# Current GMP compliance assessment process and future possibility in Korea





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International Cooperation



## Ministry of Food and Drug Safety



MINISTRY OF FOOD AND DRUG SAFETY

## Ministry of Food and Drug Safety \_History

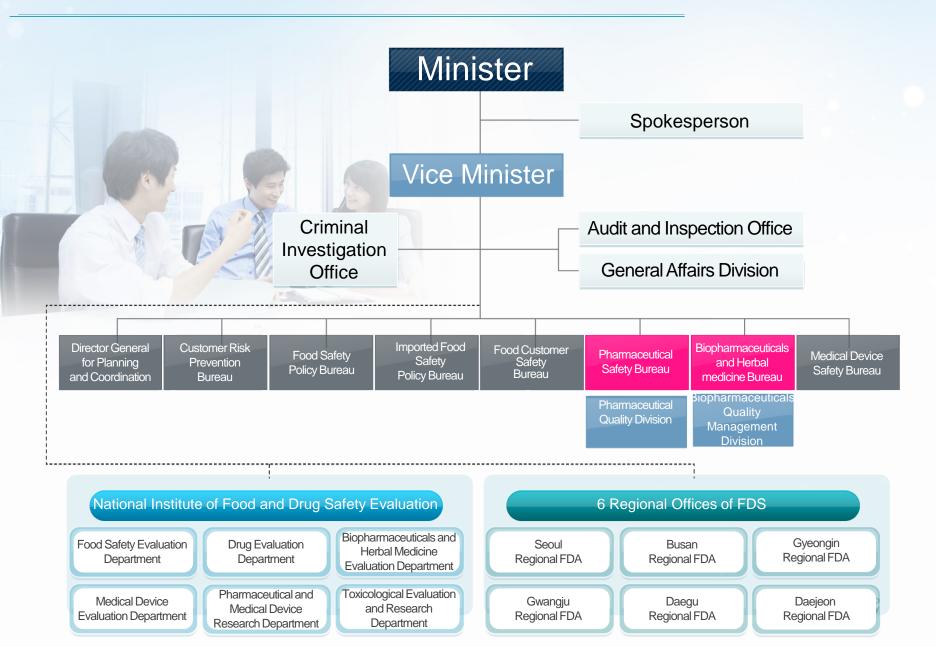


	1996	Foundation of the Korea Food and Drug Safety Headquarters and 6 regional offices under the Ministry of Health and Welfare
	1998	► Inauguration of the Korea Food and Drug Administration মেচিমে এ≝এণ্দ≝গ্ৰহায়ায়
	2010	<ul> <li>Relocation of KFDA headquarters to Osong in Chungbuk from Seoul</li> <li>েলেকেই একপ্রেক্টেইটের্ডেরি বিপ্রেক্টেটের্ডেরে বিপ্রেক্টের্ডেরেরের্ডেরেরেরের</li></ul>
	2013	<ul> <li>Elevation to Ministry under the Prime Minister</li> <li>6 regional offices of KFDA(Regional FDAs : Seoul, Gyeongin, Daejeon, Daegu, Busan, Gwangju)</li> <li>Ministry of Food and Drug Safety</li> </ul>



