

## NO-NEEDLE BIOREVITALISATION

PROFESSIONAL USE
TO BE PERFORMED ONLY
UNDER MEDICAL SUPERVISION





THE REVOLUTION IN BIOREVITALISATION





### Non-invasive biorevitalisation

After 10 years of clinical research, dr. Rossana Castellana devised a product unlike any other previously used. Its unique formulation has been deemed worthy of an international patent, already granted in the EU, Australia, Japan, and pending in the USA. It's marketed under the brand name **PRX-T**<sub>32</sub><sup>1</sup>.

The breakthrough consists in combining trichloroacetic acid (TCA) with hydrogen peroxide  $(H_2O_2)$  at a very precise pH level. The two substances interact at a cellular level, providing previously unseen benefits for the skin, and, most importantly, without causing caustication to the skin. The discovery consists in having transformed TCA from a caustic substance used in the world of medicine to remove skin into a substance that, in addition to not causing skin peeling, triggers an intense biorevitalisation response in the tissues treated.

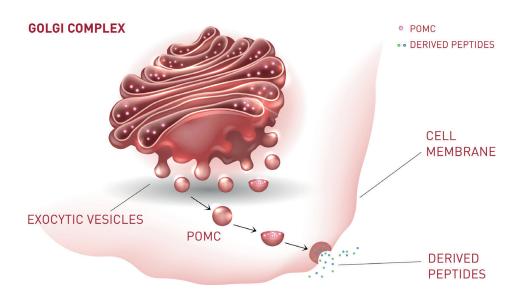
## PRX- $T_{33}$ 's main active components are Hydrogen Peroxide ( $H_2O_2$ ), trichloroacetic acid (TCA) and kojic acid<sup>2</sup>.

The use of **TCA** in medicine is well established, with the earliest reports dating back to 1929, and is used to carry out light, medium and deep peels in different concentration percentages. The effects obtained with the different concentrations are explained in Obagi's Table<sup>3</sup>. In addition to an exfoliating/ablative action, TCA has an important biorevitalising function. Until today these two functions were inseparable, but thanks to our research leading to a unique patented formulation, with PRX-T<sub>33</sub>

it's possible to harness the powerful bio-stimulating action of TCA without exfoliation, which is a clear advantage for today's on-the-go patients. TCA biorevitalises the tissues through 3 pathways: growth factors proliferation (PDGF-B, TGF-beta1, TGF-alfa, VEGF); a balanced inflammation with both inflammatory and non-inflammatory interleukins (IL-1 and IL-10); and finally the Skin Stress Response System (SSRS)4. The biological mechanism of this interesting phenomenon has been discovered, thanks to a 2012 publication by a Japanese research group that identifies the mechanism with which TCA induces neo-collagenogenesis when applied to the skin. When the body is subjected to a systemic stress, a CRH-dependent cascade in the hypothalamic-pituitaryadrenal (HPA) axis leads to the release of pro-hormone Proopiomelanocortin (POMC). Specific enzymes (PC1 and PC2) cut POMC into derived peptides. Similarly to this systemic stress-related mechanism, POMC is secreted at local level in a CRH-independent pathway. It is remarkable to note that the researchers induced local stress in murine skin and human skin cell cultures by application of TCA. POMC is the precursor of multiple peptide hormones which play a large role in skin restoration: keratinocytes and fibroblasts proliferation, increase of skin turnover, barrier-effect enhancement. This pro-hormone is split while being carried out inside the Golgi complex vesicles. Enzymatic cuts occur more efficiently in an acidic pH environment<sup>5</sup> (Fig.1).



Fig. 1 Enzymatic cuts happen in an acidic environment, it is thus essential – to reach the full biorevitalisation effect – to acidify the skin in the days following the treatment, using WiQo Smoothing Face Fluid.



Hydrogen peroxide (H<sub>2</sub>O<sub>2</sub>) - the other key component of PRX-T<sub>33</sub> has a number of interesting effects, most of them hitherto unknown or overlooked: it boosts the skin's response to the biorevitalisation caused by TCA.  $H_2O_2$  reaches the papillary dermis and while crossing the superficial skin layers, it reduces the aggressive effect of TCA's hydrogen ions (H+), preventing protein denaturation of the corneal layer and releasing water. Several scientific studies have highlighted the central role of H,O, in tissue repair. Wounds that damage the vascular network can reduce the oxygen flow, and therefore hinder the repair mechanisms. Research on experimental models has shown that while the application of high-concentration  $H_2O_2$  (3% v/v) slows down the repair process dramatically, the presence of a redox environment has a positive influence on the healing of a wound, and that topical application of low concentration (0,15%) v/v) H<sub>2</sub>O<sub>2</sub> accelerates the healing process.

Low-concentration  $H_2O_2$  has several other important effects in the dermis: it improves the affinity of Fibroblast Growth Factors (FGF-2) for their receptor<sup>6</sup>, it regulates the activity of lympho-monocytes and modulates the inflammation caused by TCA<sup>7</sup>. Finally,  $H_2O_2$  intervenes in the remodelling of the dermal matrix through a controlled apoptosis<sup>8</sup>.

#### **KEY TOPICS**

- No-needles topical application; no frosting
- TCA: stimulates the dermis activating keratinocytes' growth factors
- H<sub>2</sub>O<sub>2</sub>: avoids the acid's peeling effect and allows to repeat the stimulation more frequently, enhancing the effects
- PRX-T<sub>33</sub> is a Class I Medical Device, protected by an international patent
- Indications: photoageing, chrono-ageing, stretch marks, depressed scars



TCA and  $\rm H_2O_2$  in PRX- $\rm T_{33}$  cross the skin barrier at different speeds and reach different depths. Hydrogen peroxide has a high level of tropism and penetrates the superficial cells of the epidermis rapidly, whilst the hydrogen ions in the TCA penetrate the epidermis and the dermis more slowly, reaching a deeper level. (Fig. 2)

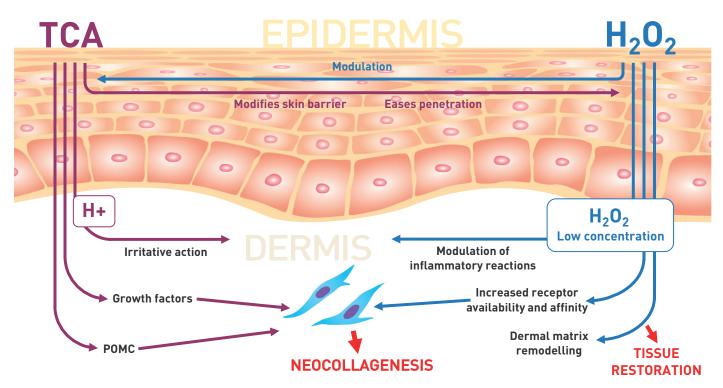
Those hydrogen ions that are not blocked by the hydrogen peroxide on the surface, and pass through the skin barrier reaching the dermis, are thus free to act on the dermal cells, stimulating cell renewal and the formation of new

#### INDICATIONS

- Loss of skin tone from face, neck and chest (photo- and chrono-aging)
- Breast firming
- Stretch marks
- Recent depressed scars

collagen fibres. PRX- $T_{33}$  doesn't cause "white frosting" even though it contains TCA at high percentage, which sets it apart from peelings.

