



THE
NEW ERA
OF REGENERATIVE
MEDICINE



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RECEIVING CELLGENIC FLOW EXOSOMES

1. Cellgenic Flow

Exosomes is human tissue allograft that is received in a box on dry ice. You must use graft before the expiry date or transfer to a regular freezer. Use gloves with dry ice.



2. Move to a regular freezer and store at -20c or lower.



PREPARATION & DILUTION

The necessary materials for the procedure are:



- ✓ Cellgenic Flow Exosomes graft.
- ✓ A 3cc Syringe.
- ✓ 18 Gauge Needle.
- ✓ 22 to 27 Gauge Needle.
- ✓ The Dilutant of Choice.

ACCEPTABLE DILUTANTS:

- Normal Saline.
- 1% preservative free plain Lidocaine or Marcaine.
- Platelet rich plasma.

PROHIBITED DILUTANTS:

- Glycerol (eg. Grafton DBM).
- Glucose Solutions (eg. D5N5).
- Epinephrine.
- Lidocaine/Marcaine with preservatives.
- Lidocaine/Marcaine in joints.
- Chemical debridement (eg. Santy).

PREPARATION & MIXING

1. Remove the package from freezer or dry ice container.

Cut the package.

*Outside of vial is not sterile.



2. Defrost vial by holding still in hand for 3-5 minutes.

*Do not shake vial.



3. Fill syringe with dilutant. (typically, 1:1 ratio)

4. Draw Cellgenic Flow Exosomes into syringe with 18g needle.

5. Use a 22 to 27g needle for implantation.



AFTER CARE PATIENTS INSTRUCTIONS

If local anesthetic was used during the injection, patient may be sore the day of the procedure, this is NORMAL. The discomfort can last up to 3-4 days.

- TYLENOL for pain relief is OK to take as needed.
- HEAT for pain relief is OK.

The following are not allowed for 8 weeks after treatment:

- No Anti inflammatories.
- No Aspirin.
- Minimize immobilization.
- No icing.
- Protected Active Rehabilitation is recommended.



ORTHOPEDIC APPLICATION

RECOMMENDED JOINT DOSING

TENDON REPAIR DIRECTIONS

PREPARING THE PATIENT

When treating tendons, joints, fascia or facets it is recommended to use one of the following to initiate an inflammatory response:

- Extra Corporeal Shockwave Therapy.
- Radial Pulse Therapy.
- EPAt LASER – TaG, Diode.
- Coblation.



Alternatively, in the office you may use:

- Needling.
- Trephining.
- Movement.



Shoulder

1ml Flow
1:2 up to 1:4 dilution



Elbow

1ml Flow
1:1 dilution



Wrist, Fingers & Facets

(per joint)
0.25ml Flow
1:1 dilution



Hip

2ml Flow
1:2 up to 1:3 dilution



Knee

Stage 3: 0.5ml Flow
Stage 4: 1ml Flow
1:2 dilution



Ankle

1ml Flow
1:1 dilution



Subtalar & Midfoot

Joints
0.5ml Flow
1:1 dilution



MPJ's & Toes

(per joint)
0.25ml Flow
1:1 dilution

Implant under
Ultrasound guidance.

Direct into & around
Paratenon for:

- Tendinosis.
- Tendonopathy.
- Tenosynovitis.
- Small Cuff Tears.
- Bursitis.



INSTRUCTIONS FOR INTRAVENOUS ADMINISTRATION

- Remove the vial from ice container.
- Defrost vial by holding in hand for 2 min.
- Aspirate in a 3 ml syringe.
- Dilute in 100 ml of normal saline, and start IV at 20 drops per min.

For IV administration it can also be mixed with growth factors rich plasma.



PROTOCOL FOR OBTENTION OF GROWTH FACTORS RICH PLASMA

- Using a 21 g butterfly needle perform venipuncture and extract 50 to 55 ml of peripheral blood in the 6 tubes of 8.5 ml citrate included in the kit.
- Place the tubes in the centrifuge, set for centrifuging the samples at 2700 rpm for 7 minutes.
- Use the spinal needle 18 g and 20 ml syringe to aspirate the layer of platelet-rich plasma (PRP) plus buffy coat to obtain 8 ml of plasma.
- Add 1ml of calcium chloride 10%. Cap the syringe and shake gently to homogenize the mixture of calcium and PRP.
- Place on the Dual Photoactivator LED for 10 minutes.
- Incubate at 37 C until clot retraction, which can take up to 20 minutes.
- Aspirate growth factors rich plasma and discard the clot.
- 8 ml of Growth factors Rich Plasma can be added to the 100 ml of exosomes and saline mixture, to be administered at 20 drops per minute.

