

January 2026

MODULATING IMMUNE RESPONSE THROUGH ADVANCED CELL THERAPEUTICS

(RESTEM

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Company Overview

Private



Founded in 2018, the company has established a strong foundation in the **field of cell-based therapeutics** and developed a **robust patent portfolio**

Multi-asset



3 proprietary platforms, with the common focus of **modulating the immune system** and treating **inflammatory-associated diseases**

Late-stage



Commencing in 2026 **pivotal Phase 2/3 trials** in Idiopathic Inflammatory Myopathy (IIM) and refractory Rheumatoid Arthritis (RA). Successfully completed multiple INDs and eINDs across **11 different indications**, demonstrating initial **clinical benefits** and an excellent **safety profile**.

Competitive Advantages



Breaking through the key limitations of cell therapeutics with **cost-effective manufacturing, enhanced scalability** and **minimized toxicity**.

Platform Overview

Restem-L *Autoimmunity*

Umbilical-lining Modified Progenitor Cell (UMPC) product, developed using a patented conditioning process, to target key inflammatory pathways in autoimmune diseases

Restem-X *Orthopedics*

Secretome-based product, functionally optimized to deliver ground-breaking therapeutic properties in orthopedic treatments

aNK *Immuno-senescence*

Activated natural killer (aNK) cells, uniquely designed to reverse immuno-senescence and combat aging-related disorders

Experienced Management Team & Advisory Board

Management Team



Andres Isaias

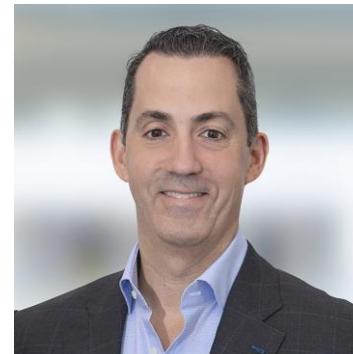
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*Chief Development &
Scientific Officer*



Keith March, MD, PhD
Chief Medical Officer



Brian Pla
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Nelson Cabatuan
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Division Chief, Blood and Marrow
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Deputy Director and Chief of
Blood & Marrow Transplant and
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**Baptist Health
South Florida**



**Memorial Sloan Kettering
Cancer Center**

Jonathan Krant, MD

Chief of Rheumatology Division,
Memorial Health System, and
former Chairman of Medicine,
Adirondack Health Systems



MEMORIAL HEALTH SYSTEM



ADIRONDACK HEALTH
Better Health, Better Lives

Advancing Pipeline of Cell Therapeutics

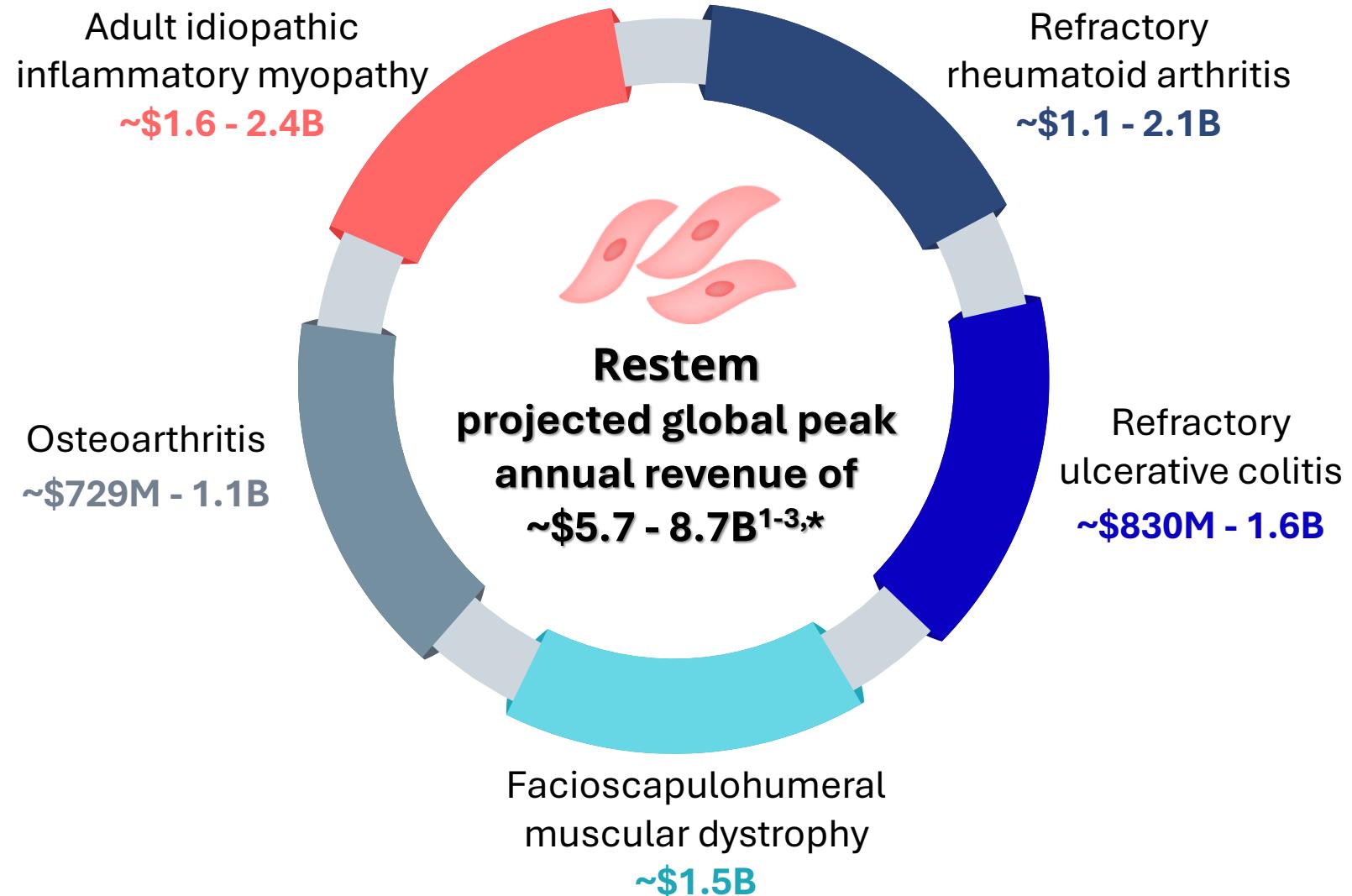
	Program	Indication	Preclinical	Phase 1	Phase 2	Phase 3	Status
UMPC	Restem-L: <i>Autoimmune Diseases</i>	Idiopathic Inflammatory Myopathy (IIM) * / **					Currently enrolling Phase 2/3 trial
		Rheumatoid Arthritis Refractory (ref-RA)					Received FDA IND Clearance; Phase 2/3 initiation in Q2 2026
		Ulcerative Colitis Refractory (ref-UC)					Received FDA IND Clearance; Phase 2 initiation in Q3 2026
Restem-L: <i>Other Diseases</i>	Left Ventricular Assisted Device (LVAD)						Partnering Opportunity
	Facioscapulohumeral Muscular Dystrophy (FSHD)**						Phase 1/2a trial ongoing
Restem-X: <i>Orthopedics</i>	Osteoarthritis (OA)						Phase 1/2 IND submission in Q2 2026
aNK	aNK: <i>Age-Associated Disorders</i>	Age-associated disorder					Phase 1 IND submission in Q4 2026

UMPC: Umbilical lining Modified Progenitor Cells; aNK: activated Natural Killer cells

* FDA Fast Track and Orphan Drug designations granted

** Fully Committed Funding

Significant Market Potential for Restem Clinical Platforms

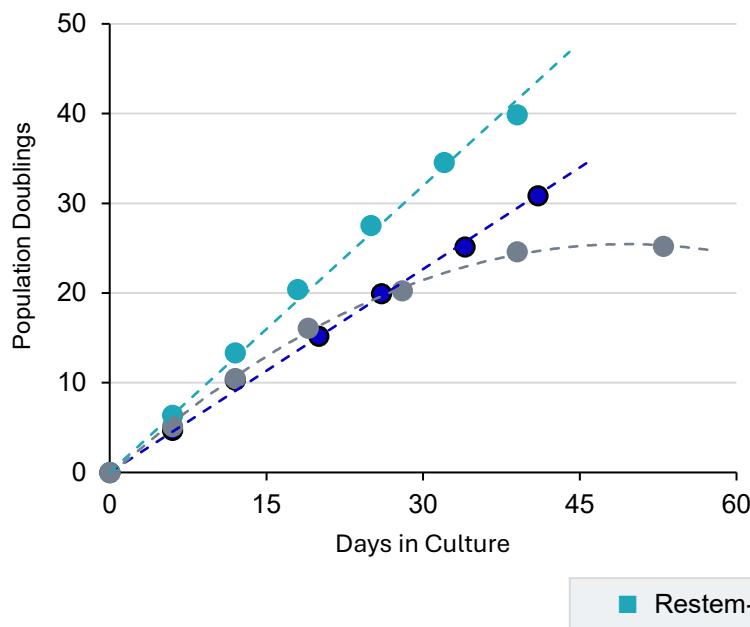


1. Lifesci Consulting Market Analysis 2024. 2. Lifesci Consulting Osteoarthritis Market Sizing 2025. 3. Solve FSHD, McKinsey Market Analysis.

*Projected global peak revenue for osteoarthritis, ulcerative colitis, rheumatoid arthritis and adult idiopathic inflammatory myopathy is by 2035. Potential sales for FSHD are projected within 5 years of launch.

