Pharma Delegates 34th Healthcare Seminar "Generics & Biosimilars: Trends & Strategies"

Off Patent Products Market Situation and Takeda-Teva in Japan

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- **1.** Role and Characteristics of Off Patent Products
- 2. Expected transformation of the Gx market
- 3. Takeda-Teva introduction

Classification of Ethical Drugs



Stage to solidify evaluation Remaining risks High drug price for higher efficacy	Established evaluation Abundant experiences to minimize risks Low drug price
	Off patent drugs / Established drugs
For Patients who need new treatment	Standard treatment drugs used for many years
Innovative drugs during patent term (New drugs)	Patent-expired innovative drugs (LLPs) *
< Patent term	Generic drugs (Gx)
Launch Patent Expiry	*Long listed products

Role and Characteristics of Long Listed Products and Generics



More affordable compare to same class on-patent products
High reliability based on longtime use (brand image)

Role to maintain and update safety and efficacy data (base product for generics)
Role to meet the additional customer needs (new indication, new dosage and administration, etc)

Long listed products (LLP)





- 2nd largest pharmaceutical market in the world
- Continued significant Gx penetration
- Strictly regulated market with strong incentive from government to reduce healthcare expenditures



Expected commercial changes

- AG sales become too large to ignore
- Move from Branded Gx market to INN Gx market
- High volume Gx growth is expected(~80% in 5Y) to meet the government penetration target
- Expected intensive price wars leading to relatively low price environment
- Stable supply is mandatory
- Blurred lines between traditional models (Branded LLP and Gx)
- Reduced revenues and OPs of all stakeholders



Expected structural changes

- New price regulation will **re-shuffle the Gx market**
- New business models
- Consolidation of industry stakeholders Gx suppliers, distribution, retail channels
- Increased pharmacists role and importance vs. physicians



The most important KSF for Gx companies are stability of supply and quality

- Government penalizes Gx companies that have supply /quality issues
- "Zero incidents" performance is expected from Gx companies
 - → stable supply officer to be nominated in companies, API supplier audit, second sourcing and quality improvement measures are mandatory
- We assume the government ultimate goal is to weed out small/medium companies that can't meet market required quality and demand to assure a reliable Gx industry







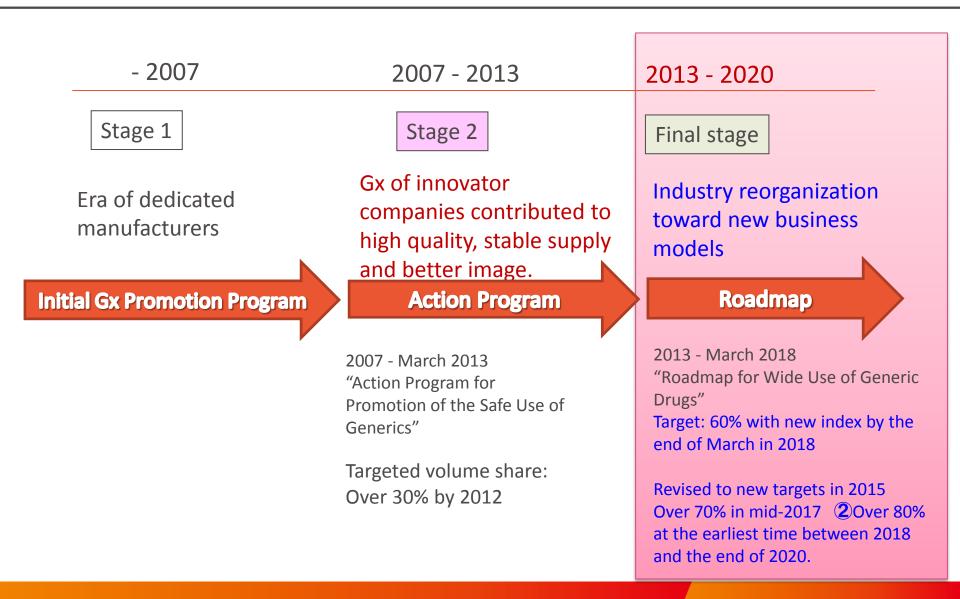
Each MR promotes both LLPs and Gx at the same time.