Fig. 2





Essentially, this patented formula compels to rethink the concept of TCA as a peeling agent, since this acid, combined with hydrogen peroxide, becomes a powerful bio-stimulant that leaves the skin completely undamaged, to the extent that we can refer to this process as 'BIOREVITALISATION WITHOUT NEEDLES'.

#### COMPOSITION

Hydrogen peroxide, 33% trichloroacetic acid (TCA), kojic acid, stabilizers.



Due to is unique composition comprising very active formulation the product must be stored at max +8°C.

- 1 PRX stands for Hydrogen peroxide, T<sub>33</sub> for TCA 33%.
- 2 Kojic acid is a chelation and lightening agent. This makes  $PRX-T_{33}$  a coadjuvant to treat hyperpigmentation.
- 3 Obagi's Table as modified by Les peelings chimiques, manuels pratiques de médecine esthétique. Deutsch J. J., Ed. Arnette 1998.

OBAGI'S PEEL DEPTH TABLE	SUPERFICIAL PEEL		MEDIUM-DEPTH PEEL		DEEP PEEL	
shade of skin whitening or frost	cloudy or foggy	slightly white and rosy	clearly white and slightly pink	deeply uniformly white	white-gray	gray
persistence of whitening	30 sec - 2 min	2 min < 5 min	3-5 min < 10 min	5-8 min < 20 min	< 40 min	> 20 min < 60 min
epidermis detachment	/	+ or -	++	++	+ or -	/
skin firmness	0	+	++	+++	++++	+++++
degree of oedema	/	/	- or +	++	+++	++++
healing up time (days)	3-4	4-7	> 7	7-10	10-12	12-15
Obagi's scale for TCA application (%)	30-1	30-2	30-3	50-1	50-2	50-3
	exfoliation		papillary dermis		superficial or upper reticular dermis	middle dermis

- 4 Influence of chemical peeling on the skin stress response system. Kimura A, Kanazawa N, Li HJ, Yonei N, Yamamoto Y, Furukawa F.Exp Dermatol. 2012 Jul;21 Suppl 1:8-10.
- 5 Proteolytic processing of pro-opiomelanocortin occurs in acidifying secretory granules of AtT-20 cells. Tanaka S, Yora T, Nakayama K, Inoue K, Kurosumi K. J Histochem Cytochem. 1997 Mar;45(3):425-36.
- 6 Dermal wound healing is subject to redox control. Roy S, Khanna S. et al. Mol Ther. 2006
- 7 Hydrogen peroxide as second messenger in lymphocyte activation. Reth M. Nat Immunol. 2002
- 8 Transforming growth factor-beta promotes fibroblast apoptosis induced by H,0,. Yasuda K, Aoshiba K, Nagai A. Exp Lung Res. 2003



# PRX-T<sub>33</sub> Instructions for use

#### REVITALISATION OF THE FACE AND NECK

Frequency of sessions: once a week for 1-5 sessions.

- 1. Cleanse the skin with WiQo P solution.
- 2. Apply a small amount of the product to a limited section of the desired area and manually massage it into the skin with the specific technique, until it is absorbed, or use the rubber tipped brush provided (Fig. 3).



Fig. 3 If the massage is performed applying the correct amount of pressure, the tip of the spatula will bend.

3. Repeat the application until the desired effect has been achieved (visible and palpable firmness). It generally takes about three applications: 1-2 applications are necessary for the treatment of the neck or for very thin and/or delicate skin, and up to 5 are needed for very thick skin (Fig. 4).

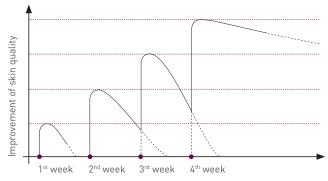


Fig. 4 The improvement of skin appearance is incremental. After 3-5 sessions the effect stabilizes for 6-8 months depending on the patient. Follow up sessions are usually scheduled every 40 days.

- 4. Proceed section by section until the entire surface has been treated (avoiding the eyelids).
- 5. Remove excess gel with some wet cotton wool. Have the patient rinse the skin with cold running water, thus allowing him/her to immediately feel the smoothness and firmness of the skin.
- 6. Liberally apply WiQo NOURISHING AND MOISTUR-IZING FACE CREAM for dry skin to the area treated in order to restore the hydrolipidic film, prevent dryness and soothe any temporary redness.
- 7. Prescribe post-treatment at home with WiQo NOUR-ISHING AND MOISTURIZING FACE CREAM for dry skin, to be applied 2-3 times a day for the first few days and once/twice a day thereafter. Also prescribe home treatment with WiQo SMOOTHING FACE FLU-ID, to be applied once a day starting the day after PRX-T<sub>33</sub> treatment. Remind the patient that no other cream should be used within 30 minutes before or after the application of WiQo fluid.



Follow this link
https://youtu.be/UqY0sYACge0
to watch the demonstration video

To contact WIQO's dermatologists and research biologists for scientific questions or queries regarding our products: scientificdiv.gpq@wiqo.com





### Features & advantages

**PRX-T**<sub>33</sub>'s unique formulation renders it non-aggressive on the epidermal layers, so **no frosting** is caused, which gives several important advantages: the treatment can be performed in the **summer** months, it doesn't require interruption of the patient's social life, the **effects** are **immediately visible** (although the full effect is reached after more than one session, and using the **WiQo Dermocosmetic Home care range**).

