



BCN TENSIS-PEPTIDES

Advanced Firming Cocktail

The formula of this advanced combination of active ingredients strengthens and firms the skin of the face and body. The new generation peptides act, in synergy with the different classic active ingredients, on all the elements of the extracellular matrix (ECM), its synthesis and degradation, contractility, cell adherence, the dermoepidermal junction and muscle tone.

The hyaluronic acid, vitamins, minerals, amino acids and other components of the product care for the overall health of the skin with their revitalising actions and other anti-ageing properties.

It combats flaccidity and the loss of elasticity at the same time as providing a firming effect.

DETAILED INFORMATION

This combination of active ingredients acts on the extracellular matrix, strengthening the tissue and firming the skin of the face and body. Its action is focused on restoring firmness and making the skin look younger and more luminous. It reduces and prevents wrinkles by generating new skin cells. It improves the skin's elasticity by inducing the synthesis of collagen, elastin and a new extracellular matrix (ECM). It hydrates dry skin and helps to maintain the optimal moisture balance.

The principal actions of BCN Tensis-Peptides are:

- It increases the skin's collagen levels.
- It mimics the proteins responsible for organization of the collagen fibres through control of their size and uniformity.
- It provides an overall firming effect to the skin.
- It improves muscle tone giving it vitality and energy.
- It includes a potential anti-inflammatory effect.
- It activates the cell's regenerative functions.
- It reduces tissue destructure, the ageing process and wrinkles.
- It provides a moisturizing effect by increasing hydration levels.
- It improves stretch marks and scars through the formation of new skin cells.
- It protects and repairs damaged skin.



These beneficial effects on the skin are achieved thanks to the following advanced active ingredients:

- **Buttermilk protein or MPC-Milk Peptide Complex.** These are polypeptides with biological activity obtained from the milk: the cytokines or regulating molecules, stabilized in the physiological medium of other functional components of the milk: the lactoglobulin, lactoferrin, lactose, lactates, etc. Fibroblasts are a type of connective tissue cell. They synthesize the collagen and the glycosaminoglycans of the extracellular matrix and when their number and activity reduces because of age, the production of molecules which form the ECM also diminishes. The complex of milk peptides activates the fibroblasts through cell signalling. They bring to the skin the principal cytokine of this process: the transforming growth factor, TGF- β in its active form. These cytokines send inhibitory or stimulating signals to the cells to activate the cell response that results in restoring a physiologically balanced skin. The peptides in the MPC act by stimulating and increasing synthesis of collagen I, hyaluronic acid and fibronectin, thus leading to a reorganization of the extracellular matrix. The result is restoration of the skin's functions in order to keep it young and healthy. The amino acids contained in the buttermilk protein help to preserve the elasticity and firmness of the skin.
- **Biomimetic peptides**, that is, peptides with an identical structure to natural peptides but with a shorter sequence making it easier for them to penetrate the protective barriers of the skin to reach the deepest layers of the dermis and from there, transmit information to the cells, without the risk of sensitization. They perform their function by mimicking the organism's natural intercellular communication mechanisms which dictate to the cells which action to carry out. The BCN-Tensis-Peptides formula contains the following ingredients:
 - **Oligopeptide-24 or CG-EDP3**, a mixture of palmitic acid which is important in modulating the expression of growth factors, such as EGF, or epidermal growth factor, as it interacts with its receptor and increases its expression, as well as the proliferation, migration and survival of the skin cells and the expression of the components of the extracellular matrix (collagen, elastin, hyaluronic acid). It also helps to generate new young cells. Its application provides a lifting and firming effect as well as a more even skin tone and scars are minimized. It has a powerful, general anti-ageing effect. Moreover, it increases aquaporin 3 (AQP3), a protein which is expressed principally in the plasma membrane of the keratinocytes or cells which are most abundant on the epidermis and it mediates water transport. Its function is to allow the passage of water and other small solutes, such as glycerol and urea, through the plasma membrane, playing a key role in keeping the epidermis hydrated, accelerating wound healing and skin elasticity.
 - **Palmitoyl tripeptide-28** mimics the natural regeneration mechanism of the extracellular matrix. On the one hand it stimulates protein synthesis and the production of inhibitors of metalloproteinases which destroy the EMC collagen. On the other hand, it stimulates the gene expression of the EMC fibres by binding to the TGF- β II specific receptor on the cell surface provoking a phosphorylation cascade. It increases synthesis of type I and type III collagen. It also induces integrin synthesis, integrin being a superfamily of glycoproteins present in high concentrations on the cell surface and which play an important role in the union of cells with the extracellular matrix and in cell-cell union. With hyaluronic acid, it provides a Botox effect and prevents from flaccidity.
 - **Palmitoyl tripeptide-38**, is a peptide which mimics matrikins, cytokines originating from the extracellular matrix which derive from proteolysis of the

