

Natural+™ (formerly White+) – revolutionizing teeth whitening

By Professor Bernard Touati



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All the dental bleaching products on the market which contain hydrogen peroxide work on the same mode, because the process of decomposition of the hydrogen peroxide applies to all on the same basis.

In brief, its process of decomposition is completed in an exothermic reaction of dismutation into water and dioxygen, its rate being influenced by factors depending on the temperature, the impurities and the stabilizers. Commonly, it is metals of transition and derivatives which facilitate the decomposition of the hydrogen peroxide. The use of a catalyst also comes to increase strongly its decomposition into oxygen and gives off heat.

Natural+™ is a patented, ecological active agent, which prevents these phenomena. Its operating mode is literally different, and its whitening power is increased, safely.

It works on an "atypical" mode because, stabilized, its mode of decomposition is progressive and not volatile, as inherently hydrogen peroxide is.

It presents numerous advantages. It is not necessary to renew the pose of the gel between two sessions to reactivate the efficiency of the product which releases the oxygen over a period of more than 20 minutes.

It does not oxidize because it includes in its composition chelator agents which allow it to keep its stability. It therefore departs from all the common process, existing on the market, as it reacts according to its own operating mode. Thus it is not necessary anymore to bring it together with metals of transition in order to potentialize its activity. The light of the Natural+™ lamp, without giving off heat, allows activating its whitening properties, without producing residues. Since Natural+™ is stabilized, the dentist can control the pace of decomposition via the intensity and duty cycle of illumination by selecting the appropriate Natural+™ lamp program.

The active agent Natural+™ includes Calcium at an optimal rate to prevent against demineralization of the tooth and while the hydrogen peroxide is entering

into its phase of activation, it reacts on the Calcium, included into its composition, which acts as a buffer on the acidity and then allows the bleaching gel to preserve a NEUTRAL pH.

Prolonged exposure of teeth to bleaching compositions, as practiced at present, has a number of adverse effects in addition to that of tooth sensitivity. These include: solubilization of Calcium from the enamel layer at a pH less than 5.5 with associated demineralization; penetration of the intact enamel and dentin by the bleaching agents, so as to reach the pulp chamber of a vital tooth thereby risking damage to pulpal tissue; and dilution of the bleaching compositions with saliva with resulting leaching from the dental tray and subsequent digestion.

The exceptional properties of the active stabilized agent Natural+™ and the presence of Calcium in the formula, allow when these two components are associated to release the maximum of oxygen in a constant and progressive way during the duration of the treatment. As a result it has a greater whitening power and a reduction of the processing time at the dentist's chair for the patient (a single session of 30 min. is enough to gain up to 8 tints).

The Natural+™ gel, besides containing Calcium is enriched in Potassium Nitrate, which role is to affect the threshold of reaction of the sensory nerves and so to relieve the pain as well as Sodium Fluoride, which strengthens the calcic barrier enamel/dentin and acts as a desensitizing substance of has a cariostatic action.

Tooth sensitivity is believed to result from the movement of fluid through the dentinal tubes toward nerve endings in the tooth. This movement is enhanced by the carriers for presence of components which can be found in other bleaching gel compositions.

Meodental's Natural+™ is a unique process, benefiting of a neutral pH, which answers to all clinical cases, even the most difficult as the treatment of dyschromies of intrinsic type, among which those bound to antibiotics (tetracycline) and fluorosis.

Clinical case 1:



Picture 1: Photo after cleaning and before bleaching. Note the defect of the enamel on the 22.



Picture 2: After treatment (with no pain). Note the penetration of the product in the defect of 22.



Picture 3: Shade is stabilized after one week (cigarette smoker). The bleaching effect is visible on the 22 which is taken here as a reference.

Clinical case 2:



Picture 4: After cleaning and before whitening. Starting shade 2M 1, Vita scale 3D Master.



Picture 5: The luminosity is apparently increased. Checking with starting shade referenced 2M1.



Picture 6: New checking with a clearer shade, 1M 1 showing the whitening effect.



Picture 7: Checking after 24 hours with this technique, stabilized results.



Synthesis: These two clinical cases reveal that the White+™ bleaching system from Meodental is reliable.

Testimonial from Dr Paul Tipton.

"The Best Teeth Whitening Kit I have Ever Used."

"I have been in tooth whitening from the very beginning and have used all the different whitening products on the market today. I can honestly say that Natural+ is the best, safest, product and system that I have ever seen and used. My patients who have tried other systems just love it for its speed and lack of sensitivity compared to the other systems on the market."



Dr Paul Tipton – is recognised as one of the leading UK dentists, an expert in prosthodontics, lecturer and expert witness.

Dr Paul Tipton is an internationally acclaimed prosthodontist who has worked in private practice for more than 30 years. He is the founder of Tipton Training, one of the UK's leading private dental training academies and the author of over 100 scientific articles for the dental press. He was voted in the Top 10 'most influential dentists in the UK' by his peers in Dentistry Magazine in April 2011, the leading prosthodontist in the poll and was voted in the top 5 dentists in Private Dentistry's Elite 20 poll, January 2012.

Dr Tipton qualified from Sheffield University in 1978 and in 1982 opened his own referral practice in Manchester. He continued to build his skills, studying at Eastman Dental Hospital in London, where after two years of study, he obtained a Masters Degree in Conservative Dentistry in 1989. In the same year he started teaching on the University of Manchester's MSc in Restorative Dentistry. He is now a lecturer on their MSc programme in Aesthetic and Restorative Dentistry and also lectures at Kings College London (LonDEC).

In 1992, Dr Tipton was awarded an honorary Diploma in General Dental Practice from the Royal College of Surgeons of England and was appointed a member of the British Dental Association's Independent Practice Committee. In 1999, he was certified as a Specialist in Prosthodontics by the General Dental Council.

Dr Tipton is on the editorial board of Private Dentistry Magazine, Restorative & Aesthetic Practice and Implant Dentistry and is a medical writer and part of the advisory board at Expert Beauty Magazine and 'Woman's' magazine. He was a founding member and on the Board of Directors of the British Academy of Aesthetic Dentistry and the British Academy of Cosmetic Dentistry. He is currently the President of the British Academy of Restorative Dentistry and was recently elected Fellow of the International Academy of Dental Facial Esthetics (IADFE).

Dr Tipton practices at his clinics in Manchester, Leeds, Chester and London. All details can be found at www.drpaullipton.co.uk

Natural+™ is also very effective for the treatment of the age-related extrinsic dyschromies, or in case of consumption of tea, coffee, wine, cigarettes, etc.

The Natural+™ formula allows maintaining an optimal degree of hydration of the tooth during all the procedure of dental bleaching, so avoiding the exchanges of oral flows.

A progress in the practice of professional bleaching technical at the clinic

The ergonomic equipment is compact and the procedure is simplified. There are less sensitivities (especially during the treatment) and the results are stable. ♦

Professor Bernard Touati

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Assistant-Professor in Prosthodontics (Paris 5 University) 1976/1985
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Co-Program chair of the 2002 international meeting of the American Academy of Aesthetic Dentistry (Washington, DC)
Editor-in-chief of "Practical Procedures and Aesthetic Dentistry"
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