBLEM WITH MY ORAL HYGIENE, BUT ALSO HELPED ME TO GAIN VISIBLE RESULTS. THIS GAVE ME GOOD MOTIVATION FOR IMPROVING MY ORAL HYGIENE.”**

**BEFORE GBT**



**AFTER DISCLOSING**



**6-MONTH RECALL AFTER GBT**



# MAINTENANCE AND GBT

## CASE 74



### CLINICIAN

Maria Melnychuk  
Periodontist  
Russia

### PATIENT INFORMATION

- ▶ Age 30, female.

### BACKGROUND INFORMATION

- ▶ No bad habits. Patient complains of: bleeding gums, bad breath, slight mobility of certain groups of teeth.

### CLINICAL FINDINGS

- ▶ Large number of biofilm and calculus present. Presence of inflammation, swollen and bleeding gums. Deep periodontal pockets more than 7-8 mm. Home professional hygiene 2 times a day, using a toothbrush + toothpaste. Diagnosis: chronic periodontitis of moderate severity.

### TREATMENT

- ▶ Professional oral hygiene was carried out according to the Guided Biofilm Therapy (GBT). 1 visit: rinsing the mouth for 1 minute with BacterX. Assessment, diagnosis, indication of biofilm (Discloser EMS), motivation for more thorough home hygiene with the use of additional hygiene products. 2nd visit: rinsing the mouth for 1 minute (BacterX). Evaluation, diagnosis, indication (discloser), motivation. With the help of AIRFLOW® PLUS Powder, soft biofilm was removed. With the help of PERIOFLOW®, treatment of deep periodontal pockets. Removal of residual calculus with PIEZON® PS Instrument.

## PATIENT FEEDBACK

“WOW , I ENJOYED THE TREATMENT!”

**BEFORE GBT**



**AFTER DISCLOSING**



**AFTER GBT**



# MAINTENANCE AND GBT

## CASE 75



### CLINICIAN

Tatyana Bolsherotova  
Dentist  
Russia

### PATIENT INFORMATION

- ▶ Age 32, female.

### BACKGROUND INFORMATION

- ▶ The patient came for the first time for GBT. Professional hygiene was carried out more than 2 years ago.

### CLINICAL FINDINGS

- ▶ Large amounts of biofilm and calculus present. Complains of bleeding gums. There are generalized periodontal pockets up to 5 mm. From the anamnesis, patient has dentophobia.

### TREATMENT

- ▶ Biofilm was disclosed. Recommendations on brushing the teeth. Removal of biofilm by AIR-FLOWING® with AIRFLOW® PLUS Powder and PIEZON® PS Instrument to remove calculus. Before patient left, fluoride was applied.

## PATIENT FEEDBACK

**“I USED TO HAVE THE PROCEDURE ONLY WITH ANESTHESIA.  
I DIDN'T HAVE ANESTHESIA TODAY, BUT IT DIDN'T HURT AT ALL!”**

**BEFORE GBT**



**AFTER DISCLOSING**



**AFTER GBT**



# MAINTENANCE AND GBT

## CASE 76



### CLINICIAN

Faizah Matar Alenazi  
Dental hygienist  
Saudi Arabia

### PATIENT INFORMATION

► Age 33, male.

### BACKGROUND INFORMATION

► The patient is on a low-sugar diet, brushes his teeth once a day using a small toothbrush, does not use any interdental aids or tongue scraper, he is a smoker and has poor oral hygiene. Improper and inadequate oral home care, and the last time he visited a dental clinic was in 2020.

### CLINICAL FINDINGS

► Pseudo pockets present all less than 5mm, Bleeding On Probing (BOP)+ in almost all gingival areas, supragingival, subgingival and interdental calculus present. Stains and visible biofilm present.

### TREATMENT

► Guided Biofilm Therapy (GBT) completed with emphasis on disclosing agent and oral hygiene instructions (soft toothbrush, interdental brush and tongue scraper). AIR-FLOWING® with AIRFLOW® PLUS Powder to remove the biofilm and stains. PIEZON® PS Instrument to remove supragingival, subgingival and interdental calculus.

## PATIENT FEEDBACK

**“TIME PASSED AND I DIDN’T FEEL IT, AND I WAS HAPPY,  
I DIDN’T FEEL ANY PAIN AND I FELT COMFORTABLE.”**



**BEFORE GBT**



**AFTER DISCLOSING**



**AFTER GBT**



# MAINTENANCE AND GBT

## CASE 77



### CLINICIAN

Silvia Kokindová  
Dental hygienist  
Slovakia

### PATIENT INFORMATION

- ▶ Age 34, male.