FROZEN FACIAL ADMINISTRATION

Microneedle the face first, then apply Cellgenic Flow Exosomes topically.

Can be done with or without PRP. Follow instructions for PRP preparation. 4cc PRP recommended for this procedure.

Hyaluronic acid serum recommended for this procedure.

1cc Cellgenic Flow Exosomes to be mixed with either 4cc PRP or Hyaluronic Acid Serum for topical application of facial area, neck and décolletage.

PROCEDURE & APPLICATION

- ✓ OBTAIN CONSENT.
- ✓ Clean desired area with Hibiclens.
- ✓ Apply BLT Cream, wait about 30-45 mins before application of therapy.
- ✓ IV infusion of Vit C is recommended during the wait time.
- ✓ Remove BLT Cream with Hibiclens.
- ✓ Apply Hyaluronic acid serum or PRP with a fan brush to desired areas.
- ✓ Stimulate the face with a Microneedle Pen achieving skin erythema, changing depth depending of facial areas, most recommended:
 - Forehead and orbital area depth: 0.3mm – 0.5mm.
 - Upper Lip area depth: 1mm – 1.5mm.
 - Cheeks, Chin, Neck and décolletage area depth: 1.3mm – 2mm.
- ✓ Thaw and prepare 1ml of Cellgenic Flow Exosomes.
- ✓ Use sterile gloves for application.
- ✓ Place Cellgenic Flow Exosomes solution onto desired areas and glide gently into the skin, don't rub, just apply and glide.
- ✓ Let the patient rest for 10 minutes.
- ✓ Provide discharge instructions. Instruct them NOT to wash the face, neck or décolletage that day and night; don't use make up or creams that day and night. Go back to normal routine next day.
- ✓ Complete the appropriate paperwork, attach product sticker to Consent form, fill out the tissue tracking card and send back to laboratory.

FLOW EXOSOMES FROZEN FACELIFT

Sub-dermal and Intra-dermal injections of Cellgenic Flow PRP +/- Dermal fillers.

1cc-2cc of Cellgenic Flow recommended for this procedure.

Procedure requires a minimum of 4cc of PRP or Normal Saline.

Can be done with or without Dermal fillers.

PROCEDURE & APPLICATION

✓ OBTAIN CONSENT.

✓ Clean desired area with Hibiclens.

✓ Apply BLT Cream, wait about 30-45 mins before application of therapy.

✓ Follow instructions for PRP preparation.

✓ IV infusion of Vit C is recommended during the wait time.

✓ Remove BLT Cream with Hibiclens.

✓ Microneedle the entire face. This will even the entire face, then do specific injections for areas that need extra work.

✓ Thaw and prepare 1ml of Cellgenic Flow. Separate 0.3ml-0.5ml of Cellgenic Flow Exosomes in a sterile syringe.

✓ Apply remaining Cellgenic Flow Exosomes topically, this will even the entire face, then do specific injections for areas that need extra work.

✓ If fillers are being used, inject fillers at this time into desired areas- see Diagram 1.

✓ Combine 0.3ml- 0.5ml of Cellgenic Flow with 4cc PRP or Saline Solution.

✓ Inject Flow/PRP into the same areas as fillers- EXCEPT lips.

✓ Inject remaining PRP into additional desired areas - see Diagram 2.

✓ Let the patient rest for at least 10 minutes.

✓ Provide discharge instructions. Instruct them NOT to wash the face, neck or décolletage that day and night; don't use make up or creams that day and night. Go back to normal routine next day.

✓ Complete the Appropriate paperwork, attach product sticker to Consent Form or Patient File.

✓ Fill out the Tissue Tracking Card, attach product sticker to Card and mail back to lab.

