Food and Drug Administration Ministry of Health and Welfare

The 9th Asia Regulatory Conference

Good Registration Management (GRM) to Strengthen the Product Registration System in Asia -Regulator and Industry Views from APEC CoE Pilot Training-

Product Registration System in Taiwan and the Training Chao-Yi (Joyce) Wang

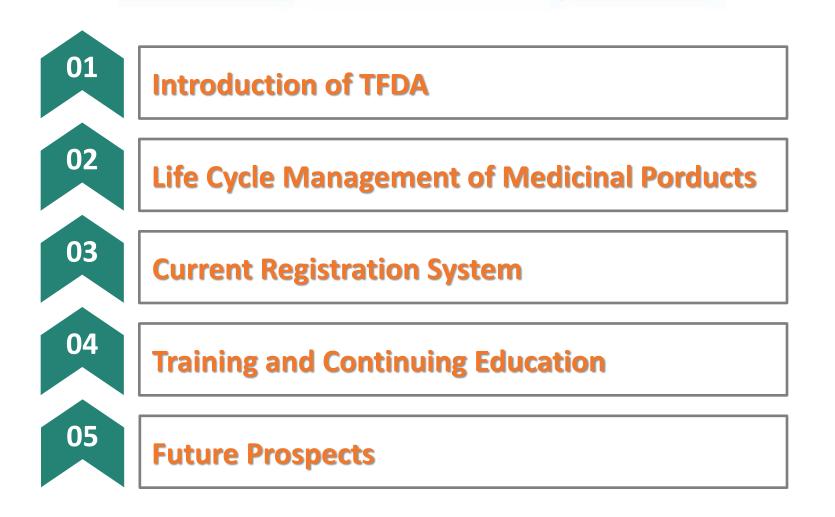
Director, Division of Medicinal Products, TFDA

