

### **Business Results for Fiscal 2023**

May 10, 2024 TSUMURA & CO. Agenda





### Moving Towards Realizing the Long-Term Management Vision—TSUMURA VISION "Cho-WA" 2031

## O2Business Results for Fiscal 2023 and EarningsForecast for Fiscal 2024

Progress in US development (TU-100)



### Moving Towards Realizing the Long-Term Management Vision—TSUMURA VISION "Cho-WA" 2031

President & Representative Director, CEO Terukazu Kato

### Aiming to Establish a Global Standard for Pharmaceuticals Derived from Natural Ingredients



Corporate Purpose Cively Living for Everyone Corporate Value Best of Nature and Science Creation of shared value with society Science

Creation of new value through pharmaceuticals and products derived from natural substances Sustainable, stable supply of pharmaceutical products such as Kampo formulations, which are traditional pharmaceuticals

#### Materiality (Priority issues)

Nature	Health
<ul> <li>Sustainable procurement of raw materials (research on cultivation of crude drugs, etc.)</li> <li>Recycling use of resources (recycling of water and crude drug residue)</li> <li>Preservation of biodiversity (restoration of forests, soil, water sources)</li> <li>Climate change countermeasures (realization of carbon neutrality)</li> </ul>	<ul> <li>Expansion of access to high-quality pharmaceuticals and products derived from natural substances</li> <li>Expansion of the standardization of Kampo treatments and building of evidence</li> <li>Initiatives for personalized Kampo treatments through cutting-edge technology</li> <li>Contribution to health suitable for each individual's life stage (treatment, pre-symptomatic disease, healthcare (prevention))</li> </ul>

#### Reinforcement of business foundations

Strengthening and enhancement of corporate governance

- Utilization of diverse human resources
- Cultivation of a corporate culture that draws out potential abilities through dialogue

### Realization of a Global Quality for Pharmaceuticals Derived from Natural Ingredients



Pharmaceutical requirements: Possesses therapeutic benefits (efficacy) but no side effects (safety)

Degree to which requirements are fulfilled: Confirmed in studies (clinical trials)



Investigational new drug (IND): Gold standard quality



The efficacy and safety of pharmaceutical products is guaranteed through the constant supply to the front lines of medicine of pharmaceutical products that are equivalent to INDs evaluated in clinical trials.



Good quality pharmaceutical products are those products for which the efficacy and safety is guaranteed to be constantly equivalent to those that have been clinically confirmed ⇒ Pharmaceutical products that have been standardized to guarantee their

medical reproducibility

### Standardization to guarantee medical reproducibility [High level of difficulty]





#### Shakuyaku (peony root) divergence distribution

(For peoniflorin divergence (measured value - mean value) × 100/mean value)



#### TJ-68 divergence distribution

(For peoniflorin divergence (measured value - mean value) × 100/mean value)



### Roadmap for achieving the TSUMURA VISION "Cho-WA" 2031

		1st stage FY2022-2024 -Germination-		2nd stage FY2025-2027 -Growth-		3rd stage FY2028-2031 -Flowering-
Prescription Kampo business		Standardization of Kampo treatment Personalization of Kampo treatment	*	50% or more of physicians prescribing 10 or more prescriptions		50% of physicians writing basic prescriptions in all treatment areas
Research and development		Personalization of Kampo treatment / Scientific study of pre-symptomatic diseases	Research	Develop		Social implementation
	Formulation platform Traditional Chinese medicinal products Entry Build infrastructure		ucture	Establish brand		
China business	Crude drug platform	Crude drug, drug pieces, and Yakushokudogen products	Expand sales	Establish brand		Lead industry development
	Research platform	Traditional Chinese Medicine Research Center	Establish	Expand functions		Develop evidence for traditional Chinese medicinal products
Smart factory		Expand scope (	of automation	Shift to monit managem		Realize smartification of factories
	Sales	Sales per MR (yen/MR) Physical labor productivity (box/person) Labor costs for the amount of arranged crude drug (yen/ton)				
Labor productivity	Production					Productivity doubled
	Crude drugs					(compared to fiscal 2021)

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### Three Important Medical Domains that are Urgent Issues in Japan





### Increasing trend of diseases in related fields with the increase in the elderly population

Estimated that the number of patients with dementia , chronic heart failure and frail is trending upward in tandem with the increase in the number of elderly



