

What is YOUNG AGAIN[®] ?



A PREFACE:

PHOTONICS IS THE DISCIPLINE THAT EMBRACES EVERYTHING THAT CONCERNS LIGHT AND IMAGES. LASER DISCOVERY BROUGHT US THIS KNOWLEDGE.

The European Union ranked photonics as amongst the five most strategic technologies of the XXI Century. A technology reckoned to ride fast. Next year's market estimations talk about increments of 30 to 40% each year.

Young Again[®] is a dedicated technology for

- ✓ Photobiostimulation
- ✓ Photoeudermia
- ✓ Photodynamic (PDT)

Covered by following certifications:

- ✓ CE – Europe
- ✓ ISO - Europe
- ✓ FDA – USA
- ✓ TGA – Australia

Covered by several International Patents

Photobiostimulation with Young Again®

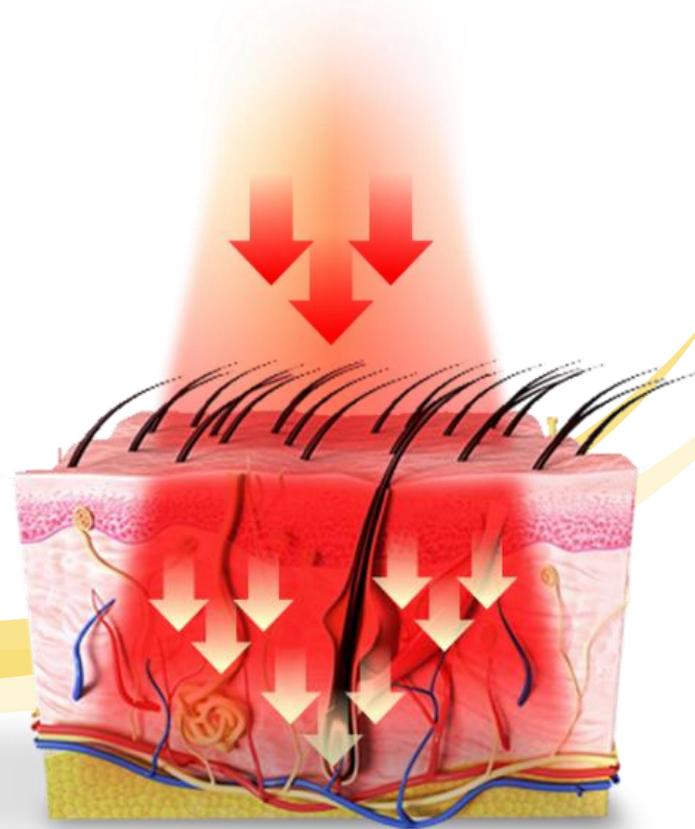
The light delivery re-charges the ATP and dynamically improves chemical reactions of all skin cells as well as hair cells:

It stimulates production of collagen and elastin. Through YOUNG AGAIN® technology, the red light is absorbed by mitochondria and stimulates ATP, increasing thus cellular action and enhancing it's activity.



Photoeudermia with Young Again®

- Optimized absorption of cosmetic products
- Cellular receptivity to cosmetics is faster and improved



Photodynamic (PDT) with Young Again®

Photodynamic therapy (PDT) is used clinically to treat a wide range of medical conditions, recognized to be a minimally invasive treatment strategy.

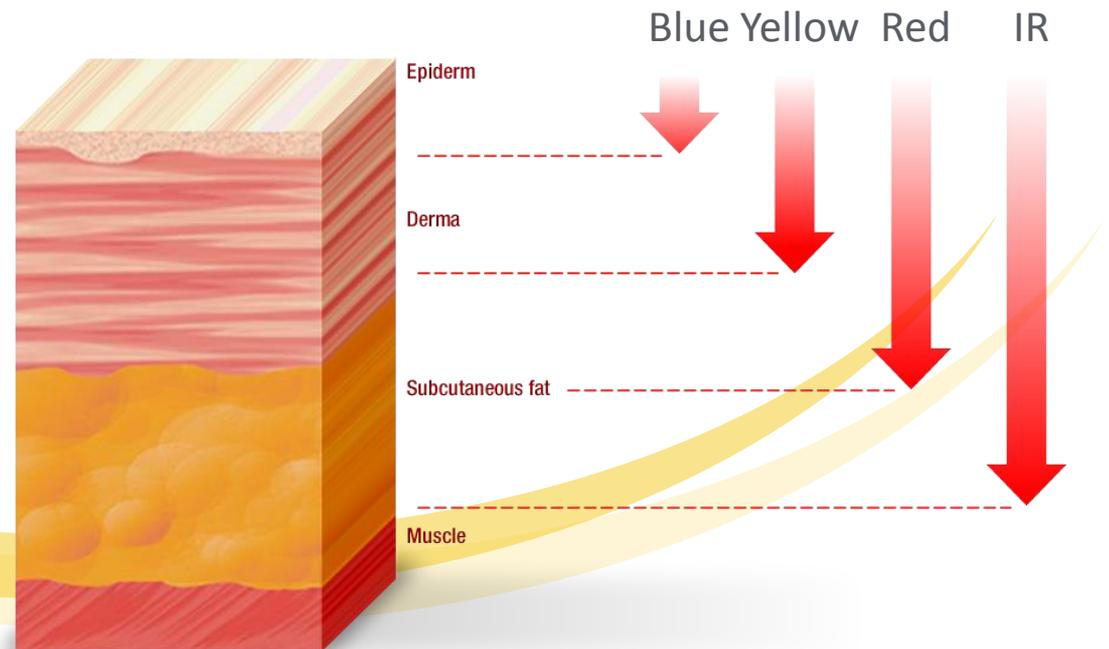
Besides more generic indications like Actinic Keratosis, PDT being a non-invasive method that uses a topical photosensitizing substance combined with a luminous source, it induces the selective **destruction of cancer** or altered **cells** (e.g. **spinocellular epitheliomas**).