Common quality standard across Pfizer as established drugs.

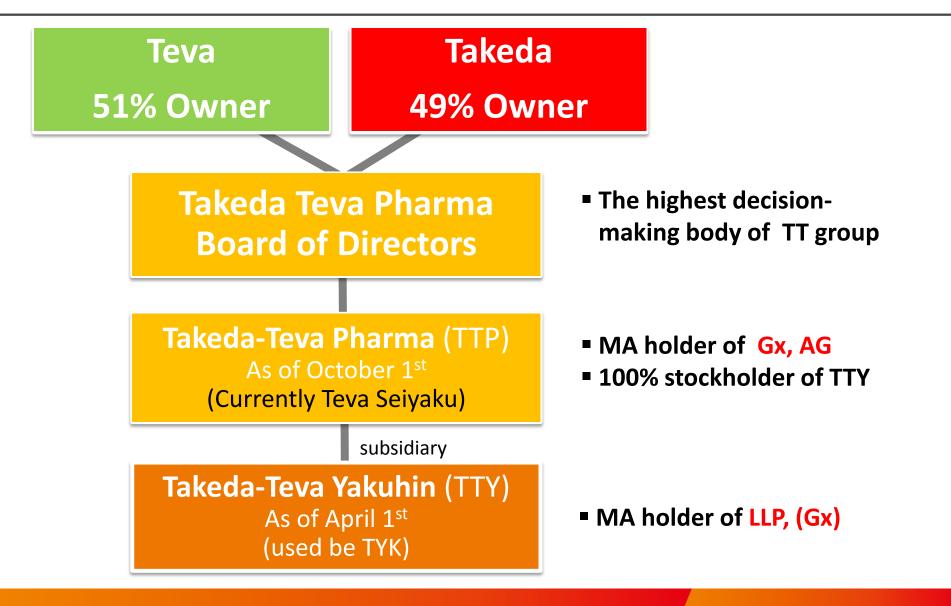
(It's Always Pfizer Standard)













- Largest pharma company in Japan
- Strong brand and reputation with 235 years history
- Outstanding distribution capabilities and relationship with WS



- Largest Gx company in the world with strong API sousing capability
- State of the art manufacturing and R&D capabilities
- largest foreign Gx company with broad portfolio in Japan



Brand:

Empowered by joining forces with Takeda's strong well established brand and reputation in Japan

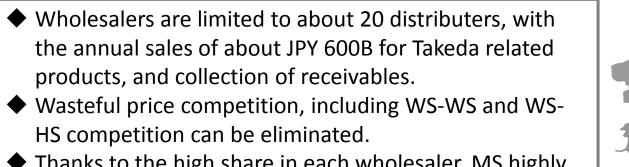
Commercial:

Joint sales force, consists of around 300 MRs, located in 6 Branches (26 district sales offices) across Japan

Unique Distribution Network:

Advanced distribution platform based on Takeda's channels for LLP, Gx & AG Products, outstanding distribution capabilities, relationship with national WS (Alfresa & Medipal) and access to all customer types

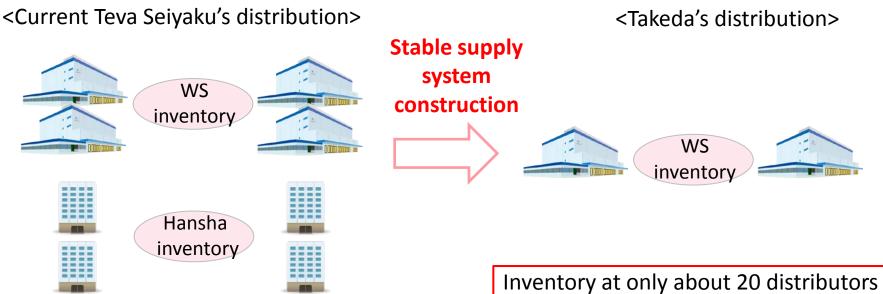




Thanks to the high share in each wholesaler, MS highly focuses on Takeda's products.



