## Mid-term Management Plan FY2022 to FY2025





- Summary of Previous Mid-term Management
- Overview of Current Mid-term Management Plan

## • Key Measures

- I . Accelerate R&D utilizing unique drug-discovery technologies
- II. Maximize the product value of SI-6603 (treatment for lumbar disc herniation)
- II. Maintain and enhance the business value of joint function improving agents
- IV. Construct a global production system
- V. Expand the LAL business through recombinant technologies

## • Sustainability

## • Numerical Targets and Basic Policy on Profit Distribution

- Numerical Targets
- Basic Policy on Profit Distribution



#### I. Accelerating new drug discovery to become the pillar of new profits

- Joint function improving agent JOYCLU launched
- SI-722 (treatment for interstitial cystitis) and SI-449 (adhesion barrier) advanced to the next stage of development
- Enrollment for SI-6603 (treatment for lumbar disc herniation) completed
- SEIKAGAKU NORTH AMERICA CORPORATION established

## **I**. Solidifying the profit foundation through market expansion of new products

- HyLink (intra-articular single-injection viscosupplement for the treatment of knee osteoarthritis) launched in Taiwan
- Alliance agreement concerning SI-613 concluded with Eisai (China, South Korea)
- PyroSmart NextGen Recombinant LAL Reagent launched

#### **III. Productivity improvement reforms**

- DALTON CHEMICAL LABORATORIES, INC. made a subsidiary
- Business continuity system developed in response to the impact of COVID-19
- Progress with review of procurement costs and sales-related expenses

We achieved a measure of success with each of the three important measures in the management plan, successfully solidifying the profit foundation to return Seikagaku to a growth trajectory

## **Previous Mid-term Management Plan Numerical Targets**

	FY2021 results*	FY2021 target (disclosed Nov. 2019)	Percentage achievement
Net sales	¥31.2 billion	¥28.3 billion	+10.5%
Ordinary income	¥5.39 billion	¥4.5 billion	+19.9%
SKK EBITDA	¥5.54 billion	¥5.0 billion	+10.9%
<b>Overseas sales ratio</b> (excluding royalty income)	56.6%	50.0%	+6.6 pt.

\*Converted to previous presentation categories SKK EBITDA: A profit indicator that adds depreciation and royalty income to operating income



## We also achieved each numerical target in the plan



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## **Business Environment**

Pharmaceutical	Industry Trends	Societal Trends
Domestic pharm	aceutical market	Development of international frameworks and principles
• Growth in healthy longevity	<ul> <li>Diversification of treatment options</li> <li>Impact of drug price system</li> <li>Strengthening of quality assurance and control systems</li> </ul>	<ul> <li>Adoption of the SDGs by the U.N., global penetration</li> <li>Adoption of the Paris Agreement at COP21</li> </ul>
Overseas joint function improving agent market	R&D environment	<ul> <li>Revision of the Corporate Governance Code</li> </ul>
<ul> <li>Osteoarthritis patients increasing (aging, etc.)</li> <li>Greater numbers of active seniors</li> </ul>	<ul> <li>Increasing R&amp;D costs and risks</li> <li>Depletion of seeds for drug discovery</li> <li>Appearance of new treatment methods, such as regenerative medicine</li> <li>Diversification of new drug modalities</li> </ul>	Stakeholder expectations
<ul> <li>Intensification of competition due to new product introductions, etc.</li> <li>A broad range of treatment options</li> <li>System change relating to price disclosure</li> </ul>		<ul> <li>Increase in sustainable investment ratios</li> <li>Growing importance of non-financial information disclosure in investment decisions</li> </ul>

A flexible response to an era of extreme environmental change and fulfillment of social responsibility are required





## **Overview of Current Mid-term Management Plan**

Exploring the Innovative Promise of Glycoscience



Based on a solidified profit foundation, nurture the capability to maintain a constant growth trajectory by energetically implementing the key measures Aim to achieve record-high business results in the final year of the plan