Tokyo, Japan April 6, 2017



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Outline



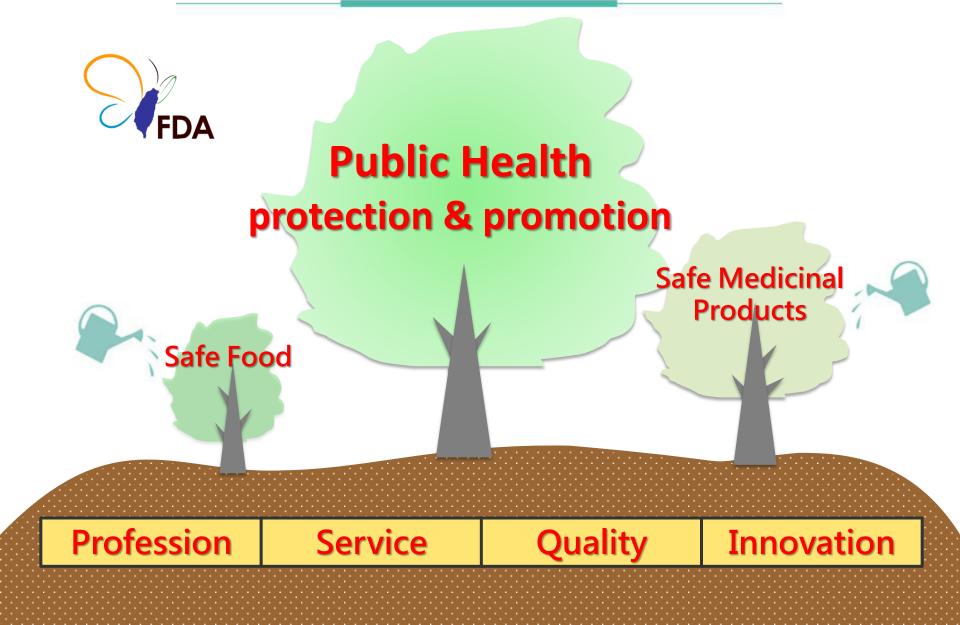


Establishment of TFDA

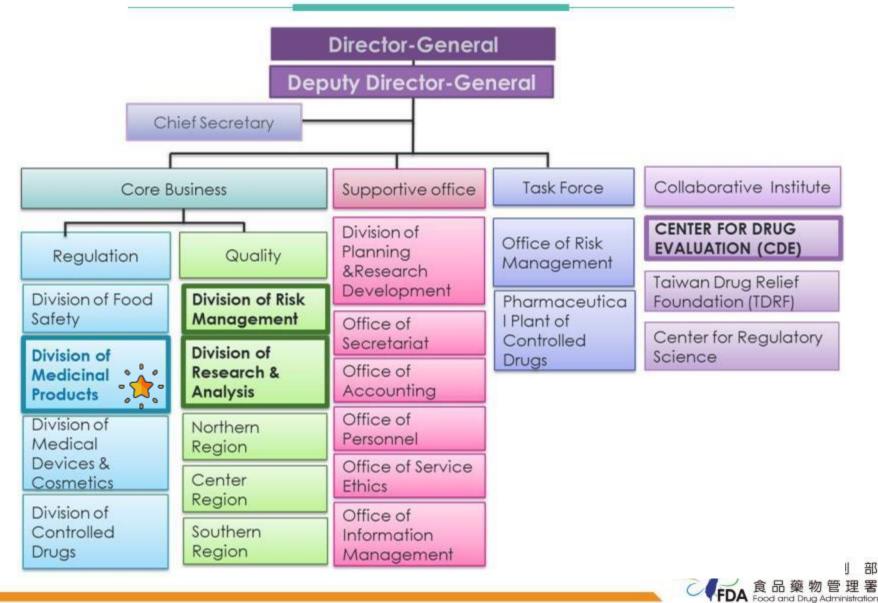
2013 2013.07.23 TFDA Elevation (食品藥物管理署) The Ministry of Health and Welfare (MOHW) was restructured from the Department of Health (DOH). 2010 2010.01.01 TFDA Inauguration (食品藥物管理局) Integration of 4 bureaus: •Food Safety (食品處) · Pharmaceutical Affairs (藥政處) Food & Drug Analysis (食品藥物檢驗局) • Controlled Drugs (管制藥品管理局) Jump Growth Start



