MCT EXOSOMES

The power of injectable autologous exosomes





Regeneration starts with MCT System

MCT is a certified medical device that enhances autologous products such as PRP, SVF, or stem cell concentrates while releasing the patient's exosomes—all in a single session. Using the photothermal biomodulation technique, it extracts and maximizes the number of exosomes available from the patient: MCT System provides you with high-quality MCT Exosomes, naturally.



MCT EXOSOMES

Safe, injectable, and autologous naïve exosomes.

MCT Exosomes extracted by photothermal biomodulation. Patient-specific and ready to inject for effective regeneration.

Autologous

Exosomes are tiny extracellular vesicles, that play a crucial role in cell-to-cell communication, participating in various physiological processes. They deliver signals, such as microRNAs and growth factors, to promote regenerative effects at cellular level.

Injectable

Safe

Certified

Effective

Science-based

ATP

ATP

MCT System

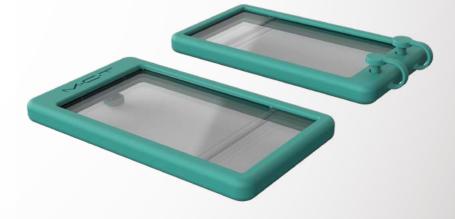
A medical device that delivers the benefits of photothermal biomodulation to the doctor's office.



MCT Unit[®]

- Electromagnetic and thermal energy techniques for enhancing autologous products.
- Precise wavelength, temperature and time control.
- One-touch presets for: PRP, Cells and Exosomes.
- User-friendly interface.

MCT Kit[®]



- Patented device developed for photothermal conditioning.
- Medical grade polymer for optimal scattering and transmittance.



- Excellent surface/volume energy exposure ratio for effective target stimulation.
- Up to 10 mL of any autologous sample.





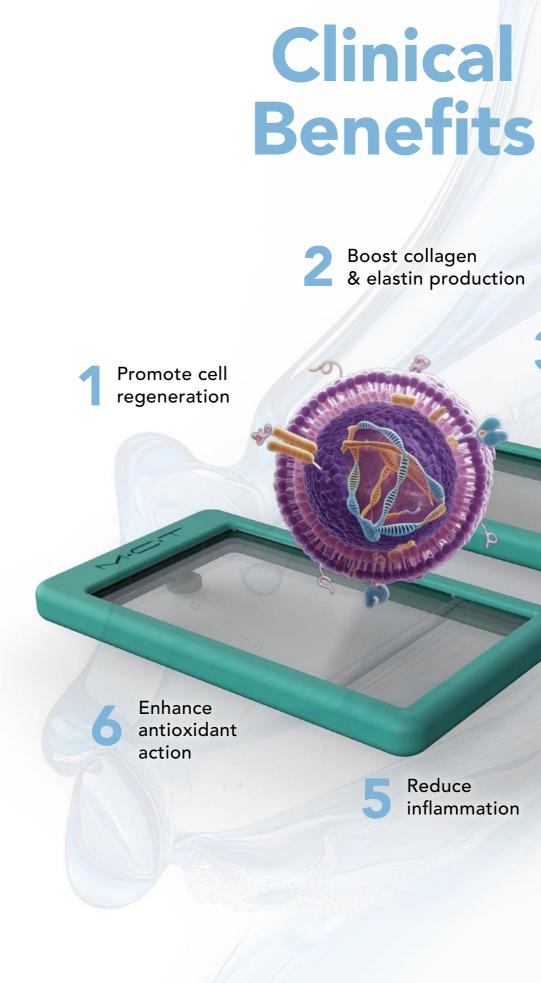
Obtain the autologous material

Step 02 Insert it into

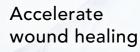
the MCT Kit®



Set up the MCT Unit®



Boost collagen **&** elastin production



Rejuvenate the skin

Reduce inflammation

Doctors use MCT Exosomes:



Aesthetics

Face, neck, décolleté, and hand rejuvenation, acne scarring



Dermatology

Psoriasis, rosacea, hypo and hyperpigmentation



Gynecology

Lichen sclerosus, vaginal rejuvenation



Regenerative medicine

Chronic non-healing wounds (diabetic foot ulcers), acute wounds, burns, post-surgical recovery



Orthopedics

Osteoarthritis, musculoskeletal, injuries

One solution, multiple medical specialities.