### BACKGROUND INFORMATION

- ▶ Patient visited dental hygienist once a year, irregular interdental brush use.

### CLINICAL FINDINGS

- ▶ Residues of biofilm present around the gum line and proximal spaces of molars. Calculus and pigments present on front teeth.

### TREATMENT

- ▶ Guided Biofilm Therapy (GBT) done. To remove biofilm, AIRFLOW® PLUS Powder was used. Calculus was removed with PIEZON® PS Instrument. The rest of the calculus in interdental spaces was cleaned. Patient scheduled for a recall every 6 months.

## PATIENT FEEDBACK

**“I THINK, I SHOULD VISIT YOU MORE OFTEN.  
THE FEELING OF COMPLETELY CLEANED TEETH IS CONTAGIOUS.”**

**BEFORE GBT**



**AFTER DISCLOSING**



**AFTER GBT**



# MAINTENANCE AND GBT

## CASE 78



### CLINICIAN

Silvia Kokindová  
Dental hygienist  
Slovakia

### PATIENT INFORMATION

- ▶ Age 21, female.

### BACKGROUND INFORMATION

- ▶ First dental hygiene, sent by dentist.

### CLINICAL FINDINGS

- ▶ Generalized gingivitis, red swollen gums, spontaneous bleeding during home cleaning.

### TREATMENT

- ▶ The most important part of treatment was devoted to motivation and training of brushing with disclosing dental biofilm. Biofilm was removed with AIRFLOW® PLUS Powder, and calculus was removed using the PIEZON® PI Instrument. Next check-up was scheduled after 3 weeks. The gums healed beautifully.

## PATIENT FEEDBACK

**“I COULDN'T BELIEVE IT, NO BLEEDING DURING DENTAL HYGIENE AND MY HOME CLEANING. I ALWAYS LOOK FORWARD TO COMING TO THE DENTAL OFFICE!”**

**BEFORE GBT**



**AFTER DISCLOSING**



**AFTER GBT**



# MAINTENANCE AND GBT

## CASE 79



### CLINICIAN

Eliana Ottaviano  
Dental hygienist  
Spain

### PATIENT INFORMATION

- ▶ Age 48, male.

### BACKGROUND INFORMATION

- ▶ Hypertensive, occasional smoker. The patient did not have a dentist appointment for 7 years due to fear and economic concerns. Complains of bleeding gums.

### CLINICAL FINDINGS

- ▶ Before Guided Biofilm Therapy (GBT) treatment, the patient had “stage 4 grade B” periodontal disease with Bleeding On Probing (BOP)+ 70% and halitosis. Within 3 months after the GBT treatment, the patient resolved the problems of poor hygiene, improving his periodontal health status with Bleeding On Probing (BOP)+ at 8% .

### TREATMENT

- ▶ Guided Biofilm Therapy (GBT) was started with a thorough periodontal charting. This process indicates the frequency for the patient’s GBT maintenance treatment, which in this case occurred every 3 months. Use of AIRFLOW® PLUS Powder to remove biofilm and PIEZON® PS, PSR & PSL Instruments used for calculus removal.

## PATIENT FEEDBACK

**“I HAVE CONFIDENCE IN THE TREATMENT, AND GAINED A LOT OF CONFIDENCE IN MYSELF!”**

**BEFORE GBT**



**AFTER DISCLOSING**



**3-MONTH RECALL AFTER GBT**



# MAINTENANCE AND GBT

## CASE 80



### CLINICIAN

María Pérez Perrino  
Dental hygienist  
Spain

### PATIENT INFORMATION

- ▶ Age 26, male.

### BACKGROUND INFORMATION

- ▶ The patient is a young individual with healthy lifestyle habits, he is an athlete and non-smoker. However, he has poor oral hygiene habits. Diet: healthy and balanced diet.

### CLINICAL FINDINGS

- ▶ He brushes his teeth three times a day. Average level of motivation of the patient. By demonstrating the etiology of biofilm formation and explaining the progression of biofilm development, coupled with visual representations of the conditions in his mouth, such as tooth recession and overall inflammation, the patient's motivation increased.

### TREATMENT

- ▶ The patient is being treated following the Guided Biofilm Therapy (GBT).

## PATIENT FEEDBACK

**“THE TREATMENT PROVIDED WAS EXCEPTIONAL.  
I AM EXTREMELY SATISFIED WITH THE TREATMENT I RECEIVED!”**



**BEFORE GBT**



**AFTER DISCLOSING**



**AFTER GBT**



# MAINTENANCE AND GBT

## CASE 81



### CLINICIAN

Dr. Cem Taşkın  
Periodontist  
Turkey

### PATIENT INFORMATION

- ▶ Age 28, female.