### Domain related to the Elderly, Contributing to the Extension of a Healthy Life Expectancy

Research pipeline for drug-fostering program formulations and growing formulations



2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022 2023

### Vision for the China business: Contributing to the health of the citizens of China

	First medium-term management plan FY2022-2024	Second medium-term management plan FY2025-2027	Third medium-term management plan FY2028-2031	
Formulation platform	Enter the traditional Chinese medicinal products business M&A of a traditional Chinese medicinal products company Apply for classical prescriptions	Build a foundation for the traditional Chinese medicinal products business External sales ratio: More than 50%	Establish a brand as a traditional Chinese medicinal products company Industry top 10	Sales outlook RMB <b>7</b> billion or more
Crude drug platform	Increase sales of crude drugs, drug pieces, and Yakushokudogen product External sales ratio: More than 50%	Establish a brand for crude drugs, drug pieces, and Yakushokudogen products Expand sales routes to public hospitals (including M&A)		Sales outlook RMB <b>3</b> billion or more
Research platform	Establish the Traditional Chinese Medicine Research Center	Expand the functions of the Traditional Chinese Medicine Research Center	Build evidence in traditional Chinese medicinal products	

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#### China Business/Crude Drug PF: Products/Services Owing to TSUMURA **High-Quality Crude Drugs**



Strengthen crude drug procurement function for Japan and for China (fortify collaboration systems with local production companies)



### Sustainability Vision : Living with nature for tomorrow.

Target 2031 Key initiative themes	1st medium-term management plan FY2022-FY2024 FY2025-FY2027	3rd medium-term management plan FY2028–FY2031					
	Introduce solar power generation	Switch from gas to new fuels					
Reduce GHG emissions by 50%	Switch to renewable energy						
	Further save on energy usage (reduce consumption per unit)						
Convert to eco- friendly packaging	Partial substitution Portion of packaging materials Switch to plant-based or recyclable materials	Total substitution Use new materials Switch to mono-materials Promote deplasticization					
	Promote the use of recycled water	Promote water resource conservation					
Recycle water and waste	Crude drug residue Establish methods for use and processing Promote recycling Fuel at plants Fertilizer in crude drug cultivation	High value-added use <ul> <li>Fuel, raw materials</li> <li>Conversion to feed, etc.</li> </ul>					

### Improve Evaluations by Environment-related Rating Agencies









Moving Towards Realizing the Long-Term Management Vision—TSUMURA VISION "Cho-WA" 2031

### 2 Business Results for Fiscal 2023 and Earnings Forecast for Fiscal 2024

Progress in US development (TU-100)



# Business Results for Fiscal 2023 and

Earnings Forecast for Fiscal 2023

Director, and CFO Muneki Handa

### **Business Results for FY 2023**



[Million yen]	Revised forecast for FY 2023	FY2023	Vs.planned	ΥοΥ		
	(Revised on February 6)	results	vs.planneu	Amount	Change	
Sales	152,000	150,845	99.2%	+10,801	+7.7%	
Domestic business	133,300	132,099	99.1%	+7,400	+5.9%	
China business	18,700	18,745	100.2%	+3,400	+22.2%	
Operating profit	19,500	20,017	102.7%	(899)	(4.3)%	
Domestic business	20,100	20,531	102.1%	(658)	(3.1%)	
China business	(600)	(514)	-	(240)	_	
Ordinary profit	22,400	23,493	104.9%	+40	+0.2%	
Profit attributable to owners of parent	16,200	16,707	103.1%	+225	+1.4%	
PL translation rate (CNY)	19.00	19.83	_	+0.28	_	

Prescription Kampo Products 83.8%

Ratio to total sales

China business : Crude Drug Platform 12.4%

Domestic business : OTC Kampo etc. 2.9%

Domestic business : Other prescription pharmaceuticals 0.9%

\*Forex rate at the time overseas subsidiaries' PLs were incorporated; differs from the import rate for raw material crude drugs