FLOW EXOSOMES FROZEN FACELIFT

FILLERS. DIAGRAM 1



- ✓ ZYGOMATIC ARCH
- ✓ NASOLABIAL FOLDS
- ✓ MARIONETTE LINES
- ✓ LIPS

FLOW EXOSOMES WITH PRP OR NORMAL SALINE

DIAGRAM 2



THE FOLLOWING
AREAS MAY BE
SUBDERMALLY
INJECTED IN
ADDITION TO THE
AREAS INJECTED IN
DIAGRAM 1.

FLOW EXOSOMES HAIR RESTORATION

Topical application and Subdermal Injections of Cellgenic Flow Exosomes followed by a Microneedle Pen procedure.

Can be done with or without PRP. Follow instructions for PRP preparation. 4cc PRP recommended for this procedure.

1cc Cellgenic Flow Exosomes to be applied topically or mixed with 4cc PRP.

Red light laser treatments are recommended to be used with these treatments.

Consider using a small vibrating device on scalp near injection sites to distract from pain.

PROCEDURE & APPLICATION

- ✓ OBTAIN CONSENT.
- ✓ Clean desired area with Hibiclens.
- ✓ Apply BLT Cream, wait about 20-30mins before application of therapy.
- ✓ Perform lidocaine block.
- ✓ Follow instructions for PRP preparation.



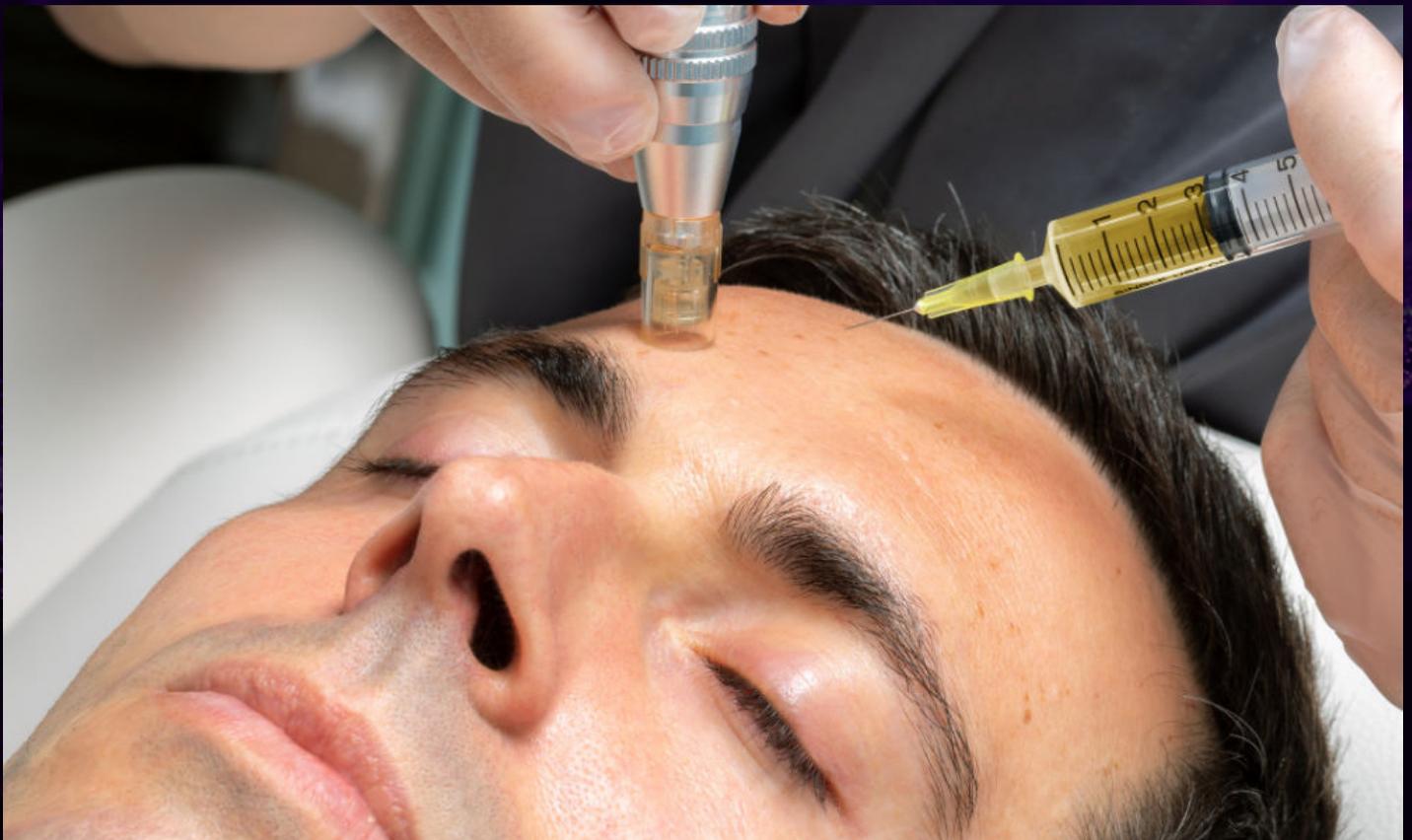
- ✓ IV infusion of Vit C is recommended during the wait time.
- ✓ Remove BLT Cream with Hibiclens.
- ✓ Thaw and prepare 1ml of Cellgenic Flow Exosomes.
- ✓ Mix with 4cc of PRP.
- ✓ Inject and divide 3cc of mixture in a grid pattern approx 0.25inches apart.
- ✓ Microneedle the desired area.
- ✓ Using sterile gloves apply the remaining 2cc of mixture topically.
- ✓ Provide discharge instructions.
- ✓ Complete the appropriate paperwork, attach product sticker to Consent form, fill out the tissue tracking card and send back to laboratory.