### BACKGROUND INFORMATION

- ▶ Young patient, no bad habits with good general health. She brushes her teeth twice a day with a manual toothbrush. She complains of swelling and bleeding between her teeth.

### CLINICAL FINDINGS

- ▶ There is calculus and pseudo periodontal pocket. Presence of gingival inflammation and Bleeding On Probing (BOP)+.

### TREATMENT

- ▶ Used biofilm discloser for showing biofilm. Patient motivated for electric toothbrush and dental floss. Performed Guided Biofilm Therapy (GBT) with AIRFLOW® MAX with AIRFLOW® PLUS Powder for removing biofilm. Supragingival calculus removed using PIEZON® PS Instrument.

## PATIENT FEEDBACK

“MY TREATMENT PROCESS WAS COMFORTABLE. I WILL BE BACK FOR RECALL.”

**BEFORE GBT**



**AFTER DISCLOSING**



**AFTER GBT**



# MAINTENANCE AND GBT

## CASE 82



### CLINICIAN

Dr. Nejla Ertekin  
Dentist  
Turkey

### PATIENT INFORMATION

► Age 48, male.

### BACKGROUND INFORMATION

► Non-smoker, overweight, no systemic disease. Motivated for oral hygiene, consuming a lot of bread, sleep apnea.

### CLINICAL FINDINGS

► Gingivitis, Bleeding On Probing (BOP)+ in the lower incisor area. Halitosis was present as well.

### TREATMENT

► After disclosing the biofilm, patient was informed how to implement improved oral hygiene. AIRFLOW® MAX Handpiece and AIRFLOW® PLUS Powder were used to clean the biofilm. Remaining calculus was cleaned with PIEZON® PS Instrument.

## PATIENT FEEDBACK

**“IT WAS THE BEST CLEANING EXPERIENCE I EVER HAD. I HAD ZERO DISCOMFORT AND NO PAIN. I WILL LOVE TO COME TO MY NEXT HYGIENE APPOINTMENT.”**

**BEFORE GBT**



**AFTER DISCLOSING**



**AFTER GBT**



# MAINTENANCE AND GBT

## CASE 83



### CLINICIAN

Dr. Ahmed Yassin  
Dentist  
UAE

### PATIENT INFORMATION

- ▶ Age 29, male.

### BACKGROUND INFORMATION

- ▶ Poor oral hygiene, patient had bad experience in the past with manual scalers, sensitive & fear to brush.

### CLINICAL FINDINGS

- ▶ Generalized Bleeding On Probing (BOP)+, gingivitis caused by oral biofilm, presence of subgingival calculus, pockets under 4mm.

### TREATMENT

- ▶ Guided Biofilm Therapy (GBT) done with AIRFLOW® PLUS Powder and PIEZON® PS Instrument to remove all subgingival and supragingival calculus in 2 visits, then recall after one week for follow up, oral hygiene instructions. Patient education and motivation.

## PATIENT FEEDBACK

**“I’M VERY HAPPY, IT WAS ZERO PAIN. NOW I CAN BRUSH MY TEETH.  
NO MORE BLEEDING.”**

**BEFORE GBT**



**AFTER DISCLOSING**



**AFTER GBT**



# MAINTENANCE AND GBT

## CASE 84



### CLINICIAN

Dr. Ahmed Yassin  
Dentist  
UAE

### PATIENT INFORMATION

- ▶ Age 21, female.

### BACKGROUND INFORMATION

- ▶ Invisible orthodontics on last stage of aligners. No relevant habits.

### CLINICAL FINDINGS

- ▶ No Bleeding On Probing (BOP)+, extrinsic stains caused by coffee consumption, brushes 3 times a day and flosses twice. Good oral hygiene.

### TREATMENT

- ▶ Guided Biofilm Therapy (GBT) done with AIRFLOW® PLUS Powder in one appointment. Recall scheduled after one week for follow up, oral hygiene instructions. Patient education and motivation.

## PATIENT FEEDBACK

**“I THINK YOU DID WHITENING IT WAS SO EASY AND NO MORE STAINS!  
I WILL TELL ALL ABOUT GBT MAGIC!”**



**BEFORE GBT**



**AFTER DISCLOSING**



**AFTER GBT**



# MAINTENANCE AND GBT

## CASE 85



### CLINICIAN

Asso. Prof. Ioannis Karoussis  
Periodontist  
Greece

### PATIENT INFORMATION

- ▶ Age 50, female.

### BACKGROUND INFORMATION

- ▶ Smoker (appr. 10 cigarettes per day for 30 years). On the baseline examination, the initial findings were that the patient was a heavy smoker and performed no effective oral hygiene.