### Net sales and profits at each level nearly in line with revised plan

Net sales	150,845	million yen	Achievement rate	99.2%	YoY	+7.7%				
Domestic business	5 Total sales of the	129 prescription Kamp	o products : 126,357 mil	lion yen,up 5.9%	year-on-yea	r				
Total sales of OTC Kampo formulations and other healthcare products: 4,439 million yen, up 11.9% year-on-year										
China business	Raw material crude d	rugs, drug pieces, Yakı	ishokudogen products, etc	.: 18,745million	yen,up 22.29	% year-on-year				
Operating profit	20,017	million yen	Achievement rate	102.7%	YoY	(4.3)%				
Operating profit margin	13.3	%	vs. Plan	+0.5pt	YoY	(1.6)pt				
Cost-to-sales ratio: 54.4	%, down 0.5pt vs.	plan and a rise of 3.2	pt year-on-year							
Versus plan: Manufacturi crude drug procurement continuing to trend at a l	expense, deprecia	-	-	-	• •					
SG&A ratio: 32.4%, up 0	.2pt vs. plan and d	own 1.4pt year-on-y	ear							
Year-on-year: Sales grov	th absorbed grow	th investments, inclu	ding the DX of R&D and	the Kampo Valu	e Chain					
Ordinary profit	23,493	million yen	Achievement rate	104.9%	YoY	+0.2%				
<ul> <li>Foreign exchange gai</li> </ul>	n primarily related	to loans to overseas	subsidiaries: 2,193 mill	ion yen, up 684	million yen ye	ear-on-year				
*Foreign	exchange gains of 1,	338 million yen were r	ecorded at the time of the	February 7 revise	d forecast revi	sion.				
Profit attributable to owners of parent	16,707	million yen	Achievement rate	103.1%	у УоУ	+1.4%				
	Posted	extraordinary loss (	impairment loss and CO	VID-19 related lo	oss) in the pr	ior fiscal vear				

### Factors Triggering Changes in Operating Profit (YoY)

(Million yen)



### Financial Condition/Cash Flow Position for FY 2023

			(Million yen)
	<b>FY 2022</b> (March 2023)	<b>FY2023</b> (March2024)	Change
Total assets	396,813	428,254	31,440
Current assets	268,320	281,292	12,971
Non-current assets	128,492	146,961	18,469
Total liabilities	124,566	132,889	8,322
Current liabilities	47,205	68,557	21,352
Non-current liabilities	77,361	64,332	(13,029)
Total net assets	272,246	295,364	23,118
Equity ratio	63.5%	63.2%	(0.3)pt

	<b>FY 2022</b> (March 2023)	FY2023 (March2024)	Change	Of which, Exchange rate
Inventories	101,726	117,617	15,889	589
Merchandise and finished goods	11,257	12,139	881	290
Work in process	14,430	18,309	3,878	142
Raw materials and supplies	76,038	87,168	11,130	156



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### Domestic Business : Sales of Drug-fostering Program Formulations/Growing Formulations



		1				(Million ye	en)
	Net sales Ranking	Product No./formulation name	FY 2022	FY 2023	Yo	Y	
Dru	1	100 Daikenchuto	9,739	9,851	+111	+1.1%	
g-fost forr	3	43 Rikkunshito	7,300	7,454	+153	+2.1%	Ratio to total sales
tering nulati	4	54 Yokukansan	7,380	7,447	+66	+0.9%	Drug-fostering
Drug-fostering program formulations	9	107 Goshajinkigan	3,421	3,698	+276	+8.1%	program
ram	24	14 Hangeshashinto	1,390	1,448	+57	+4.2%	<b>24%</b>
Total s	sales for dru	ug-fostering program formulations	29,233	29,899	+666	+2.3%	129
Gro	2	41 Hochuekkito	7,727	7,956	+228	+3.0%	prescription 119 formulations Growing
Growing	5	17 Goreisan	6,208	6,869	+660	+10.6%	other than drug-formulations
	6	24 Kamishoyosan	5,050	5,117	+66	+1.3%	and growing formulations
formulations	17	108 Ninjin'yoeito	2,128	2,305	+177	+8.3%	57%
ons	18	137 Kamikihito	2,067	2,290	+223	+10.8%	
	Total sales	for growing formulations	23,182	24,539	+1,356	+ 5.9%	
		19 formulations other than drug- gram and growing formulations	66,946	71,918	+4,971	+7.4%	
Total	sales for 1	29 prescription Kampo products	119,362	126,357	+6,994	+ 5.9%	

### China Business: Crude Drug Platform Business Sales Expansion

By expanding sales of Crude Drug Platform , we have achieved our business plan in China.