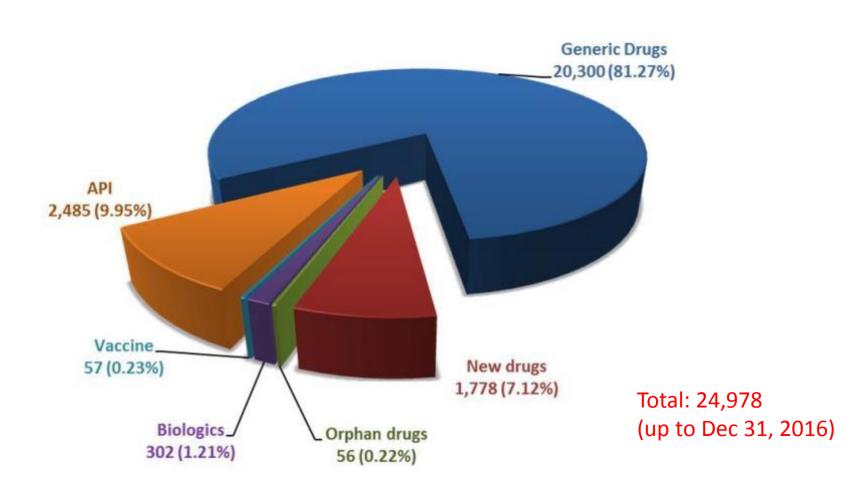
Mission, Vision, and Core Value



TFDA Organization Chart

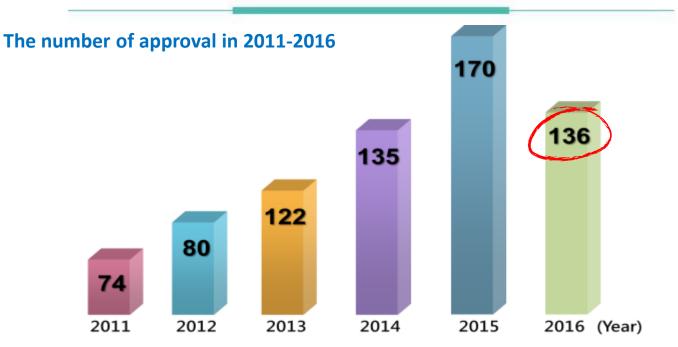


Statistics on Pharmaceutical Licenses



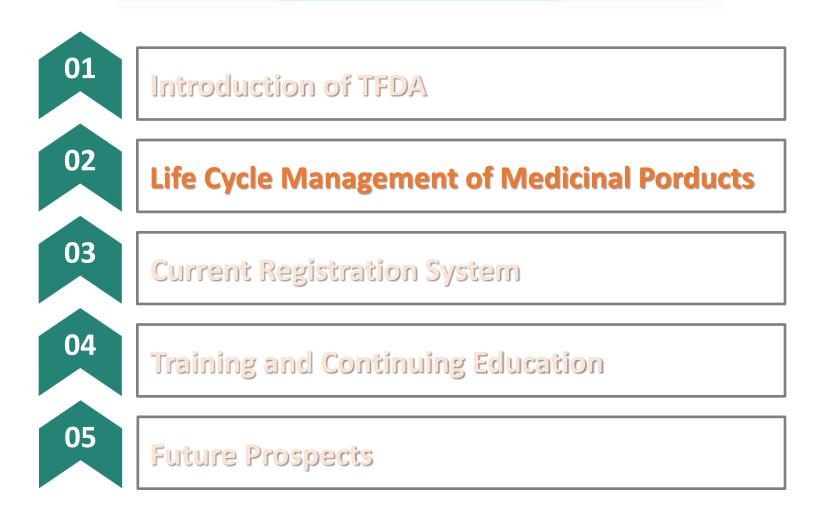


The Statistics of New Drug Approval in Taiwan



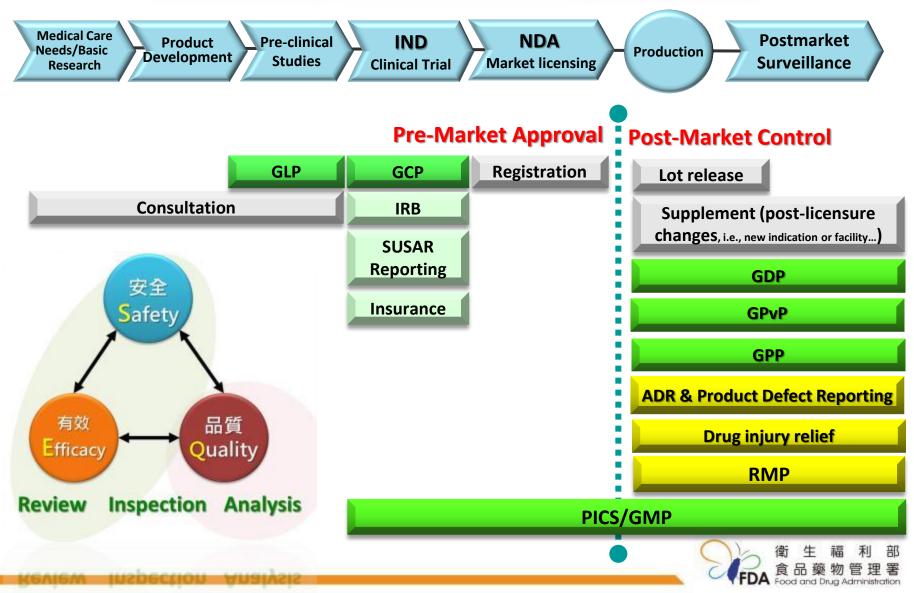
Number of approvals	136									
Types	Domestic			Import						
Numbers (%)	8 (6%)			128 (94%)						
Types	Chemical		Biologics		Chemical		Biologicals			
Numbers	8			0		99			29	
	New chemical entity	2		Vaccine	0	New chemical entity	42		Vaccine	3
	New combination	2	4	Plasma derivative	0	New combination	15	67	Plasma derivative	0
	New indication	0	- T	Toxoid	0	New indication	4	07	Toxoid	0
Numbers	New route of administration	0		Genetically engineered drugs	0	New route of administration	6		Genetically engineered drugs	26
	New dosage forms	3				New dosage forms	14			
	New administration doses	0	4			New administration doses	2	32		
	New unit strengths	1				New unit strengths	16			
								C	● 「FDA food and Drug Administration	

