Regen Lab

CELLULAR MATRIX

A PRP & HA ALL IN ONE
CELLULAR MATRIX

“THE HYDRATION EFFECT OF HA BIOPOLYMER WITH THE STIMULATION PROPERTIES OF A-PRP GROWTH FACTORS”
Hyaluronic acid:-

- Hyaluronic acid is a naturally occurring linear polysaccharide, widely distributed in human tissues, where it constitutes the major part of the extracellular matrix. It is mostly found in epithelial, connective and neural tissues, and plays therefore important biological roles in tissue such as the skin and the articular cartilage.

- Because of its unique medical/physical properties, Hyaluronic acid is used in various medical applications, ranging from aesthetic medicine to orthopedics. Particularly, its high viscoelastic properties.
Hyaluronic Acid:-

- Major component of synovial fluid contributing to joint homeostasis.
- Molecular weight and concentration of HA decrease in extracellular matrix.
- Visco supplementation provides pain relief and improved function with 1-3 i.d. injections of HA.
- 25 years of clinical experience show benefits of HA last 6-12 months with 75% response rate.
- Network of HA chains constitutes ideal cell-friendly matrix (Gobbi 2009).
Hyaluronic Acid - 1 Molecule can bind to 400 molecules of Water
HA in the skin:

- Hyaluronic acid, as an important component of the skin, is a major contributor to the formation of a resilient gel-like ground substance that resists compressive forces.
- As for the synovial fluid, the amount of Hyaluronic acid in the skin progressively decreases with age, leading to the development of aging features and wrinkle formation and resulting in decreased tissue elasticity and hydration.
• Autologous reservoir of growth factors from patient’s own blood
• Proven role in the healing of soft and hard tissues (Marx 2004)
• Growing body of literature in the treatment of skin with 1-3 i.d. injections in studies with 6-12 month follow-up
• Mechanism of action comprises anti-inflammatory activity and activation of cell-signalling cascades (Barry 2001, Sevens 2004)
• Key role in new matrix synthesis for tissue regeneration
CELLULAR MATRIX PRODUCT CHARACTERISTICS:

• Contains 2ml of natural, non-crosslinked, fermented HA (1,550 kDa) at a concentration of 15 mg/ml (30 mg total) in addition to the thixotropic cell-separation gel.

• Provides 4ml of the A PRP-HA combination in a closed system with a single gesture from 4 ml of autologous blood.

• Immediate formation of a cell-friendly HA network in which platelets are dispersed.
CELLULAR MATRIX PRODUCT CHARACTERISTICS:

- Significantly higher viscosity than A-PRP
- Potential for increased residence time and growth factor release.
- Positive impact on cell migration and differentiation
- Treatment regimen of up to 3 i.d. injections
- 3 standard Regen pharmaceutical-grade glass tubes packaged in double blister, sealed with 2FS Tyvek® in accordance with ISO 11607.
CELLULAR MATRIX PREPARATION:

1. Collecting Whole Blood
2. Centrifugation
3. Re-suspension

- Anticoagulant
- Separator Gel
- HA
- Red Blood Cells
- A-PRP
- A-PRP & HA

4mL of blood
ONE STEP PROCEDURE ; CLOSED SYSTEM

CENTRIFUGE @ 3100 rpm for 5 minutes in Regen Centrifuge
CM-therapy in aesthetic medicine is indicated in:

- Skin aging – dryness (dehydrated skin), wrinkles, atrophicity, senile pigmentation, laxity, etc.
- Acne, post acne
- Hypotrophic scars, striae
- Skin restoration after laser procedures and pilling
Application of treatment:

- 30G ½-gauge 3-ml syringe for Nasolabial folds injection
- 27G-gauge 3-ml syringe for Mesotherapy of cheeks
- 1 ml of PRP-HA injected into each Nasolabial fold into superficial dermis. Injection volume is the same for each cheek (3ml)
- **Treatment duration** Three session of injections with 1 month intervals.
Absolute contraindications are:

- Marked thrombocytopenia
- Blood diseases
- Hypofibrinogenemia
- Hemodynamic instability
- Anticoagulant or antiaggregant treatment
- Oncological diseases (specially, skeletal system and blood)
- Sepsis
- Acute and chronic infectious diseases
- Autoimmune diseases, for example, lupus erythematosus, etc.
Relative contraindications:

- Chronic liver diseases in the exacerbation phase
- Chronic intoxication against the background of long-term use of alcohol, addictive drugs, an administration of potent medications
- Use of nonsteroidal anti-inflammatory drugs in little less than 2 days before drawing the blood, an injection of cortico-steroids in little less than 2 weeks before the procedure
- Pregnancy
- Inflammatory skin diseases, chronic dermatosis in the exacerbation phase, for example, psoriasis, atopic eczema, etc.
Injection technique for Nasolabial folds injection:
Mesotherapy
Clinical Results:
CELLULAR MATRIX, Video Link:

- You Tube video link for preparation of Cellular Matrix:
  https://www.youtube.com/watch?v=J5bZMMC-ZmU

- Practical Course on Cellular Matrix by Dr. Mario Goisis:
  https://www.youtube.com/watch?v=V-YhlCFyYcQ
Thank you.