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TREATMENT PROTOCOLS

Initial considerations

THE IMPORTANCE OF INGREDIENTS: THE MESOCEUTICALS®

It is very important to use sterile and aseptic products in treatments with Meso Pen or Meso Roller. You have to keep in mind that this type of treatment produces small wounds on the skin's cutaneous surface. Therefore, the application of non-sterile products on the patient's skin may improve the risk of different cutaneous infections. Plus, the additives, preservatives and perfumes added to non-sterile products suppose a higher risk of allergies because when applied with Meso Pen or Meso Roller they reach a higher depth than with topic use.

The Institute BCN's mesoceuticals® are:

 Meticulously selected pure active ingredients	 Based on original mesotherapy formulas	 Sterile (no preservatives or additives) and highly tolerant	 Pharmaceutical formulations
 Safe	 Highly concentrated	 Proven effectiveness	 Comfortable application using a gentle cosmetic procedure
 Products can be combined to obtain a specific mix for each individual case to be treated	 Monodose	 Mesotherapeutic product for aesthetic purposes	

RECOMMENDED PROTOCOL

Institute BCN team works hard to know and prove the **latest improvements on techniques and procedures applied to transdermal mesotherapy treatments**. The recommendations you will find below are the result of our daily work.

Institute BCN strongly recommends the following two-phase protocol:

1. Meso Pen (ideally) or Meso Roller treatment.
2. TDS treatment (Transdermal Delivery System)* for the application of a hyaluronic acid layer on face treatments and hyaluronic acid + DMAE layer on body treatments.

* [Electroporation, iontophoresis, ultrasounds, thermotherapy, vacuum therapy, galvanic and continuous currents or radiofrequency, among others].

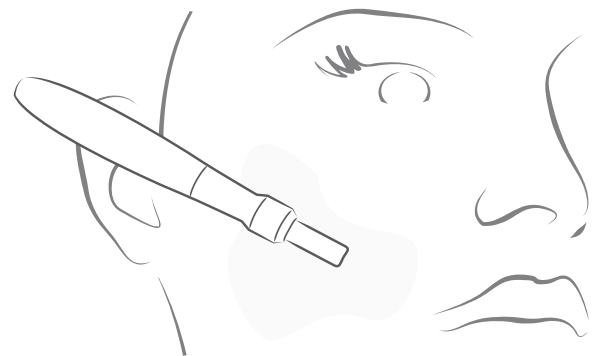
It is not indispensable to apply the combined technique Meso Pen + TDS. It is also possible to perform the treatment only with Meso Pen, Meso Roller or TDS individually. For traditional mesotherapy treatments see the applicable law in your country.

BENEFITS OF MESO PEN + TDS PROTOCOL

Meso Pen is an electronic micro needle mechanism that opens more than **1.000 micro channels per second in the skin**. These cutaneous micro channels or micro trauma create an innate response on the organism that helps repair the skin, which leads to the following benefits:

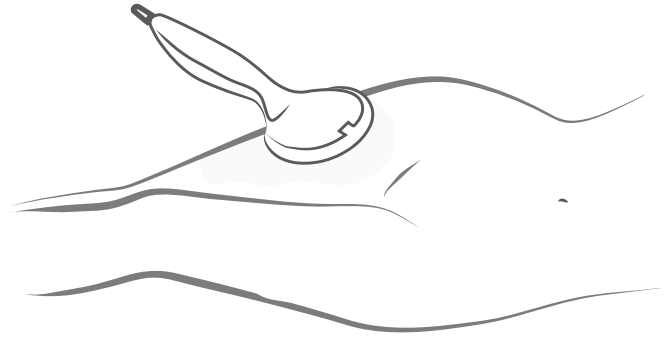
- Stimulates **collagen and elastin** creation.
- Has a **firming and rejuvenating** effect.
- Improves the appearance of **scars and stretch marks**.
- Improves skin **wrinkles** and fine expression lines.
- Reduces **pore** size.
- Stimulates **hair** growth and prevents hair loss.
- In addition, favours the penetration of **active ingredients**.