## Ministry of Food and Drug Safety \_Organization





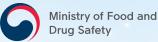


## GMP Regulatory system in Korea

- GMP Regulations
- GMP System







## History of GMP regulations

Mandatory implementation of GMP for medicinal products



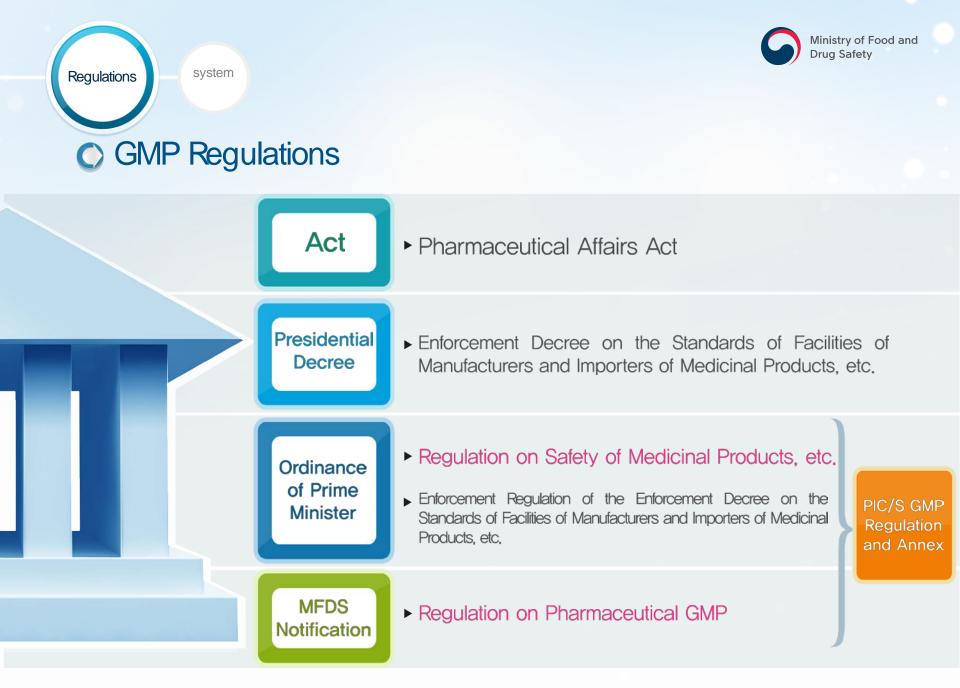
- Mandatory implementation of GMP for Active Pharmaceutical Ingredients (APIs)
- 2008

1994

- ▶ Introduction of pre- approval GMP inspection for medicinal products
- Advancement of regulations through introducing Validation, Qualification, and Product quality review



- Harmonization with the PIC/S GMP guides (Ordinance of Prime Minister, July 2015/ MFDS Notification, July 2015 and January 2017)
- Introduction of the system for renewing a Certificate of GMP Compliance of a Manufacturer (Ordinance of Prime Minister, October 2014)





Regulations

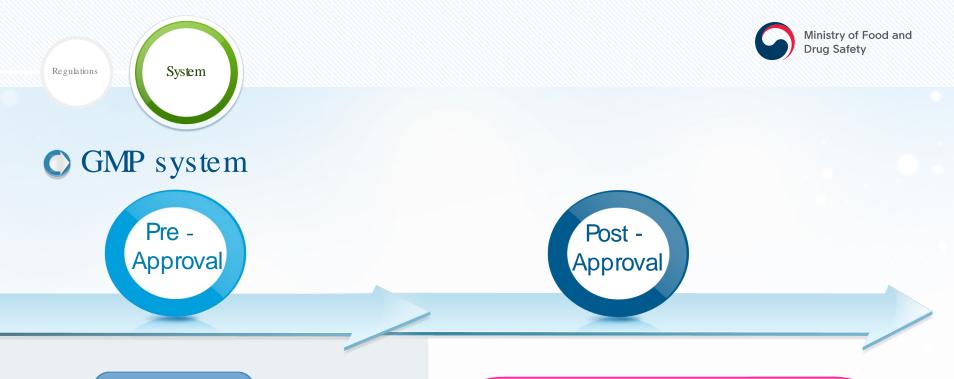
## • GMP Standards equivalent to PIC/S's

### Regulation on Safety of Medicinal Products, etc. (Ordinance of Prime Minister)

system

### [Annex 1] Medicinal Products GMP API GMP [Annex 1-2] **Biopharmaceutical Products** [Annex 2] GMP Radiopharmaceuticals GMP [Annex 3] [Annex 3-2] Medicinal Gases GMP Investigational Medicinal [Annex 3-3] Products GMP

#### MANUFACTURE OF STERILE MEDICINAL PRODUCTS Annex 1 MANUFACTURE OF BIOLOGICAL MEDICINALSUBSTANCES Annex 2 AND PRODUCTS FOR HUMAN USE MANUFACTURE OF RADIOPHARMACEUTICALS Annex 3 MANUFACTURE OF MEDICINAL GASES Annex 4 MANUFACTURE OF HERBAL MEDICINAL PRODUCTS Annex 5 SAMPLING OF STARTING AND PACKAGING MATERIALS Annex 6 MANUFACTURE OF LIQUIDS. CREAMS AND OINTMENTS Annex 7 MANUFACTURE OF PRESSURISED METERED DOSEAEROSOL Annex 8 PREPARATIONS FOR INHALATION COMPUTERISED SYSTEMS Annex 9 USE OF IONISING RADIATION IN THE MANUFACTUREOF Annex 10 MEDICINAL PRODUCTS MANUFACTURE OF INVESTIGATIONAL MEDICINAL PRODUCTS Annex 11 MANUFACTURE OF MEDICINAL PRODUCTS DERIVEDFROM Annex 12 HUMAN BLOOD OR PLASMA Annex 13 QUALIFICATION AND VALIDATION PARAMETRIC RELEASE Annex 14 GMP GUIDE FOR ACTIVE PHARMACEUTICAL INGREDIENTS Annex 15 REFERENCE AND RETENTION SAMPLES Annex 16 Annex 17 GMP GUIDE FOR FINAL PRODUCTS



