

# Introducing Airflow & Guided Biofilm Therapy

We are delighted to tell you we are using the very latest technology, the AIRFLOW® Prophylaxis Master to help you get the best outcomes in the treatment and management of gum (periodontal) disease. The Swiss Made AIRFLOW® Prophylaxis Master was developed in the EMS Research Centre with more than 100,000 hours of technical and clinical testing in collaboration with leading dental professionals from all over the world. It has been designed with the highest standards of performance, safety and comfort in mind.

## What is Guided Biofilm Therapy (GBT)?

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The high-pressure water/air stream cleans your teeth much faster, efficiently and comfortably than the use of traditional polishing pastes. Since the water in the AIRFLOW® Prophylaxis Master heats to 40 degrees, it's a positively warm experience! and clinical testing in collaboration with leading dental professionals from all over the world. It has been designed with the highest standards of performance, safety and comfort in mind.

## What is dental biofilm?

Dental biofilm is a community of microorganisms in which cells stick to each other and to surfaces of the teeth and/or dental appliances in the mouth. Under a microscope biofilm is visible as a complex 3D structure, which has been metaphorically described as "cities for microbes". It is estimated that 1mm of dental plaque contains more than 200 million of bacterial cells. If left untreated, dental biofilm can cause tooth decay and gum disease, which compromises your body's immune defences, and has been linked to increasing the risk of getting systemic diseases, such as cardiovascular and respiratory disease, arthritis or diabetes, just mentioning a few.

Many patients understand that plaque contains the bacteria, which is damaging to both gums and teeth. However, not everyone is aware that plaque changes over time; immature plaque is far less damaging than plaque that has been left on gum tissue and teeth for an extended period.

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## The aim of GBT

Dental plaque is damaging for gums and teeth, it causes both gum disease and dental decay. GBT aims to both REDUCE the AMOUNT and the REGROWTH of dental biofilm. AIRFLOW PLUS POWDER prevents biofilm forming as rapidly in the mouth. It contains Erythritol powder, which acts underneath gum tissue, around dental implants, bridges and orthodontic appliances, by clearing the plaque in these areas and Dental plaque is damaging for gums and teeth, it causes both gum disease and dental decay. GBT aims to both REDUCE the AMOUNT and the REGROWTH of dental biofilm. AIRFLOW PLUS POWDER prevents biofilm forming as rapidly in the mouth. It contains Erythritol powder, which acts underneath gum tissue, around dental implants, bridges and orthodontic appliances, by clearing the plaque in these areas and then slowing down the regrowth. Most patients worry that hygiene sessions will cause pain and sensitivity, and unfortunately ultrasonic cleaners and hand scaling can sometimes be painful. The aim of GBT is to provide more effective biofilm management using a pain-free technique. AIRFLOW and PERIOFLOW use jets of water that are pre-warmed to body temperature. The powder is contained within the water and uses kinetic energy to remove plaque. Once it is then clean the remaining powder acts as a gentle antibacterial to slow down the production of plaque, which is completely safe for use in both adults and children.

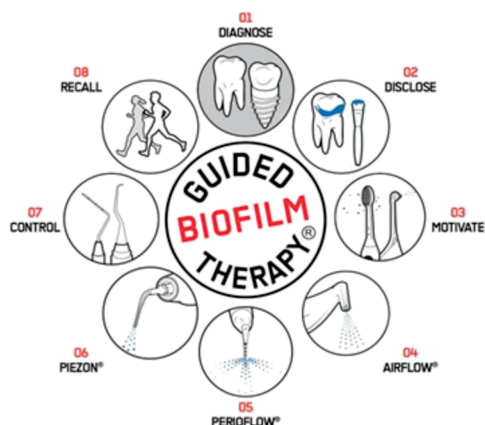
## How is Airflow used?

When using the AIRFLOW® Prophylaxis Master device, dental professional will place a coloured dye (disclosing solution) onto your teeth to reveal any plaque and biofilm present in your mouth. This can be a great motivational tool to show you the areas in your mouth that you need to spend a little more time cleaning at home.



The jet of warm water and powder is then used to remove the biofilm. It is non-abrasive to hard tissue and can also be used on the tongue, cheeks and gums. It is the best solution for orthodontic appliances, dental appliances, bridges, crowns, veneers and implants (it can minimize the risk of peri-implantitis and reduce the loss of implants). If you have hard calcified plaque (calculus/tartar) dental professional may also need to use a PIEZON® ultrasonic on your teeth. However, the use of AIRFLOW® initially minimises the amount of time in which an ultrasonic is needed.

## Are there other benefits of using Airflow and Perio flow?



Due to the nature of the powder, AIRFLOW and PERIOFLOW are also excellent at stain removal – better than conventional polishing pastes. Most patients do not require their teeth to be polished following the use of this system, and most report their teeth feeling smoother and remaining smoother for longer.

Diagram showing the detailed process of Guided Biofilm Therapy.