companies as a

raw material

pharmacies

\*Local currency basis: 20.4% growth



### **Earnings Forecast for Fiscal 2024**



### Forecast of increased sales and profit /First Medium-Term Management Plan is expected to achieve its numerical targets

achieve its numerical targets								
[Million yen]	FY 2023	FY 2024	YoY		Management Plan			
	Results	Earnings Forecast	Amount	Change	Numerical targets			
Net sales	150,845	185,000	+34,154	+22.6%	(fiscal 2024)			
Domestic business	132,099	163,400	+31,300	+23.7%	Net sales: ¥ <b>162.0</b> billion			
China business	18,745	21,600	+2,854	+15.2%	Operating profit:			
Operating profit	20,017	39,500	+19,482	+97.3%	¥ <b>29.0</b> billion			
Domestic business	20,531	39,490	+18,958	+92.2%	ROE: <b>8</b> %			
China business	(514)	10	+524	_	Versus the First Medium-Term			
Ordinary profit	23,493	39,500	+16,006	+68.1%	Management Plan Although there was negative impact from a rise in a portion of crude drug			
Profit attributable to owners of parent	16,707	28,500	+11,792	+70.6%	expenses, mainly wild crude drugs, a depreciation in the yen's value against major currencies, and ongoing high expenses for raw materials and energy,			
Income statement exchange rate (JPY/RMB)	19.83	21.00	+1.17		we expect to achieve all our indicators (sales, operating profit, ROE) in the First Medium-Term Management Plan owing to			
ROE	6.4%	10.0%			a boost in drug prices reflecting the recalculation of unprofitable products			
EPS	219.83円	375.35円	factored into the earni	hange impact (non-opera ings forecast given the dif pased on the status of the	ficulty to reasonably			

### FY 2024: Factors Triggering Changes in Operating Profit in the Domestic Business



- Although factors in the external environment, including inflation, continue to be harsh, we look for profit growth owing to NHI drug price revisions (recalculation of unprofitable products)
- Plan to implement investment, mainly to strengthen the stable supply system



### Domestic Business : The Status of Expansion for Information Provision Activities

In FY 2023, detailing impact rose 140% versus the previous year, in particular epromotion growth was up 180%

In FY 2024, we plan to further expand information provision activities, mainly through e-promotions



### Domestic business: Trends in the Number of Physicians Writing 10 or More Prescriptions for Kampo Pharmaceuticals



The number of physicians writing 10 or more prescriptions for Kampo pharmaceuticals

increased by approximately 23,000 physicians, a ratio of 39%

Aim to achieve a ratio of 50%-plus, owing to the implementation of hybrid promotions

\*Trend in the number of physicians writing 10 or more prescriptions for Kampo pharmaceuticals





### China business: Achieve operating profit

- In the crude drug platform, we estimate sales CAGR of 30%
- In FY 2024, we plan an improvement in the operating profit margin owing to an expansion in scale that focuses on profitability

### Crude drug platform policy

### "Expand scale focusing on profitability"

- Emphasis on improving profit margins
- Expand sales mainly to business partners that recognize the value of high quality



Net sales and operating profit margin in



Invest to further strengthen the stable supply system





### Initiatives for the Visualization of Non-financial Value of Tsumura's Business Operations







\*1: Model developed by Ryohei Yanagi employed in the "CFO Policy (CHUOKEIZAI-SHA HOLDINGS, INC. 2020)" \*2: One analytic method in Digital ESG Data Analytics of ABEAM Consulting Ltd.

### Initiatives for the visualization of the relevance of prefinancial capital and corporate value improvement



Goal: Visualization of the relevance of initiatives related to pre-financial capital and the corporate value improvement Analyze issues through visualization to contribute to the improvement of initiatives

Analytic method: Overview (Yanagi model) analysis \*1
 Value relevance analysis
 (Implement analysis: ABEAM Consulting Ltd., Digital ESG Data Analytics)

◆ Example of analysis: Results of overview analysis (excerpt)

#### **Employment**

Promotion rate (female employees)

<u>1% increase  $\rightarrow$  PBR improved 0.27% after two years</u>

### **Employee health**

Health checkup rate

<u>1% increase  $\rightarrow$  PBR improved 12.72% after three years</u>

#### Work-life balance

Paid leave acquisition rate (All employees)

#### <u>1% increase $\rightarrow$ PBR improved 7.37% after two years</u>

◆ Average number of days of childcare leave taken (female employees)

<u>1% increase  $\rightarrow$  PBR improved 1.25% after one year</u>

Average period of childcare leave taken (female employees)

<u>1% increase  $\rightarrow$  PBR improved 0.28% after two years</u>

Implemented the aforementioned analysis (overview analysis/value relevance analysis) in FY2023 In the overview analysis, confirmed items with a positive correlation to pre-financial capital and PBR.