Trichology

Androgenetic alopecia, alopecia areata, seborrheic dermatitis

Clinical Success Stories

Psoriasis Vulgaris

Psoriasis vulgaris, the most common form of psoriasis, is a chronic autoimmune skin condition causing red, scaly, and often itchy plaques, commonly on elbows, knees, scalp, and lower back. Lesions occur due to an accelerated skin cell turnover caused by immune system dysregulation. The patient diagnosed with psoriasis vulgaris, presenting three distinct plagues, underwent three sessions of MCT Exosomes derived from PRP. Each treatment was spaced three weeks apart, with no additional therapies or emollients used during the treatment.



Androgenetic Alopecia & Seborrheic Dermatitis

Androgenetic alopecia is caused by sensitivity to dihydrotestosterone leading to gradual thinning or balding. Seborrheic dermatitis is a chronic skin condition causing red, scaly and greasy patches on areas with high oil production. The patient diagnosed with both conditions underwent three sessions of MCT Exosomes derived from PRP, with a three-week interval between sessions.



BEFORE

AFTER



Before first treatment session

Six weeks after last treatment session

Alopecia Areata

Alopecia areata is an autoimmune disorder that causes sudden, patchy hair loss on the scalp, face and other body areas. It occurs when the immune system mistakenly attacks hair follicles, disrupting the hair growth cycle. The patient diagnosed with alopecia areata underwent three sessions of MCT Exosomes derived from PRP, with a three-week interval between sessions.

AFTER

BEFORE



Before first treatment session



One month after last treatment session

Hypopigmentation Due to Nerve Neuralgia

Hypopigmentation caused by nerve neuralgia is a loss or reduction of skin pigmentation in areas affected by nerve damage or chronic nerve pain. Neuralgia, which results from irritation or injury to a nerve, can disrupt the normal function of the nerve fibers, including those that regulate melanocytes. This disruption reduces melanin production in the affected area, leading to lighter skin patches. The patient with hypopigmentation following post-facial nerve neuralgia underwent three sessions of MCT Exosomes obtained from PRP, spaced three weeks apart.

Wound Healing

A laceration wound is a tear or cut in the skin or underlying tissues caused by trauma from a sharp or blunt object. The patient with a laceration wound on the skin area above the wrist underwent three treatment sessions of MCT Exosomes obtained from PRP, leaving a five-day interval between sessions.



session

Riehl Melanosis

Riehl melanosis is a rare form of pigmented contact dermatitis that presents as hyperpigmentation, primarily affecting the face and neck. It is characterized by dark brown to grayish pigmentation, often with a reticulated (net-like) pattern, and is typically associated with chronic exposure to certain allergens or irritants. These can include cosmetics, fragrances, hair dyes, or ultraviolet (UV) light. The patient diagnosed with Riehl melanosis underwent three sessions of MCT Exosomes obtained from PRP. leaving a three-week interval between sessions.



Before first treatment session



Three month after last treatment session

AFTER 3 MONTHS



Follow-up

REFORE



Before first treatment session

AFTER



One month after last treatment session

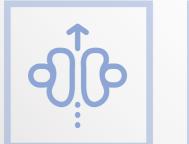
MCT System leverages the patient's own biology:



IMPROVES CELLS AND PRP PERFORMANCE

SIMULATES 2x ATP PRODUCTION **GENERATES 3x GROWTH** FACTORS

RELEASES NAÏVE AUTOLOGOUS EXOSOMES







Why Choose MCT Injectable **Autologous Exosomes for Safe, Deep, and Effective Results**

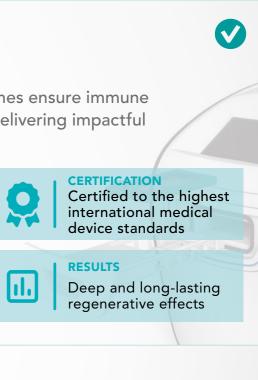
MCT EXOSOMES Medical level

MCT injectable autologous exosomes ensure immune compatibility and proven results, delivering impactful regeneration for your patients.