### CLINICAL FINDINGS

- ▶ The initial diagnosis was severe periodontitis (Stage III, Grade C generalized, according to the new classification), as well as peri-implantitis. Substantial bone loss and deep pockets were found, with high percentages of biofilm and bleeding scores.

### TREATMENT

- ▶ Guided Biofilm Therapy (GBT) protocol was proven to be very crucial for the motivation of the patient and the removal of large deposits of biofilms in a more painless manner from the very first appointment. Thorough subgingival instrumentation on all root surfaces was performed with the PIEZON® PS Instrument, which is the most atraumatic way to remove biofilm deposits and calculus, while air-abrasive decontamination with erythritol powder (AIRFLOW® and PERIOFLOW®) and debridement with the PIEZON® PI Instrument of the implant surfaces followed.

## PATIENT FEEDBACK

**“GBT HAS RESTORED MY CONFIDENCE IN MY DENTIST.”**

**BEFORE GBT**



**AFTER DISCLOSING**



**AFTER GBT**



# MAINTENANCE AND GBT

## CASE 86



### CLINICIAN

Dr. Manuela Netto  
Periodontist  
Brazil

### PATIENT INFORMATION

► Age 42, male.

### BACKGROUND INFORMATION

► Acidic diet, rich in citric fruits and wine; traumatic brushing with medium-bristles toothbrush and whitening abrasive toothpaste; patient complained about his yellowish teeth color and wasn't aware of the biocorrosion and amelogenesis imperfecta.

### CLINICAL FINDINGS

► Gingivitis, with 38% of Bleeding On Probing (BOP)+ and 30% of plaque index, being mostly localized on the buccal surfaces of the teeth, high periodontal risk because of diabetes and bleeding.

### TREATMENT

► Guided Biofilm Therapy (GBT) with oral hygiene orientation of tooth brushing technique, recommendation of toothbrush with ultrasoft thin tapered bristles and tooth paste with stannous fluoride was done. Instruction about diet, restoration of the non-carious lesions with resin, fluoride varnish in cervical region of all teeth, buccally and lingually, 3 sessions of associative desensitizing protocol prior to bleaching. Periodontal preventative maintenance recommended every 3 months, with 2 appointments here and 2 in Europe every year.

## PATIENT FEEDBACK

**"I DIDN'T KNOW THAT MY BRUSHING WAS THAT BAD UNTIL SEEING IT AND FEELING THE BIOFILM WITH MY TONGUE MAKES IT EASIER TO CHECK MY ORAL HYGIENE AT HOME."**

**BEFORE GBT**



**AFTER DISCLOSING**



**AFTER GBT**



# MAINTENANCE AND GBT

## CASE 87



### CLINICIAN

Rusu Marina  
Dental hygienist  
Italy

### PATIENT INFORMATION

► Age 32, male.

### BACKGROUND INFORMATION

► Doesn't know how to use dental floss. The patient had not realized the situation. Bad previous dental experience.

### CLINICAL FINDINGS

► Generalized gingivitis. Bleeding On Probing (BOP)+ 89%. Plaque index 74%. Presence of interdental calculus.

### TREATMENT

► After disclosing, patient was shown biofilm with a mirror and intraoral camera. Patient was motivated. AIRFLOW® PLUS Powder was used to clean biofilm and smoke stains. PIEZON® PS Instrument was used to remove calculus. Two months later the patient shows much better oral hygiene and the gums look good.

## PATIENT FEEDBACK

**“THE GBT IS REALLY NO PAIN! IN MY LIFE I NEVER THOUGHT MY TEETH COULD BE THAT CLEAN AND WHITE. THANK YOU VERY MUCH. IT WAS A PLEASURE FOR ME.”**

**BEFORE GBT**



**AFTER DISCLOSING**



**AFTER GBT**



# MEDICALLY COMPROMISED

## CASE 88



### CLINICIAN

Hanan Tahir Abdulla  
Dental hygienist  
UAE

### PATIENT INFORMATION

- ▶ Age 40, male.

### BACKGROUND INFORMATION

- ▶ The patient has diabetes and does not take good care of his teeth. He doesn't visit the dentist regularly, poor oral hygiene, brushes twice a day and no floss. Consumes mainly traditional foods that are rich in fats, carbs and proteins, while reducing the intake of sugary food.

### CLINICAL FINDINGS

- ▶ Deep pocket > 4mm. Generalized chronic periodontal disease.

### TREATMENT

- ▶ Guided Biofilm Therapy (GBT) every three months.