Implementing a detailed analysis of the results. In accordance with the analytical results, extract issues from each initiative to contribute to improvements. Results of detailed analysis is scheduled to be disclosed. Plan to continue to implement this analysis.

\*1: Analysis using the ABEAM Consulting Ltd. Digital ESG Platform in accordance with the model developed by Ryohei Yanagi based on the "CFO Policy (CHUOKEIZAI-SHA HOLDINGS, INC. 2020)"

### **ROE Improvement: Quickly Realize a Positive Equity Spread Early** On and Expand

#### Announced on November 7, 2023

ROE



- Earnings power
- Net sales growth
- Reduce cost of goods sold
- Curb the SG&A ratio
- The China business aims to secure a profit margin that is equivalent to or higher than the profit margin in the domestic business



- CCC improvement
- Manageable level of cash and deposits
- Sale of crossshareholdings
- Improving capital investment efficiency etc.

### Financial leverage

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- Secure financial soundness and pursue an optimal capital composition
- Use interest-bearing debt
- Equity ratio of 50%-plus

### \*Cost of equity: approx. 7%

Calculate using the CAPM Risk free rate: 2%; Risk premium: 6%,  $\beta$  value: approx. 0.8 \*Equity spread = ROE – Cost of equity

### Capital Efficiency Improvement: Initiatives to Improve the Balance Sheet

Improved B/S by curtailing the collection site for accounts receivables and decreasing cross-shareholdings



**Curtail the collection site for accounts receivables** 

Negotiate with business partners on collection sites for accounts receivables and

Reduce in stages by approximately 20%



### **Decrease cross-shareholdings**

Based on a policy with a principle of zero

From FY 2024, aim to realize fullfledged reduction and cut by half early on

\*Excluding shares with a purpose of forming a capital and business alliance

### **Cash allocation**



In addition to the Operating CF, create cash by improving the balance sheet, and allocate to the further growth of shareholder returns and business operations



Cash allocation(FY2024)

### Shareholder returns

- In FY 2023, per-share dividend hiked to 85 yen
- In FY 2024, we expect to payout a dividend of 136 yen in accordance with the shareholder return policy
- Aim for the realization of a DOE of 5%





3.6%

136

2.5%





Moving Towards Realizing the Long-Term Management Vision—TSUMURA VISION "Cho-WA" 2031

### 02 Business Results for Fiscal 2023 and Earnings Forecast for Fiscal 2024



### Progress in US development (TU-100)
# Progress in US development (TU-100)

Head of the International Pharmaceutical Research & Development Division

Atsushi Kaneko

TU-100: Developmental and investigational drug manufactured from a crude drug with the same composition as Daikenchuto for the domestic market



- 1. Complete Patient Enrollment for the Late Phase II Trial for TU-100
- 2. Tackle TU-100 US Development
- 3. Outlook Going Forward



## Chapter 1 Complete Patient Enrollment for the Late Phase II Trial for TU-100



https://clinicaltrials.gov/ct2/show/NCT04742907?term=TU-100&cntry=US&draw=2&rank=7

- Target disease: Postoperative ileus (POI)
- Trial format: Multi-center, randomized, double-blind, placebo-controlled trial
- Target cases: 402 cases
- Group structure: 15g/day group, 7.5g/day group, placebo group
- Patient enrollment period: July 2021 March 2024 (Two years and eight months)
- Main endpoints: Recovery time for gastrointestinal functions

The COVID-19 pandemic broke out in and after 2020. And given that rivals halted and/or suspended development, we completed patient enrollment with a target sample size of 402 cases in March 2024!



### Proceed as an amazing "single team"



#### 1-3. Initiatives for the TU-100 Trial





Multi-center, randomized, doubleblind, placebo-controlled trial, being participated in by 43 medical centers in the US Direct and detailed communication with centers participating in the trial





**Execute under a strict safety management system** by setting up a data safety monitoring committee Secure Kampo formulation manufacturing management technology and reliability to minimize lot-to-lot variation

**Provide a placebo drug** that utilizes the same manufacturing knowhow

Reconfirm medical needs to treat POI and expectations in herbal medicines



## Chapter 2 Tackle TU-100 US Development





In the US, domains in which the use of Western drug treatment is a difficult, we aim to help treatment for US patients through the development of Kampo formulations that will have a specific effect for diseases!





