

# **1. Enzyme Platform Core Overview & Strategic Submission**

**1. Vision** Our Enzyme Platform represents a novel approach in which a single enzyme modulates systemic biological environments to support functional stability and structural remodeling. By coordinating immune, vascular, cellular, and neural systems, the platform establishes a new paradigm for health and biological structural organization.

## **2. Platform Overview (Technology Overview)**

- Based on over 40 years of accumulated research on microorganisms, viruses, and bacteria.
- A single enzyme impacts systemic environments and induces reproducible regenerative response patterns.
- Long-term human observational cases show structural changes over time.
- Positive responses also observed in animal, plant, and aquaculture systems.
- This is a biological environment modulation platform, not a therapeutic approach.

## **3. Key Observed Responses**

- Reduction of inflammatory stress and immune system balancing.
- Stabilization of vascular microenvironments and mitigation of calcification indicators.
- Reduction of external pollutants such as fine dust and microplastics.
- Enhanced cellular detoxification and activation.
- Improved recovery patterns following stress-related damage.
- Structural bone remodeling observed in a recurrent osteosarcoma patient via CT imaging only.
- High-density natural micro-nutrient composition.

- Positive system responses observed in poultry and aquaculture environments.
- *All descriptions are observed patterns, not claims of efficacy or treatment.*

#### **4. Core Innovation (Structural Remodeling Sequence) Observed bone structural remodeling sequence (CT-based):**

- Inflammatory environment modulation reduction of biochemical stress at damaged sites
- Nutrient distribution stabilization provides building blocks for tissue restructuring
- Hematopoietic stem cell activation promotes formation of new tissue structure
- Helical collagen alignment enhances structural strength and flexibility
- Structural remodeling CT imaging shows gradual reorganization of bone structure
- Emphasizes ordered structural remodeling, not regeneration or treatment.

#### **5. Oncology Context**

- Observed immune and microenvironment modulation patterns in tumor-related environments.
- No therapeutic or clinical efficacy claims.
- Highlights platform applicability in oncology-related biological systems.

#### **6. Purpose of Submission (Strategic and High-Impact)**

1. Introducing a Paradigm Shift: To introduce the revolutionary 'Biological System Modulation Platform' at the BOLD Awards, demonstrating a technology that fundamentally shifts the bio-healthcare paradigm.

- 2. Accelerating Global Commercialization: To establish strategic partnerships with key global investors and decision-makers necessary to accelerate the clinical and commercial realization.**
- 3. Validating Universal Value: To prove the solution as a next-generation universal therapeutic, driving whole-body environmental purification.**

### **Attached File List (1–5)**

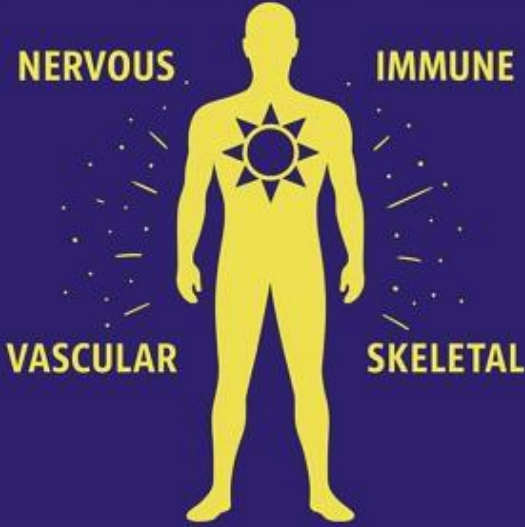
- 1. Enzyme Platform Full – A singular biological enzyme platform demonstrating systemic regenerative capacity.**
- 2. The Art of Life: Full Body Support – A whole-body biological support model for sustained human functional recovery.**
- 3. CT Observation Report – Independent CT-based clinical observations documenting non-invasive structural bone remodeling.**
- 4. Miracle Bone Data — Spontaneous Bone Regeneration Without Surgery or Medication (Confirmed by CT)**
- 5. Enzyme Oncology Application – Enzyme Responses Observed in Cancer Cases**

## 2. The Art of Life: FullBodySupport

**This is beyond simply science.  
This is the art of life.**

**WHOLE-BODY REGENERATION  
POWERED BY A SINGLE  
MICROBIAL ENZYME**

Microbial Enzyme for Regenerative Medicine



NERVOUS IMMUNE

VASCULAR SKELETAL

The image features a central yellow silhouette of a human figure. On the chest area, there is a starburst symbol consisting of a circle with eight points. Surrounding the figure are four labels: 'NERVOUS' at the top left, 'IMMUNE' at the top right, 'VASCULAR' at the bottom left, and 'SKELETAL' at the bottom right. The entire graphic is set against a dark blue background.