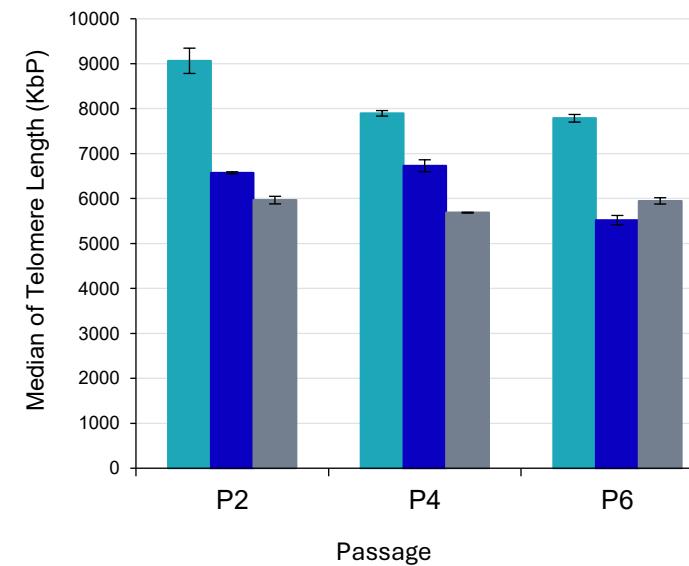
Restem-L – Best-In-Class Cellular Therapeutic Product

Higher Scalability



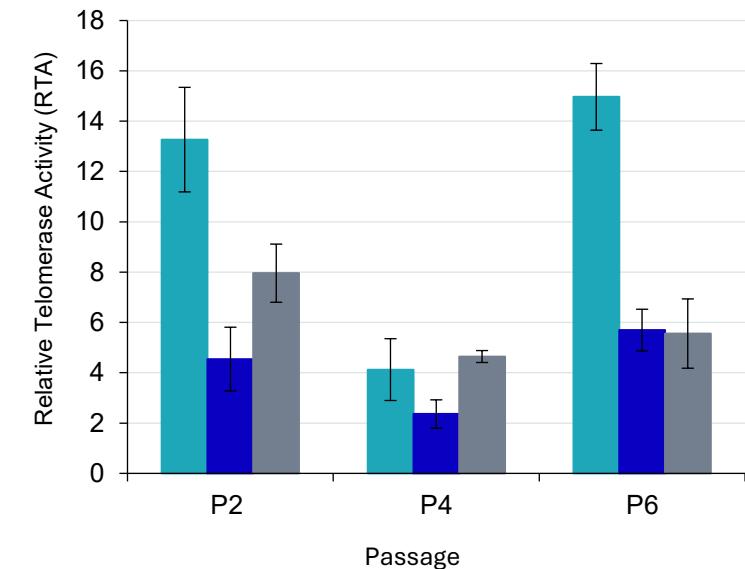
Exceptional proliferative ability yields greater growth and expansion of high-quality cells

Younger & More Robust Cells



Maintains longer telomeres throughout multiple passages ensures younger and more robust cells

Better Repair Mechanism



Higher telomerase activation in later passages supports a stronger DNA repair mechanism

Superior Properties than Other Cell-based Products

Restem-L – Overcoming the Quintessential Cell Therapeutics Manufacturing Challenges

Scalability	Cost	Time	Consistency	Inventory
Extensive supply, with 3 master and working cell banks with a capability to produce > 3 million doses	Manufacturing costs are advantageous, with a production cost of just < \$2,200 per dose	Accelerated manufacturing timeline from master/working bank to final product Under 6 weeks	Highly reproducible and complete characterization uniformity among donors and cell lines Superior lot-to-lot consistency	GMP cells in inventory ready for use in clinic trials, with quick turn-around 180 doses

Uniquely positioned to support clinical trials and mass commercialization of cell-based products

Addressing the Growing Need for Autoimmune Therapies

Increasing Prevalence



1 in 10

individuals globally is affected with autoimmune diseases¹

Existing Market



\$150 billion/yr

Estimated autoimmune disease yearly market across multiple indications²

Current Treatments



↑AEs

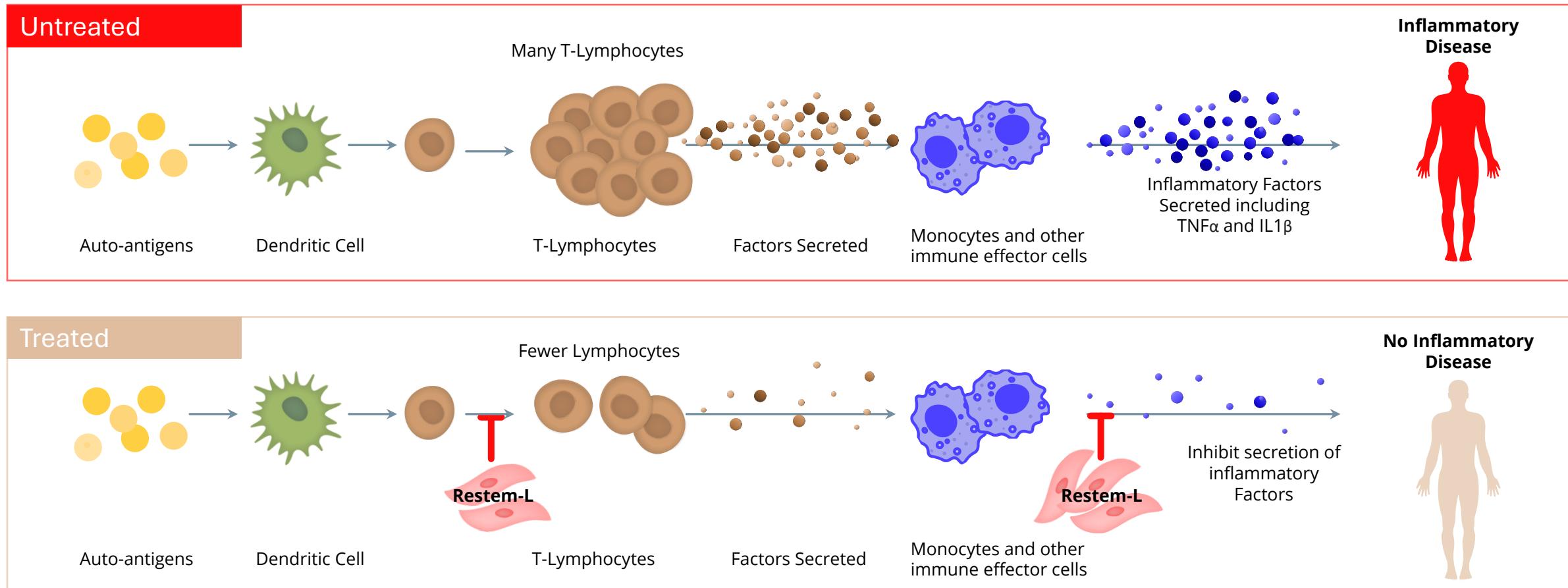
Currently approved treatments are associated with frequent and severe adverse events

1. Miller FW. The increasing prevalence of autoimmunity and autoimmune diseases: an urgent call to action for improved understanding, diagnosis, treatment, and prevention. *Curr Opin Immunol.* 2023 Feb;80:102266.

2. www.einpresswire.com/article/495486226/autoimmune-disease-therapeutics-market-nears-150-billion-by-2025-market-is-witnessing-a-strong-presence-of-late-stage-pipeline-drugs

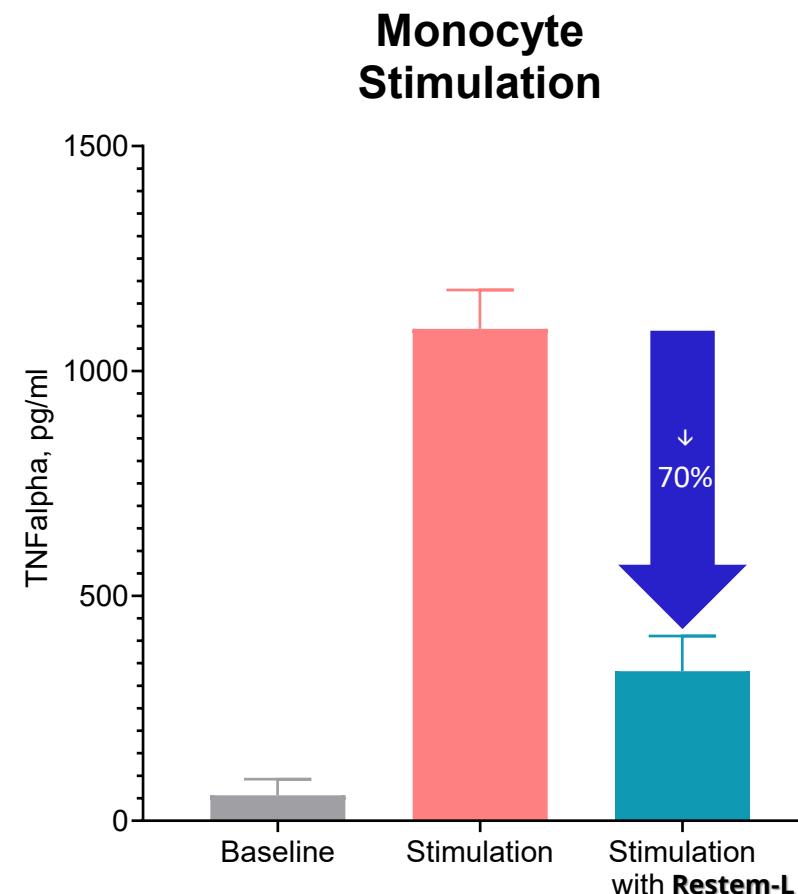
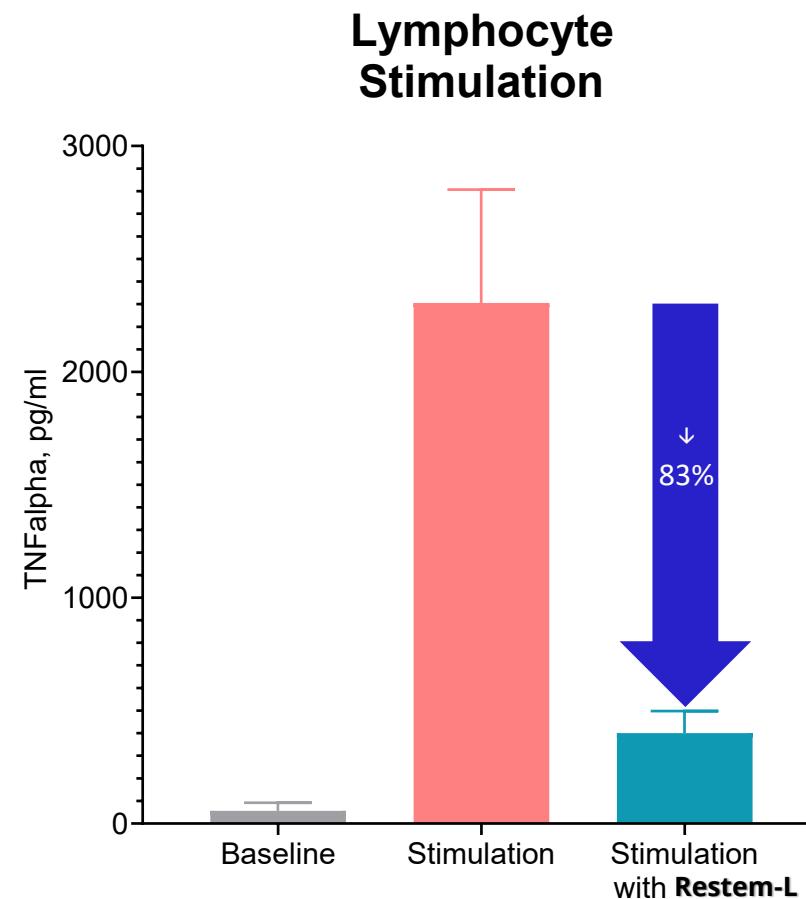
Restem-L Strongly Modulates the Inflammatory Response