#### Going from unscientific to scientifically verified

2007 - 2015 Obtaining Evidence fo Daikenchuto* Stomach and esophagus team		for 2009 Daikenchuto adorned the introduction of "SURGERY," a US medical journal Kono T, Surgery 2009		2016 Launch the <b>"Study group on t</b> for Kampo—Responsibility fo		
	Liver surgery team			and Healthcare" in collaboration with industry, government, academia and related organizations		Consolidate 10-100 05
	Colon team Clinical pharmacology team					development into POI Move on to late phase II trial!
Basic pharmacology Scientific evaluation of safety and efficacy of Daikenchuto in the gastrointestinal area			Kampo medicine sympo Congress of ISS/SIC Australia (2009) Finland (2013)	osium at the World	on the Future Responsibility Healthcare" (	-
clinical evidence owing to suppor Announced rese Japan and abroa	e for diseases and rt from gastrointe earch results, incl	07 with the purpose of buildi d symptoms targeted by Daik estinal surgeons who are KOI luding at academic conference o promote the international e.	zenchuto _s.		Promote overseas deployment of Kampo formulations	

Boost the degree of international focus on Kampo medicines



#### **POI (Postoperative ileus) is an unmet medical need**

#### POI is a

- Pathological condition that impairs the peristaltic action of the intestinal tract due to abdominal surgery
- There are main causal factors and the progression of the disease is complex

#### US market evaluation of POI medicines: US HCUP database

• The probability of POI occurring is high in digestive system surgeries

Colectomy: 14.90%, other types of gastrointestinal resections: 18.63%

• The number of digestive system surgeries to continue to increase going forward

	2015	2019	2025
No. of surgeries with the potential of triggering POI	2.08 million	1.97 million	1.87 million
Portion of disgestive system surgeries	730,000	750,000	770,000 🕇

• The only treatment for POI is Alvimopan (µ-opioid receptor antagonist)

This data are the results of an analysis implemented in 2021 based on IQVIA data and a survey. IQVIA assumes no responsibility for any impact brought about from the use of these results.

#### 2-4. Unique Mechanism of Action of TU-100







#### US FDA released the first edition of the "Botanical Drug Guidance" in June 2004 Guidance for Industry on Botanical Drug Products

Measures to promote the development of herbal/botanical pharmaceutical products after presenting clinical evidence on the same level as a small-molecule synthetic drug:

- → Many herbal (botanical) drug manufacturers around the world applied for clinical trials and tackled development in the US
- → Issues arise that are unique to the quality control and clinical evidence regarding herbal (botanical) medicine (product)

December 2016: Released a revised edition of the "Botanical Drug Development Guidance" Botanical Drug Development: Guidance for Industry

> Keyword: Totality of the Evidence Regarding the ambiguity of safety and efficacy unique to botanical medicines (products), clarify evidence with respect to clinical evaluations, chemical/manufacturing management, management of raw material crude drugs, and biological quality control, and mutually request consistent management controls:

→ Promote development of botanical medicine (products) that fulfills the standardization of high quality, naturally including those dealing with safety and efficacy

## 2-6. Development Requirements for Botanical Medicines (Products)

Source: Revised Botanical Drug Development Guidance 2016 materials released by the US FDA

#### Approach unique to herbal medicines with large fluctuations in quality



Evaluate everything objectively/comprehensively, and derive highly reliable quality control methods

#### 2-7. Development Requirements for Botanical Medicines (Products) Sought by the US FDA: Drug quality control



Furthermore, the FDA requires the following:

✓ Develop a DNA testing method to confirm original (source) plants Scientific

 $\checkmark$  Identify specific compounds from among plant species, and quantify as a management indicator  $\frac{Specific}{Specific}$ 



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✓ Select and fix focus on several crude drug production areas that are geographically adjacent
 → Conduct a comprehensive physical chemistry examination of each crude drug lot, acquire crude drug quality in set production areas over a 3-5 year period, and geographically manage over time the quality originating from each production area