\odot	SOURCE Same patient	
	USE Injectable	

Cosmetic level





The Science Behind of MCT System

	KEYPOINTS	KEYPOINTS
Biophysical Journal Article Exosome secretion kinetics are contro	• Multivesicular endosome (MVE) fusion with plasma membrane is a constitutive process through which exosomes are released.	 Mesenchymalstem cells (MSC) constitutionally express opsins for light responsiveness.
temperature		 Blue light promotes proangiogenic activity of
Anarkali Mahmood, ¹ Zdenék Otruba, ¹ Alan W. Weisgerber, ¹ Max D. Palay, ¹ Meloc	• This process is enhanced in the presence	MSC Exosomes in vitro and in vivo.
Broderick L. Bills, ² and Michelle K. Knowles ^{1,2,*} ¹ Department of Chemistry and Biochemistry, University of Deriver, Deriver, Colorado and ³ Molecular as University of Deriver, Conver, Colorado		
ABSTRACT When multivesicular endosomes (MVEs) fuse with the plasma membrane, exo cellular space where they can affect other cells. The ability of exosomes to regulate cells n whether they remain attached to the secreting cell membrane. The regulation and kinetics characterized, cut probes for directly imaging single MVE fusion events have allowed for vis-	earby or further away depends on of exosome secretion are not well	 Therapeutic effects of exosomes are improved by blue light simulation.
process. In particular, the design of an exosome marker with a pH-sensitive dye in the midd has facilitated studies of individual MVE fusion events. Using TIRF microscopy, single fusion	Exosome cargo release is temperature-	
cells held at 23-37°C and events were identified using an automated detection algorithm. Stat always and a decrease in temperature was accompanied by decrease in the rate of content events. The loss of CD65-pHucoin fluorescence was measured at fusion sites and fit with a st	loss and in the frequency of fusion dependent, as it modulates docking, fusion	
with most events requiring two components and a plateau because the loss of hurrescence pret the kinetics, tusion events were simulated as a localized release of thetherediuntethered trane diffusion of CD63. The experimentally observed decay required three components in the	exosomes coupled with the mem- e simulation: 1) free exosomes, 2)	

KEYPOINTS

• Blood is one of the richest and most accessible sources of exosomes, with platelet-derived plasma comprising most of blood extracellular vesicles (EVs).

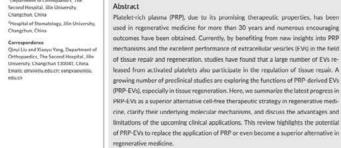
CD63 membrane diffusion from the endosomal membrane into the plasma membrane, and 3) tethered exosomes. Modeling with slow diffusion of the tethered exosomes (0.0015-0.004 µm²/s) accurately fits the experimental data for all temperatures. How ever, simulating with immobile tethers or the absence of tethers fails to replicate the data. Our model suggests that exosome release from the fusion site is incomplete due to postfusion, membrane attachment.

- Platelet exosomes are enriched with essential biomolecules: growth factors, cytokines, chemokines, lipids and nucleic acids, as well as anti-inflammatory and pro-angiogenic factors.
- These exosomes play key roles in angiogenesis, maintaining vascular integrity, and regulating inflammation, making them valuable for tissue regeneration applications.



Platelet-rich plasma-derived extracellular vesicles: A superior alternative in regenerative medicine?

Jiuping Wu¹ | Yingxin Piao² | Qinyi Liu¹ | Xiaoyu Yang¹



STATES A	Contents lists available at ScienceDirect Etamose Etamose
A CARLES	Pharmacological Research
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Review	
The novel mechanis	sms and applications of exosomes in dermatology and
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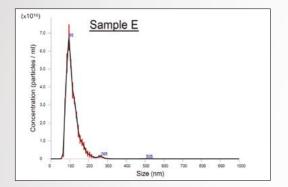
KEYPOINTS

- Exosomes from stem cells and other cell types offer therapeutic potential in regenerative medicine and aesthetics.
- Considered biochemical cocktails, exosomes play a key role in skin physiology and pathology.
- Their main applications in cosmetic dermatology are scar prevention and reduction, pigmentation regulation, and hair growth.

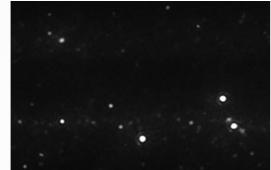
Our R&D: MCT Exosomes

Quantifying MCT Exosomes by

Nanoparticle Tracking Analysis (NTA)



NTA analysis of MCT Exosomes. Representative particle size and concentration measurements of MCT Exosomes obtained from PRP. Error bars indicate +/-1 standard error of the mean.