FLOW EXOSOMES SCARS PROTOCOL

PROCEDURE & APPLICATION

- ✓ OBTAIN CONSENT.
- ✓ Clean desired area with Hibiclens.
- ✓ Apply BLT Cream, wait about 20-30mins before application of therapy.
- ✓ Remove BLT Cream with Hibiclens.
- ✓ Thaw and prepare 1ml of Cellgenic Flow Exosomes.
- ✓ Mix 1ml of Cellgenic Flow Exosomes with 1cc of 0.9%NS.
- ✓ Inject into the appropriate sub dermal area.
- ✓ Provide discharge instructions.
- ✓ Complete the appropriate paperwork, attach product sticker to Consent form, fill out the tissue tracking card and send back to laboratory.



WOUND CARE FLOW EXOSOMES INSTRUCTIONS

PHYSICIAN'S APPLICATION GUIDE

- ✓ Wash area with antibacterial soap or topical i.e. betadine, or similar.
- ✓ Alcohol wash and block the area with lidocaine or equivalent if patient is not neuropathic.
- ✓ Administer Local anesthetic block if necessary.
- ✓ Debride the wound, to create an inflammatory signal.
 - Insure patient is not taking any anti-inflammatory medications
 1. Aspirin, Naprosyn, Ibruprofen
 2. They can take baby aspirin if necessary, for cardiac issues
 - Debride especially the margins, get free bleeding, create trauma-inflammatory signal.
 - Do a wound wash when complete.
 - Take pictures with a measure either ruler or use auto measure device i.e. EKare, or wound zoom.
- ✓ Cover wound up to 8mm wider than wound margins.
 - Use Tegederm, optsite or hydrogel type dressing to cover wound.

Prepare 1 or 2ml of Cellgenic Flow Exosomes.

 - Prepare 3ml syringe, 18g and 27g needles.
 - Sterile preservant free Saline
 1. draw up 1-1.5ml of saline in the 3ml syringe.
 - Remove from dry ice shipping container.
 1. Let vial sit at room temperature for at least 5 minutes or hold vial in your fist, do not shake or turn upside down.
 - Once contents of vial are defrosted.
 1. Open vial cap.
 2. Aspirate Cellgenic Flow.
 - Remove 18g needle from syringe and replace with 27g needle 1.5inch in length is preferable.
- ✓ Look at wound and visualize the face of the clock, wash the injection sites with alcohol prep.
 - Start injecting at the noon position and go medial and lateral from that position.
 - Then the 3o'clock position superior and inferior.
 - Then the 6o'clock.
 - Then the 9o'clock.

WOUND CARE FLOW EXOSOMES INSTRUCTIONS

- Working your way around the wound.
- Provide discharge instructions.
- Complete the appropriate paperwork, attach product sticker to Consent form, fill out the tissue tracking card and send back to laboratory.