Thanks to its efficacy in activating the skin's own regenerative processes, **PRX-T**<sub>33</sub> is an ideal **primer** for other aesthetic medicine treatments. Used in combination with procedures such as mesotherapy, fillers, threads, physical stimulation devices, PRP, etc, it acts in **synergy**, enhancing the results of the treatment. The most recent approach to aesthetic medicine is combination of treatments. No single technique is a silver bullet to solve all the problems

of a patient. The **combination** of chemical, physical or mechanical stimulation is often the best way to a global approach to achieve a natural look.

Even though the application technique is comparatively **simple**, **PRX-T**<sub>33</sub> guarantees visible immediate results, especially if followed by the WiQo home treatment. The percutaneous absorption technique is particularly appreciated by **patients who dislike needles**.

**PRX-T**<sub>33</sub> has been on the market since 2012, and has quickly garnered the attention and respect of medical professionals across different countries. The high number of treatments performed with no adverse effects proves its certified **safety**<sup>1</sup>. Moreover **PRX-T**<sub>33</sub> is registered with the Italian Ministry of Health as a Class I Medical Device, which means that the product is aimed at prevent, control, cure or alleviate a pathology, and is subject to a specific set of rules



warranting its efficacy and safety. The **CE Mark** attests its legitimate marketing.

We are proud to say that Universities and Key Opinion Leaders from different Countries have spontaneously offered to perform clinical studies and Congress Lectures on  $PRX-T_{33}$ , wanting to be the first to be associated with  $PRX-T_{33}$ .



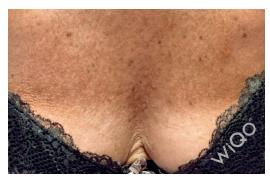
1 PRX- $T_{33}$  is based on a formulation protected by Patent in the EU, Australia, Japan, and pending in the USA. Following its acclaim some manufacturers have unsuccessfully tried to reproduce its formulation: it's our duty to remind our clients of the differences between PRX- $T_{33}$ 's safe and tested formulation and those of counterfeit or derivative products, and to warn against the potentially serious side-effects of these products. Our competitors' products are often merely mixes of TCA and substances sounding similar to PRX- $T_{33}$ 's components; the result of these mixes is the delivery of high-concentration base-buffered TCA into the dermis, which may cause severe irritation of the dermal papillae, nerve endings irritation and increased tissue ageing due to formation of free radicals. GPQ alone is the legitimate manufacturer of PRX- $T_{32}$ , produced according to state-of-the-art industry standards and with safe and tested formulation.



### DÈCOLLÈTÈ



Before application



After application

#### **IMPETIGO**



Before application



After application

#### **ABDOMINAL SKIN RELAXATION**



Before application



After 5 applications



#### **BIOREVITALISATION**



Before application



After 5 applications

#### STRETCH-MARKS



Before application



After 6 applications

#### **BIOREVITALISATION**



Before application



After 4 applications





# RIVITALIZZAZIONE

Per chi desidera mantenere la pelle sempre elastica, idratata e piena di energia una novità interessante è sicuramente quella del nuovo trattamento rivitalizzante senza aghi. Se normalmente, infatti, per far penetrare i principi attivi in profondità della pelle il medico è costretto a esequire tante piccole iniezioni, con questo nuovo biorivitalizzante che si chiama PRX si procede come per eseguire un peeling. «Il PRX è a base di Acido Tricloroacetico (TCA) modificato in modo tale da ridurre la sua forte azione desquamante e potenziare al massimo la sua funzione di rivitalizzazione cutanea. Questo rende il trattamento attivo soprattutto nei confronti della produzione di collagene» spiega il professor Bruno Bovani, chirurgo plastico e medico estetico a Perugia. Con 8 sedute i risultati sono evidenti: la pelle è luminosa, più tonica e compatta. Ottimo anche in abbinamento con il laser frazionato.

PUNTI DI FORZA: non è doloroso, può essere usato anche per zone normalmente off limits come il contorno occhi e il décolleté. Il costo è a partire da 80 euro.





**DECEMBER 2012** 

### Attenua le rughe e rassoda

PRX-T33 «È un peeling a base di acido tricloroacetico e perossido di idrogeno», spiega il chirurgo plastico Mario Dini. «Le sostanze, così combinate, svolgono una leggera esfoliazione superficiale e una potente azione rivitalizzante. In più, il perossido di idrogeno penetra nelle membrane cellulari dello strato corneo superficiale, rendendo meno aggressivo l'acido. Servono 4 sedute e il risultato dura 3 mesi».

Costo da €120 a seduta. Info www.chirurgia-plasticaestetica.it



**MARCH 2013** 

## *Estetyczne* przeboje roku

i stosowany od lat kwas TCA został opracowany w specjalnej formule, która zapewnia wzmocniony efekt regeneracyjny bez złuszczania skóry jak po tradycyjnym peelingu. Bezpośrednio po zabiegu skóra nie jest podrażniona ani zaczerwieniona, natomiast widać efekt nawilżenia, poprawy jej napięcia i kondycji. Jest to znakomity preparat do biorewitalizacji skóry, który warto stosować w terapii łączonej (np. z mezoterapią, osoczem bogatopłytkowym i lampą LED) gdyż doskonale wzmacnia na zasadzie synergii efekty innych zabiegów. To zabieg poprawiający kondycję wiotkiej skóry oraz redukujący płytkie przebarwienia na twarzy, szyi i dekolcie. Bardzo dobre efekty daje też stosowany do leczenia blizn na twarzy i na ciele.



Dr Walkiewicz-Cyrańska

Dermatolog, Prezes Stowarzyszenia Lekarzy Dermatologów Estetycznych, współzałożycielka Międzynarodowego Centrum Kształcenia Medycyny Anti Aging i Fundacji Medycyny Anti Aging. Prowadzi Centrum Viva-Derm w Warszawie, które bazując na złotych standardach, od 20 lat wprowadza na polski rynek estetyczny nowator-



DECEMBER 2014



#### UN TRAITEMENT REVITALISANT SANS AIGUILLE

Le PRX-T33 est une formule pour régenérer la peau qui contient 33 % d'acide trichloracétique (TCA), auquel on a associé un actif qui briderait son agressivite et supprimerait ses effets exfoliants L'idee est d'offrir une revitalisation plus confortable que celle obtenue par mésotherapie micro-injections) ou avec un peeling moyen au TCA, qui génère une semaine de cicatrisation • Comment ça marche ? « On applique la solu-

tion sur le visage, le décolleté ou même les mains en mossanténerg quement avec des gants jusqu'à obtenir une roseur, on rince à l'eau puis on applique une creme réparatrice hydratante, decrit la D<sup>a</sup> Sandrine Sebban Cela redonne de l'eclat

aux peaux epaissies, tachées, jounâtres ou un peu relâchées » Un test de tolérance est recommandé aux épidermes sensibles aux peuvent ressentir comme une brûlure. Comptez 3 à 5 séances. 120 € la sitonce Qu'est-ce qu'on en pense ? Cela semble plus confortable qu'un peeling au une mesalherapie, mais an n'a pas le recul pour savoir si c'est aussi efficace

\* Kantar Health/The European Teosyal Pen Trial 2014, incluant 236 patients

**MARCH 2016** 



Entrevista DRA. NATALIA RIBÉ MEDICINA ESTÉTICA

ción del colágeno?