In most cases **2 sessions** are sufficient **to resolve the lesion**.

How it works

Cells targeted by the exclusive YOUNG AGAIN® technology are **different**, according to the wavelength used.

The high pressure YOUNG AGAIN® technology allow a **deeper** penetration of light energy.



What this means



BLUE LIGHT:

purification action. Thanks to its properties, the blue light is recognized to be the ideal wavelength to solicit porphyrins to obtain a bacteriostatic effect with a consequent elimination of bacteria that contributes to acne formation.



YELLOW LIGHT:

specific action on the lymphatic system. The **YOUNG AGAIN®** yellow light stimulates cell's metabolism promoting a de-toxifying action to relief swelling conditions.



RED LIGHT:

stimulates production of collagen and elastin. Through the **YOUNG AGAIN®** technology, the red light is absorbed by mitochondria and stimulates ATP increasing thus cellular action, enhancing it's activity. The red light, at high pressure, allows also PDT: photodynamic treatments.



INFRARED:

stimulates, at greater depth, the energetic re-charge of the cell (ATP).

Medical Papers About Us

- **Improvement of skin texture**

P. Mezzana MD - High and Low intensity lights and multidrugs biostimulation Laser Med Sci DOI 10.1007/s10103-007-0456-8 Feb. 2007

- **Decrease of periorbital wrinkles depth**

Dr. Cavagna - Dermocosmesi integrata 2011

- **The role of photobiostimulation in the treatment of male and female androgenetic alopecia: preliminary results on the use of an innovative equipment**

Valeriani MD, Mezzana MD 2010

- **Face Photorejuvenation with Young Again® technology**

A. Luverà MD, M.T. Luverà MD, E. Cervadoro MD, G. Cervadoro MD. - AMWC 2012 - Montecarlo

- **Photorejuvenation and PDT by a new LED technique at close distance**

C. Canci MD, P. Mezzana MD U.S.I. - Unione Sanitaria Internazionale Clinic Marco Polo - Rome 2012

- **Predominantly non-thermal facial skin photorejuvenation using a sequentially combined CW-PW facial mask**

L. Marini MD Trieste, Kronic MD University of Illinois, Chicago AMWC 2012 - Montecarlo

- **Photorejuvenation by PDT through a new LED technique - Young Again® Technology**

C. Canci, MD.; P. Mezzana MD - Cutaneous Oncology Division - Rome AMWC 2012 Montecarlo

- **Young Again® Photobiostimulation: for a safer tanning**

Dr. Cavagna - LNE Sept. 2011

- **Young Again® PROJECT – Cellular Vitality & Longevity**

Dr. R. Cavagna AMWC - Montecarlo 2011

- **Young Again® - LED it be, biostimolazione eudermica naturale**

Dr. R. Cavagna - Parma LNE March 2011

- **Young Again® Technology**

Dr. P. Mezzana - AMWC April 2010 – Montecarlo

- **Using LED Photobiomodulation to treat premature aging**

L. Marini, G. Crisman, V. Trashlieva, A. Kronic, P. Polizois, - Skin Doctor's Center, Italy – prime-journal.com March 2013

- **Mitochondrial signal transduction in accelerated wound and retinal healing by near-infrared light therapy**

Janis T. Eells, Margaret T.T. Wong-Riley, James VerHoeve, Michele Henry, Mary V. Buchman, Mary P. Kane, Lisa J. Gould, Rina Das, Marti Jett, Brian D. Hodgson, David margolis, Harry T. Whelan – Mitochondrion 4 (2004) 559-567

- **Light that can cure you - Exciting new research provides doctors with an alternative treatment to drugs or surgery for ailments ranging from acne to Alzheimer's**

Reed Karim – USA WEEKEND – Feb.2-4, 2007

The latest on us

Dr. Paolo Mezzana: PDT possible solution against skin cancer

Rome - 26 Nov, 2012 (Front Page News)



The results of an all Italian research project - PDT Photodynamic therapy - could be the solution to skin cancer in fair and aging skins, with a non invasive technique.

