

acnelan

acne solution
by mesoestetic®

DERMA
TOLOGICALLY
DEVELOPED & TESTED



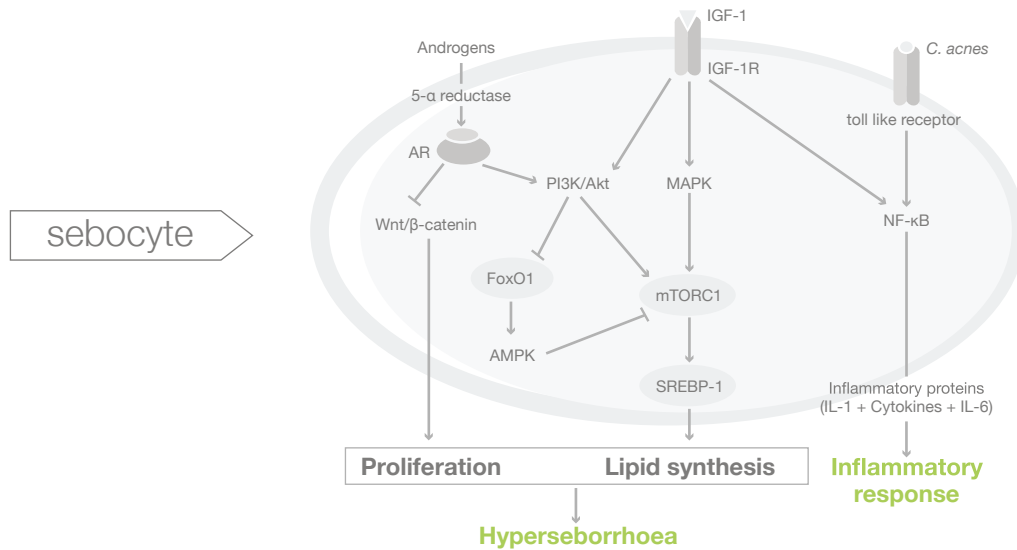
visible results from the first session

mesoestetic®

acne: origin and triggering factors

Acne is the most prevalent skin condition, which affects 80% of adolescents and 30% of adults. It is clinically characterised by a polymorphous clinical condition caused by an excessive **oil production** together with an increase in **keratinocyte proliferation**, leading to an **inflammatory response** in the follicle.

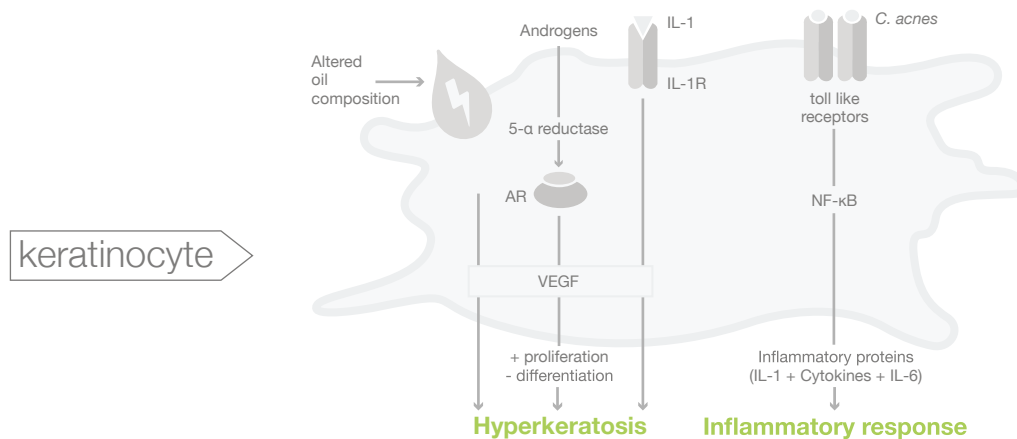
triggering pathological condition in:⁽¹⁾



> **sebocytes:** three processes are activated simultaneously inside the sebocyte, resulting in the generation of hyperseborrhoea, a change in oil composition and skin inflammation.

5-alpha-reductases, together with the insulin-like growth factor-1 (IGF-1), are in charge of starting by different pathways (AR, mTORC...) a stimulation of oil production, as well as an alteration in its composition.

In parallel, IGF-1 together with a stimulation of *C. acnes* induce the production of inflammatory proteins and can cause PIH.



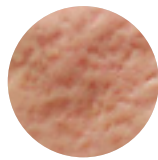
> **keratinocytes:** the altered oil composition together with the androgen products derived from 5-alpha-reductase together with the activation of the inflammatory marker IL-1 produce excessive proliferation of keratinocytes induced by activation of growth factors such as VEGF. This proliferation will result in the obstruction of the follicle starting the first stage of acne, comedos.

In addition, the proliferation of the bacterium *C. acnes*, in the same way as in the sebocyte, will generate an inflammatory response.

classification of acne according to the prevalent types of lesions:

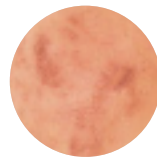


post-acne sequels:



> scars

They are formed when **collagen** is not regenerated homogeneously.