Approval

 Pre - approval GMP assessment is carried out by dosage form (domestic manufacturing site) and by medicinal product for marketing authorization (domestic or overseas manufacturing sites) requiring special attention to new drugs, biological products, sterile products, etc.

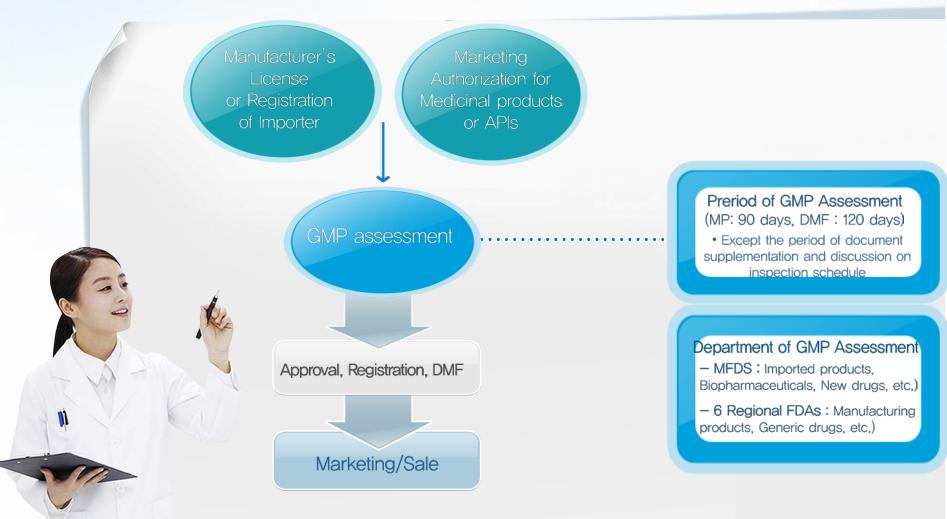
### Quality control

- Periodic GMP assessment is carried out at least once every three years (approx.) in principle, and a Certificate of GMP compliance of a manufacturer to each domestic manufacturing site is issued.
- GMP surveillance for domestic or overseas manufacturing sites

System



## Process of pre-approval GMP assessment



## O Pre- Approval GMP Assessment

• On-site inspection may be substituted with Desk- top assessment, taking account of the results of previous GMP inspections to the site, the type of the product or manufacturing process to be audited, etc.

### 1 Pharmaceuticals

System

Regulations

Classification		l'rito rio	Effective Periods of Previous GMP inspection	
Sterile	Aseptic manipulation	Manufacturing site	3 year	
	Terminal Sterilization	Manufacturing site	3 year	
Non- sterile		Manufacturing site	5 year	

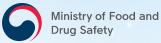


## 2 Biopharmaceuticals

Classification			Effective Periods of Previous GMP inspection	
Process	Aseptic manipulation	Manufacturing site	3 year	
	Others	Manufacturing site	3 year	



System



## O Pre- Approval GMP Assessment

- Some of the required GMP dossier for marketing authorization of medicinal products such as computerized system validation, utility and water system validation, and SOP (documentation, Warehousing, Personnel hygiene, Personnel Training, etc) may be substituted with the Site Master Files (only if the relevant contents are included) or GMP inspection reports by the competent authority of a PIC/S's member country which support the valid GMP certificates as of the date of application.
  - \* Reference document: Guidelines on Pre- Approval GMP Inspection of Medicinal Products, etc. (Dec. 2016)