INSTRUCTIONS FOR PATIENT AT HOME AFTER ALLOGRAFT APPLICATION

- ✓ 24 hours after application of Cellgenic Flow Exosomes:
 - Remove the dressing from the treated wound area.
 - Wash with wound wash using gauze moist with wound wash.
- ✓ If patient is susceptible to pseudomonas or MRSA
 - Wash wound area with a 25% Dakins solution.
 - Provide Rx or patient can buy sterile water and mix 1liter of sterile water with 5ml of plain bleach, to make their own Dakins solution.
 - Using gauze moist with Dakins wash the wound area.

- ✓ Then repeat saline based wound wash.
- ✓ Cover wound with non-stick dressing (telfa type dressing), and wrap with kling, or coban, type dressing.
- ✓ Patient can shower and bathe prior to dressing change.
- ✓ Repeat dressing change every 24 hours, unless there is heavy exudate (drainage), if there is heavy drainage, then repeat every 12 hours or use a plain alginate.
- ✓ Follow-up with clinic / doctor at 10-14 day intervals.
- ✓ Repeat process. Typically 2 doses will close most wounds, except large venous stasis wounds, and multiple autoimmune induced wounds.



SEXUAL REJUVENATION- XYSHOT- MALE

Can be done with or without PRP.

Follow instructions for PRP preparation.

4cc PRP recommended for this procedure or 4cc 0.9%NS.

1cc Cellgenic Flow Exosomes to be mixed with either 4cc PRP or 4cc 0.9%NS.

PROCEDURE & APPLICATION

✓ OBTAIN CONSENT.

✓ Apply BLT Cream to penis and glans areas, wait about 20-30mins.

✓ Follow instructions for PRP preparation.

✓ IV infusion of Vit C is recommended during the wait time.

✓ Thaw and prepare 1ml of Cellgenic Flow Exosomes.

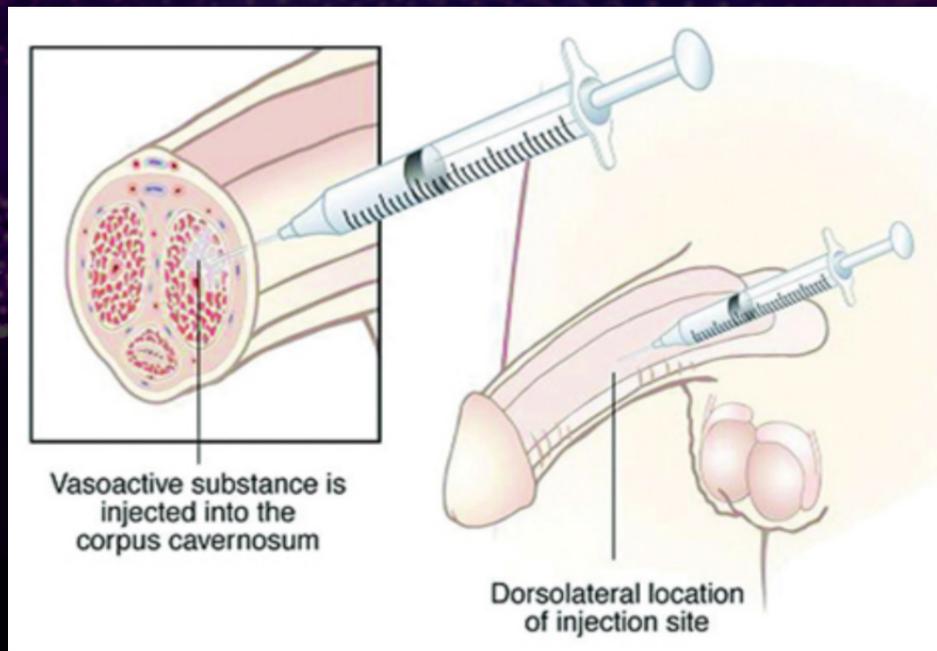
✓ Mix 1ml of Cellgenic Flow Exosomes with 4cc of PRP or 0.9% NS.

✓ Inject into appropriate areas.

✓ Provide discharge instructions.

✓ Complete the appropriate paperwork, attach product sticker to Consent form, fill out the tissue tracking card and send back to laboratory.

Note: Better outcomes result if shock wave therapy is performed before XY shot (1-3 sessions) and patient is sent home with pump for daily stimulus.