Inflammation is the driving force of autoimmune tissue injury



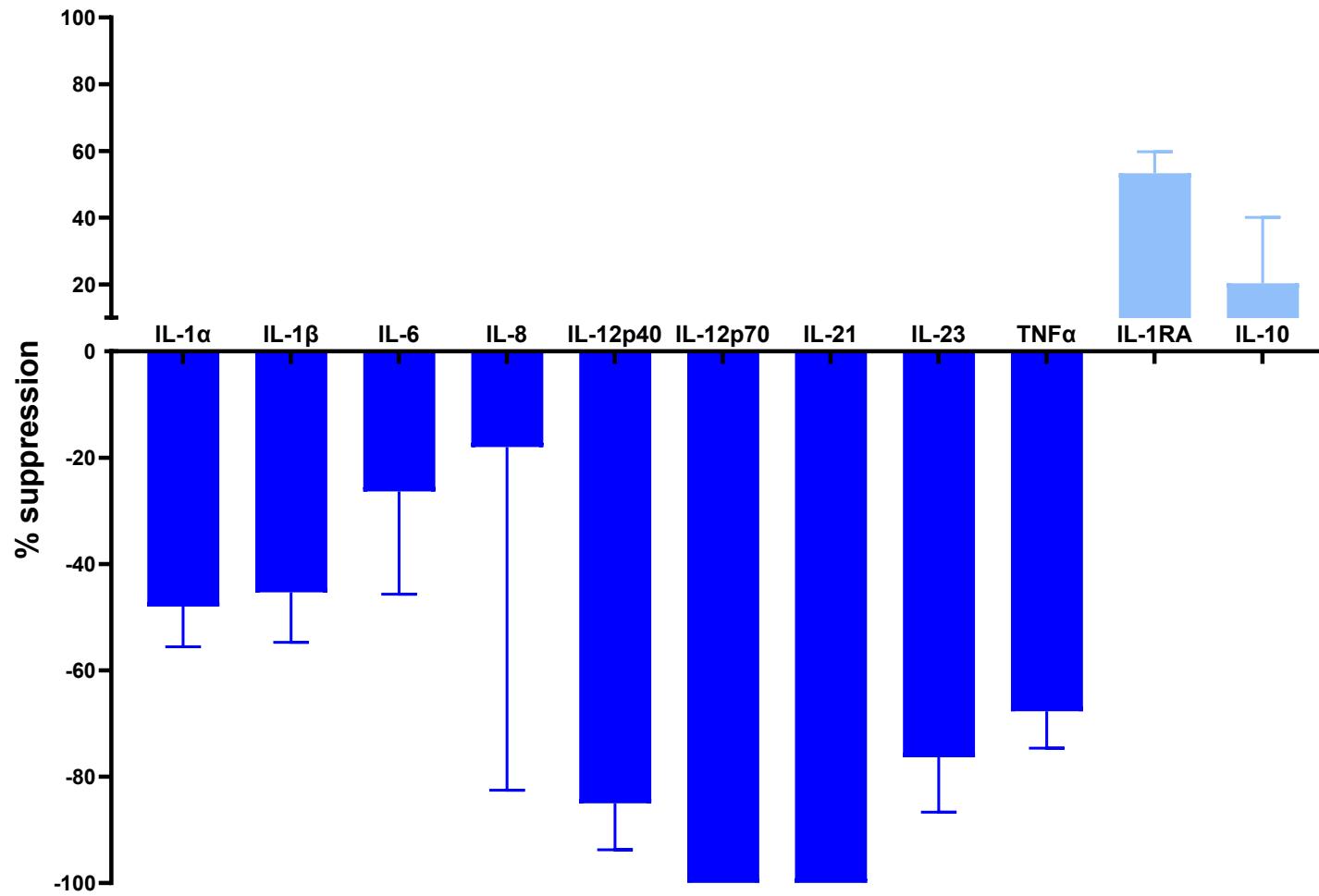
Restem-L Modulates Lymphocyte and Monocyte Factor Secretion to Treat Disease

Restem-L - Strongly Reduced Inflammatory Responses of White Cells in Clinical Trials



Restem-L markedly suppresses TNF α , a strong mediator of inflammation

RESTEM-L: Multi-Factorial Suppression of Pro-Inflammatory Cytokines and Upregulation of Anti-Inflammatory Factors



Restem-L markedly suppresses multiple inflammatory biomarkers

Restem-L in Adult Idiopathic Inflammatory Myopathy (IIM)

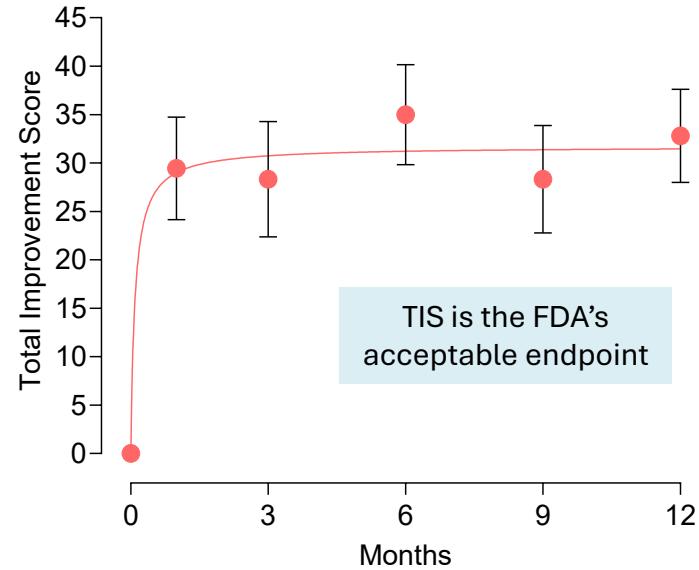
An autoimmune disease, with Polymyositis/Dermatomyositis (PM/DM) as its primary subtypes

		
Prevalence	Cost per Patient	Unmet Medical Needs
~ 58,000 People with IIM in the US alone*	\$200,000+/yr Intravenous Immunoglobulin (IVIg) is the only approved treatment and is commonly in short supply	Toxicity Currently managed with long- term use of steroids, which have many serious side effects