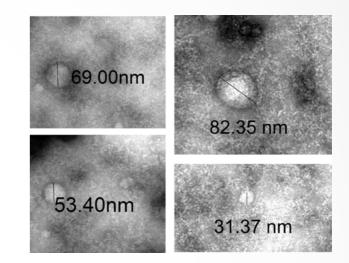


Representative video image of MCT Exosomes in motion captured using NTA with a light-scattering detection model.*

Mean size of MCT **Exosomes** measured by NTA: 109,2 nm.

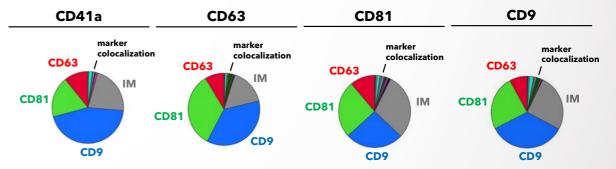
A closer look: MCT Exosomes revealed under Transmisson Electron **Microscope**

MCT Exosomes were precisely characterized using high-resolution Transmission Electron Microscopy (TEM). Images revealed their distinct spherical morphology, clearly differentiating them from other extracellular vesicles, and enabled accurate size measurement. The bilayer membrane structure was also observed, underscoring MCT Exosomes' stability and efficient cargo encapsulation. TEM analysis also highlighted the exceptional purity of the sample, ensuring their potential for advanced therapeutic applications.

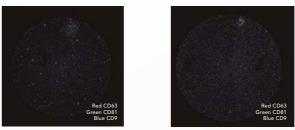


MCT Exosomes verified by science and defined by protein markers

The single-particle interferometric reflectance imaging sensor (SP-IRIS) technique confirmed the presence of specific protein exosome markers (CD41a, CD63, CD81 and CD9) on MCT Exosome's surface. These findings underscored the reliability of MCT Exosomes for therapeutic applications, as their surface protein markers aligned with the gold standard in exosome identification.



Fluorescence profiling of colocalization of tetraspanins CD63, CD81, CD9, IM (immunofluorescence), along with their combinations. Analysis used CD41a, CD63, CD81, and CD9 as capture probes.



Images of interferometric imaging chips obtained with three capture antibodies against the exosomal markers CD81, CD63 and CD9 to evaluate the MCT Exosome's tetraspanin expression profile. Images provided quantitative and qualitative insights into the expression and distribution of key tetraspanins, confirming the identity and purity of MCT Exosomes.

One kit produces 299,3 billion exosomes/mL



their Brownian Motion to calculate size and quantity. Discover MCT Exosomes under NTA laser:



Transmission Electron Microscopy images of MCT Exosomes obtained from Platelet-Rich Plasma. Exosomes were negatively stained with uracyl acetate. Cup-shaped structures with a lipid bilayer and 30-150 nm size were identified as exosomes.



Exceptional clinical outcomes. Delivered with confidence.

- **High profitability**
- **User-friendly**
- Therapeutical versatility
- **Standardized protocols**
- **Globally trusted**
- **Evidence-based**

Safe and effective. **Focused on better** patient care.



- Natural product
- Long-lasting effects

MCT

Meta Cell Technology

- Safety granted
- No chemical additives

The Power of Injectable Autologous Exosomes

IMMUNE COMPATIBILITY

Derived from the patient's own cells, autologous exosomes null the risk of immune rejection, ensuring safety and effectivity.

ENHANCED CELLULAR REGENERATION

Rich in growth factors and bioactive molecules, autologous exosomes stimulate cell regeneration and tissue repair, promoting faster recovery and healing.

ANTI-INFLAMMATORY BENEFITS

Autologous exosomes help reduce pro-inflammatory cytokines, which decreases tissue inflammation and promotes the recovery of physiological behavior.

Autologous exosomes stimulate collagen and elastin production, enhancing skin texture and reducing wrinkles. This makes them ideal for advanced anti-aging solutions, especially when combined with laser treatments.

ANGIOGENESIS

Exosomes encourage the formation of new blood vessels, improving oxygen and nutrient supply to damaged tissues, accelerating recovery.

GUARANTEED VIABILITY

Using autologous exosomes ready for injection avoids the complexities of storage and conservation, ensuring a pure and more effective therapeutic product.

ANTI-AGING POTENTIAL

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Notes

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At Meta Cell Technology, we provide regenerative medicine professionals with high-quality therapeutic systems to harness cellular power. As an ISO 13485-accredited company, we adhere to international standards, ensuring reliable delivery from our facility near Barcelona, Spain, through our global distributor network.



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