## PATIENT FEEDBACK

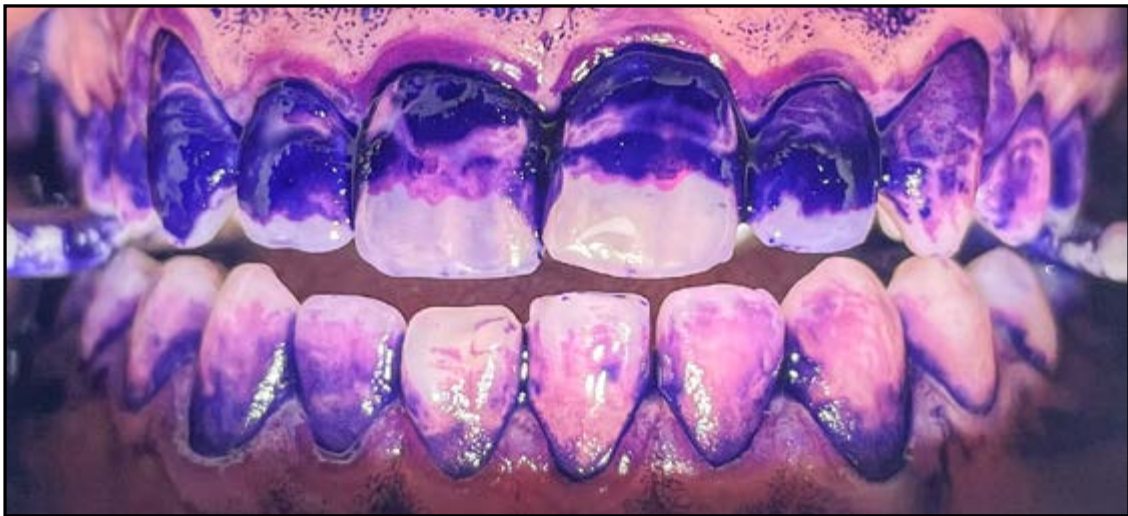
**"I DIDN'T REALIZE HOW IMPORTANT ORAL HEALTH WAS FOR MY OVERALL WELL-BEING. BUT AFTER GETTING GBT, I'M REALLY HAPPY WITH THE RESULTS. I'VE LEARNED THE VALUE OF TAKING CARE OF MY ORAL HEALTH AND I'M COMMITTED TO DOING SO. I'LL EVEN MAKE SURE TO COME IN FOR REGULAR VISITS."**



**BEFORE GBT**



**AFTER DISCLOSING**



**AFTER GBT**



# MEDICALLY COMPROMISED

## CASE 89



### CLINICIAN

Hanan Tahir Abdulla  
Dental hygienist  
UAE

### PATIENT INFORMATION

- ▶ Age 13, male.

### BACKGROUND INFORMATION

- ▶ Congenital heart disease. Patient has poor oral hygiene, brushes twice a week. Patient came a village area where the awareness of oral hygiene is poor.

### CLINICAL FINDINGS

- ▶ Acute gingivitis, biofilm induced.

### TREATMENT

- ▶ Guided Biofilm Therapy (GBT) every six months.

## PATIENT FEEDBACK

**“I’M SO GLAD THAT MY CHILD IS TAKING GOOD CARE OF HIS TEETH NOW. I LEARNED HOW IMPORTANT ORAL HYGIENE IS. WE ARE REALLY HAPPY.”**

**BEFORE GBT**



**AFTER DISCLOSING**



**AFTER GBT**



# MEDICALLY COMPROMISED

## CASE 90



### CLINICIAN

Dr. Paula Tegel & Johanna Ukonaho  
Dentist & Dental nurse  
Finland

### PATIENT INFORMATION

- ▶ Age 61, female.

### BACKGROUND INFORMATION

- ▶ Patient as diabetes mellitus type 2. The patient has been on regular periodontal treatment for three years. Several teeth have been extracted due to periodontitis. Prosthetic treatment has been done recently with a removable partial denture.

### CLINICAL FINDINGS

- ▶ The current periodontological status: altogether four 4 to 6 mm deep periodontal pockets, 28% Bleeding On Probing (BOP)+. Three molars with grade II to III furcation. Heavy supra- and subgingival biofilm formation. Presence of subgingival calculus. In addition, lots of discoloration around the teeth due to poor oral health and the use of chewing tobacco.

### TREATMENT

- ▶ Guided Biofilm Therapy (GBT) was started with biofilm disclosing using Rondells Blue. Biofilm no older than three days is indicated by a red color and biofilm older than three days is indicated by a blue color. GBT was done with AIRFLOW® PLUS Powder and PIEZON® PS Instrument. The patient was shown images of biofilm control after treatment and educated about better oral health.