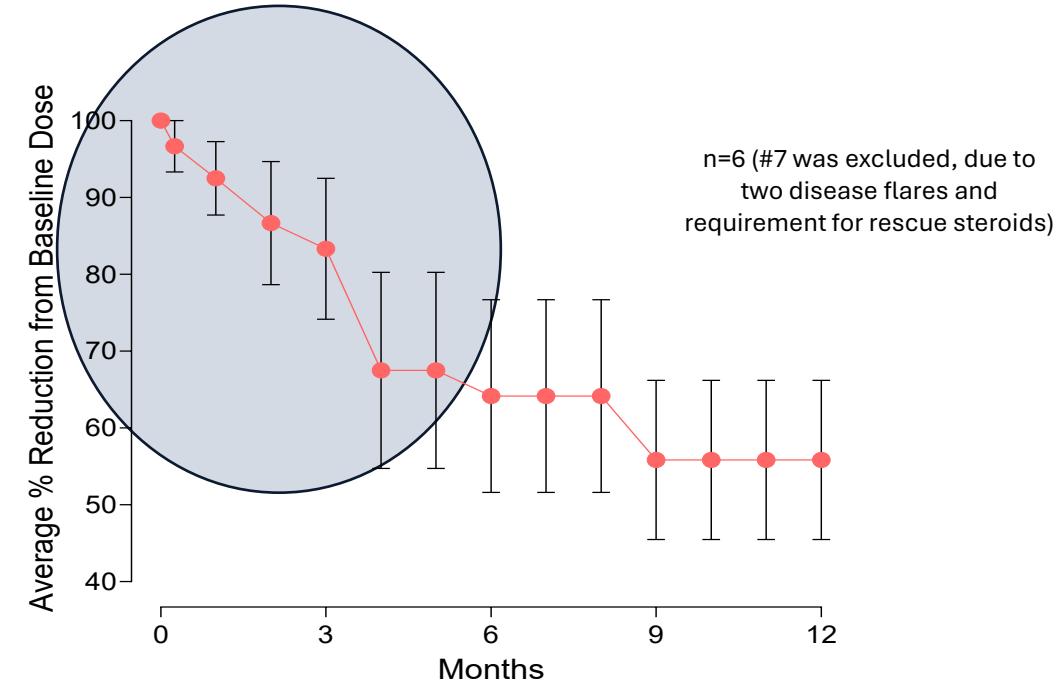
Restem-L: Phase 1 Trial Results in IIM

Selected as a Clinical Science Highlight at the EULAR 2025 Congress

Durable Improvement



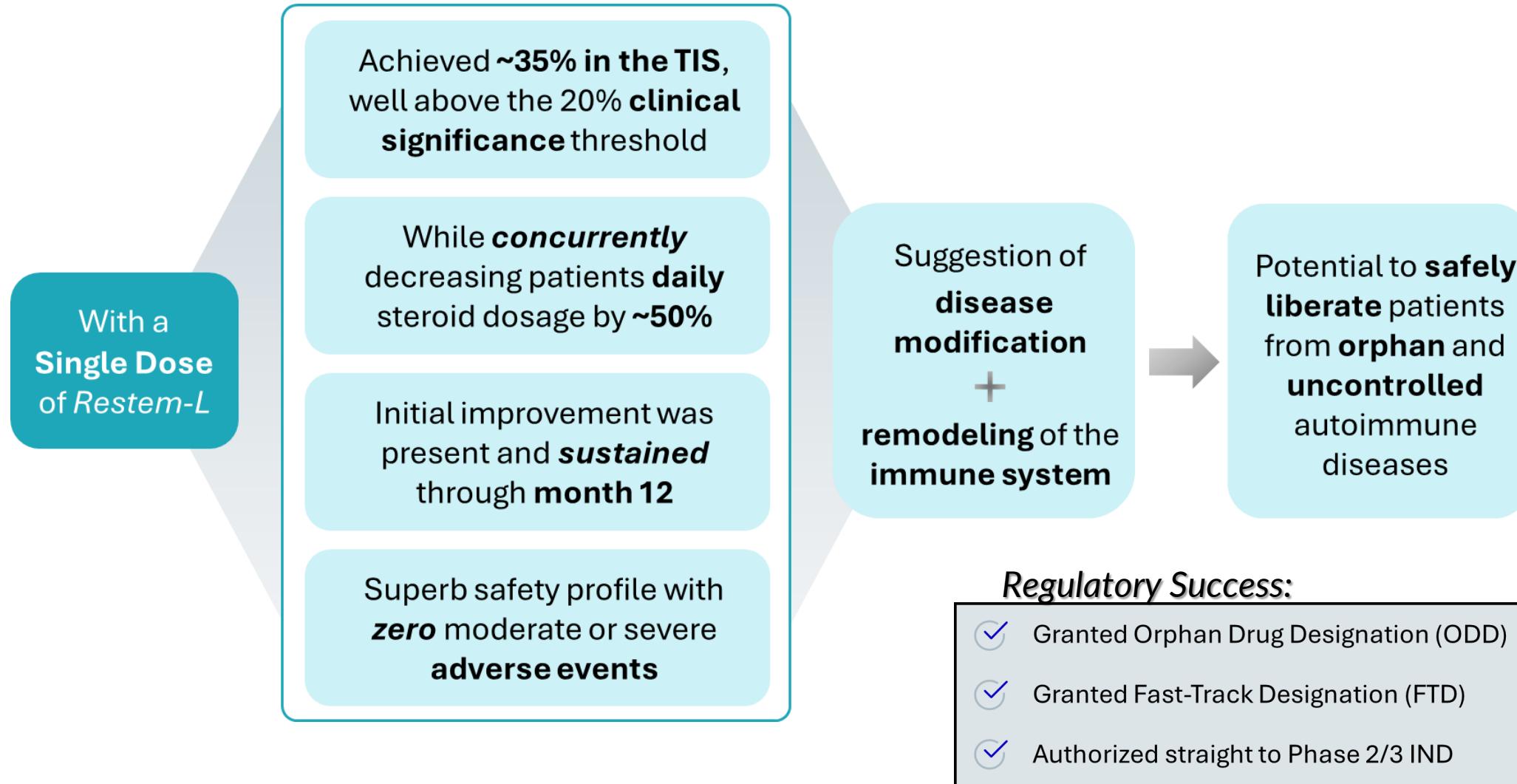
Reduction of Required Prednisone Dose



- The Total Improvement Score (TIS) averaged for all participants is within 30-35% range; 20% is considered a meaningful improvement by the FDA and Key Opinion Leaders
- The overall improvement in various scales was seen concurrently with a reduction in 6 of the 7 participants of the Prednisone daily dose

- The average daily dose of Prednisone was tapered by more than 5.5 mg by managing clinician (*chronic use of as little as 2.5 mg daily leads to increased adverse side effects*)
- 7 out of the 9 participants used Prednisone daily
- 6 out of the 7 daily users of Prednisone had an average of ~50% decrease in their steroid use

Restem-L: IIM Trial Results | A Disease Paradigm Shift



Restem-L: Phase 2/3 IIMPACT in IIM - a Potentially Registrational Trial

Pivotal, Adaptive double-blinded, randomized, dose-repeating, crossover study

Inclusion Criteria

≥18 years old with diagnosis of PM/DM based on EULAR/ACR score and Active Disease;
Participants must be receiving stable treatment, with one or more oral immunosuppressant medications, HCQ, and/or corticosteroids

Treatment Arms

80 patients

Endpoints

Total Improvement Score (TIS), from baseline and by comparison with placebo;
Pre-specified steroid step-down to solidify the finding of the concurrent efficacy and steroid reduction



Institution / Investigator:

Veterans Affairs Medical Center / Michael Bubb, MD (Principal Investigator)

Interim results anticipated in 2H 2026

Restem-L in Facioscapulohumeral Muscular Dystrophy (FSHD)

Rare neuromuscular disease, characterized by immune cell infiltration and inflammation, causing weakness and wasting in muscles



Prevalence

16,000-38,000

Patients with FSHD in the U.S.



Cost per Patient

No Approved Treatments

No established standard of care, resulting in variable treatment approaches and substantial direct and indirect healthcare costs



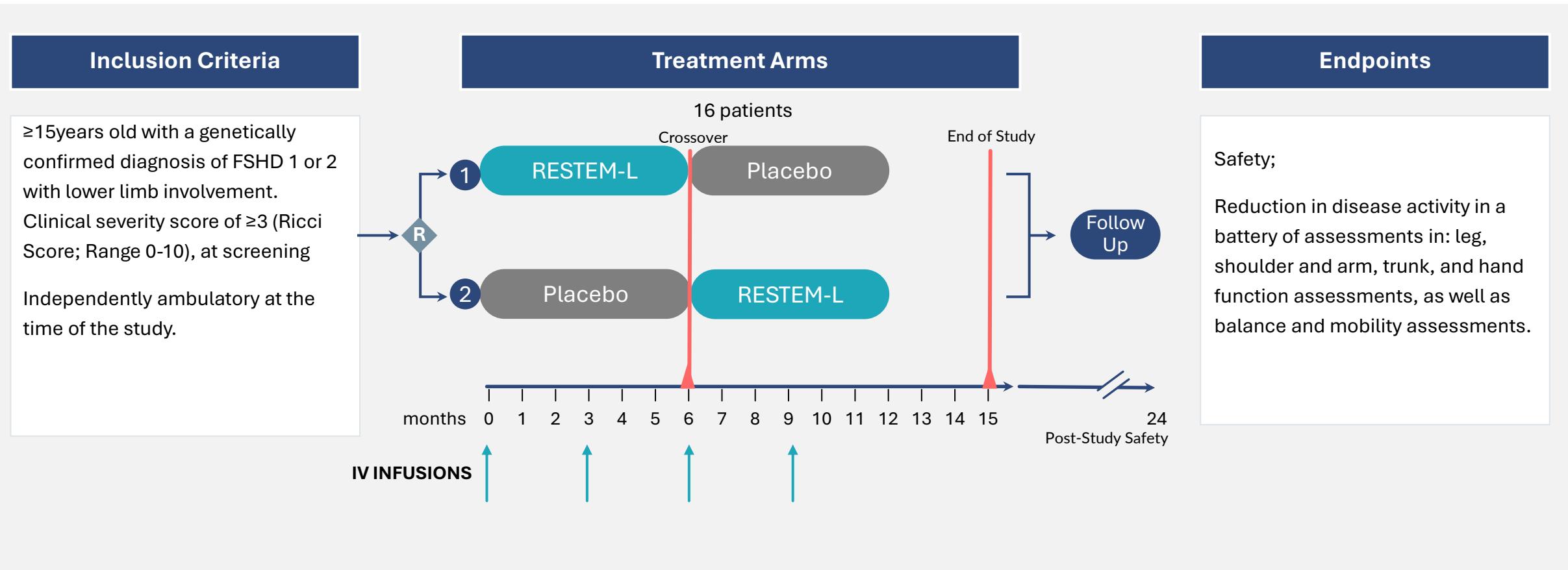
Unmet Medical Needs

Inefficient Options

Current treatments primarily address symptoms and supportive care and lack impact on disease progression

FSHD – Phase 1 FDA-Authorized Trial

Double-blinded, randomized, dose-repeating, placebo-controlled, crossover study



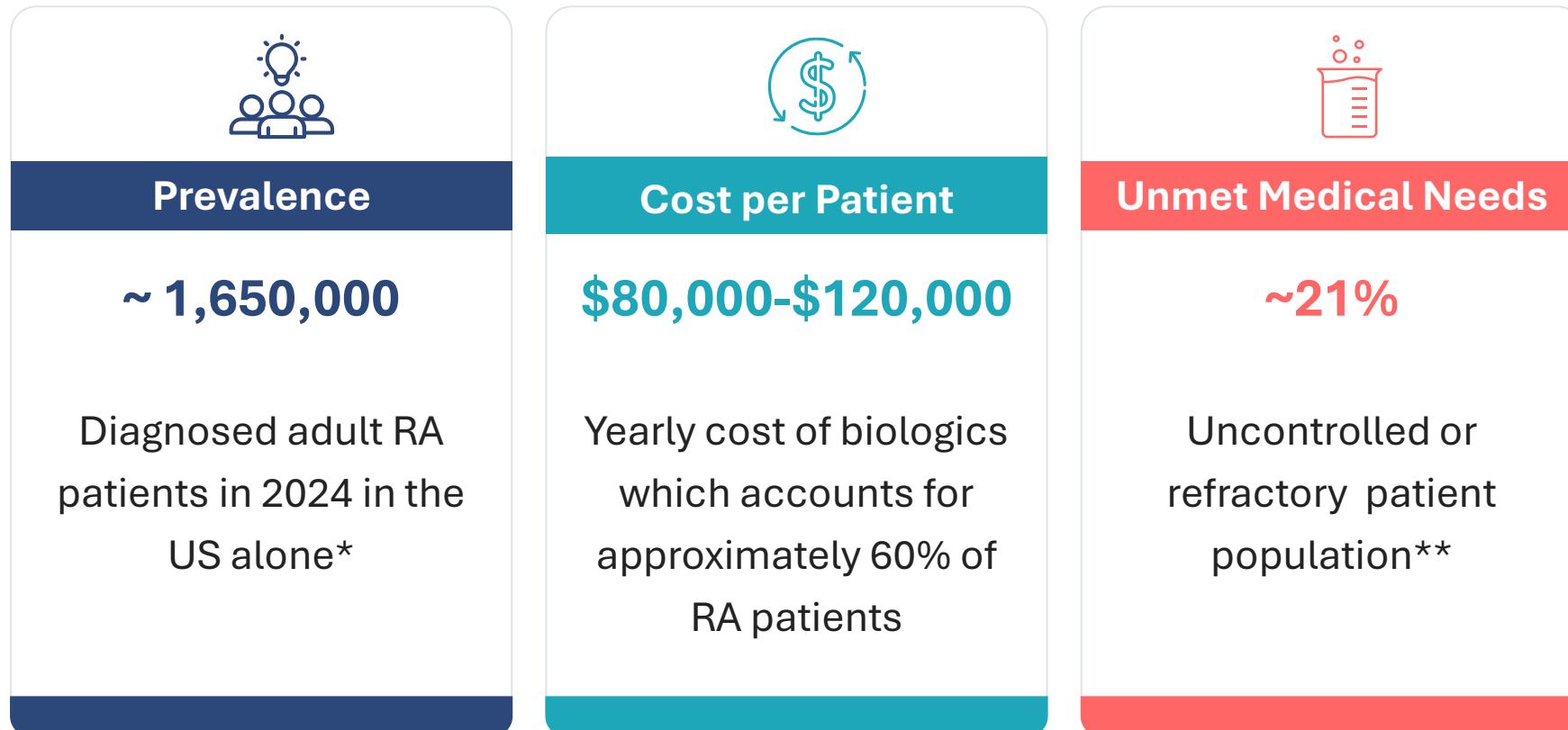
Institution / Investigator:

Stanford Neuroscience Health Center / John Day, MD, PhD (Principal Investigator)

Restem-L in Rheumatoid Arthritis (RA)



RA is a chronic, autoimmune disease of unknown etiology that primarily affects synovial joints



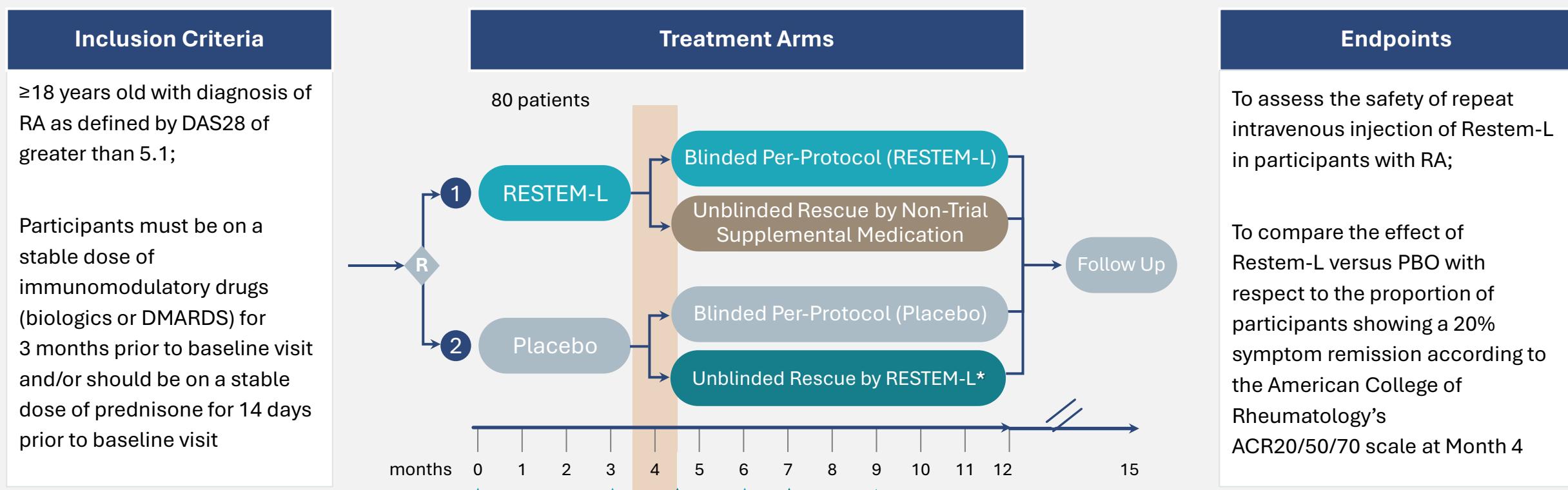
*Note: Average volume of diagnosed RA cases was calculated for sources reporting a range of diagnosed prevalence rates : [Hunter, et al](#), [Myasoedova, et al](#), [Almutairi, et al](#)

** www.arthritis.org/news/stories-of-yes/dr-daniel-solomon-researching-refractory-ra.

*** Source: LifeSci Consulting market analysis, 2024

Restem-L: Phase 2/3 Trial in Rheumatoid Arthritis (RA)

Adaptive double-blinded, randomized, dose-repeating, parallel-group study



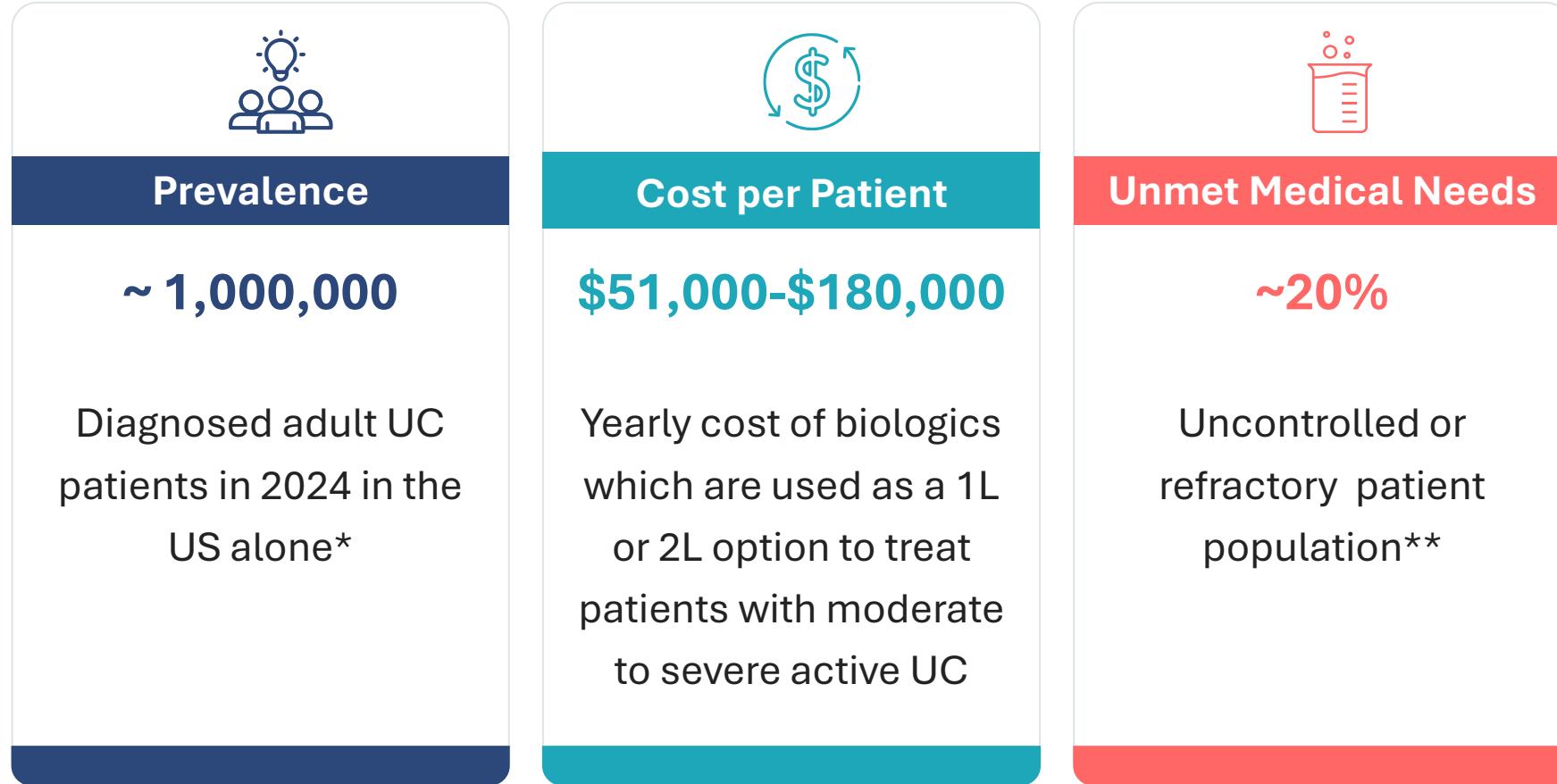
Institution / Investigator:

University of Florida / Michael Bubb, MD (Principal Investigator)

Restem-L in Ulcerative Colitis (UC)



UC is a chronic, inflammatory autoimmune condition characterized by relapsing and remitting mucosal inflammation

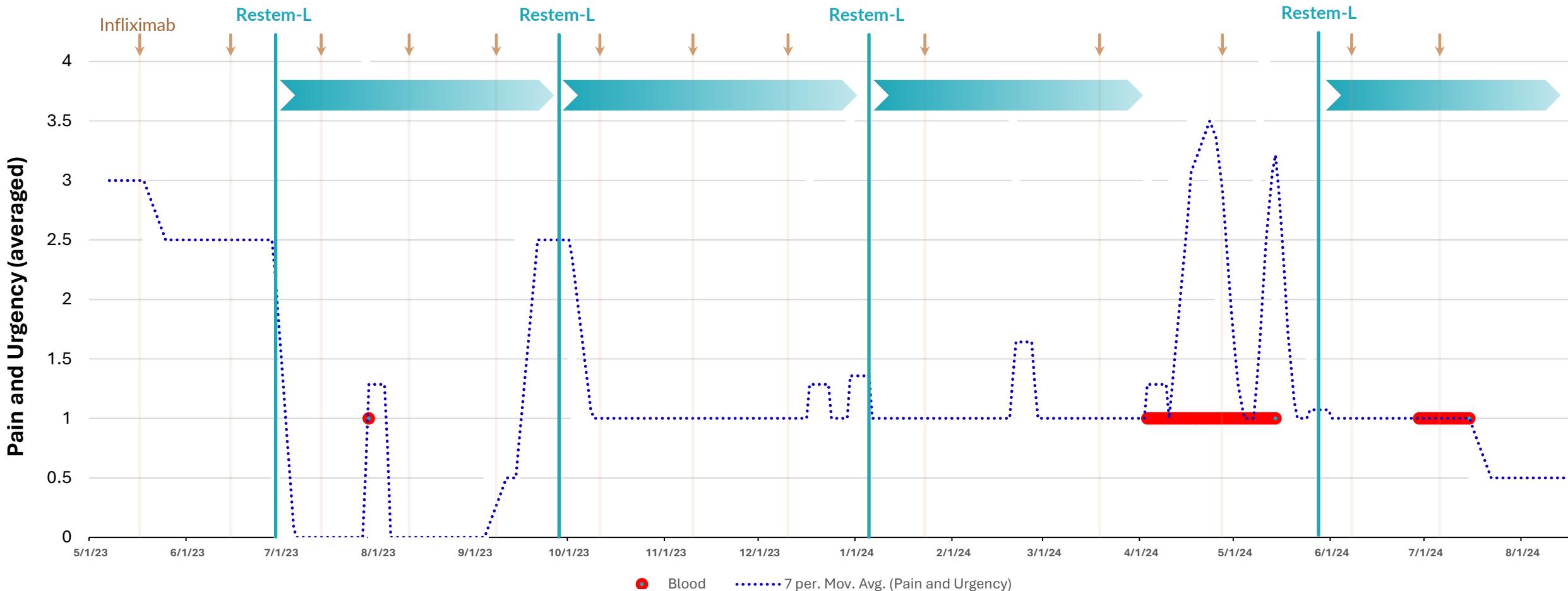


* Average volume of diagnosed UC cases was calculated for sources reporting a range of diagnosed prevalence rates : [Lewis, et al](#), [Weisman, et al](#), [Shivashankar, et al](#), [Kappelman, et al](#)
SoC- standard of care