# "El PRX-T33 consigue estimular la dermis de forma no invasiva"

MEDICINA ESTÉTICA

¿En qué casos estaría indica-do, para solucionar qué tipo de problemas estéticos? Este innovador dispositivo

versatilidad frente a diversos problemas estéticos, entre los problemas estéticos, entre los que estarian la pérdida de toni-cidad de la piel de cara, cuello, escote, manos y de todo el cuer-po en general; las cicatrices atróficas depresivas (impétigos, varicelas, acnés...); las estrías; como coadyuvante en el tra-tamiento del melasma; y las hi-

#### ¿Qué resultados se obtienen

gracias a este tratamiento?

Al modularse la agresividad del ácido tricloroacético hidratándose los tejidos, se potencian desde el primer momento los mecanismos de estimulación mecanismos de estimulación dérmica y regeneración cutá-nea, por lo que tiene lugar una óptima apreciación por parte de los pacientes sobre la mejora general del estado de su piel, los cuales solicitan espontánea-mente nuevas aplicaciones.

Las arruguitas se suavizan. las cicatrices y estrías disminu-yen, tanto su profundidad co-

De forma pionera en España, la Dra. Natalia Ribé incorpora el estimulador PRX-T33, tratamiento rejuvenecedor de la piel, a la oferta de tratamientos de su centro de medici-na estética. Nos explica en qué consiste y

¿En qué consiste la bioestimu-lación cutánea sin agujas con PRX-7337 ¿En qué tecnología technología

pe bas?

EPRX-TSI es un dispositivo médico que prarte del antitudisco per con propiedades, telectos indicaciones completamente difierentes. Al comtriclorrasciticio (TCA) con el peotros tratamientos se distintos vatamientos estimulados que resultan 
de colágeno?

PRX-TSI estudiscible de colágeno que resultan 
importancia del 
pRX-TSI radicatudiscible de combinado con 
otros tratamientos 
setrata deun tra-

LAVANGUARDIA

РЕВОЛЮЦИОННЫЙ МЕТОД 24 Mag. 10:00 РЕМОДЕЛИРОВАНИЯ ДЕРМЫ Семинар-презентация: ИННОВАЦИОННЫЙ МЕТОД РЕМОДЕЛИРОВАНИЯ ДЕРМЫ • Всего за 15 минут - · BE3 NHBEKLINIA PRX-T33TEPANUS - • БЕЗ БОЛИ - • ВСЕСЕЗОННЫЙ · BES PEASURINTALINA WiQOmed ПРИГЛАШАЕМ НА ВЕБИНАР

ξικό οξύ (ΤCA) σε μεγάλη συγκέντρωση (33%), χωρίε να προκαλεί ξεφλούδισμα εξαιτίας της απολέπισης που είναι φυσικό να ακολουθεί. Το μυστικό Βρίσκεται στη ούνθεσή του, η οποία συνδυαστικά με το ΤCA, συστατικό που χρησιμοποιείται για πανάδες, ραγάδες, χαλάρωση, ουλές ακμής, περιέχει και υπεροξείδιο του υδρογόνου. Έτσι οι ανεπιθύμπτες ενέργειες είναι σχεδόν μηδαμινές, ενώ ταυτόχρονα η δράση του προϊόντος, που εστιάζεται στη διέγερση των ινοβλαστών ώστε να παραγάγουν κολλαγόνο, αυξάνειαι. Το πίλινγκ PRX-T33 ms WiQOmed εφαρμόζεται σε Ιταλία και Ισπανία, ένώ αναμένεται και στη χώρα μας. Ενδείκνυται για κάθε τύπο δέρματος όλο το χρόνο.

MAY 2016



### "Collagen Booster": cell regeneration procedure

FRESH, YOUTHFUL SKIN THANKS TO A COMBINATION OF CUTTING-EDGE **TECHNIQUES** 

#### Skin rejuvenation with PRX-T33

Who is PRX-T33 for?

PRX-T33 is for anybody who is reluctant to undergo cosmetic procedures that use an invasive technique. Thanks to its patented formulation, PRX-T33 offers immediate and natural-looking results, leaving the skin plumped and toned. The treatment is suitable for all phototypes, including black skin, and can be carried out in any season.

After discussing with the patient what problem it is they want to treat, the doctor will apply a dose of PRX-T33 serum onto the treatment area. The product is massaged into the skin, where it will provoke a turgescence (swelling). This turgescence will plump up the dermis and help it to recover its lost radiance.







Usako flew to Italy to meet with Mrs. Massage Peel! Born in Italy, the "massage peel" is a new type of peeling that highly stimulates the production of new collagen. To better know and understand this product, we went to Italy with Ms Nakamura, beauty nurse of Ginza Skin Clinic, the beauty centre that has performed the highest number of aesthetic treatments with this product in Japan.





### The revolutionary new lunch time face peel that will take years off you - and doesn't require downtime

Sex and the City's Samantha Jones put a generation of women off chemical peels forever but quick, pain-free and effective they're the number one beauty treatment right now



To explain why peels are becoming popular again, we spoke to celebrity skin expert and Hello columnist Lee Garrett.

At The Garrett Clinic, he has started using the PRX-T<sub>13</sub> treatment that rejuvenates the skin from the bottom up, giving amazing stimulation and results. And what his clients love most is that it's without the downtime of traditional peels. His new treatment really is the new generation of skin rejuvenation treatments.