## PATIENT FEEDBACK

“LOOKS GOOD! THANK YOU!”

**BEFORE GBT**



**AFTER DISCLOSING**



**AFTER GBT**



# MEDICALLY COMPROMISED

## CASE 91



### CLINICIAN

Patricia Spazierer  
Dental hygienist  
Germany

### PATIENT INFORMATION

► Age 63, female.

### BACKGROUND INFORMATION

► Non-smoker for 2 years. Allergies: bees, wasps. Surviving cancer: thyroid gland. Medication: Euthyrox 125.

### CLINICAL FINDINGS

► Mild gingival and interdental biofilm. The patient had periodontal treatment with a Winkelhoff cocktail about 5 years ago, but was not put on any supportive periodontal therapy. Dominant cracks seen on first incisors, crown and bridge restorations. Presence of multiple furcations and partial recessions.

### TREATMENT

► According to the Guided Biofilm Therapy (GBT) protocol. Oral hygiene instructions: oscillating toothbrush should be applied up to the gingival margin. Application of AIRFLOW® PLUS Powder, PERIOFLOW® Nozzle on furcation inlets and existing gingival pockets >4mm, PIEZON® NO PAIN. Quality control and subsequent recall set in 3 months.

## PATIENT FEEDBACK

**“I FEEL THE IMPROVEMENT OF MY GUMS.  
IT DOESN'T BLEED ANYMORE AND JUST FEELS HEALTHIER.  
I UNDERSTAND THE NEED FOR REGULAR SUPPORTIVE PERIODONTITIS THERAPY  
AND WOULD BE HAPPY TO COME BACK TO MAINTAIN SUCCESS.”**

**BEFORE GBT**



**AFTER DISCLOSING**



**AFTER GBT**



# MEDICALLY COMPROMISED

## CASE 92



### CLINICIAN

Dr. Jacques Hassid  
Periodontist and Implantologist  
France

### PATIENT INFORMATION

- ▶ Age 59, female.

### BACKGROUND INFORMATION

- ▶ Non-smoker. High stress. She has been doing Guided Biofilm Therapy (GBT) every 3 months. History of Diabetes type 1 since age of 52.

### CLINICAL FINDINGS

- ▶ Presence of calculus in the anterior region. Mobility grade 2 in a few teeth. Recession with sensitivity in the anterior region. Presence of splint to support the mobility in the anterior region.

### TREATMENT

- ▶ Guided Biofilm Therapy (GBT) was done using a step wise approach. In the 1st appt only the supragingival calculus was removed after assessment, disclosure and motivation. Probing depths in the anterior region were treated with PERIOFLOW® nozzle. Patient put on recall every 3 months.

## PATIENT FEEDBACK

**“THANKS TO GBT, I FEEL GREAT AND MY CONFIDENCE IN SMILING IS BETTER.”**



**BEFORE GBT**



**AFTER DISCLOSING**



**AFTER GBT**



# MEDICALLY COMPROMISED

## CASE 93



### CLINICIAN

Dr. Bashar Hameed Alhadithy  
Periodontist  
Iraq

### PATIENT INFORMATION

- ▶ Age 67, male.

### BACKGROUND INFORMATION

- ▶ Hypertensive patient.

### CLINICAL FINDINGS

- ▶ Poor oral hygiene with obvious biofilm retention.

### TREATMENT

- ▶ Supra- and subgingival Professional Mechanical Plaque Removal (PMPR), applying Guided Biofilm Therapy (GBT) Protocol using only AIRFLOW® PLUS Powder and PIEZON® PS Instrument to remove the calculus.

## PATIENT FEEDBACK

“I CAN SMILE EVEN IF I AM 67 YEARS OLD THANKS TO GBT.”

**BEFORE GBT**



**AFTER DISCLOSING**



**AFTER GBT**



# MEDICALLY COMPROMISED

## CASE 94



### CLINICIAN

Gisèle Choquette  
Dental hygienist  
Canada

### PATIENT INFORMATION

► Age 72, male.

### BACKGROUND INFORMATION

► History of bruxism, previous smoker for 20 years, high blood pressure since 12 years, patient is also asthmatic and has sleep apnea (not treated). His main concern was to treat his gum diseases.

### CLINICAL FINDINGS

► Abscess on teeth 21 with suppuration and gum hyperplasia. Periodontal pocket of 9 mm present. Generalised biofilm and calculus. Diagnosis of Stage 3 Grade C. Attrition in anterior teeth.