** https://journals.lww.com/ajg/fulltext/2019/03000/acg_clinical_guideline_ulcerative_colitis_in.10.aspx#xd_co_f=M2QwOGlwMDItM2NhNC00MWQ2LThiNWYtYzMzNzlwOWVmM2U4~

*** Source: LifeSci Consulting market analysis, 2024

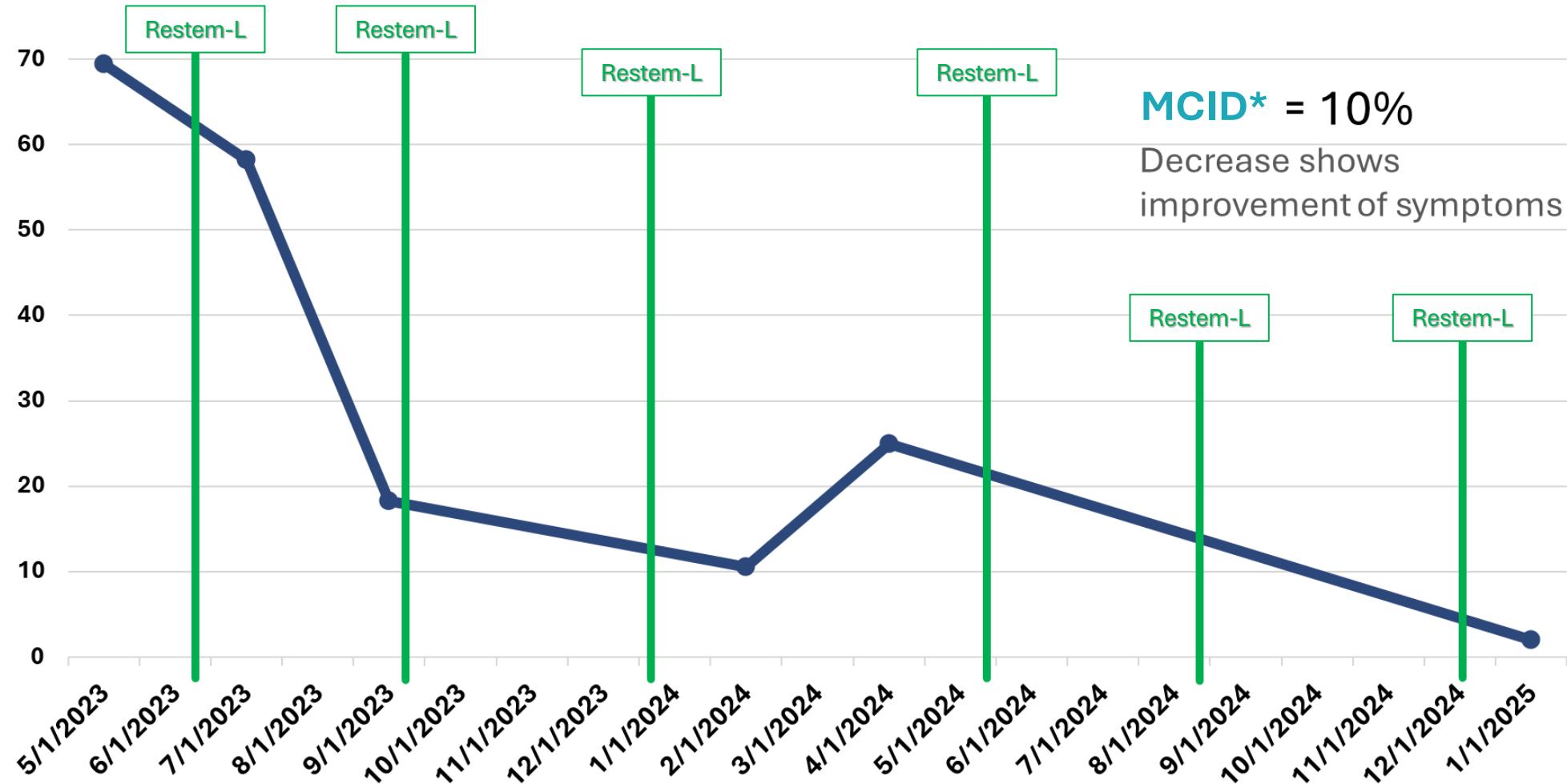
eIND UC Patient Data



Treatment with Restem-L led to prolonged remission and significant symptomatic improvement, whereas infliximab showed no association with symptom relief.

eIND UC Patient Data (Compounding Effect)

Irritable Bowel Syndrome Quality of Life Instrument (IBS-QOL) Questionnaire Scores: 2023 – Present



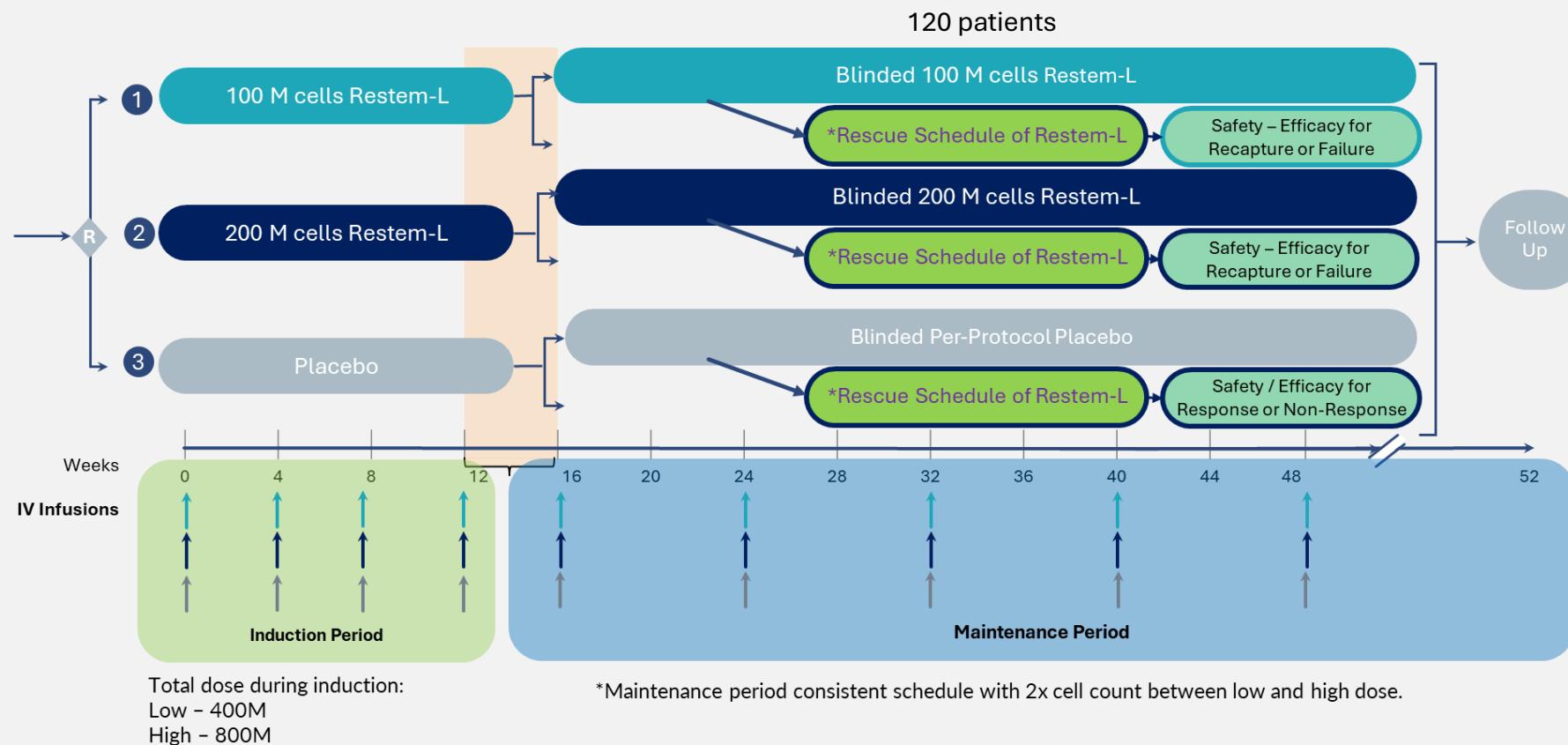
MCID* = 10%

Decrease shows
improvement of symptoms

A condition-specific measure for assessing health-related QoL among persons with irritable bowel syndrome

Restem-L: Phase 2 Trial in Ulcerative Colitis (UC)

Adaptive double-blinded, randomized, parallel-group Induction and Treat-Through Maintenance study



Endpoints

Safety

Achievement of clinical response of disease in each group at the primary analysis timepoint: Week 14, following Induction.

Achievement of clinical response of disease in each group at the primary analysis timepoint: Week 52, following Maintenance.