Dr. Mezzana: " If confirmed, the experimental data

collected so far, will allow the diffusion of a simple method to treat patients with a tendency to develop epithelial skin cancer, with a strong reduction of mortality".

PDT could become the key also to prevent epithelial tumors in patients at risk and not only to cure it.

A finding that could dramatically change the Oncologic dermatology world. There are still few places in the world that are experimenting this technique, for which the all Italian technology was developed by Espansione Marketing, a Company in Bologna - Italy - leader in the medical field. Research was carried out by a team of medical experts, including Dr. Paolo Mezzana, Specialist in Plastic Surgery and Head of the Department of Dermatology of the Oncology Nursing Home Monospecialistica Marco Polo in Rome, Italy, a pioneering Center for the prevention, diagnosis and treatment of tumors, including those of the skin.

"The results so far are excellent. - commented Dr. Mezzana. - This is a non-invasive technique that uses a source of monochromatic light at low intensity applied at short distance from the skin. In this way, you can destroy selectively mutated cells that for the increased rate of replication and transformation, more quickly absorb a drug, the aminolevulinic acid, which acts as a biological marker". Originally used as a therapy for the treatment of actinic keratosis and basal cell epithelioma, in recent years, PDT is finding application for the treatment of other skin conditions, from acne to warts, pilosebaceous apparatus disorders, to photorejuvenation. Actinic keratosis is an indicator of excessive cumulative exposure to the sun and at the same time, as a possible precursor to invasive squamous cell carcinoma. Its incidence is increasing worldwide. A recent study conducted in Italy, carried out on more than 12,000 subjects over 45 years of age, has estimated a prevalence of the disease at 1, 4% of the population (Naldi 2006). In a percentage between 5 and 20% actinic keratosis may evolve, due to a UV-induced mutation, to an invasive squamous cell carcinoma. The team is experimenting with the method of Dr. Mezzana also as a preventive measure. "So far we have enrolled more than 30 subjects with fair phototype and a strong predisposition to the development of epithelial precancerous growths such as actinic keratosis or real skin cancer, which in the past had been repeatedly treated with other therapies.

The photosensitizer substance used is the 5-ALA (aminolevulinic acid, 5) which, applied to the skin one hour before treatment, binds selectively to diseased cells making the target of a light beam, which determines the selective destruction. It is a particularly innovative method, not only because it uses high power LEDs high power (> 100mW/cm²), but also because, by acting at a minimum distance from the tissue (about 5-10 mm), ensures no loss of energy, providing significant results already during the first sessions. The technique used is the only patented PDT in which the distance between the skin and the LED does not exceed 10 mm, this optimizes the absorption by the altered cells, reducing the exposure time and decreasing the downtime of the patient" - said Dr. Mezzana. - "In the 14-month follow-up the patients did not develop precancerous lesions or true epithelial tumors in the treated areas, however, also showing improvements in damages from photoaging - said Dr. Paolo Mezzana.

If confirmed, the experimental data collected so far, will allow the worldwide diffusion of a method of simple execution, almost devoid of complications, for the treatment of patients with a tendency to develop skin tumors of epithelial type, with a strong reduction of morbidity and mortality" - concluded Mezzana.

www.primapaginaneWS.it/dettaglio_articolo.asp?id=125540&ctg=10

Unique points of Young Again®

Medical Certifications:

CE (Europe)
FDA (USA)
TGA (Australia)



Warranty of Product **Safety**

Scientific papers **dedicated** to Young Again Technology

The Medical CE Certification

CE 0476 allows self treatment: for the first time a professional operator is not needed to perform even on oneself a high quality beauty treatment



The Young Again® technology is used by **reputable Hospital Clinics** for **skin cancer preventive treatments**



International Medical Meetings on the Young Again® technology

International Patents protect the uniqueness of Young Again® (Note: Only Omnilux and Espansione hold International Patents on their technology)



High profits for both the supplier and the Physicians using the technology and prescribing it also as home follow up maintenance applications to the patient.



Young Again® is the only technology projected to be **upgradable along the years** without changing the actual equipment (application and treatment upgrades)



The exclusive and proprietary **management software**, result of medical protocols undergoing constant upgrades, sets working parameters of Young Again® in the optimal way for each treatment and area (hair, face, body, etc)