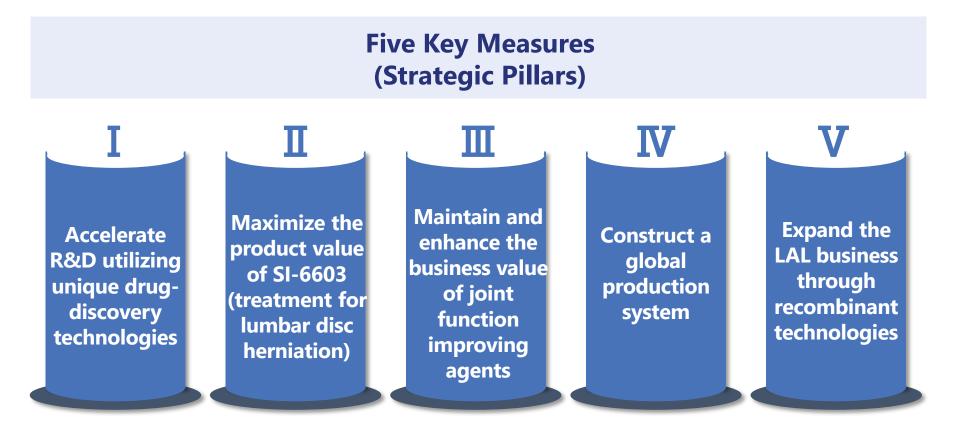






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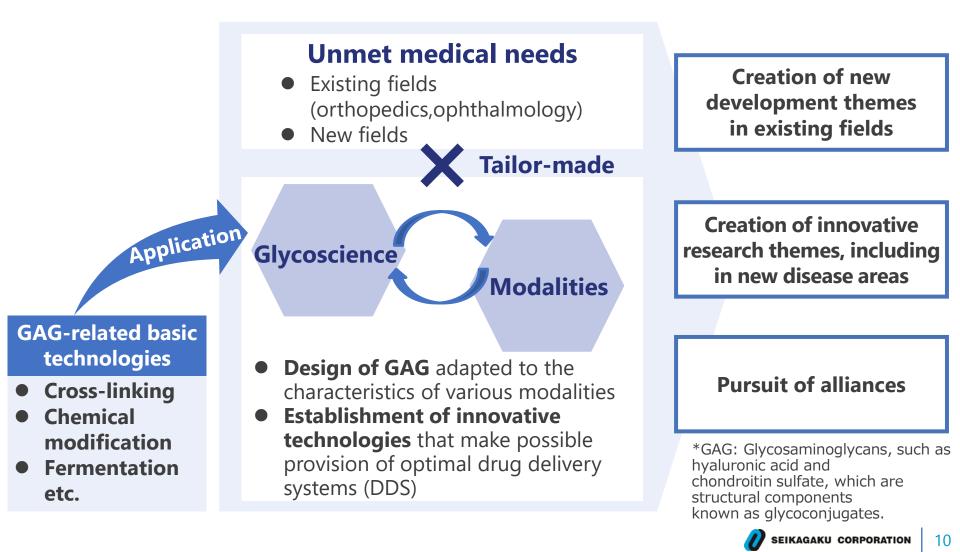
#### **Business foundation**

Enhancement of employee engagement/ Organizational strengthening and human resource development





# Aim to leverage Seikagaku's GAG-related technologies to create products needed by patients



### I. Accelerate R&D Utilizing Unique Drug-Discovery Technologies

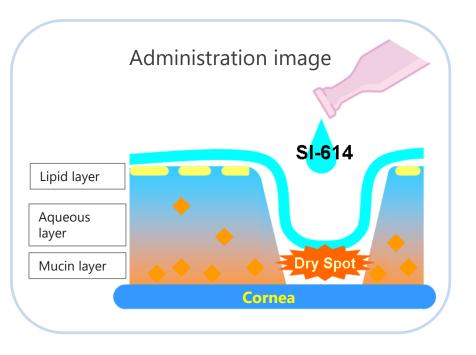
## **Pipeline List (Research and Development themes)**

Exploring the Innovative Promise of Glycoscience

I-614 US	SI-6603 US
	Target Market JP:日本
ed (February 2022)	US:米国
plication	Market approval
	SI-449 JP
	oplication



### Phase III clinical study in the U.S. initiated in May 2022 Aiming to complete the Phase III study during the period of the mid-term management plan



#### **Development status**

- ► U.S. : P III
  - **Initiated May 2022**
  - Clinically beneficial effects confirmed in PII/PIII clinical studies
  - Evaluation of efficacy and safety

