

Overview of Generic Drug Policy and Introduction of its Review Points/BE Guideline in Japan

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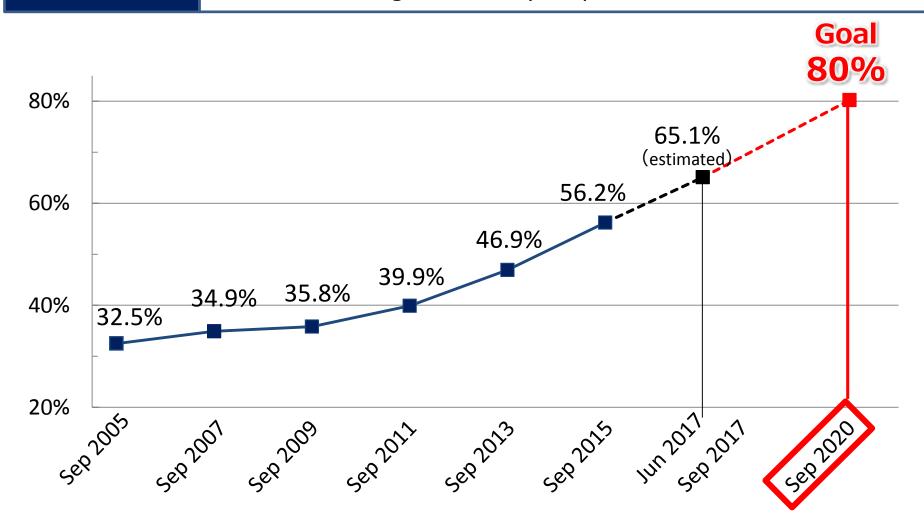
Guidelines

Quick overview of review process

Overview of Japan's Policy

Transition of Generic Drugs Market Share in Volume and its Goal

Goal of share in volume (Basic Policy in 2017) By September 2020, the ratio of generic drugs use in volume should be 80% and further promoting measures are studied to enable the goal as early as possible

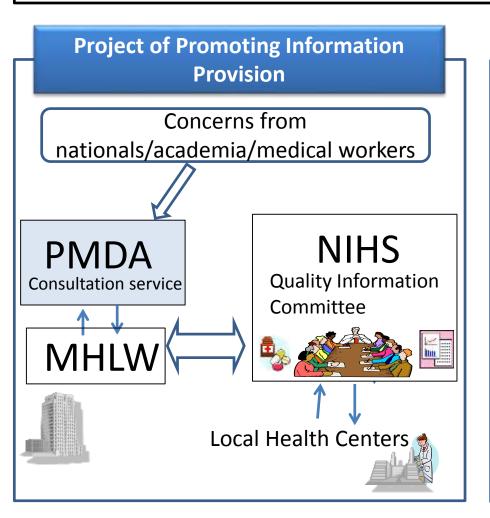


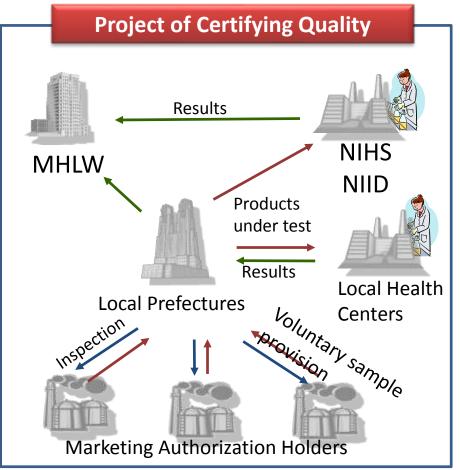
DATA source: MHLW

Joint Projects of Strengthening Quality Certification in Collaboration with Academia/Inspection

MHLW implements two main projects:

- Promoting information provision in collaboration with academia
- Certifying quality in the market as a part of inspection





Information Package of Quality of Prescription Drugs (Blue Book)

ジェネリック医薬品品質情報検討会

トップページ 讀事概要及び公開資料 試験結果一覧 プルーブック一覧 リンク

医療用医薬品最新品質情報集(ブルーブック) データシート 一覧

ブルーブックについて

後発言薬品の品質に対する要なる債績性向上を図るため、ジェネリック医薬品品質情報検討会での検査結業等を施まえて、 有効成分等に品質に関する情報を体系的にとりまとめた医療用医薬品母新品質情報集(連称:ブルーブック)を作成し、 医療製係者向けに情報提供しております。