### 3. Miracle Bone Documents: Evidence of Non-Invasive Structural Regeneration

#### 1. Innovation Overview

Our enzyme platform transcends conventional medical limitations, enabling non-invasive structural regeneration—a capability currently unavailable in existing products. This approach maximizes technological value while establishing a new paradigm in patient-centric regenerative medicine.

#### 2. Technological Rarity: Breaking Conventional Limits

Conventional Domain	Approach	Our Enzyme (Innovation)	Key Advantage
Structural Restoration (Bone, Tissue)	Invasive procedures (surgery, injection, transplant)	Non-invasive structural regeneration	Systemic environmental regulation & cleansing
Functional Improvement (Anti-inflammation, nutritional support)	Oral supplements / food	Multi-system recovery (nervous, immune, circulatory, skeletal)	Universal, non-invasive recovery

#### Key Differentiators:

- **Non-Invasive Structural Regeneration:** Structural changes previously achievable only through surgery or injection can now be induced via oral

intake, with long-term effects documented by CT imaging.

- **Systemic Environmental Purification:** Supports recovery across nervous, immune, circulatory, and skeletal systems.
- **Rare Technological Advantage:** Unlike gut microbiome-based or general wellness products, our enzyme delivers both structural and systemic regenerative capabilities.

### **3. Market Value & Patient-Centric Innovation**

- **Audacious Vision:** Boldly challenges conventional medical paradigms by offering a surgery-free regeneration solution that strengthens the body's healing foundation.
- **Patient-Centric Solution:** In invasive and painful treatment fields (e.g., oncology), this enzyme reduces physical and psychological burdens by promoting systemic recovery and immune restoration.
- **Market Potential:** Observations of non-invasive structural regeneration confirm the enzyme's originality and commercialization value.

### **4. Clinical Observations & Case Details**

- This clinical case documents a patient with recurrent osteosarcoma who experienced significant bone regeneration through the non-invasive enzyme platform.
- CT imaging and clinical observations confirm long-term structural remodeling.
- The case highlights the unique ability of the enzyme to induce systemic structural recovery without surgery or invasive procedures.
- This evidence supports both the technological originality and the patient-centric value of the platform.

## 5. Conclusion & Purpose

- **Universal Recovery Technology:** Applicable to humans, animals, plants, and aquatic organisms.
- **Ready for Immediate Commercialization:** Supported by over 40 years of research, this platform establishes a new benchmark for non-invasive structural regeneration.
- **Seeking Recognition:** We aim to gain acknowledgment for the innovative value of systemic environmental purification and non-invasive structural change, setting the stage for future standards in biotechnology.

## 4. Miracle Bone Documents – Direct Evidence of Spontaneous Bone Regeneration

This report summarizes an observational case in which time-series CT imaging showed structural changes in the bone of a patient with recurrent osteosarcoma following voluntary intake of a microbe-derived enzyme beverage. This document does not claim therapeutic effect; it presents imaging-based observations for exploratory research purposes.

### 1. Key Observations

- **Patient A: Adult male (diagnosed 2020; surgery performed; relapse in 2023)**
- **Began enzyme beverage intake after postponing revision surgery**
- **CT-based time-series observations:**
  - **4 months: Early signs of localized bone structure changes**
  - **12 months: Pronounced formation of bone-like tissue**
  - **19 months: Continued structural progression**
- **Changes occurred independent of surgical intervention**

## **2. Patient Clinical Background**

- **February 2020: Lower femur fracture and knee tumor → tumor resection (6 cm mass); reconstruction with bone cement in the upper area and a mix of artificial and autologous bone in the lower area**
- **July 2023: Tumor recurrence diagnosed; revision surgery recommended but postponed; enzyme beverage intake initiated**