> *post-inflammatory hyperpigmentation*

It is formed when inflammation activates melanocytes through the **tyrosinase enzyme**.

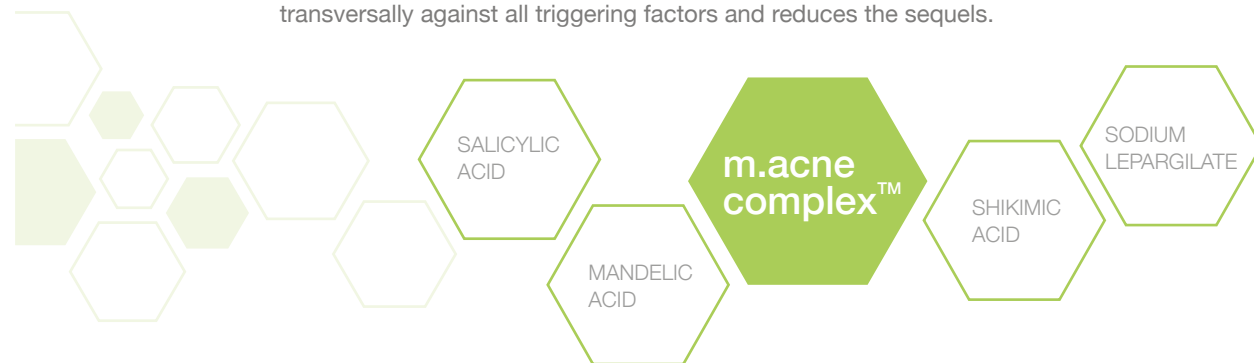
acnelan: the method

mesoestetic[®] presents its unique method for the effective control of acne-prone and seborrhoeic skin in a few sessions. Developed with the collaboration of a prestigious group of dermatologists to ensure maximum **efficacy, safety and quality**.

acnelan method comprises an **intensive treatment** at the clinic, potentiated by a range of **home products**.

transversal action on the factors causing acne:

The multifactorial origin of acne makes it necessary to obtain a method that achieves optimum control of all its manifestations. **acnelan** is formulated with **m.acne complex**[™], an innovative complex made of active ingredients with **complementary and synergistic action**, that acts transversally against all triggering factors and reduces the sequels.



Specific actions to reduce the causes of acne

- > Control of oil production.
- > Regulation of hyperkeratosis.
- > Clearance of the sebaceous follicle.
- > Control of the inflammatory response.
- > Control of bacterial proliferation.

Specific actions to reduce post-acne sequels

- > Attenuation of post-acne scars.
- > Inhibition of tyrosinase: reduction of hyperpigmentation.

acnelan: treatment at the clinic

products contained in **acnelan pack**:



acnelan multifactor mask

3 jars of 10 mL

Descaling mask with keratolytic and antimicrobial action for unclogging and cleaning pores. Formulated with **m.acne complex™** pH 3.5.

Remarkable active substances:

- **bexarentinyl complex:** modulation of keratinocyte hyperproliferation and inflammation markers.
- **sulphur:** keratolytic and antibacterial.
- **kaolin:** exfoliating action that absorbs oil excess.



post-peel neutralizing spray

50 mL bottle

Solution to neutralise, **acnelan multifactor mask**, formulated at pH 8.6, neutralises rebalancing the pH and soothing the skin.

Remarkable active substances:

- **sodium bicarbonate:** neutraliser.
- **aloe vera extract:** moisturising and soothing.



pore sealing shield

3 single doses of 3 mL

Gel that prolongs the results and reduces inflammation, seborrhoea and bacterial proliferation, maintaining the results in the long term.

Remarkable active substances:

- **zinc:** inhibits 5-a reductase.
- **aloe vera extract:** moisturising and soothing.
- **copper:** reduces epidermal flushing.

> protocol at the clinic

acnelan pack contains the products necessary for **3 sessions** at the clinic. It is recommended to perform **2 full treatment programmes**, at least 4-5 months apart.

PHASE 1 preparation



- > Moisten the area to be treated.
- > Apply 2 pulses of **purifying mousse** to clean the area in depth.
- > Remove the product with a wet wipe.
- > Protect sensitive areas (outer corner of the eyes, nasal wings, lips and mucous membranes) with **mesolips protector**.

PHASE 2 intensive treatment



- > Homogenise the suspension of **acnelan multifactor mask** with the stirrer included in the pack.
- > Apply with a spatula and leave on for **up to 3 minutes**.
- > Remove the mask with wet wipes in several runs.
- > Neutralise with **post-peel neutralizing spray**.
- > Spread evenly over the treated area **pore sealing shield**.

PHASE 3 photoprotection



- > End the treatment with the application of **moisturising® sun protection SPF50+**

In the 48 hours following the treatment session, exposure to the sun, sunlight or artificial light, heat sources or going to saunas or swimming pools should be avoided.

🏠 acnelan: home treatment

The home product line has been specifically developed to enhance the results of treatment at the clinic easily and conveniently. Its formulations and textures, specific for acne-prone and seborrhoeic skin, enhance the suitability of the treatment and improve its efficacy.



hygiene //

purifying mousse

150 mL

Daily cleaning foam. Purifies the skin providing a pleasant feeling of comfort.