### GMP dossier for marketing authorization

Category	Details
1. Drawing of the manufacturing site	Each working area, laboratory, storage, and other ancillary facilities (utility, water, etc.) required for manufacturing process should be indicated.
2. Documents on the facilities of each working area	<ul> <li>A) A drawing of the working area with cleanliness grade, pressure differences between working areas, and human/physical flow line indicated</li> <li>B) Details of machinery/equipment used in manufacturing/testing and equipment layout</li> <li>C) Diagrams of AHU, compressed air, and water treatment system</li> </ul>
3. Documents on the facilities and environment management	<ul><li>A) Water control status</li><li>B) Control status of automated system, etc.</li><li>C) Cleanliness grade control status</li></ul>
4. Documents on GMP organization and quality control (assurance) system	
5. Regulations on documentation and list of documents	
6. Product Master File and a copy of batch production records/quality control records	
7. Validation data	Qualification and Validation (Process, Analysis Method, Utility and Water, Computerized System, and Cleaning)

## O Post – Approval GMP assessment (Periodic Inspection)

- Overall renewal of GMP Compliance by dosage form or manufacturing method(API) for Domestic manufacturing sites.
  - With an introduction of the system to issue a Certificate of GMP Compliance of a Manufacturer to each Manufacturing site in Oct 2014, periodic GMP evaluation has been carried out.
  - Periodic GMP evaluation has been carried out on dosage form of all manufacturing sites at least once every three years approximately in principle.
- In 2017, Law related registration of foreign manufacturing sites will be established.
   Until now, GMP Surveillance has been carried out for some of oversea
  - manufacturing sites based on risk assessment.
  - Going forward, periodic GMP evaluation will be also carried out for oversea manufacturing sites based on risk assessment.



## ○ GMP Surveillance

System

Regulations

- For-cause (triggered) Inspection is conducted:
  - According to the MFDS order arising from any accusation, petition, and report, and other information;
  - In the cases of detecting illegal online distribution of medicinal products, which are required to receive a direct inspection; and
  - When cooperation with other agencies such as the Public Prosecutor's Office, Police, or other related organizations is required.





MINISTRY OF FOOD AND DRUG SAFETY

## Accession of MFDS to the PIC/S



## ○ Officially recognized as a PIC/S Participating Authority from July 2014

- Application accepted at the 38<sup>th</sup> PIC/S Committee Meeting in Rome (Italy) 16 May 2014
- MFDS invited as a PA within 2 years only which was earlier than generally expected since the application in April 2012 (Only 2- year process period actually taken compared to 6 years of time limit)

May 2014



### www.picscheme.org

Leading the international development, implementation and maintenance of harmonised GMP standards and quality systems of inspectorates in the field of medicinal products



www.picscheme.org

May 2014

### Press release: PIC/S meetings in Rome (Italy)

From 15 to 21 May 2014, the meetings of the PIC/S Committee, the PIC/S Executive Bureau and the PIC/S Expert Circle on Active Pharmaceutical Ingredients (APIs) took place in Rome (Italy)



### **PIC/S Committee Meeting**

The PIC/S Committee, preceded by the PIC/S Executive Bureau meeting, met on 15-16 May 2014 under the chairpersonship of Dr Joey Gouws (South Africa's Medicines Control Council / MCO). The Chairperson said that it was a particular honour for Africa to chair PIC/S for the first time in history. The meeting was attended by 35 out of 44 PIC/S Participating Authorities (PA) as well as by a number of Applicants, Pre-Applicants and Associated Partners. For the list of Members and Partners (http://picscheme.org/members.php)

Dr Joey Gouws PIC/S Chairperson

### Japan and South Korea to Join PIC/S

The Committee invited the competent authorities of Japan and South Korea to join PIC/S as of 1 July 2014. Japan will become the 45<sup>th</sup> PIC/S Participating Authority and will be represented by the Pharmaceutical & Food Safety Bureau of the Ministry of Health, Labour & Welfare (MHLW), the Pharmaceutical and Medical Devices Agency (PMDA) and the GMP Inspectorates of Japan's Prefectures. South Korea's Ministry of Food and Drug Safety (MFDS) will become the 46<sup>th</sup> PIC/S Participating Authority.