## **3. Progression Based on CT Imaging**

- **July 2023 (Pre-Enzyme Intake): Recurrence confirmed; loss of bone integrity**
- **November 2023 (4 months): Early patterns of new bone formation observed**
- **July 2024 (12 months): More substantial structural development; no additional bone-targeted therapy received**
- **February 2025 (19 months): Continued structural progression confirmed**

***Statement of factual patient report; no causal inference is intended.***

**CT Imaging Report of Bone Regeneration 2020–2025**



**February 2020: Baseline imaging confirmed initial tumor-related structural changes**



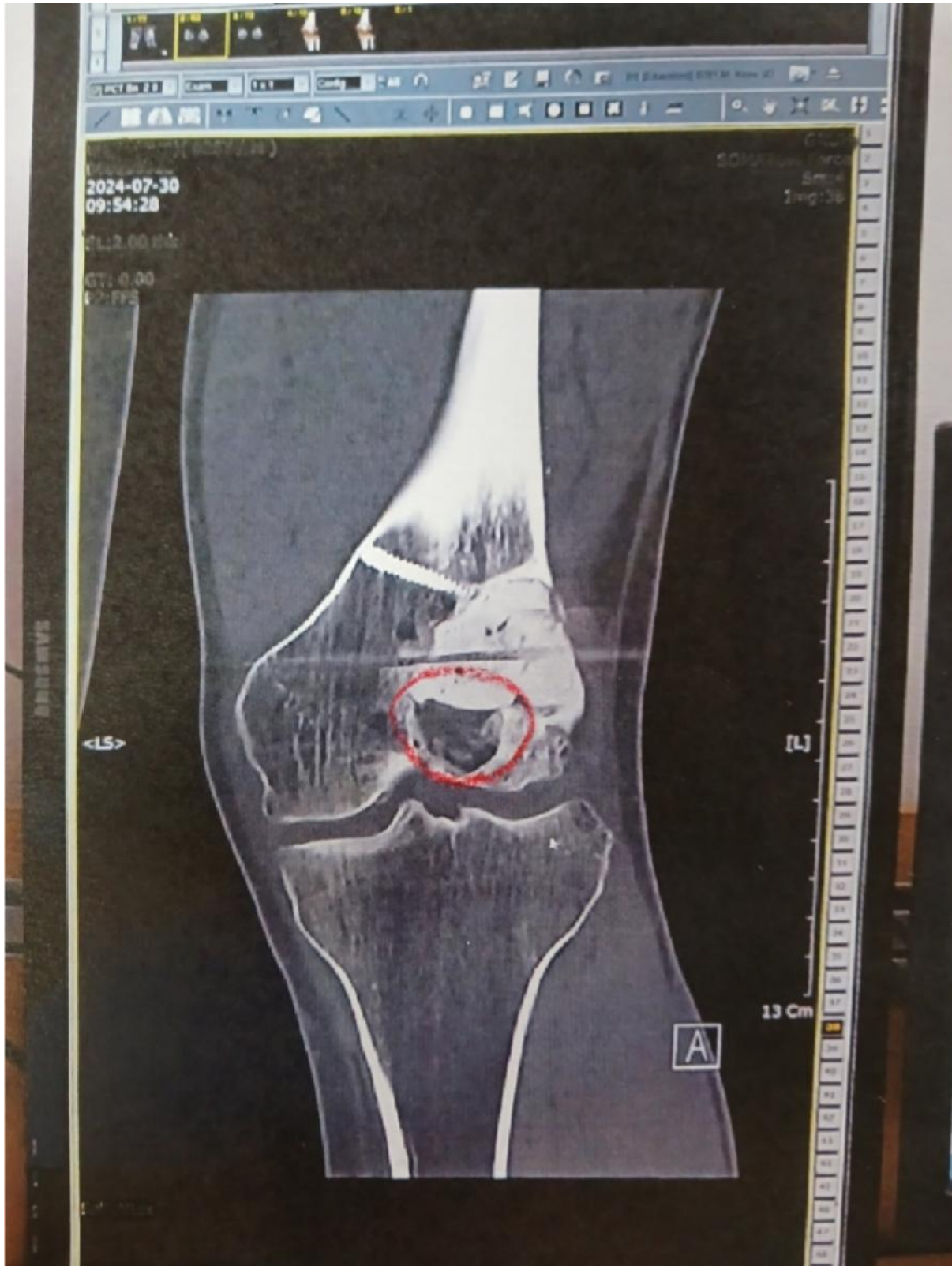
**March 2020: Tumor resection and reconstruction were performed.**