### LIST OF CONGRESS REPORTS

9 <sup>th</sup> International Congress SIES Bologna, 24-25 February 2006	Prevention of dermal atrophy in recent scars using modulated TCA R. Castellana
8 <sup>th</sup> International Congress of Aesthetic Medicine AGORÀ AMIEST Milan, 12-15 October 2006	Firming of breast skin: a new indication for peels with TCA modulated with hydrogen peroxide R. Castellana
6 <sup>th</sup> Croatian Congress of Plastic, Reconstructive and Aesthetic Surgery Opatija (HR), 6-11 October 2006	Face rejuvenation without surgery: five non-invasive approaches R. Castellana
<b>19<sup>th</sup> National Congress of Dermatology</b> Rabat, 10-11 November 2006	Modulation of TCA with hydrogen peroxide: therapeutic innovation for the treatment of acne and scars R. Castellana
<b>10</b> <sup>th</sup> International Congress of Aesthetic <b>Medicine SIES</b> Bologna, 23-25 February 2007	Combined non-invasive techniques for global rejuvenation of the face R. Castellana
10 <sup>th</sup> International Congress of Aesthetic Medicine AGORÀ AMIEST Milan, 9-11 October 2008	Non-ablative facial skin rejuvenation: a comparison of chemical and physical methods R. Castellana
12 <sup>th</sup> International Congress of Aesthetic Medicine SIES Bologna, 20-22 February 2009	Non-invasive treatment of chrono-ageing and stretch marks F. P. Alberico, R. Castellana
33 <sup>rd</sup> National Congress of the Italian Society of Aesthetic Medicine SIME Rome, 18-20 May 2012	A simple protocol for the treatment of skin ageing: mechanical stimulation of tissue followed by a revolutionary TCA-based peeling F. P. Alberico
14 <sup>th</sup> International Congress of Aesthetic Medicine AGORÀ AMIEST	Ageing of the hands: associated methods for a global approach T. Lazzari, R. Castellana
Milan, 18-20 October 2012	Redefinition of the jawline using minimally invasive techniques  A. Casadei, R. Castellana
	A new concept for dermal stimulation B. Bovani, R. Castellana
	A revolutionary TCA peel preceded by endermolift, for simple and effective treatment of chrono-ageing F.P. Alberico, R.Castellana
High Tech and News in Plastic Dermatology. ISPLAD Plastic Dermatology Regional Course 2012 Padova, 1 December 2012	Peeling news. PRX-T $_{33}$ : TCA modulated with $\mathrm{H_2O_2}$ A. Agolzer





17 <sup>th</sup> International Congress of Aesthetic Medicine SIES	TCA modulated with hydrogen peroxide following needling or oxyneedling F.P. Alberico, R. Castellana		
Bologna, 28 February-2 March 2014	PRP in androgenic alopecia: can pretreatment with TCA- $\rm H_2O_2$ improve its results? A. Casadei, R. Castellana		
	TCA modulated with Hydrogen Peroxide in hyperbaric oxygen positive pressure: a new frontier in tissue regeneration R. Castellana, F.P. Alberico, B. Bovani		
	Carboxytherapy alternated with 33% TCA modulated with Hydrogen Peroxide: a combined protocol against face, neck and décolletage ageing M.G. Di Russo, B. Bovani		
	TCA modulated with $\rm H_2O_2$ and PDO threads : an useful association? F.P. Alberico, R. Castellana		
35 <sup>th</sup> National Congress of Aesthetic Medicine Italian Society SIME Rome, 23-25 March 2014	Concomitant eso-and endo-biorevitalisation: outstanding outcomes at every age R. Castellana, B. Bovani		
	TCA modulated with H <sub>2</sub> O <sub>2</sub> under pressure hyperbaric oxygen for stretch mark treatment R. Castellana, F.P. Alberico, B. Bovani		
	Keloid regression resulting in atrophic scar: how to treat it? R.Castellana, A.C. De Sa Viana		
	TCA modulated with $\rm H_2O_2$ and PDO threads: a promising association for face and body treatments F.P. Alberico, R. Castellana		
14th International Congress of Aesthetic and Anti-Aging Medicine Warsaw, 3-5 October 2014	TCA-H <sub>2</sub> O <sub>2</sub> : a "Primer" to enhance all other office procedures R. Castellana		
	Polydioxanone threads: uses and abuses R. Castellana		
	PRP to treat androgenic alopecia: pre-treatment with TCA-H $_{\rm 2}{\rm O}_{\rm 2}$ improves the results R. Castellana		
16th International Congress of Aesthetic Medicine AGORÀ AMIEST Milan, 9-10 October 2014	Synergic effects of combined eso- and endo-biorevitalization R. Castellana, B. Bovani		
	Sagging of the glabellar area after botulinum toxin injection. How can we prevent this unwanted effect? R. Castellana, B. Bovani		
	Hyperbaric microchamber: a highly versatile device for the treatment of unaesthetic signs and skin disorders R. Castellana, F.P. Alberico, B. Bovani		



30 <sup>th</sup> National Congress of the Spanish Society of Aesthetic SEME Malaga, 19-21 February 2015	PRX-T <sub>33</sub> : A new frontier for non-invasive dermal biorevitalisation N. Ribé, R. Castellana
18 <sup>th</sup> International Congress of Aesthetic Medicine and Surgery SIES Bologna, 27 February -1 March 2015	Using TCA modulated with $\rm H_2O_2$ to enhance CMC plasticity R. Castellana
16 <sup>th</sup> Kongres Stowarzyszenia Lekarzy Dermatologów Estetycznych Warsaw, 6-8 March 2015	PRX- $T_{33}$ a new procedure based on TCA- $H_2O_2$ solution. An innovative approach to skin revitalization – without exfoliation and no needle. A "primer" to enhance all other office treatments R. Castellana
36 <sup>th</sup> National Congress of Aesthetic Medicine Italian Society SIME Rome, 14-17 May 2015	Scarred skin renovation through associated TCA-H $_2$ O $_2$ and micro-needling R. Castellana
	Novel multi-source phase-controlled radiofrequency 1 MHZ in association with TCA- $\rm H_2O_2$ to treat aged skin. First outcomes. R. Castellana, F.P. Alberico
	"Chi è questa che vèn ch'ogn'om la mira" il dolce stil novo della Medicina Estetica R. Castellana
	$\mathrm{H_2O_2}$ "Low Concentration": from the dawn of life to tissue restoration R. Castellana
	Treatment of photo-and chrono-aging and skin damaging prevention with $0_2$ propulsion system and meso-needling R. Castellana, F.P. Alberico
School of Medicine - Bialystok Bialystok, 21 June 2015	PRX-T <sub>33</sub> : a new non-invasive procedure for dermal biorevitalisation R. Castellana
15 <sup>th</sup> Międzynarodowy Kongres Medycyny Estetycznej i Anti-Aging Warszaw, 2-4 October 2015	An Old Italian Style suggests the way to improve Aesthetic Medicine through conservative and regenerative procedures Grażyna Jóźwiak-Zimińska, R. Castellana
	The fundamental role of hydrogen peroxide, from the dawn of life to tissue restoration Grażyna Jóźwiak-Zimińska, R. Castellana
	Scarred skin renovation using TCA modulated with hydrogen peroxide associated to micro-needling Grażyna Jóźwiak-Zimińska, R. Castellana