Meso Pen is the **most secure, hygienic, quick and effective** transdermal penetration system of the market.



The infiltration of a **Hyaluronic Acid 2% (BCN Classics, sterile vial)** layer after the Meso Pen treatment, applied with any of the transdermal delivery systems (TDS), leads to the following benefits:

- Creates a **'sealing effect'** that fixes the product or mix applied during the treatment, increasing its results.
- This 'sealing effect' contributes to **prevent transdermal water losses** that may arise from Meso Pen treatments and increases skin hydration.
- **Protective** action. It creates a non occlusive film that protects the skin from environmental aggressions.
- **Scarring** effect. It favours a quick skin re-epithelialisation, in other words, the recovery of its normal functions and cellular communication after disturbances induced by Meso Pen treatment.
- **Filling** action. Hyaluronic acid retains water molecules creating a filling effect and increasing skin volume.
- Also, it offers a **warm and nice sensation** to the patient as the final part of the treatment.



SESSIONS' INTERVAL / ACTIVE INGREDIENTS QUANTITY

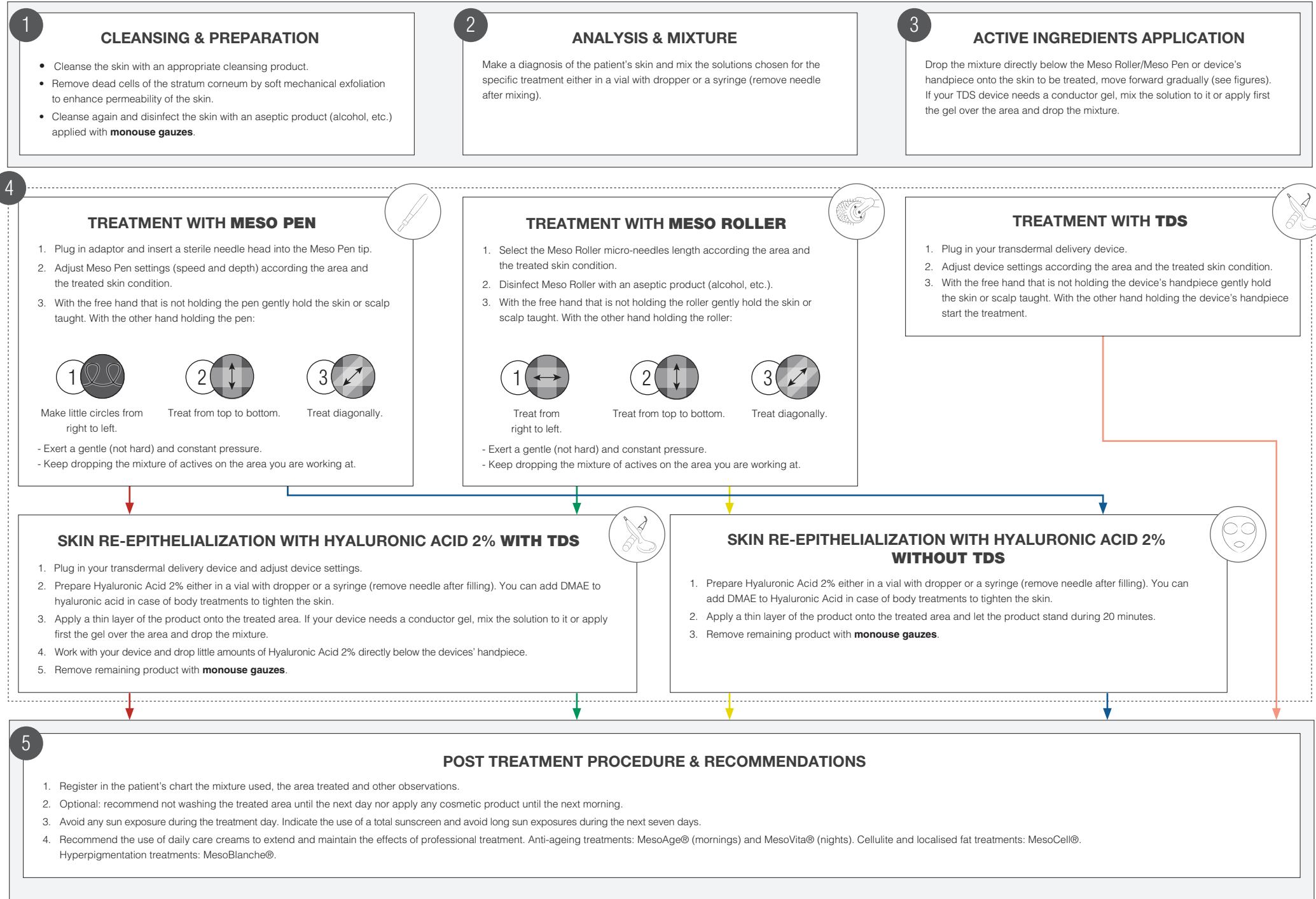
Sessions	<p>We recommend a 14 days interval between sessions with Meso Pen.</p> <p>We recommend a 7 days interval between sessions with Meso Roller.</p> <p>We recommend a 6 days interval between sessions with TDS.</p>
Quantity / area	Mixtures quantities can be changed according to the treated area and the system used.