## **Expected Features**

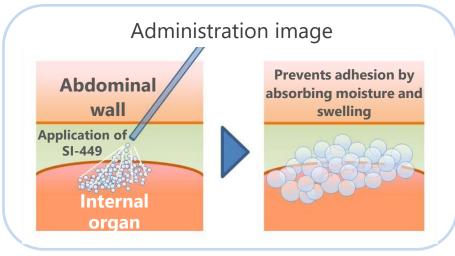
- SI-614 Improves symptoms of dry eye by protecting the ocular surface and promoting corneal epithelial wound healing
- Dry Eye is a multifactorial disease, and Seikagaku aims to provide a treatment option based on a new mechanism unavailable from existing products

<SI-614 summary>
Dev. Code : SI-614 Generic name : Modified Hyaluronate
Product name : Dry eye Formulation : Ophthalmic solution
Estimated U.S. patients : 14 million (Seikagaku estimates)



## SI-449 (Adhesion Barrier / Medical Device)

## Subject enrollment for pivotal study completed in September 2022 Aiming to obtain approval and initiate a clinical study in the U.S. during the mid-term management plan period



## **Expected Features**

Leveraging pulverized characteristics to respond to healthcare needs through the spreading use of laproscopic surgery

## **Development status**

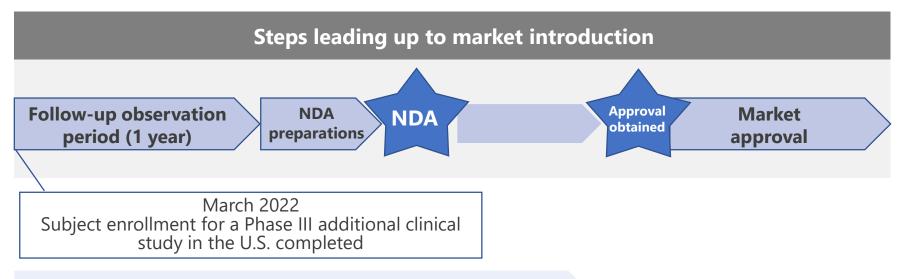
- Japan pivotal study(field of gastroenterological surgery) Starting May 2020
  - Evaluated for effectiveness, safety, and usability
     ⇒Subject enrollment complete in Sept. 2022
- Japan pilot study (field of gynecology) Starting November 2021
  - Confirming operability and safety
  - Aiming to expand range of applications
  - ⇒Subject enrollment complete in May 2022
- Proceed with development with a view to global development; Start of U.S. study under review

<SI-449 summary> Dev. Code : SI-449 Generic name : Cross-linked chondroitin sulfate Product name : Adhesion barrier Method of use : Intra-abdominal application (powdered formulation) Adhesion barrier market : Japan: ¥14 billion, Global: ¥100 billion (Seikagaku estimates)





### Obtain clinical study findings during FY2025 Aim for an NDA and approval during the period of the current mid-term management plan

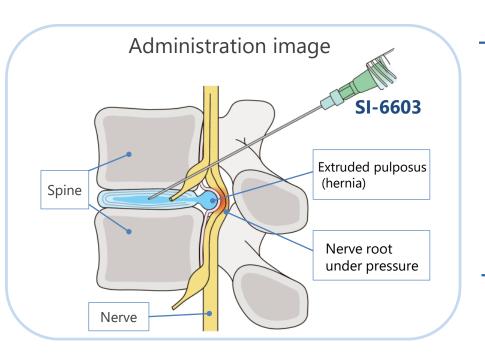


- Cooperation with SNA\* in prompt and accurate NDA and response to regulatory review to obtain approval
- Timely, close communication with the regulatory authorities
  - Sales preparations in cooperation with the sales partner
  - Construction of a stable supply system

\* SEIKAGAKU NORTH AMERICA: Established in January 2022 in Canada with the aim of accelerating development of pharmaceuticals and medical devices and obtaining regulatory approval



## Aim to provide new options in lumbar disc hernia treatment and maximize product value through early market penetration



## **Expected Features**

- Relieving symptoms by decreasing intradiscal pressure and reducing the pressure on the nerve root by single injection
- It can be administered without general anesthesia, and the administration can be less invasive for the patient compared to surgical technique because of direct intradiscal injection