Stable supply of uniform crude drugs

#### 2-8. Development Requirements for Botanical Medicines (Products) Sought by the US FDA: CMC development

#### Features of botanical medicines: Variations between lots inevitable

- Multi-components (mix of diverse compounds)
- Extremely difficult to identify all substance levels
- Differences between lots, including variety of raw material plants, cultivation areas, harvest years, weather and agricultural methods



CMC: Chemistry, Manufacturing and Control

## 2-9. Obtained Results and Ripple Effect owing to US Development of TU-100 ①



	Results	Ripple effect	
	1. Clinical trial on safety/efficacy	Acquire evidence for TU-100 and deepen understanding of pharmacology	
4	2. Intestinal bacteria research	Accumulate knowhow for intestinal bacteria research	
~	3. Human blood pharmacokinetics	Pioneer of the same trial method for plant extraction formulations. $\rightarrow$ Enhance package insert	Expand/apply to
2	<ol> <li>Survey on frequency of side- effects</li> </ol>	Quantify safety data for Kampo medicine owing to a scale of data consisting of 3,000 cases	other Kampo medicines
	<ol> <li>Build a crude drug reference database</li> </ol>	Establish a method for a raw material crude drug lot comparison and management using a principal component analysis	Treasure the
(	<ol> <li>Systemize the quality control method in accordance with global standards</li> </ol>	Implement PIC/S GMP andGACP in Kampo manufacturing	Improve the quality of Kampo medicine

PIC/S : Pharmaceutical Inspection Convention and Pharmaceutical Inspection Co-operation Scheme. GMP: Good Manufacturing Practice. Standards related to manufacturing management and quality control GACP: G

GACP: Good Agricultural and Collection Practices.

#### 2-10. Results Obtained from the US Development of TU-100@





PHC : Personalized Health Care, PDS : Pre-symptomatic Disease and Science, PAD : Potential-Abilities Development



## Chapter 3 Outlook Going Forward

#### 3-1. Short-Term Plan



- Analysis of TU-100 clinical trial data (summer)
- Address FDA inquiries on the CMC\*1 development strategy
- Propose alliance activity policy



## Reset the master schedule for TU-100 US development Development activities for Phase III trial<sub>\*\*2</sub>



#### **Corporate Communications Dept.**

#### **Investor Relations Group**

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#### **Cautionary items regarding forecasts**

- The materials and information provided in this presentation contain so-called forward-looking statements. Readers should be aware that the realization of these statements can be affected by a variety of risks and uncertainties and that actual results could differ significantly.
- Changes in Japan or other foreign countries related to healthcare insurance systems or regulations set by medical treatment authorities on drug prices or other aspects of healthcare or in interest and foreign exchange rates could negatively impact the Company's performance or financial position.
- In the unlikely event that sales of the Company's core products currently on the market be halted or should sales substantially decline due to a defect, unforeseen side effect or some other factor, there could be a major impact on the Company's performance or financial position.



## Appendix

#### Revision rates for 2021 and 2023 are not disclosed because they are mid-year revisions.



## **Domestic Business: NHI Price Revision Ratio**

In the NHI price revision in FY2024, 66 prescriptions will be subject to recalculation of unprofitable products, with a weighted average increase of +21.6%.



### **Raw Material & Energy Expense Trends**

# Expense for raw materials used in the manufacturing of Kampo formulations and energy remain high level

(100 million yen)



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#### Crude Drug Procurement Costs: Procurement Price Index of Raw Raw Crude Drugs from China



\*1 Tsumura price index: Average weighted price based on the amount used by the Tsumura Group (2006 indexed at 100)

\*2 Proprietarily managed fields: Direct guidance by the Tsumura Group on cultivation can be performed, making it possible to grasp costs incurred during cultivation and set prices based on this. In the medium and long term, in comparison with the market, it will be possible to realize superior and stable procurement of high quality and high value crude drugs.

SUMURA



Resume operation of a portion of manufacturing lines at the Shanghai Plant, which was shut down for renewal construction, and increase unrealized profit owing to a recovery in the inventory for intermediate products in line with the start of shipments of powdered extract from the Tianjin Plant which acquired a license (in line with plan)



2.5 billion yen

## Domestic Business: Increase in production capacity

- In fiscal 2024, we will increase production capacity through full operation of the first phase in Tianjin and completion of the renewal of the Shanghai plant.
- Promote construction and early operation of the 2nd and 3rd phases in Tianjin Tianjin 2nd