ブルーブックでは、有効成分毎に、品目名、効能・効能、用法・用量、素効分類、規格単位、効能物、解離定数、溶解度、 安定性、生物学的同等性試験活業、溶出試験活業、後異医薬品品質確保対策事業検査活業、分析法などの情報が掲載され ております。

注) ブルーブックデータシート上の情報について、効能・効果、用法・用量、添加物以外は、データシート作成時(データシート右上に掲載の日付の時点)の情報となります。効能・効果、用法・用量、添加物の情報は、ブルーブック連携データベースでご確認ができ、毎月末に情報が更新されます。

ブルーブック連携データベース (効能・効果、飛去・飛骨、条放物の比較) はごちら、「運営:(一財)日本医薬情報センター]

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※データシートおよび回表等の開新転載や遊覧を築じます。



関連リンク

他会医業品が使用を急について 原生労働者の中へ)。 使表医薬品品質情報 (原生労働者の中へ) おくずり報放室口 (PMI)Aの中へ) 日本ジェネリック医薬品学会 日本ジェネリック製薬協会 日本医薬精験会 日本医薬精験とファー(IAPIC) ブループック連携データベース JAPIC



 "Blue Book" has been published since March 2017.

(URL) Blue Book

http://www.nihs.go.jp/drug/ecqaged/bluebook/list.html

(URL2) Database collaborated with Blue Book, implemented by JAPIC

http://www.bbdb.jp/generic/toppage.as px

The Blue Book website publishes on quality-related information such as similarity of dissolution behavior, bioequivalency and collaborative development of generic drugs.

Introduction of Review Points and BE Guidelines

What are generic drugs?

Comparing with the original, brand drug, generic drug have the same:

- API (active pharmaceutical ingredients)
- Strengths
- Route of administration
- Dosage form
- Dose and administration
- Indications

Requirements for application/approval of generic drugs

- Expiration of re-examination period of the original product
- No valid patent (substance/utility patent for the active ingredient) at the time of approval
- Warranty of equivalent quality and bioequivalence to the original product

Requirements of data in application in Japan

	Documents	Originator	Generic
a. Origin or background of discovery, condition of use in foreign countries	 Origin or background of discovery Conditions of use overseas Special characteristics, comparisons with other drugs etc. 	0 0 0	× × ×
o. Manufacturing methods, specification and test methods	 Chemical/physical characteristics and structure property Manufacturing methods Specification and test methods 	0 0	х Д
:. Stability	Long-term storage tests Tests under severe conditions Accelerated tests	0 0	× × O
I. Pharmacological action	1 Tests to support efficacy2 Secondary pharmacology, safety pharmacology3 Other pharmacology	0 0 4	× × ×
e. Absorption, distribution, metabolism, and excretion	 1 Absorption 2 Distribution 3 Metabolism 4 Excretion 5 Bioequivalency 6 Other pharmacokinetics 	О О О × Д	× × × O ×
. Acute/sub acute/chronic toxicity, eratogenicity, and other type of toxicity	1 Single dose toxicity 2 Repeated dose toxicity 3 Genotoxicity 4 Carcinogenecity 5 Reproductive toxicity 6 Local irritation 7 Other toxicity	0 0 0 0 0 0	× × × × ×
g. Clinical trials	1 Results of clinical trials	0	×
n. Package inserts	1 Points to consider of package inserts	0	0

Note) O means necessary, \times means not necessary, and \triangle means to depend on each product

Data evaluated for approval

- 1. Manufacturing methods, specifications and test methods
 - (1) Specifications and analytical procedures
 - (2) Manufacturing methods
- 2. Stability
 - Accelerated tests (long-term storage tests and tests under severe conditions, in some cases)
- 3. Absorption, Distribution, Metabolism, and Excretion
 - Bioequivalence
- 4. Package insert

1(1). Specifications and analytical procedures

- The following tests are also considered generally applicable to generic drugs
 - Limits of the content of ingredient(s) and/or the unit of potency, Description, Identification tests, etc.

Assay

> Set acceptance criteria assuring the equal efficacy and safety based on the batch data and stability data, etc.