## Estimated U.S. patients

New patients with lumbar disc herniation : 3 to 5 million per year (Seikagaku estimates)

<SI-6603 summary> Dev. Code : SI-6603 Generic name : Condoliase Indication : Lumbar disc herniation Method of use : Injection into Iumbar disc (under X-ray observation)



III. Maintain and Enhance the Business Value of Joint Function Improving Agents Maintain and Enhance the Business Value of Joint Function Improving Agents

Exploring the Innovative Promise of Glycoscience

Pursue corporate value enhancement through maximization of Seikagaku products in the market for joint function improving agents and cost structure improvement

Maximization of Seikagaku products in the market for joint function improving agents

ARTZ

 Share expansion through switching from competing products JOYCLU

- Conduct of clinical research to identify the cause of shock and anaphylaxis
- Continuation of information provision to ensure appropriate treatment and measures

#### **Cost structure improvement**

- Packaging material specification change
- Manufacturing process efficiency improvement

# Maintenance and enhancement of business value that supports business management





## Safety Information on Joint Function Improving Agent JOYCLU

Blue Letter (rapid safety information) issued in June 2021 Seikagaku is further raising awareness among healthcare professionals and taking measures to identify the cause

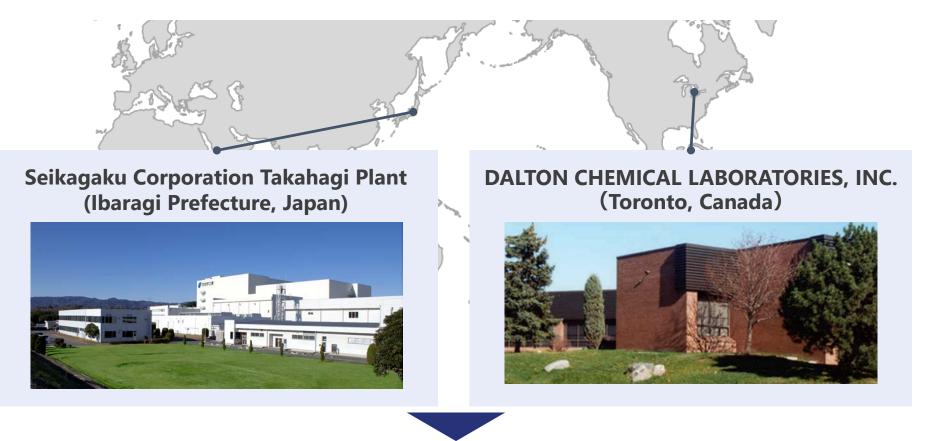
**Dear Healthcare Professionals Letter of Rapid Safety Communication (Blue Letter)** issued on June 1 in response to multiple reports of anaphylaxis occurring in patients following administration of JOYCLU

- To ensure patient safety by promptly alerting healthcare professionals of the situation to enable the provision of appropriate treatment and measures
- Addition of a WARNING section to the drug package insert and revision of the IMPORTANT PRECAUTIONS section
- Leaflet created to alert patients and their families to the risk of side effects
- Continued gathering of safety information and provision of safety-related information
- Physician-led clinical research to identify the cause initiated in April 2022

Continue gathering of safety information and provision of safety-related information in collaboration with sales partner Ono Pharmaceutical Aim to contribute to appropriate treatment on the basis of clinical research findings



## Further reinforce a stable supply of products on the basis of a GMP-compliant, appropriate governance system



Undertake construction of a global production system with Japan and North America as dual production bases, including transfer of production of some products



# Aim to be a leading company in the market for recombinant endotoxin detection reagents and glucan detection in vitro diagnostics

#### **Pursuit of Unique Value**

Refine the joint development system on the basis of further collaboration with ACC.\*

Next-generation products (recombinant technologies, new reagents, new measurement systems)

#### **Collaboration with Affiliated Companies**

Create value from business models and operating systems that cannot be created independently

Automatic measurement devices



\* Associates of Cape Cod: Overseas subsidiary responsible for overseas expansion of the LAL business

Creation of unique value that competitors cannot imitate in a market with strong customer needs



## Accomplish a transformation necessary from a long-term perspective in addition to continuation of current businesses and product improvement