### LIST OF CONGRESS REPORTS

An Old Italian Style suggests the way to improve Aesthetic Medicine through conservative and regenerative procedures R. Castellana
The fundamental role of hydrogen peroxide, from the dawn of life to tissue restoration R. Castellana, A.C. De Sa Viana
Enlarged pores: new outpatient associated treatments to mitigate this common skin flaw
R. Castellana, F.P. Alberico
Aesthetic Medicine supports the oncologic patients undergoing chemotherapy R. Castellana
New conception resistive multsourcet 1 mhz radiofrequency, associated to a "chemical non-ablative dermal stimulator", for the treatment of cutaneous aging and tissue laxity. Our experiences F.P. Alberico, R. Castellana
Do physical and chemical triggers in association amplify the regenerative cutaneous answer?  F.P. Alberico, R. Castellana
An Old Italian Style suggests the way to improve Aesthetic Medicine through conservative and regenerative procedures
N. Ribé, R. Castellana
The fundamental role of hydrogen peroxide, from the dawn of life to tissue restoration N. Ribé, R. Castellana
<u>'</u>
Hydrogen peroxide has been playing a key role since the dawn of life till to the metabolic regulation in the human cell R. Castellana



37 <sup>th</sup> National Congress of Aesthetic Medicine Italian Society SIME Rome, 13-15 May 2016	Dermis remodeling with hydrogen peroxide-mediated trichloracetic acid in complex programs for correction of aging changes. Innovations in aesthetic medicine without rehabilitation  M. Serheyeva
	Aesthetic Medicine supports the oncologic patients undergoing chemotherapy R. Castellana
	Functional preservation of dermal extracellular matrix in aging prevention and treatments of aged skin R. Castellana
	Do combined physical and chemical stimuli amplify the regenerative skin response? R. Castellana, F.P. Alberico
	Treatment of skin aging and tissue laxity with new conception multi-source fractional and/or needle 1 mhz radiofrequency: when and how? Alone or combined with a "chemical non-ablative dermal stimulator"? Our experience F.P. Alberico, R. Castellana
	Treatment of stretch marks and scars: combination of q-switch laser 1064 nm and "chemical non-ablative dermal stimulator". First results F.P. Alberico, R. Castellana
4 <sup>th</sup> International Congress G.I.S.T. Trieste, 25 June 2016	Treatment for post-surgical unaesthetic scars: my clinical cases M. Sergeyeva
	Skin remodeling through associated physical and chemical stimulations F.P. Alberico
Interdyscyplinarne Oblicza Dermatologii Bydgoszcz (Poland), 13-15 October, 2016	New approach to the treatment of scars using TCA/H $_{\rm 2}{\rm O}_{\rm 2}$ R. Castellana
18 <sup>th</sup> International Congress of Aesthetic Medicine AGORÀ AMIEST Milan, 13-15 October 2016	More effective and amplified regenerative responses in the entire skin need physical and chemical triggers in association F.P. Alberico, R. Castellana
	${\sf TCA/H_2O_2}$ and micro-needling advanced protocols for the treatment of postacne scars and other skin blemishes F.P. Alberico, R. Castellana
	Chemical non-ablative dermal stimulator after laser Q-Switch 1064 nm for stretch mark treatment. Early outcomes F.P. Alberico, R. Castellana



<b>2<sup>nd</sup> Konferencja Naukowa Polskiego</b> <b>Towarzystwa Lekarzy Medycyny Estetycznej</b> <b>"POLME"</b> Warsaw (Poland), 15-16 October 2016	Functional preservation of dermal extracellular matrix in aging prevention an treatments of aged skin R. Castellana
20 <sup>th</sup> International Congress of Aesthetic Medicine and Surgery SIES Bologna, 24-26 February 2017	Scars and stretch marks: new treatment proposals with $TCA/H_2O_2$ , stand-alon or in association F.P. Alberico, R. Castellana
	Restoring the correct equilibrium of the dermal matrix in aged skin R. Castellana
	Starburst: a new technique using hyaluronic acid fillers for facial skin tightening R. Castellana
	Personal protocol for the treatment of significant face and neck tissue slackening: HIFU combined with TCA/H <sub>2</sub> O <sub>2</sub> F.P. Alberico, R. Castellana
38th National Congress of the Aesthethic Medicine Italian Society SIME Rome, 12-14 May 2017	Synergic effects of associating $TCA/H_2O_2$ and other body-tightening techniques R. Castellana, F.P. Alberico
	Focused ultrasound in combination with TCA/H <sub>2</sub> O <sub>2</sub> to treat significant facial an neck tissue laxity. Personal protocol F.P. Alberico, R. Castellana
	Remodeling of the neck and jawline with multisource 1 mhz radiofrequency – dedicated handpiece – followed by $TCA/H_2O_2$ . First-hand experience F.P. Alberico, R. Castellana
	Evaluation of the effects of an anti-aging therapy with a chemical skin stimulation agent. First-hand experience  A. Deda
	${\sf TCA/H_2O_2}$ : complex chemical-biological interactions in vivo between TCA and hydrogen peroxide R. Castellana