Institution / Investigator:

Northwestern University Medical Center / Steve B. Hanauer, MD (Principal Investigator)

Diverse Clinical Indications - Restem-L

Indication	Participants	Doses
1. IIM / DM-PM (Phase 1)	9	9
2. LVAD (Phase 1)	9	9
3. COVID (Phase 1)	17	23
COVID (eINDs)	9	9
4. HLH, SL (eIND)	1	1
5. Graft v. Host, SG (eIND)	2	3
6. Pulmonary Fibrosis, GK (eIND)	1	4
7. Interstitial Lung Disease, BM (eIND)	1	1
8. Autoimmune Hep, TC (eIND)	1	6
9. Neuromyelitis Optica, KL (eIND)	1	1
10. Ulcerative Colitis, AC (eIND)	1	7
11. Crohn's Disease, JW (eIND)	1	3
TOTAL	54	76

Superb Clinical Safety Profile - Restem-L

Positive safety profile across different types of disease indications supports the potential for early additive or combination treatment opportunities

Adverse Reaction	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5
Infusion Reactions:					
Anaphylaxis	0	0	0	0	0
Chills	0	0	0	0	0
Skin Reaction	0	0	0	0	0
Hyper/Hypotension	0	0	0	0	0
Flushing	1	0	0	0	0
CNS Reactions:					
Fatigue	0	0	0	0	0
Confusion	0	0	0	0	0
Headache	0	0	0	0	0
Nausea	0	0	0	0	0
Cardiopulmonary Reactions	0	0	0	0	0
Gastrointestinal Reactions	0	0	0	0	0
Infection	0	0	0	0	0
Thromboembolic Events	0	0	0	0	0
TOTAL	1/76	0/76	0/76	0/76	0/76

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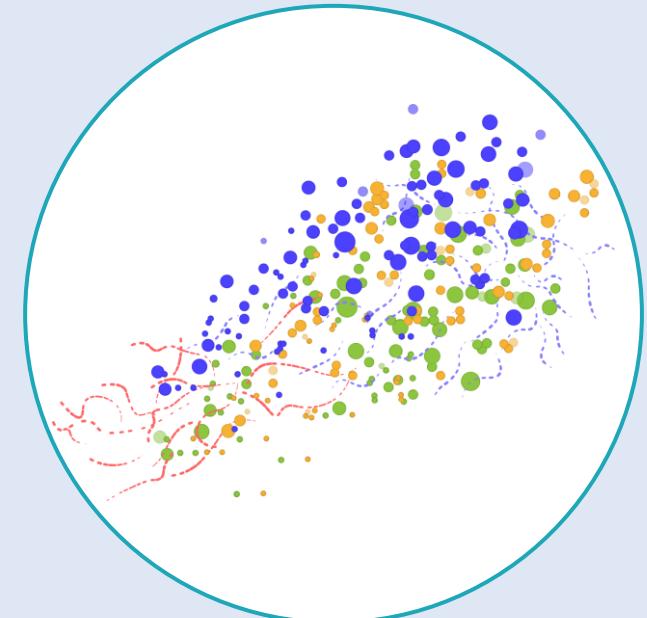


Restem-X:
A Regenerative Secretome

Restem-X — Revolutionizing Joint Regeneration and Repair

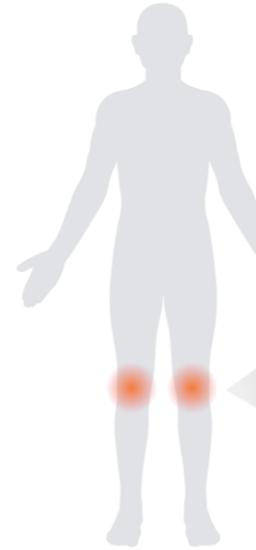
Natural Product with a Strong Orthopedic Therapeutic Potential

- Restem-X is a cell-based secretome derived from our proprietary Restem-L (UMPC) product
 - UMPCs are stimulated to secrete a functionally optimized profile of bioactive molecules which create an ideal formulation to collectively support joint health
- These bioactive molecules enhance cellular communication and promote tissue repair and regeneration
- RESTEM-X contains collagen I & III, hyaluronic acid (HA) and fibroblast growth factor-2 (FGF-2) & 7 (FGF-7) which are key components in tissue repair and overall joint health



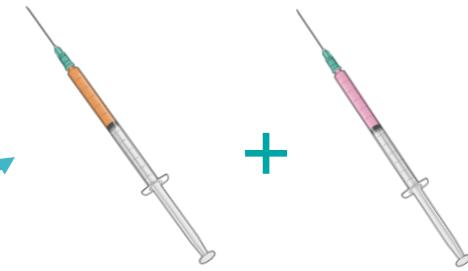
Restem-X — Potential Disease Resolution vs Symptomatic Suppression

Osteoarthritis



STANDARD
OF CARE

Steroids & Visco-supplementation



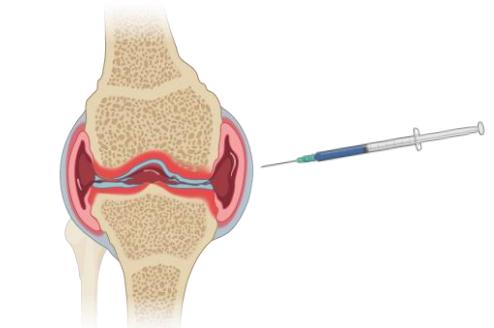
Temporary pain
relief with
cartilage loss



Total Knee
Replacement



Decreases inflammation &
provides structural support
via extra cellular matrix



Long-term pain relief
without cartilage loss



Improved
Quality of Life



Restem-X — Future Price Competitiveness (per Treatment)

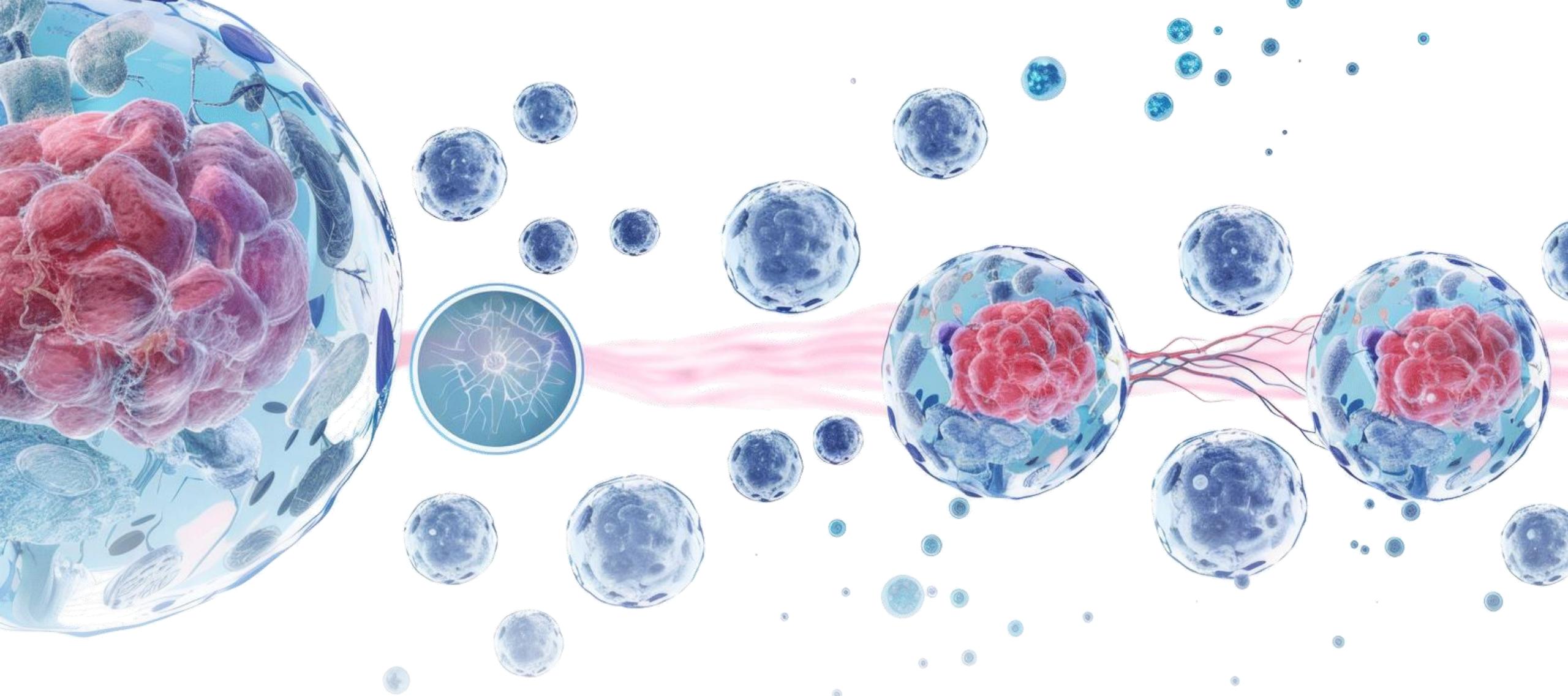
Visco-supplementation market valuation of \$5.12 B in 2024*

Restem-X Production Cost	Standard of Care #1 Retail Price	Standard of Care #2 Retail Price
~ \$35 Restem-X 5 ml vial	\$359.98 SynviscOne 1 Injection of 6ml	\$1,477.00 Orthovisc 3 injections of 2ml

*<https://www.globenewswire.com/news-release/2025/01/06/3004788/0/en/Global-Viscosupplementation-Market-to-Hit-Valuation-US-11-31-Billion-By-2033-Astute-Analytica.html>

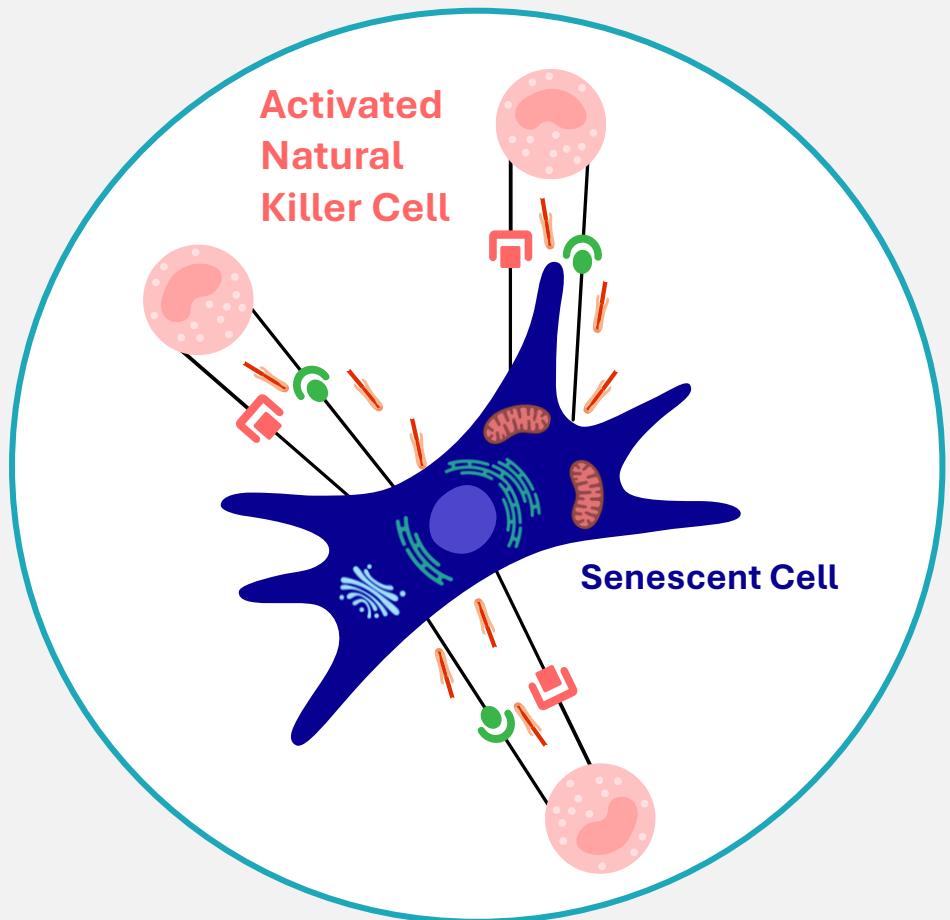
** Source LifeSci Consulting market analysis, 2025