Outline





Life Cycle Management of Medicinal Products



Legislation and Regulations

LÅW

Legislation and	d Regulations on Medicinal Drugs
Law	Pharmaceutical Affairs Act Medical Care Act
Regulation	Regulation for Registration of Medicinal Products Regulations on Human Trials Regulation on Good Clinical Practice (GCP) Regulation on Good Manufacture Practice (GMP) Regulation of the Lot Release Procedures for Biologics
Guidance	Guidance for Registration of Biotechnological Products Guidance for Registration of Biosimilar Products Guidance for Registration of Biosimilar monoclonal antibodies Guidance of Stability Testing of Biological Products Guidance of Comparability of Biological Products Guidance for Registration of Vaccines Guidance for Registration of Pandemic Influenza Vaccines Guidance for Registration of Blood Products Guidance for Registration of Allergenic products
International Guidance	ICH/EMA/FDA/WHO guidance which are issued in an issue-specific manner are taken into reference 衛生福利部 食品藥物管理署

Regulations for Quality

- PIC/S Participating Authority since 2013
- All manufacturers shall fully comply with the current version of PIC/S GMP Guide since 2015
- Current status: (up to 23 February 2017)
 - Domestic pharmaceutical manufacturers: 130
 - Companies not comply with PIC/S GMP
 - shall cease manufacturing and be delisted.