of face and neck tissue slackening: personal protocol with HIFU with TCA/H <sub>2</sub> O <sub>2</sub> to, R. Castellana to laser endo-perivenoso delle teleangectasie: effetto riparativo di ugli esiti cutanei  of stretchmarks and tissue slackening with 1 MHZ radiofrequency, with TCA/H <sub>2</sub> O <sub>2</sub> . Personal experience con RF ad 1 MHz multisorgente ad aghi to, R. Castellana e 1 mhz radiofrequency – dedicated handpiece – followed by TCA/odeling of the neck and jawline area to, R. Castellana e clinica mediante pinching test degli effetti biorivitalizzanti di un vice a base di TCA modulato con perossido d'idrogeno
of stretchmarks and tissue slackening with 1 MHZ radiofrequency, with TCA/H <sub>2</sub> O <sub>2</sub> . Personal experience con RF ad 1 MHz multisorgente ad aghi so, R. Castellana e 1 mhz radiofrequency – dedicated handpiece – followed by TCA/odeling of the neck and jawline area so, R. Castellana e clinica mediante pinching test degli effetti biorivitalizzanti di un vice a base di TCA modulato con perossido d'idrogeno
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ignani
Ultrasounds and TCA/ $\rm H_2O_2$ for the treatment of tissue laxity and face diposity: a personal protocol co, R. Castellana
ultrasounds and TCA/H <sub>2</sub> O <sub>2</sub> : considerations on a personal protocol to e laxity and face and neck adiposity co, R. Castellana
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pt Multisource 1 MHz RF, and TCA/H <sub>2</sub> O <sub>2</sub> for a faster response in the reatment of face and body co, R. Castellana
kin ageing with a fractional 1470 nm non-ablative laser and medical / ${\rm H_2O_2}$ . Analysis of the procedure na, F. P. Alberico
approach with 1470 nm fractional non-ablative laser and medical /H <sub>2</sub> O <sub>2</sub> to treat skin ageing na, F. P. Alberico
approach with micro-needling and medical device TCA/H <sub>2</sub> O <sub>2</sub> to treat other cutaneous imperfections na, F. P. Alberico
peel: a new approach to melasma na
pt Multisource 1 MHz RF, and $TCA/H_2O_2$ for a faster response in the reatment of face and body co, R. Castellana



22 <sup>nd</sup> International Aesthetic Medicine and Surgery Congress SIES Bologna, 22-24 February 2019	RF multisorgente ad 1 mhz terapeutica e frazionata: un sistema completo per il trattamento dell'ageing e degli inestetismi di viso e corpo; l'associazione con $TCA-H_2O_2$ e $CO_2$ iniettiva F. P. Alberico, R. Castellana	
<b>22</b> <sup>nd</sup> International Aesthetic Medicine and Surgery Congress SIES Bologna, 22-24 February 2019	Un nuovo peeling in tre fasi per attenuare le pigmentazioni melaniche F. P. Alberico, R. Castellana	
<b>22</b> <sup>nd</sup> International Aesthetic Medicine and Surgery Congress SIES Bologna, 22-24 February 2019	Un trattamento semplice e sempre attuale per trattare cicatrici ed altri inestetismi del volto: needling e TCA/H <sub>2</sub> O <sub>2</sub> F. P. Alberico, R. Castellana	
<b>22</b> <sup>nd</sup> <b>International Aesthetic Medicine and Surgery Congress SIES</b> Bologna, 22-24 February 2019	Ultrasuoni focalizzati nel trattamento di adiposità e lassità tessutali del viso e del collo: l'associazione con TCA-H <sub>2</sub> O <sub>2</sub> L. Teschioni	
Giornata di aggiornamento professionale teorico-pratica in Medicina Estetica rivolta agli associati AGORÀ - AGORÀ UP TO DATE Milan, 23 March 2019	La nuova frontiera della medicina: la rigenerazione cutanea non iniettiva E. Massidda	
XXXIV Congreso Nacional Sociedad Española Medicina Estetica SEME Málaga 21-23 Febrero 2019	REVERSE PEEL: tratamiento progresivo del melasma N. Ribé	
17 <sup>th</sup> Aestetic and Ant-Aging Medicine World Congress AMWC Montecarlo, 4-6 April 2019	Reverse Peel, a new approach to melasma! V. Shavlak	
V FACTOR IV Congresso Nazionale Aigef Milano AIGEF Milan, 29-30 March 2019	TCA/H <sub>2</sub> O <sub>2</sub> per il trattamento degli inestetismi della regione genitale esterna D. Subissati	
<b>40</b> <sup>th</sup> National Congress of the Aesthethic Medicine Italian Society SIME Rome, 17-19 March 2019	Trattamento laser endoperivenoso delle teleangectasie. Effetto riparativo di TCA/ $H_2O_2$ sull'esito cutaneo A. Crippa	
40 <sup>th</sup> National Congress of the Aesthethic Medicine Italian Society SIME Rome, 17-19 March 2019	TCA/H <sub>2</sub> O <sub>2</sub> , Acido Lattico e Acido Fitico nel trattamento delle discromie: esperienza personale M.G. Di Russo	
<b>40</b> <sup>th</sup> National Congress of the Aesthethic Medicine Italian Society SIME Rome, 17-19 March 2019	Il peeling "inverso": un nuovo approccio al melasma R. Castellana	
<b>40</b> <sup>th</sup> National Congress of the Aesthethic Medicine Italian Society SIME Rome, 17-19 March 2019	Trattamenti combinati per l'ageing e gli inestetismi di viso e corpo: RF multisorgente ad 1 mhz terapeutica e frazionata in associazione a $TCA-H_2O_2$ e $CO_2$ iniettiva F. P. Alberico, R. Castellana	



<b>40</b> <sup>th</sup> National Congress of the Aesthethic Medicine Italian Society SIME Rome, 17-19 March 2019	Un'associazione efficace per il trattamento delle cicatrici atrofiche: microneedling e ${\sf TCA-H_2O_2}$ R. Castellana, F.P. Alberico	
21° Congresso Internazionale di Medicina Estetica AGORÀ - AMIEST Milan, 10-12 October 2019	Trattamento di striae distensae mediante un innovativo protocollo combinato TCA- $H_2O_2$ /Needling/Resurfacing con laser frazionato $CO_2$ G. Mauro	
21° Congresso Internazionale di Medicina Estetica AGORÀ - AMIEST Milan, 10-12 October 2019	How I do it: protocolli combinati con un versatile medical device non iniettivo E. Massidda	
21° Congresso Internazionale di Medicina Estetica AGORÀ - AMIEST Milan, 10-12 October 2019	Un peeling in 3 fasi, nuovo approccio per il trattamento delle pigmentazioni melaniche R. Castellana, F.P. Alberico	
21° Congresso Internazionale di Medicina Estetica AGORÀ - AMIEST Milan, 10-12 October 2019	Trattamenti combinati per l'ageing e gli inestetismi di viso e corpo: RF multisorgente ad 1 mHz terapeutica e frazionata in associazione a TCA-H <sub>2</sub> O, e CO <sub>2</sub> iniettiva R. Castellana, F.P. Alberico	
21° Congresso Internazionale di Medicina Estetica AGORÀ - AMIEST Milan, 10-12 October 2019	Combinazione di ultrasuoni focalizzati e TCA-H <sub>2</sub> O <sub>2</sub> nel trattamento delle lassità tessutali del viso e del collo R. Castellana, F.P. Alberico	
<b>21° Congresso Internazionale di Medicina Estetica AGORÀ - AMIEST</b> Milan, 10-12 October 2019	Un nuovo sistema di veicolazione trans senza aghi enerjet + PRX (5 emissioni laser di diversa lunghezza d'onda; Un sistema a scansione di US macro per le adiposità) F.P. Alberico, R. Castellana	
21° Congresso Internazionale di Medicina Estetica AGORÀ - AMIEST Milan, 10-12 October 2019	Trattamento laser endoperivenoso delle teleangectasie. Effetto riparativo di ${\sf TCA/H_2O_2}$ sull'esito cutaneo A. Crippa	
Milan, 10-12 October 2019 21° Congresso Internazionale di Medicina Estetica AGORÀ - AMIEST	TCA/H <sub>2</sub> O <sub>2</sub> , Acido Lattico e Acido Fitico nel trattamento delle discromie: esperienza personale M. G. Di Russo	
21° Congresso Internazionale di Medicina Estetica AGORÀ - AMIEST Milan, 10-12 October 2019	Bio stimulation plus: $TCA-H_2O_2$ combined N. Ribé	