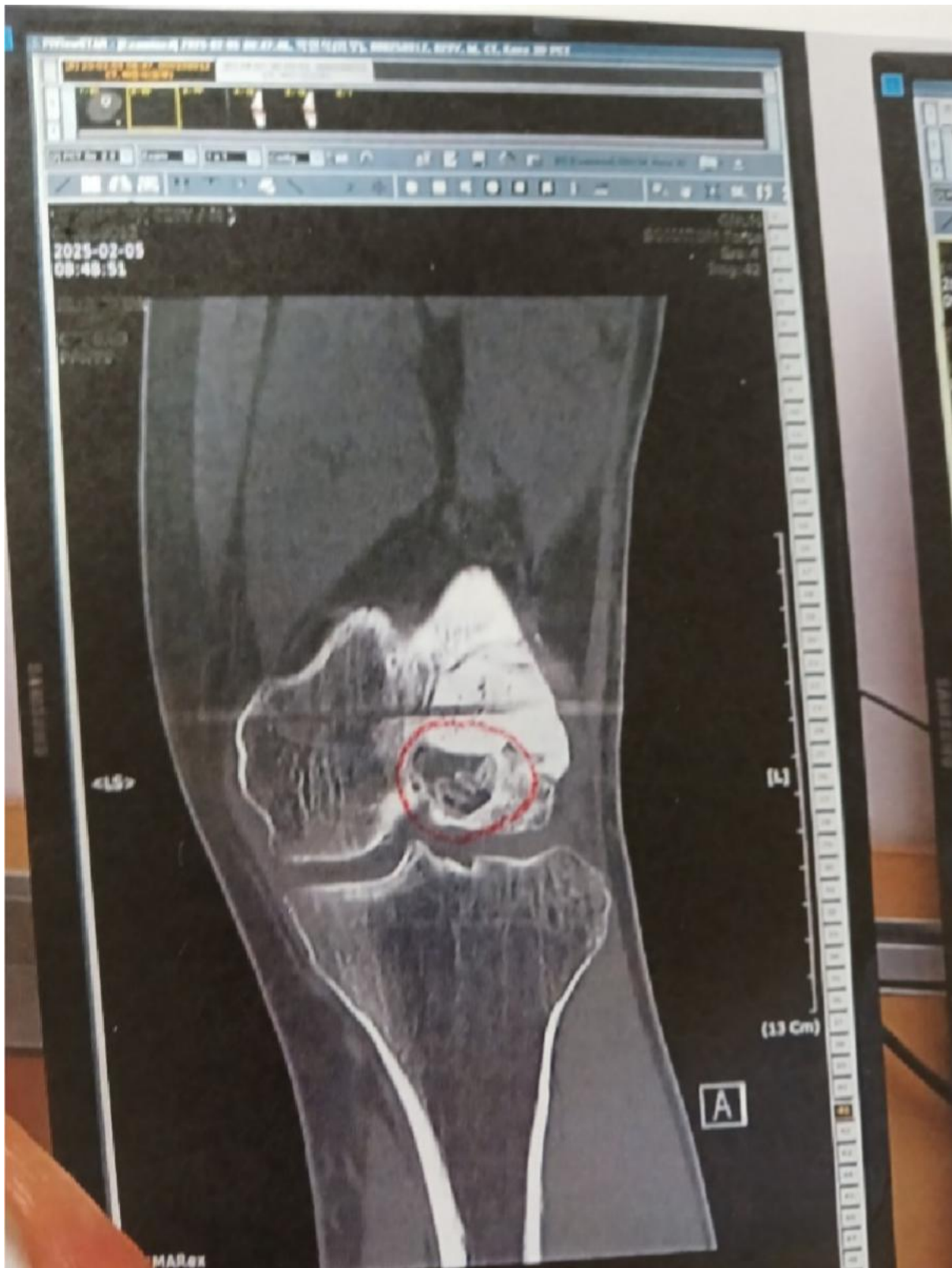
**July 2023: Tumor recurrence confirmed. Enzyme intake initiated as an alternative to revision surgery.**



**November 2023 (4 months): Early patterns of new structural formation were observed along the inner margin of the affected area.**



July 2024 (12 Months): Substantial structural development noted; physician inquired about bone-targeted therapy (e.g., Xgeva).