Impurities

- Equal or tighter acceptance criteria than that of the original drug in principle
- Review based on ICH guidelines (Q3A, Q3B, Q3C) about impurities which are not detected in the original drug

1(2). Manufacturing methods

- The Marketing Approval Document includes all processes from starting material(s) to packaging process
 - Starting materials, Intermediates, Critical steps, Inprocess control, Container closure system, etc.
- Applicants should demonstrate the manufacturing process is capable of consistently producing drug substance and drug product of the intended quality

2. Accelerated tests

- Applicants should submit accelerated stability data for 6 months
 - > At 40°C, RH 75%, 3 lots, for 6 months
- In some cases, applicants should also submit the following stability data at the time of submission
 - Long-term storage tests
 At 25 °C, RH 60%, 3 lots, for 12 months at least
 - Tests under severe conditions Photostability, etc.

3. Bioequivalence

- Assure therapeutic equivalence of a generic drug to its original drug
- Compare the bioavailability between a generic drug and its original drug

List of the BE guidelines (1)

- Guideline for Bioequivalence Studies of Generic Products + Q&A (February 29, 2012)
- Guideline for Bioequivalence Studies of Generic Products for Different Strengths of Oral Solid Dosage Forms + Q&A (February 29, 2012)
- Guideline for Bioequivalence Studies for Formulation Changes of Oral Solid Dosage Forms + Q&A (February 29, 2012)
- Guideline for Bioequivalence Studies for Different Oral Solid Dosage Form + Q&A (February 29, 2012)
- Bioequivalence Studies for Different Strengths of Ethical Combination Drug Products and formulation Changes of Ethical Combination Drug Products (February 29, 2012)

(Ref) English documents on NIH website: http://www.nihs.go.jp/drug/DrugDiv-E.html

List of the BE guidelines (2)

- Basic Concept of Bioequivalence Studies of Generic Products of Dry Powder Inhalers (March 11, 2016)
- Basic Concept of Bioequivalence Studies of Generic Products of Aqueous Ophthalmic Solutions (March 11, 2016)

Quick Overview of Review Process

PMDA's Consultation

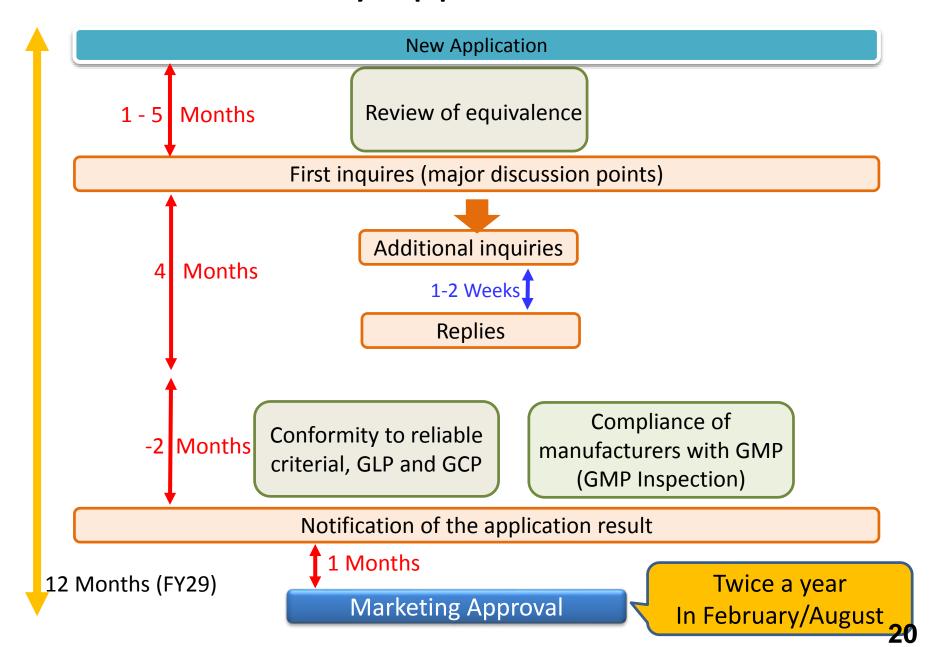
- 1. Pre-Consultation (free)
- 2. Face to Face Consultation (charge):
 - On Bioequivalence
 - On Quality

(URL) PMDA Websites (Japanese only)

1: https://www.pmda.go.jp/review-services/f2f-pre/consultations/0001.html

2: https://www.pmda.go.jp/review-services/f2f-pre/consultations/0018.html

Timeline of Newly Applied Generic Products



We welcome your applications &

Thank you for your attention 多謝