SEXUAL REJUVENATION- XXSHOT- FEMALE

Can be done with or without PRP.

Follow instructions for PRP preparation.

4cc PRP recommended for this procedure or 4cc 0.9%NS.

1cc Cellgenic Flow Exosomes to be mixed with either 4cc PRP or 4cc 0.9%NS.

PROCEDURE & APPLICATION

✓ OBTAIN CONSENT.

✓ Apply BLT Cream to penis and glans areas, wait about 20-30mins.

✓ Follow instructions for PRP preparation.

✓ IV infusion of Vit C is recommended during the wait time.

✓ Perform lidocaine block to clitoris.

Thaw and prepare 1ml of Cellgenic

✓ Flow Exosomes.

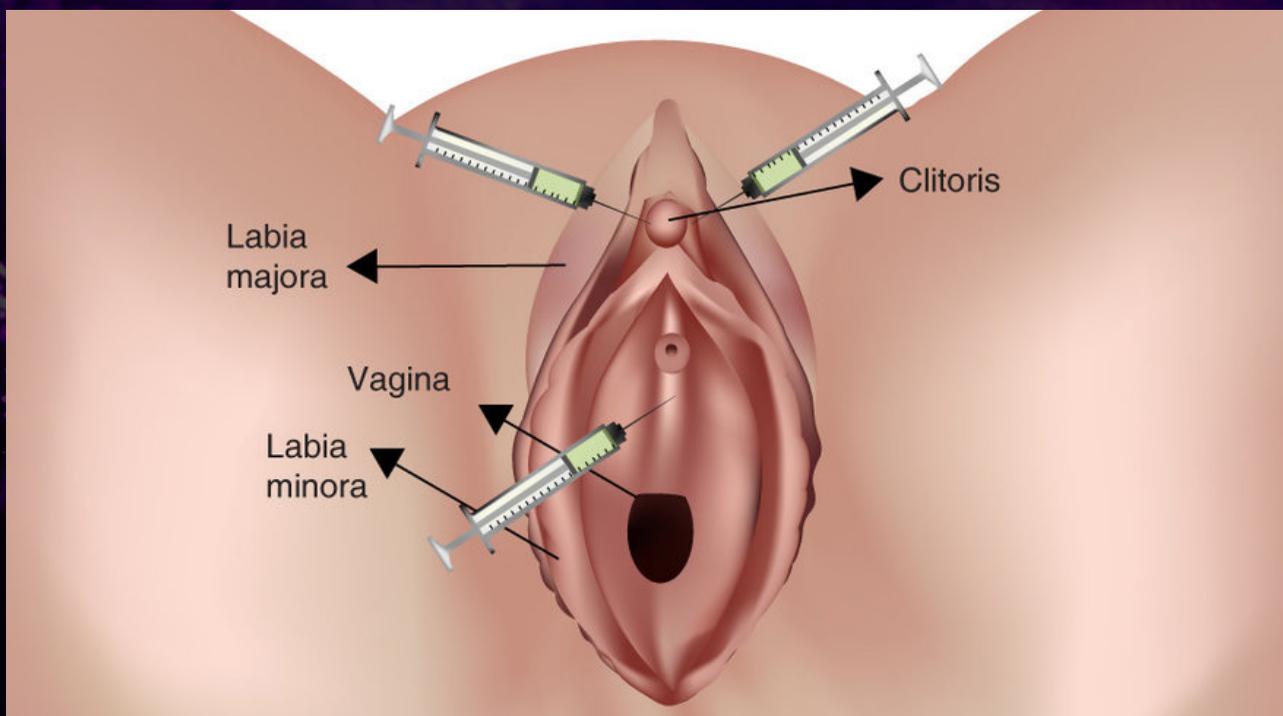
Mix 1ml of Cellgenic Flow Exosomes

✓ with 4cc PRP or 4cc of 0.9% NS.

✓ Inject into appropriate areas.