## **1. Endotoxin detection reagent business**

- Acceleration of global expansion of endotoxin detection reagents leveraging recombinant technologies
- Accumulation of reliable scientific data utilizing PyroSmart NextGen Recombinant LAL Reagent (launched in 2021) and market penetration and sales promotion through support for early adopters

## 2. Diagnostics business

- Increase in the number of countries where glucan detection in vitro diagnostics are sold and acceleration of new expansion into the hospital market
- Progress in development of recombinant glucan detection in vitro diagnostics and product portfolio expansion

## 3. Measurement equipment and software business

 Promotion of development and improvement of automatic measurement equipment and software in Japan and overseas in collaboration with an affiliated company

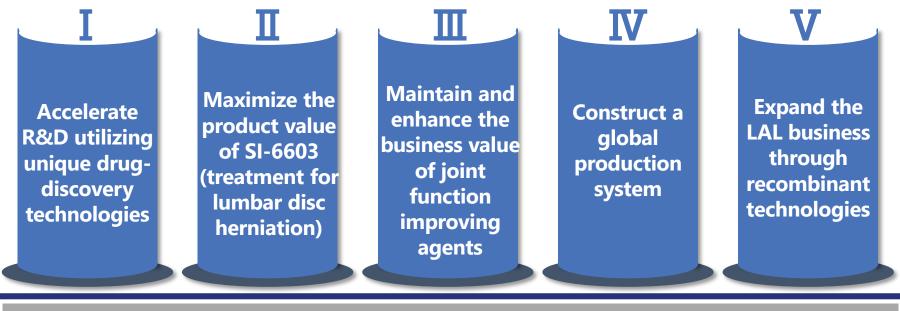


## Key Measures Overview of Key Measures -Business Foundation

Exploring the Innovative Promise of Glycoscience

Introduction of a new HR system in October 2022 Work to solidify the business foundation for achieving sustained growth through enhancement of employee engagement as well as organizational strengthening and human resource development

## **Five Key Measures (Strategic Pillars)**



## **Business foundation**

Enhancement of employee engagement/ Organizational strengthening and human resource development









Seikagaku has identified important issues that should be addressed on a priority basis in the interest of achieving sustainable development of society and enhancement of corporate value





Seikagaku will focus on initiatives related to these material issues, which will become the foundation for the key measures in the mid-term management plan



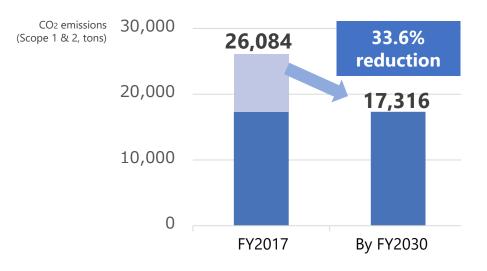
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Healthcare	<ul> <li>Acceleration of multinational expansion and new drug development.</li> <li>Strengthening and utilization of original GAG-related basic technologies</li> <li>Product improvement and post-marketing product development aligned with medical needs</li> <li>Related material issues : ①、②、③</li> </ul>
Environment	<ul> <li>CO2 emissions reduction (33.6% reduction from the reference year by FY2030)</li> <li>Zero waste emissions and promotion of use of recycled raw materials</li> <li>Biodiversity preservation activities, including reduction or elimination of use of animal-derived materials in products</li> <li>Related material issues : 6</li> </ul>
Society	<ul> <li>Strengthening of initiatives for respect of human rights in the supply chain</li> <li>Boosting of employee motivation through strengthened HR systems and introduction of diversity measures and work-life balance measures that lead to employee retention</li> <li>Related material issues : 5</li> </ul>
Governance	<ul> <li>Development and operation of a highly effective corporate governance system</li> <li>Fostering of compliance awareness and a quality culture</li> <li>Enhancement of preventive maintenance activities for a stable supply of products</li> <li>Related material issues : ④</li> </ul>



## Initiate measures during the period of the current mid-term management plan aimed at reducing CO<sub>2</sub> by 33.6% from the FY2017 level by FY2030



## 1. Energy saving

- Conversion to LED lighting at plants and laboratories
- Review of air conditioner operation, such as introduction of nighttime mode

## 3. Updating of equipment

 Modification to the filtration method used for sterile water for injection production equipment