February 2025 (19 Months): Continued progression and structural advancement were confirmed.

**Final Image Summary (February 2025):** Follow-up CT imaging confirmed continued progression of structural change [in the affected area]. Medical imaging data were analyzed according to a specialist's evaluation, and all patient information was anonymized to ensure privacy.

## **Addressing the Medical Challenge: The Systemic Requirement for Bone Structural Regeneration (Our Enzyme's Unique Solution)**

The successful induction of structural regeneration in intractable lesions by our enzyme proves that bone regeneration is impossible with localized treatment alone and fundamentally requires the restoration of the body's entire systemic environment.

- **Limitations of Conventional Treatment:** Beyond simple localized intervention, bone regeneration requires systemic blood purification, securing nutrient pathways, and metabolic optimization. This is an unachievable feat for conventional gut microbes (such as probiotics), which are unable to travel into the bloodstream to purify the vasculature and systemic environment.
- **Our Enzyme's Rationale:**
  - **Purification & Pathway Securing:** The enzyme eliminates toxins and inflammation in the bloodstream, securing pathways for nutrients and growth factors necessary for bone regeneration to be supplied to the affected area without obstruction.
  - **Regeneration Activation:** It simultaneously suppresses the activity of bone-destroying osteoclasts and powerfully activates the regenerative capacity of osteoblasts, the key cells for bone formation.
  - **The Result:** It is only through the restoration of the entire bodily environment that localized, robust bone structural regeneration becomes possible.

## **Structural Innovation: The 'Helical Regeneration' Hypothesis**

**Our enzyme doesn't just increase bone volume; it fundamentally revolutionizes the bone's Structural Quality.**

- **The Problem with Conventional Healing:** Bone regeneration results in a disorganized and aggregated arrangement of collagen fibers. This structure is highly vulnerable to torsional and compressive forces, which significantly reduces the bone's stability and durability, and ultimately increases the risk of re-operation.
- **Our Enzyme's Solution:** Our enzyme induces a rope-like helical pattern for collagen fibers, maximizing the structural integrity of the bone. This presents a unique opportunity to lead regenerative medicine into a new era of 'Structure-oriented Regeneration.'

## **5. Oncology Application – Enzyme Responses Observed in Cancer Cases**

**This enzyme technology is not a conventional gut-focused microbial product. It is a regenerative platform that supports whole-body recovery by helping restore balance in the bloodstream and the systemic biological environment.**

### **The Problem**

**After intensive medical interventions such as chemotherapy or radiation, many individuals experience:**

- **Residual toxic burden within the body**
- **Persistent systemic inflammation**
- **Chronic fatigue and delayed tissue recovery**

**Most existing microbial or nutritional approaches primarily act within the gastrointestinal tract and therefore have limited ability to address these**

whole-body challenges.

## **What Makes This Platform Different**

This enzyme operates at the systemic level rather than being confined to the gut.

- It supports the reduction of biological waste and unfavorable conditions in the bloodstream
- It helps rebalance immune, vascular, and neural systems
- By improving the systemic environment, it enables the body's intrinsic recovery mechanisms to resume

This process is non-surgical and non-invasive, relying on biological regulation rather than physical intervention.

## **How Recovery Is Supported**

This platform is not positioned as a conventional supplement.

- It delivers biological signals associated with recovery and stabilization
- It supports proper functioning of immune and regenerative cell populations
- It helps establish a favorable systemic environment for recovery in deep tissues affected by aggressive medical treatments

## **Observed Outcomes**

This platform is not purely theoretical.

In cases involving severe structural tissue loss, CT-observed bone regeneration has been documented.

These observations suggest a level of non-surgical structural recovery that is difficult to achieve through conventional microbial or nutritional approaches.

## **Why This Matters**

- It may support faster systemic recovery following intensive treatments
- It may help reduce chronic fatigue and long-term biological burden
- By supporting recovery without surgery, it has the potential to reduce overall healthcare costs

Beyond oncology, this whole-system recovery mechanism may be applicable to aging-related conditions and chronic inflammatory disorders.