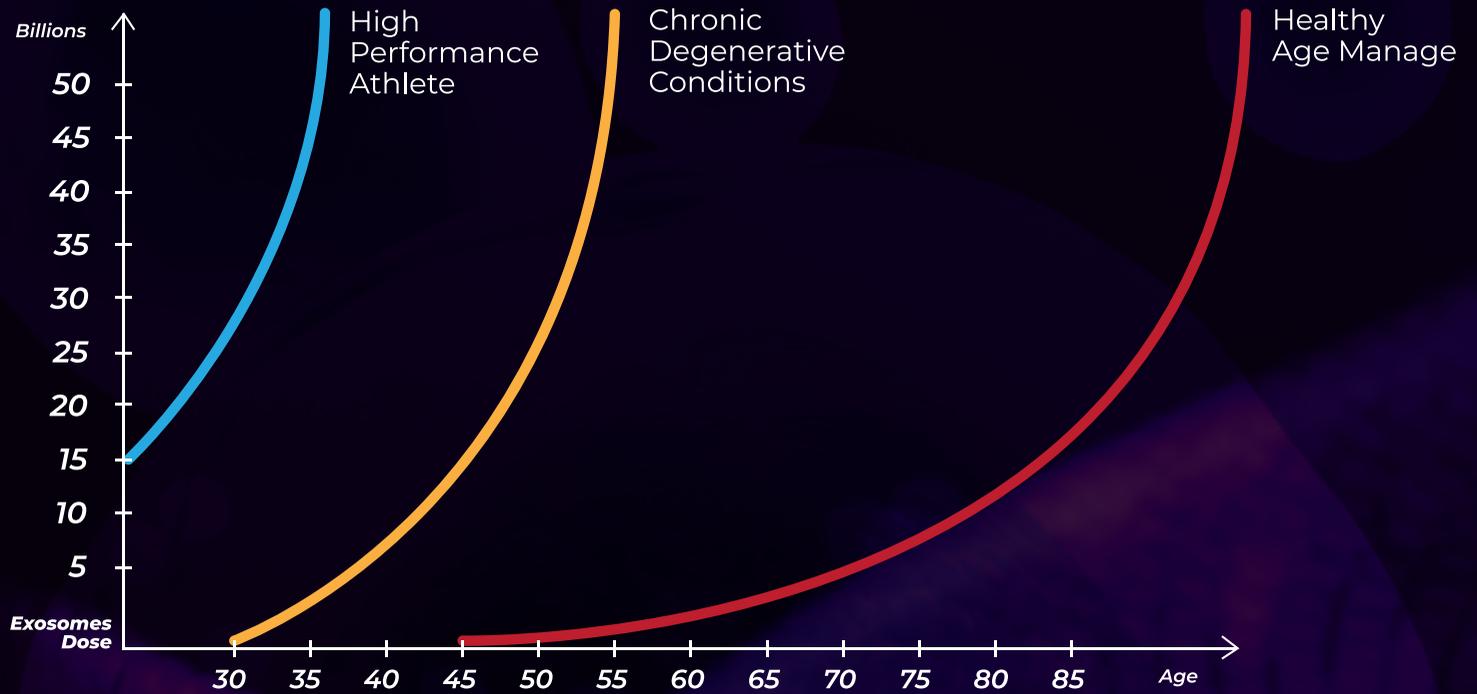
✓ Provide discharge instructions.

✓ Complete the appropriate paperwork, attach product sticker to Consent form, fill out the tissue tracking card and send back to laboratory.



CELL THERAPY PRODUCTS TREATMENT CHART

CELLGENIC EXOSOMES RECOMMENDED DOSES



AUTOLOGOUS

ALLOGENEIC

	AUTOLOGOUS				ALLOGENEIC	
	ADSC WITH COLAGENASA 	GCELL 	BMAC 	PRP 	EXOSOMES 	MC
HAIR	2	1	3	4	+	1
JOINTS	2	-	1 (-60)	+	+	1
IV	1	-	2	-	+	1
EAD	2	-	1 (-60)	3	+	1
SCARS	1	2	+	3	+	1
WOUNDS	2	-	1 (-60)	+	+	1
E (FACE)	2	1	-	+	1	-
E (BODY)	1	2	-	+	1	-

LEGEND

- 1st Option
- 2nd Option
- 3rd Option
- 4th Option
- N/A
- + Plus Exosomes

NOTE: This table is not intended to substitute medical expertise and/or diagnosis and therapeutic decision making. Medicine is not an exact science and as such there are many factors that could influence a treatment plan. That being said, this is merely a suggestion considering patient health status of the most advisable biologic product to use in each condition.

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Clinical Support & Ordering Information

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