### South Korea's Accession to PIC/S

South Korea applied for membership in April 2012 through the Korean Food & Drug Administration (KFDA). On 23 March 2013, the status of KFDA was elevated to ministerial level and the name was changed to "Ministry of Food and Drug Safety" (MFDS). A paper assessment was conducted in view of the accession of MFDS to PIC/S, followed by a



pre-audit visit on 17-18 December 2013 and team. At the Committee meeting of 15-16 May 2014, the audit team recommended to the Committee to accept the PIC/S membership application of South Korea. The Director General of the Pharmaceutical Safety Bureau of MFDS, Mr. MooYoung Yoo, welcomed the accession of MFDS and thanked PIC/S for their accession and the audit team for their help and support. He stated that since the introduction of GMP to Korea nearly 40 years ago, in 1977, Korean GMP had been continuously revised and updated to conform to international GMP standards. The PIC/S accession procedure had provided the opportunity for further revisions which would be completed by June 2014.



## Approval of accession to ICH (November 2016)



As of November 2016, the ICH Association comprises the following Members and Observers:

### Founding Regulatory Members

The European Commission (EC) The US Food and Drug Administration (FDA) The Ministry of Health, Labour and Welfare of Japan (MHLW) also represented by the Pharmaceuticals and Medical Devices Agency (PMDA)

#### Founding Industry Members

The European Federation of Pharmaceutical Industries and Associations (EFPIA) The Japan Pharmaceutical Manufacturers Association (JPMA) The Pharmaceutical Research and Manufacturers of America (PhRMA)

#### Standing Regulatory Members

The Health Canada The Swissmedic

#### Regulatory Members

The Agência Nacional de Vigilância Sanitária (ANVISA, Brazil) The Ministry of Food and Drug Safety (MFDS, South Korea)



Ministry of Food and Drug Safety

## WHO Collaborating Center

- The National Institute of Food and Drug Safety Evaluation is designated as a 5th WHO Collaborating Center for Standardization and Evaluation of Biologicals. (Jan 2011)
  - \*\* Following the US(FDA/CBER), the UK(NIBSC), Japan(NIID), and Australia(TGA)



### GLO(Global Learning Opportunity)/GMP Training

Trainings of GMP inspectors from 22 foreign countries including the Indonesia, Malaysia, Thailand, etc. have been conducted 10 times since 2006

- 2 Attendance at WHO Guidelines Development Meetings (7 times in 2013)
- 3 Held the Meeting on <sup>Γ</sup>building greater regulatory capacity of vaccine in the western pacific region □ (2013)

## **WHO/ GLO Learning Centre**

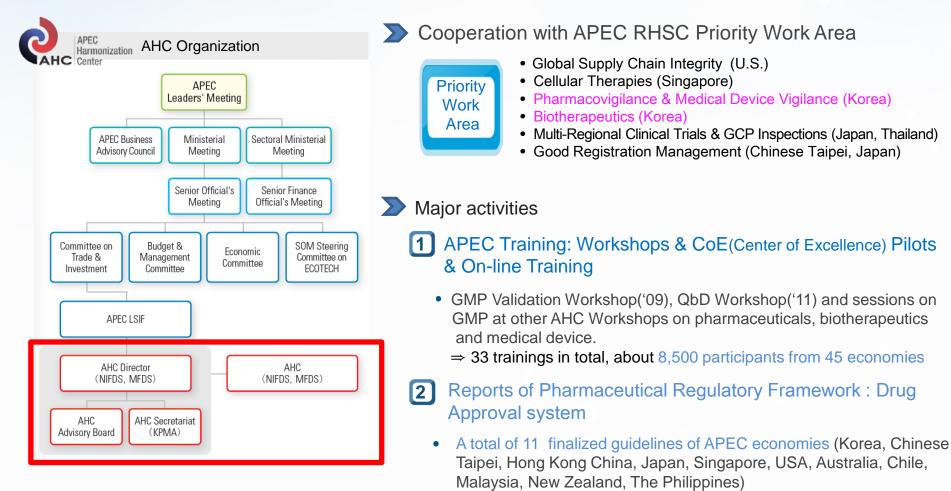
- The National Institute of Food and Drug Safety Evaluation has been accredited as that to conduct the "Lot Release/Laboratory Access" course for the period of Jan 2016 to Dec 2017.
- First Training of the persons in charge of "Lot Release/Laboratory Access" from 5 foreign countries including the Malaysia, Saudiarabia, Mongol, Sudan, etc. have been conducted for the period of 31 Oct 2016 to 9 Nov 2016.





## O APEC Harmonization Center(AHC)

The AHC was established at the MFDS to provide a platform to address and solve priority concerns of APEC member economies on regulatory convergence. (June 2009)



# **THANK YOU**



Ministry of Food and Drug Safety Pharmaceutical Quality Division