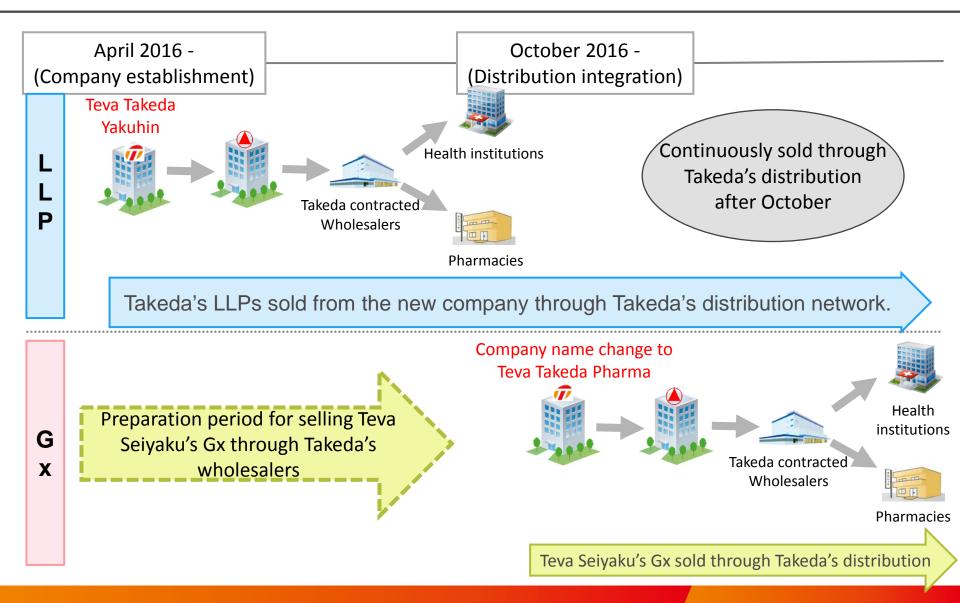




WS(Full line) + over 100 Hansha inventory Large burden of inventory management by Teva Inventory at only about 20 distributors Less inventory burden for Teva-Takeda

Improved wholesalers' awareness with inventory management by Takeda







Portfolio:

- More than 840 different products
- Main TAs: CVS, Oncology, CNS, Alimentary tract, Contrast Media, Anti Inflammatory, Antibiotics
- G-CSF (bio- similar)
- Robust pipeline consists of the major future off patent products in selected TAs

Operations Overview





Takayama (in Gifu prefecture)

- Focus: Takeda-Teva + CMO
- Tech.: OSD, INJ., niche (topical, oral liquid)



Koka (in Shiga prefecture)

- Focus: Takeda-Teva + CMO
- Tech.: OSD



Minakuchi (in Shiga prefecture)

• Focus: Packaging site

Takayama Manufacturing Site







- ✓ Introduced global Teva SOP in operation functions
- ✓ Actively hired capable specialists mainly from innovative pharma to reinforce our organizations
- ✓ Established global standard quality management system (QMS)
- ✓ Introduced global standard Sales & Operations Planning (S&OP) process
- ✓ Started long term stability test under ICH conditions for all products in 2014
- $\checkmark\,$ Started to set release test criteria to all products
- Proactively discontinued total 179 products based on quality risk assessment



- Newly launched "Quality and Stable Supply Initiative" as the key pillar of our company-wide "Build Foundation Project"
 - Review all products again form new Takeda-Teva point of view
 - Conduct quality risk assessment for all product
 - Identify the products which needs further improvement to avoid the probable lot rejection
 - Make road map to take necessary actions such as additional discontinuations, quality attributes improvement and manufacturing transfer to other CMO

Summary



- Off patent/Established drugs have important role for the next era of super aging
- Gx Business Model is entering the final stage that is industry reorganization stage toward new business models
- Takeda-Teva is the first- mover as new business model with enough capabilities to lead off patent drug market
- Takada-Teva will start full-scale business operation in October after 6 months integration period