Its light texture and formulation make it perfectly suitable for acne-prone and seborrhoeic skin.

Remarkable active substances:

- **urea**: soothes and moisturises the skin.
- **chlorhexidine**: inhibits the proliferation of micro-organisms.



daily treatment //

acne one

50 mL

Cream for daily use designed for the optimum control of acne-prone and seborrhoeic skin. Formulated with **m.acne complex™**, exfoliates the skin, reduces oil production and controls bacterial proliferation.

Remarkable active substances:

- **bexaretinyl complex**: modulation of keratinocyte hyperproliferation and inflammation markers.

specific treatment //

imperfection control

10 mL

Cream for daily use indicated for local treatment of skin rash derived from acne, formulated with **m.acne complex™**. Reverses effectively the flushing and swelling of local rash. It also contains innovative pigments to provide a masking effect adjustable to the different skin colours.

Remarkable active substances:

- **bexaretinyl complex**: modulation of keratinocyte hyperproliferation and inflammation markers.
- **enoxolone**: reduces the flushing and swelling of the epidermis.



pure renewing mask

100 mL

Descaling, cleansing facial mask with **m.acne complex™** to provide a greater exfoliating action and an intense cell renewal. Apply from 5 to 10 minutes once a week.

Remarkable active substances:

- **bexaretinyl complex**: modulation of keratinocyte hyperproliferation and inflammation markers.
- **kaolin**: exfoliating action that absorbs oil excess.



UVB - UVA protection //

moisturising® sun protection SPF50+

50 mL

Very high sun protection **SPF50+**. With moisturising properties, avoids epidermal water loss and maintains optimal moisturization level.



DERMATOLOGICALLY TESTED



WATERPROOF



NON-COMEDOGENIC

protocol:



TREATMENT AT THE CLINIC



TREATMENT AT HOME



TREATMENT AT THE CLINIC



TREATMENT AT HOME



TREATMENT AT THE CLINIC



TREATMENT AT HOME

SESSION 1 >>>>>>>>

SESSION 2 >>>>>>>>

SESSION 3 >>>>>>>>

acnelan: efficacy and safety

A multicentre safety and efficacy study performed in 30 volunteers with mild-moderate acne to whom the **acnelan pack** method was applied at the clinic together with the home products of the same line.

efficacy *in vitro*

> Reduction of flushing and swelling of the lesions⁽²⁾

≡ -90%

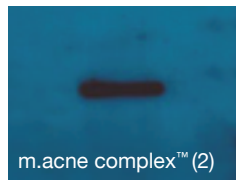
Reduction of the synthesis of **IL-8** (pro-inflammatory cytokine) from the control evaluated on human keratinocytes.

> Reduction of pigmentation⁽²⁾

≡ -40%

Reduction of **melanin synthesis** from the control evaluated over human melanocytes.

> Reduction of keratinocyte proliferation⁽²⁾



Increase of **involucrin** from the control evaluated in human keratinocytes

Figure 1. "Western Blot" test. A significant increase is seen in involucrin synthesised by keratinocytes to which **m.acne complex™** has been applied (2) vs the control (1) resulting in an increase in the differentiation vs the proliferation process.

efficacy and safety *in vivo*

> Post-treatment assessment by the medical professional⁽³⁾



reduction of inflammatory lesions



reduction of post-acne lesions



reduction of non-inflammatory lesions



pore size reduction

> Low occurrence of unwanted effects⁽³⁾

Treatment evolution:



visible results from the first session

The results evidenced a **significant, evident reduction** in the number of **inflammatory, non-inflammatory acne-prone lesions and post-acne hyperpigmentations**, as well as a reduction of oil in the surface and improvement of skin relief in 100% of the cases.⁽³⁾



Pictures taken before and after 2 weeks of treatment



Pictures taken before and after 6 weeks of treatment



Pictures taken before and after 6 weeks of treatment



Pictures taken before and after 6 weeks of treatment



Pictures taken before and after 6 weeks of treatment



Pictures taken before and after 10 weeks of treatment

100% satisfaction of the volunteers and medical professionals with the results obtained⁽³⁾

acnelan

acnelan, an intensive innovative method for topical treatment of acne-prone and seborrhoeic skin.

Co-developed together with a prestigious group of specialist dermatologists to offer the maximum efficacy, safety and quality.

Multifactorial, transversal and simultaneous innovation on the different triggering factors of the signs of acne.

The unique m.acne complex™ contains synergistic active ingredients that provide an integral improvement of acne-prone and seborrhoeic skin.

9 in 10 volunteers would repeat the treatment at the clinic.



1. From pathogenesis of acne vulgaris to anti-acne agents, Springer-Verlag GmbH Germany, part of Springer Nature 2019. 2. m.acne complex™ *in-vitro* trial. Biotechnology Unit, Mesoestetic Pharma Group S.L. 2015. 3. Multicentre efficacy and safety panel of a new clinic and home treatment method (acnelan) with multifocal action for the control of acne-prone skin. 30 volunteers. Mesoestetic Pharma Group S.L. 2015.



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