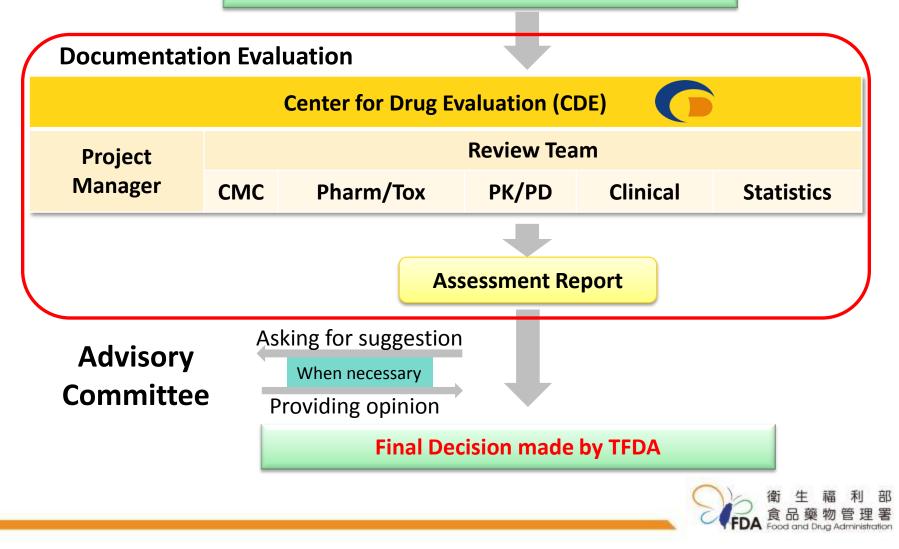
Outline



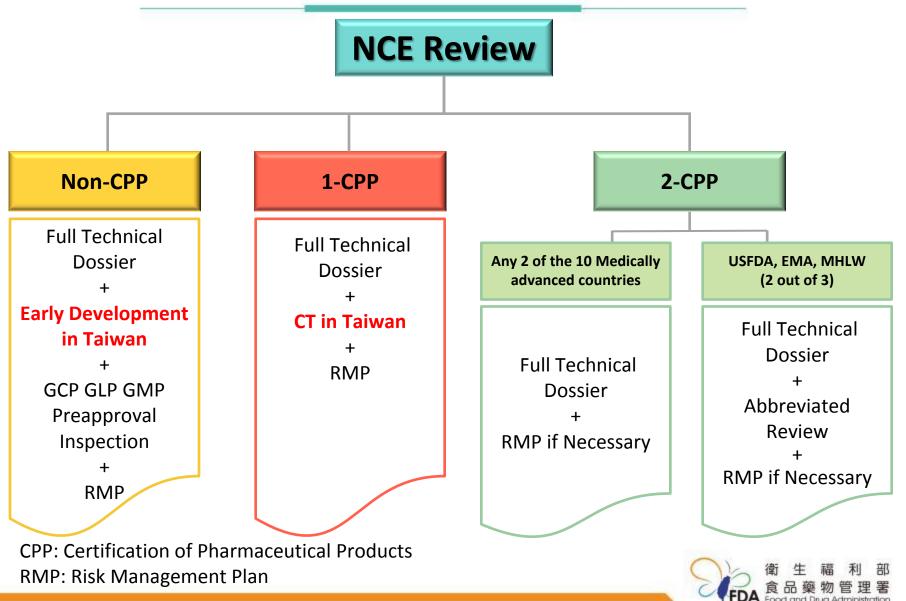


Review Process

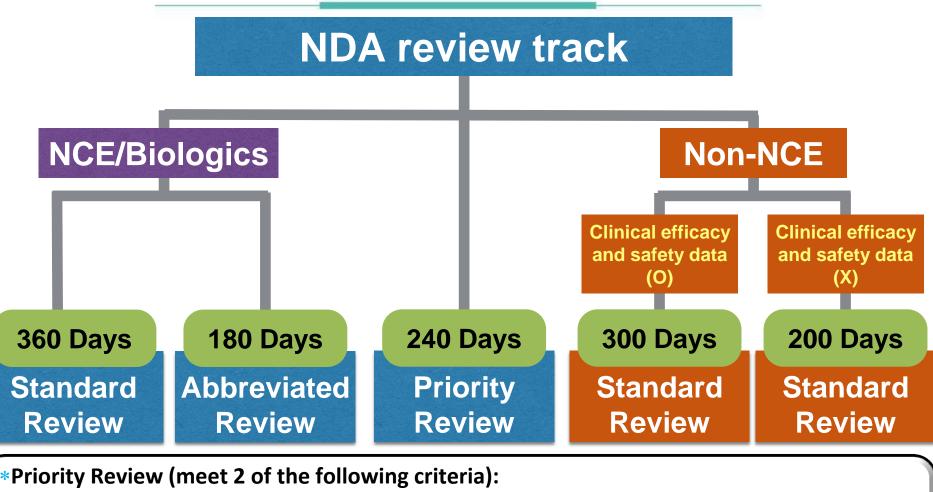
Application submitted to TFDA



Rationalization of CPP Requirements



Expedited Review Process



- new drug
- serious disease + unmet medical needs
- priority counseling + R&D grants + unmet medical need

*Abbreviated Review: NCE + US FDA, EMA, MHLW approved (2 out of 3)

Case Sharing

Afatinib dimaleate

Target therapy drug for advanced non-small cell lung cancer

- New Chemical Entity
- Multinational Trials were led by Investigator in Taiwan

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- Phase II : 80% of subjects were from Taiwan
- Phase IIb/III and Phase III : 20% of subjects were from Taiwan
- Non-CPP
- Review Time: 89 days
- Approval: May 17, 2013 in Taiwan (globally first approval)
- Approval: July 12, 2013 in US, July 25, 2013 in EMA

+



Fast Track

First approval in the world



Implementation of Good Review Practice (GRevP)