### TREATMENT

► Periodontal charting performed. Local anaesthesia given. GBT protocol done with 90% of PIEZON® PS Instrument and AIRFLOW® MAX only for the lower arch. Patient given systemic antibiotics. Recall appointments scheduled after 2 weeks, 6 weeks and then 4-month where a complete GBT was given using the AIRFLOW® PLUS Powder.

## PATIENT FEEDBACK

**“I AM SUPER MOTIVATED. I CAN SEE WHERE MY BIOFILM IS AND WHERE I NEED TO BRUSH BETTER. I WILL NEVER ALLOW TO BE TREATED WITH THE HAND SCALERS. THANKS FOR SAVING MY TEETH.”**

**BEFORE GBT**



**AFTER DISCLOSING**



**AFTER AIRFLOW**



**AFTER 4-MONTH RECALL**



# MEDICALLY COMPROMISED

## CASE 95



### CLINICIAN

Jolien Nicolai  
Dental hygienist  
The Netherlands

### PATIENT INFORMATION

- ▶ Age 84, male.

### BACKGROUND INFORMATION

- ▶ Heart rhythm disorder. Medication: amlodipine, xarelto, bisoprolol. The patient uses an electric toothbrush twice a day and softpicks once a day.

### CLINICAL FINDINGS

- ▶ Pockets 4-5mm interdental molar area. Bleeding On Probing (BOP) <20%.

### TREATMENT

- ▶ Guided Biofilm Therapy (GBT) protocol, instruction on electric toothbrush use and advice/ instruction on interdental brushes, AIR-FLOWING®, PIEZON® PS Instrument.

## PATIENT FEEDBACK

“VERY PLEASANT AND NO SENSITIVITY AT ALL I FEEL VERY GOOD!”

**BEFORE GBT**



**AFTER DISCLOSING**



**AFTER GBT**



# MEDICALLY COMPROMISED

## CASE 96



### CLINICIAN

Silvia Kokindová  
Dental hygienist  
Slovakia

### PATIENT INFORMATION

- ▶ Age 62, male.

### BACKGROUND INFORMATION

- ▶ High blood pressure, kidney disease, medicated.

### CLINICAL FINDINGS

- ▶ Hyperplasia of gingiva induced by medicaments and unprofessionally cleaned dental biofilm and calculus. Patient visited previous dental hygienist regularly every 4 months without improving state of gums. Low caries deep and false periodontal pockets both present.

### TREATMENT

- ▶ Biofilm was removed with AIRFLOW® PLUS Powder, supragingival and subgingival calculus was removed with PIEZON® PS Instrument. Regular dental visits were scheduled every 3 months. After 6 months of therapy, the gingiva was fully healed without changing patient's medication.

## PATIENT FEEDBACK

**"I SHOULD HAVE MET YOU EARLIER, I'M SURE I WOULDN'T HAVE LOST ANY OF MY TEETH. THERE IS NO DENTAL HYGIENE CARE COMPARING TO YOURS."**



**BEFORE GBT**



**6-MONTH RECALL AFTER GBT**



**1 YEAR RECALL AFTER GBT**



# MEDICALLY COMPROMISED

## CASE 97



### CLINICIAN

Esther Rovira  
Dental hygienist  
Spain

### PATIENT INFORMATION

- ▶ Age 46, female.

### BACKGROUND INFORMATION

- ▶ Has spina bifida, patient in wheelchair, renal insufficiency, kidney transplant for 13 years, immunosuppressant medication. Has been hospitalized, unable to follow her oral dental care routine.

### CLINICAL FINDINGS

- ▶ No pockets present, Bleeding On Probing (BOP)+ in almost all gingival areas, supragingival and interdental biofilm present. Some calculus and stains present.

### TREATMENT

- ▶ Guided Biofilm Therapy (GBT) protocol completed with special care of the patient's emotional state. With emphasis on disclosing agent and motivation. AIR-FLOWING® with AIRFLOW® PLUS Powder was used to remove all the biofilm and stains while the patient could look at the treatment in a mirror for peace of mind. PIEZON® PS Instrument was used to remove calculus only in the areas present.

## PATIENT FEEDBACK

**“GBT TREATMENT HAS MADE ME FEEL SAFE AT ALL TIMES. I HAVE FELT THAT THE GBT TREATMENT IS MINIMALLY INVASIVE. MY FIRST PLEASANT AND RELAXING EXPERIENCE AT THE DENTAL OFFICE. SIMPLY AMAZING.”**

**BEFORE GBT**



**AFTER DISCLOSING**



**AFTER GBT**



# MEDICALLY COMPROMISED

## CASE 98



### CLINICIAN

Dr. Eric B. Oxley  
Dentist  
United States

### PATIENT INFORMATION

- ▶ Age 24, female.