TREATMENTS WITH MESOCEUTICALS®



WARNINGS

- See the applicable law in your country.
- We recommend getting a signed consent from each patient before starting the treatment.
- To avoid infections, make sure the device is not in touch with other objects before the treatment.
- Follow the hygienic standards of medical-aesthetic practice (disinfection, use of gloves, treatment room's proper cleansing, etc.).
- Examine skin's patient before treatment. Do not perform the treatment if the skin is infected, inflamed, injured or if there is any other anomaly.
- Make sure you check the seal, damage and term of validity of the active ingredients before starting the treatment.
- Meso Pen needles are for single use only. Meso Roller is for personal and not transferable use and should be disinfected before and after each treatment.
- Do not exert excessive pressure with Meso Pen nor and Meso Roller.
- Avoid the contact of Meso Pen and Meso Roller with lips and eyelids, as the skin is thinner in these areas.
- Do not perform this kind of treatments to underage people.
- Redness and burning/ itching mild sensation are absolutely normal reactions after the treatment with Meso Pen or Meso Roller. Duly inform the patient about it.
- Follow the instructions, contraindications and warnings supplied by the manufacturer of the device used for the treatment carefully.
- You should pay special attention to patients who have or have suffered from various diseases such as heart abnormalities, blood clotting problems, platelet abnormalities, anticoagulant therapy, facial cancer (past or present), chemotherapy, steroid treatment, facial skin diseases, diabetes and other chronic diseases. It is not recommended to use Meso Pen to pregnant or lactating women. It is also not recommended to apply a Meso Pen treatment to people who have undergone a botox treatment after 2 weeks minimally or 4 if they have some kind of filler.
- If rashes, allergic reactions or other unwanted effects occur, stop the treatment immediately and contact Institute BCN customerservice@institutebcn.com.