## 2. Fuel conversion

Conversion of boiler fuel to liquid natural gas (LNG)

## 4. Introduction of renewable energy

• Introduction of solar power and other renewable energy sources



# Numerical Targets and Basic Policy on Profit Distribution



## **Numerical Targets**

	FY2021 results	FY2025 target	
Net sales	¥34.8 billion	¥40.0 billion	
Operating income	¥4.4 billion	¥7.0 billion	

≪Assumptions≫

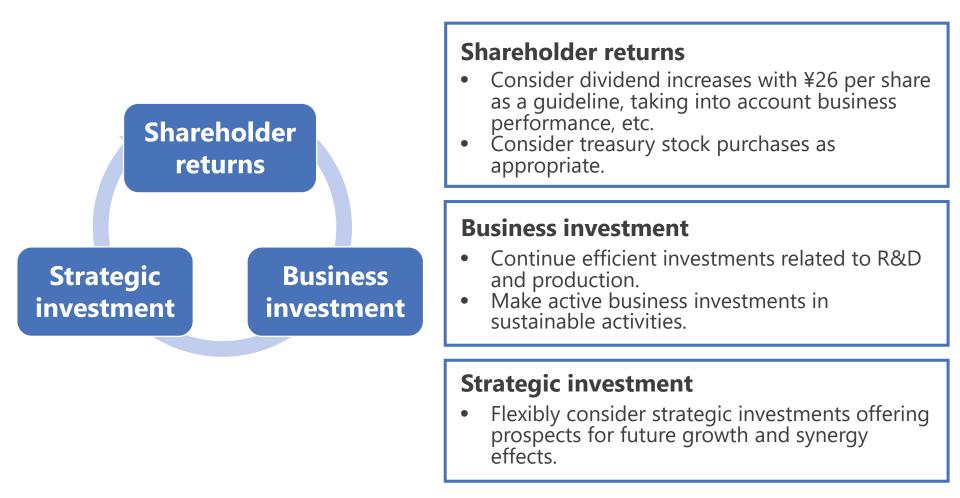
- U.S. market introduction of SI-6603 (treatment for lumbar disc herniation)
- Profit expansion from joint function improving agents in Japan
- Expansion of the overseas pharmaceutical and LAL businesses
- Ratio of R&D expenses to sales (excluding royalty income): target of 25%
- Exchange rate: ¥135/US\$1



## Aim to achieve record-high business results



## Make investments for sustained profit growth and corporate value enhancement and pay stable dividends





## Resolution to revise the dividend in accordance with the dividend policy Now purchasing treasury stock

#### FY2022

**Annual dividend :** <u>**¥26 per share**</u> (including an interim dividend of ¥13) <u>Reference information</u> Previous forecast announced May 13: Annual dividend of ¥22 per share (including ¥11 interim dividend)

	FY2018	FY2019	FY2020	FY2021	FY2022 (forecast)
Net profit per share	¥39.76	-¥192.15	¥75.54	¥66.32	¥48.12
Annual dividend per share	¥26.00	¥26.00	¥24.00	¥30.00 <sup>*2</sup>	¥26.00
Dividend payout ratio	65.4%	-	31.8%	45.2%	54.0%

\*1 Includes JOYCLU approval commemorative dividend of ¥4 \*2 Includes JOYCLU launch special dividend of ¥10

## **Treasury Stock Acquisition**

Total number of shares to be acquired: 2,000,000 shares (maximum) Total value of shares to be acquired: ¥1.5 billion (maximum) Acquisition period: May 16, 2022 to December 30, 2022

#### Totals as of October 31, 2022

Total number of shares acquired: 1,327,800 shares Total amount of acquisition cost: ¥1,127,473,900





#### **Business foundation**

Enhancement of employee engagement/ Organizational strengthening and human resource development

## Nurture the capability to maintain a constant growth trajectory by energetically implementing the key measures



#### ■ Cautionary Notes

This material contains forward-looking statements regarding future management strategies or performance forecasts. These descriptions are based on judgments derived from information that is currently available to Seikagaku and are subject to risk and uncertainty. Actual results and developments may differ significantly from these descriptions due to various factors. Information about pharmaceutical products or medical devices (including products currently in development) contained in this material is not intended to constitute an advertisement or medical advice.



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