### BACKGROUND INFORMATION

- ▶ Patient presented 2 years after her last dental hygiene visit for an emergency examination due to painful and swollen gums. Pt has a history of depression and reported being under a lot of stress lately.

### CLINICAL FINDINGS

- ▶ Generalized gingival inflammation, Bleeding On Probing (BOP)+, sudden onset of pain throughout the oral cavity and punched-out papilla consistent with Acute Necrotizing Ulcerative Gingivitis (ANUG). No periodontal pockets >4mm and no periodontal bone loss evident. Poor oral hygiene and patient was reported dental phobic.

### TREATMENT

- ▶ During visit one, Oral Hygiene Index (OHI) was reviewed in detail and gentle debridement on supragingival biofilm and calculus with PIEZON® PS Instrument. Gingival pseudomembranes were removed with cotton pellets dipped in hydrogen peroxide. Oraquix was used as needed. The patient was seen the next day and the punched out gingival tissues had improved. Guided Biofilm Therapy (GBT) was completed using AIRFLOW® and PIEZON® and patient instructed to continue using chlorohexidine rinse.

## PATIENT FEEDBACK

**“I’M VERY HAPPY TO NO LONGER BE IN PAIN AND THANKFUL FOR THE TIME SPENT EDUCATING AND TREATING ME. IT WAS A GREAT EXPERIENCE.”**

**BEFORE GBT**



**AFTER DISCLOSING**



**AFTER GBT**



# MEDICALLY COMPROMISED

## CASE 99



### CLINICIAN

Kendra Fox  
Dental hygienist  
United States

### PATIENT INFORMATION

- ▶ Age 25, male.

### BACKGROUND INFORMATION

- ▶ Patient is diabetic. Diet includes some fast food but eats healthily most of the time. Oral hygiene includes manual tooth brushing twice a day but not for 2 minutes. Dental history includes going to the dentist for regular visits as a child but not as an adult. Our office is the first he has been to in 7 years.

### CLINICAL FINDINGS

- ▶ Heavy biofilm with inflammation. Bleeding On Probing (BOP) is at 72%. Probing depths are generally 4mm in the interproximal areas and 2-3 on the facials and linguals. Recession is noted on the buccal of premolar teeth at 2mm.

### TREATMENT

- ▶ Guided Biofilm Therapy (GBT) with AIRFLOW® PLUS Powder and PIEZON® PS Instrument was provided to patient. Patient was recommended to return in four months for a follow-up prophylaxis with GBT therapy.

## PATIENT FEEDBACK

**“I WANT TO DO BETTER! I WAS NOT BRUSHING CORRECTLY.  
MY TEETH LOOK AND FEEL AMAZING.”**

**BEFORE GBT**



**AFTER DISCLOSING**



**AFTER GBT**



# MEDICALLY COMPROMISED

## CASE 100



### CLINICIAN

Dr. Neha Dixit  
Dentist  
Switzerland

### PATIENT INFORMATION

- ▶ Age 80, male.

### BACKGROUND INFORMATION

- ▶ Patient came last year for a cleaning after 3 yrs. Just recovered from pulmonary embolism. Is on blood thinners. Physically healthy and mentally alert. Brushes teeth regularly with a powered toothbrush. Healthy eating as well. Plays sport 3 times a week.

### CLINICAL FINDINGS

- ▶ Missing teeth in the mouth. Motivated to keep good oral health, but oral hygiene poor. Presence of calculus in the lower anterior areas. No mobility. Bleeding On Probing (BOP)+ in the mandibular region, especially in the anterior. Patient has macroglossia.

### TREATMENT

- ▶ Due to the enlarged tongue, treatment took much longer. Complete Guided Biofilm Therapy (GBT) was done with emphasis on tooth brushing. AIR-FLOWING® done with AIRFLOW® PLUS Powder followed by use of PIEZON® PS Instrument to remove the hard calculus. Presence of bleeding during treatment in the lower anteriors. Recall appointment after 2 weeks to check on bleeding and motivation.

## PATIENT FEEDBACK

**“SO GLAD I CAME FOR A CLEANING. THIS IS THE BEST METHOD TO CLEAN TEETH THAT I HAVE EXPERIENCED EVER.”**



**BEFORE GBT**



**AFTER  
DISCLOSING**



**AFTER GBT**



**AFTER GBT  
4-MONTH  
RECALL**



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GOOD”**

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FROM EMS**



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**- PATRICK SAASEN, CEO OF ADENT DENTAL CLINICS, FIRST GBT-CERTIFIED DENTAL CLINIC**

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