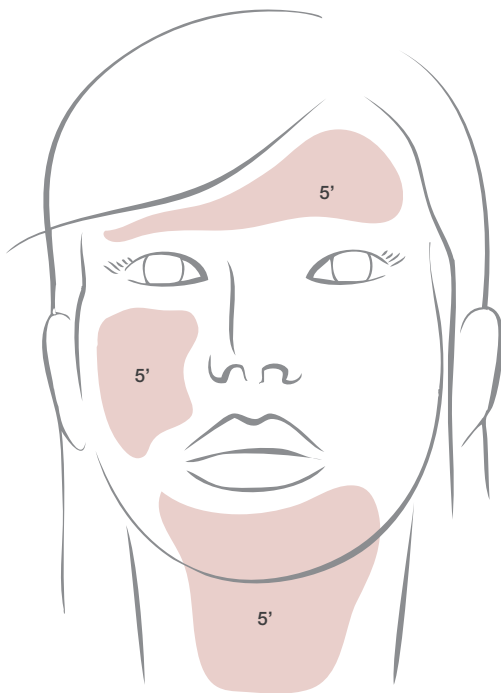
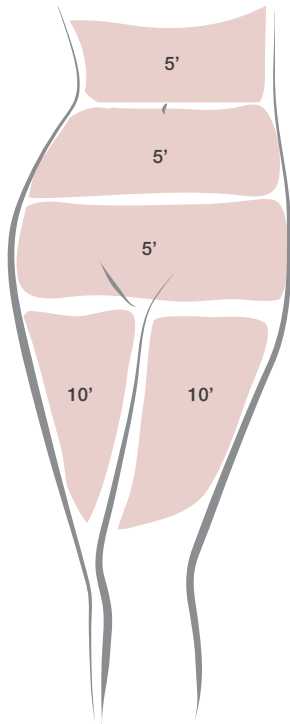


Vertical Legend:

- TDS (red arrow)
- Meso Roller (yellow arrow)
- Meso Roller + TDS (green arrow)
- Meso Pen (blue arrow)
- Meso Pen + TDS (red arrow)

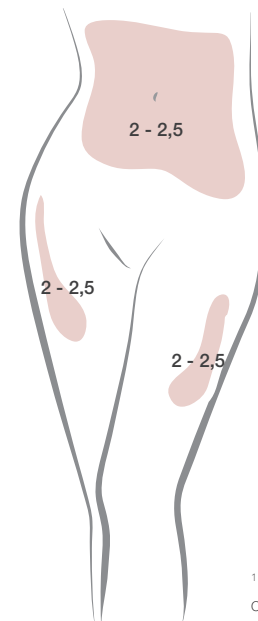
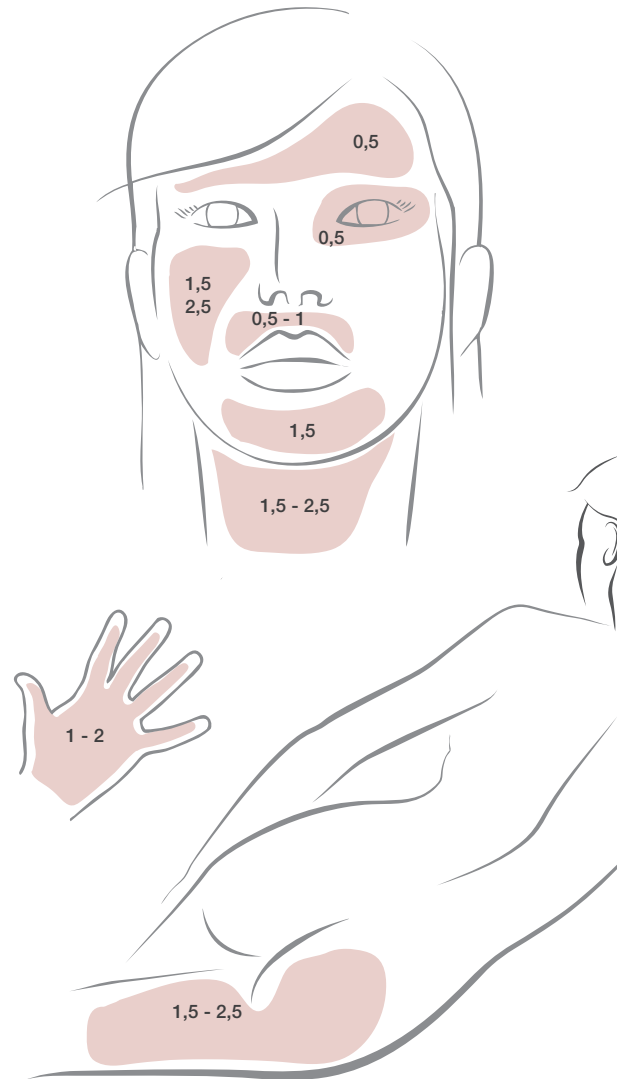
TDS

RECOMMENDED TREATMENT TIME PER AREA



MESO PEN

RECOMMENDED DEPTH PER AREA¹



¹ Depths over 2mm can only be applied by qualified medical professionals.