### LIST OF WORKSHOPS

14 <sup>th</sup> International Congress of Aesthetic Medicine AGORÀ AMIEST Milan, 19 October 2012	PRX-T $_{33}$ : exploiting high concentration TCA's intrinsic biostimulation properties without peeling effect R. Castellana
16 <sup>th</sup> International Congress of Aesthetic Medicine SIES Bologna, 23 February 2013	PRX-T $_{33}$ : exploiting high concentration TCA's intrinsic biostimulation properties without peeling effect R. Castellana
34 <sup>th</sup> National Congress of Aesthetic Medicine SIME Rome, 11 May 2013	PRX-T $_{33}$ : exploiting high concentration TCA's intrinsic biostimulation properties without peeling effect R. Castellana
15 <sup>th</sup> International Congress of Aesthetic Medicine AGORÀ AMIEST Milan, 11 October 2013	PRX-T $_{33}$ : the regenerative properties of $\rm H_2O_2$ low concentration are revealed by modulated TCA, for a non-invasive biorevitalization R. Castellana
13 <sup>th</sup> Scientific and Training Conference PTL Warsaw, 8 June 2014	Applying the new hydrogen peroxide TCA called PRX-T <sub>33</sub> R. Castellana FENICE
14 <sup>th</sup> International Congress of Aesthetic and Anti-Aging Medicine POLSKIE TOWARZYSTWO MEDYCYNY ESTETYCZNEJ Warsaw, 3-5 October 2014	PRX-T $_{33}$ Novelty 2014. A new approach to the revitalization of flaccid skin - TCA in combination with $\rm H_2O_2$ . No peeling, no needles R. Castellana



Sympozjum Fenice Nowości w medycynie Estetycznej 2014 Lasery w medycynie Estetycznej 2014 Górnośląska Wyższa Szkoła Handlowa im. Wojciech Korfantengo Katowice, 22 November 2014	News in Aesthetic Medicine 2014: PRX-T <sub>33</sub> , a new biorevitalizing patented procedure without needles, to be applied in skin ageing as stand -alone treatment and in combined protocols as a primer for any aesthetic treatment like mesotherapy, PDO threads, fractional lasers, PRP R. Castellana
,	PRX-T $_{33}$ associated with PRP in AGA treatment: preparatory stimulation with TCA+H $_2$ O $_2$ improves the efficacy of PRP procedure R. Castellana
	One plus one does not always equal two. Presenting a study that shows more effective outcomes of usual mesotherapy treatments when associated with PRX-T <sub>33</sub> R. Castellana
	My own experiences of using a new filler (CMC) associated with $$ PRX-T $_{\!33}$ in only one session $$ R. Castellana
16° Kongres stowarzyszenia lekarzy dermatologów estetycznych STOWARZYSZENIE LEKARZY DERMATOLOGÓW ESTETYCZNYCH Warsaw, 6-8 March 2015	PRX- $T_{33}$ a new procedure based on TCA- $H_2O_2$ solution. Without exfoliation and no needle. Live demonstration of one session synergic procedure with ERELLE FILLER - new class of injectable biodegradable based on carboxymethylcellulose R. Castellana
31st National Congress of the Spanish Society of Aesthetic Medicine SEME Malaga, 18-20 February 2016	PRX-T <sub>33</sub> and Erelle, a good association N. Ribé, R. Castellana
20 <sup>th</sup> International Congress of Aesthetic Medicine AGORÀ AMIEST Milan, 18-20 October 2018	"Reverse" peel: a new approach to melasma R. Castellana
21th World Congress 2019 IMCAS Paris, 31 January - 2 February	PRX-T <sub>33</sub> application on face and neck R. Castellana, V. Shavlak
17 <sup>th</sup> Aestetic and Ant-Aging Medicine World Congress AMWC Montecarlo, 4-6 April 2019	A peel that doesn't peel. $H_2O_2$ /TCA topical solution transforms an aggressive peel to powerful skin revitalizer V. Shavlak



## **University courses**

2<sup>nd</sup> Level University Master in Aesthetic and Wellness Medicine

Università degli Studi di Pavia Pavia, 11 September 2013

Tecniche di Medicina Estetica e Wellness

Università degli studi di Palermo

University Master in Aesthetic and Medicine Università degli Studi di Parma

Parma. 29 November 2013

2<sup>nd</sup> Level University Master in Aesthetic Medicine

Università degli Studi di Napoli Federico II



## **Publications**

La Medicina Estetica 37 <sup>th</sup> n. 3, July- September 2013	Fibroblast stimulation through the activation of the endocrine system for the application of trichloroacetic acid. R. Castellana, A. C. de Sa Viana, L. Rizzi		
La Medicina Estetica 38 <sup>th</sup> n. 2, April-June 2014	A new-formulation TCA-based product and fractional and capacitive 4MHz radiofrequency to treat photoageing F.P. Alberico, R. Castellana		
Dermatologia Estetyczna 1 (102) vol. 18 nr. 1 & 4-5 - 2016	Zastosowanie PRX-T33 w terapii starzenia się skóry – obserwacje własne (Preparation Prx-T33 For The Chemical Stimulation Of The Skin - Anti- Aging Effectiveness. Authors' Own Experiences). A. Deda, B. Błońska-Fajfrowska		



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