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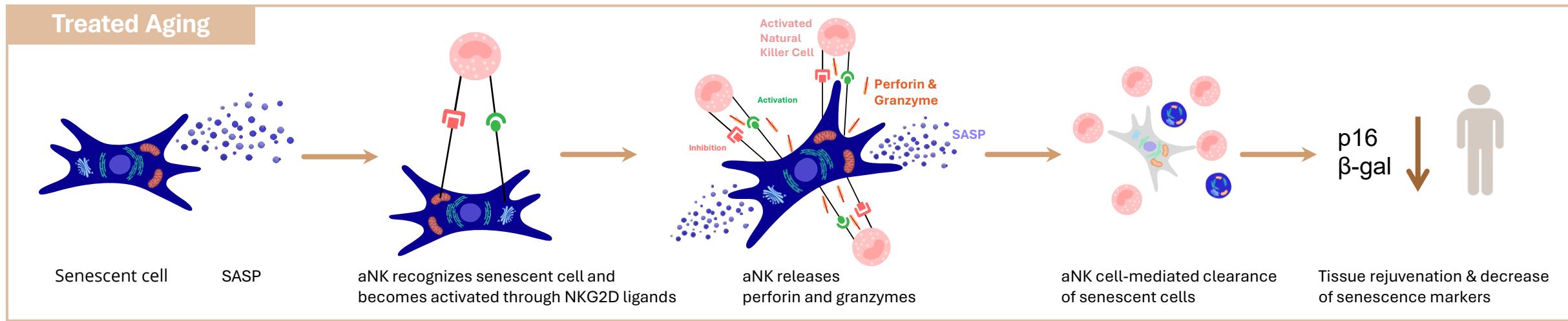
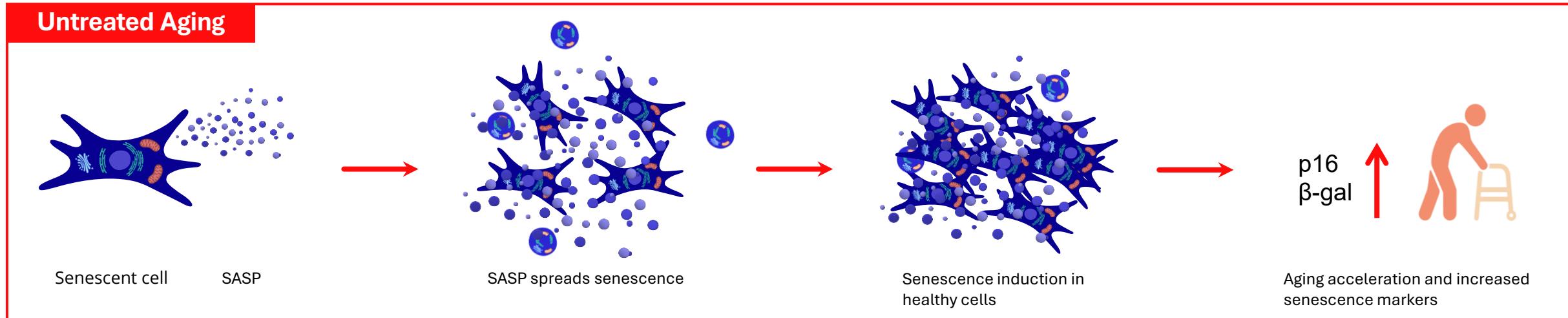
Activated Natural Killer Cells: Reducing the Burden of Senescent Cells

Activated Natural Killer (aNK) Cells – Target Senescent Cells



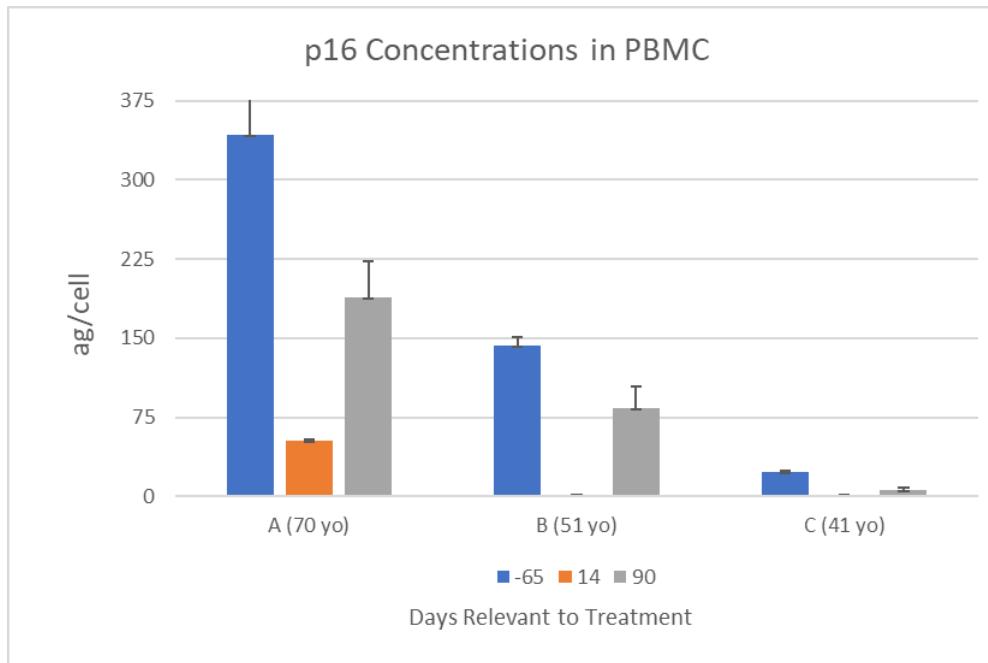
- Our activated Natural Killer (aNK) cells are proprietary immune cells specifically enhanced to recognize and eliminate senescent cells which may reverse age-associated diseases
- Patented methods to isolate, purify, expand and activate NK cells
- Restem is only company harnessing the power of NK cells to target and reverse cellular senescence

Activated Natural Killer (aNK) Cells - Reduces Immunosenescence

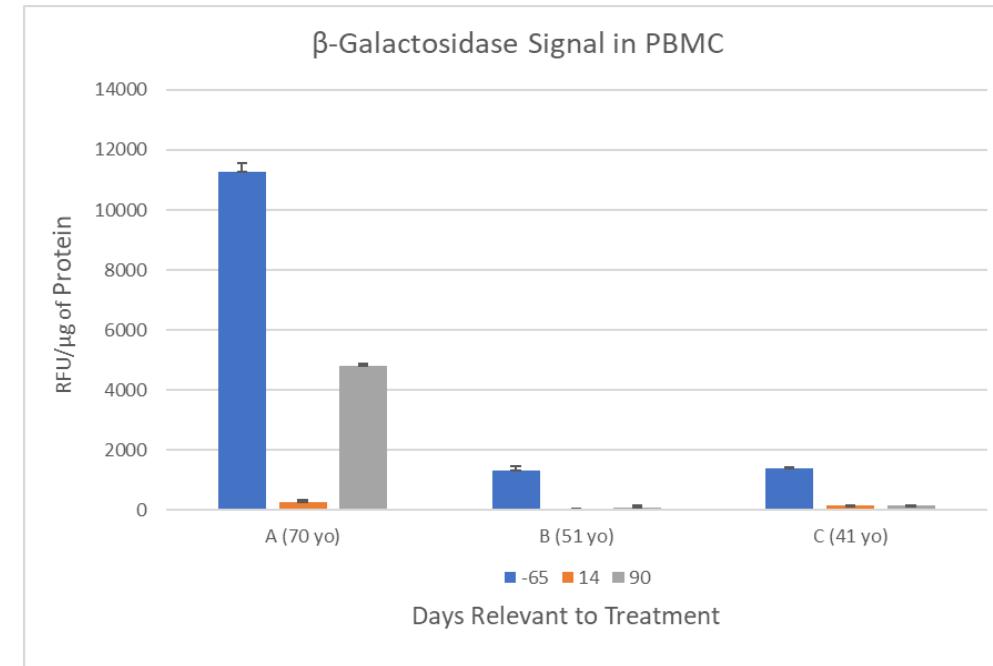


Effects of aNK on Senescence Biomarkers in Patients

aNK treatment significantly reduced key senescence markers (p16 and β -gal) in PBMCs isolated from donors



Significant reduction in p16 levels, post aNK treatment



Decrease in β -gal activity in all donors, post aNK treatment

These findings support the therapeutic potential of aNK in restoring immune function and targeting senescent cells in aging-associated diseases

Recent & Upcoming Milestones

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	H2 2025	H1 2026	H2 2026
Restem-L	Initiated Phase 1/2a trial in FSHD	Received IND clearance for Phase 2/3 in RA & Phase 2 in UC Initiation of Phase 2/3 trial in IIM & Phase 2/3 in RA	Initiation of Phase 2 trial in UC Interim data for Phase 2/3 in IIM
Restem-X		IND submission for Phase 1/2 in OA	Initiation of Phase 1/2 trial in OA
aNK		IND submission for Phase 1 in age-associated disorder	Initiation of Phase 1 trial in age-associated disorder
Cash Runway into Q3 2028		Closed Friends&Family \$18M Series A / Crossover Round \$50M-\$60M Secured non-dilutive funding for IIM & FSHD Trials \$10.4M	

Thank You

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Thank You