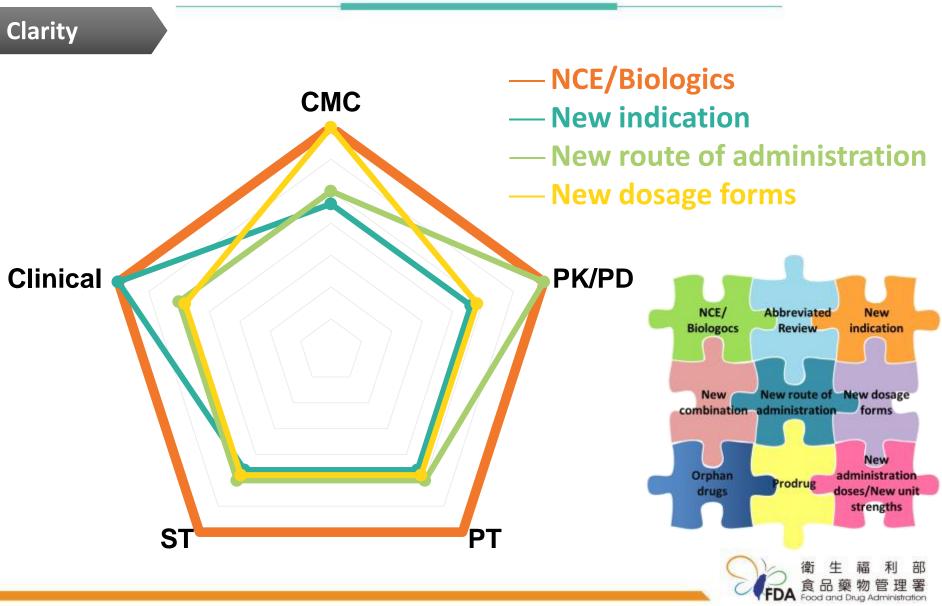
Enhancing Review Efficiency

Efficiency

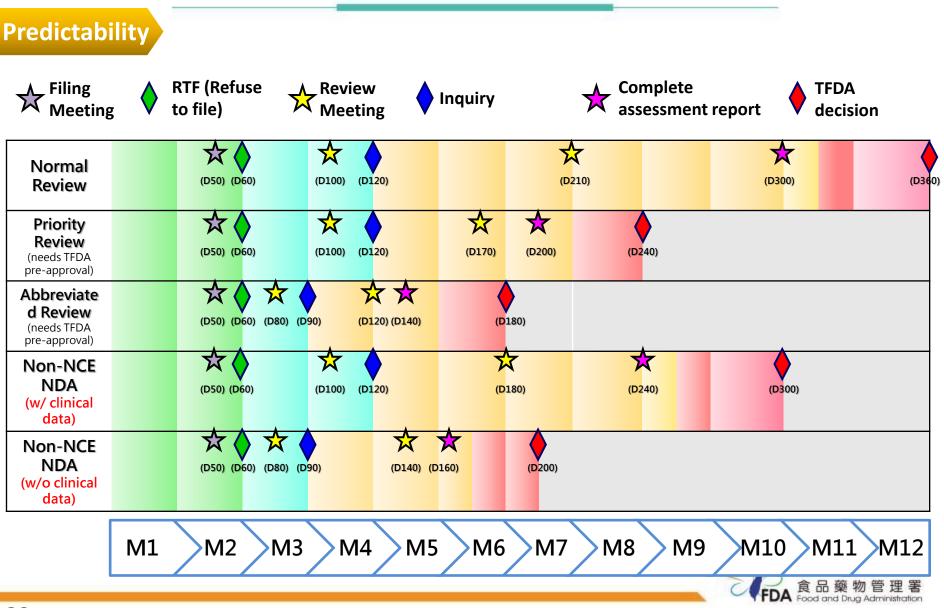


Quality ` Efficiency ` Consistency ` Transparency ` Clarity ` Predictability

Points to Consider for All Types of NDAs



Review Timeline Management



QA/QC Meeting

Quality

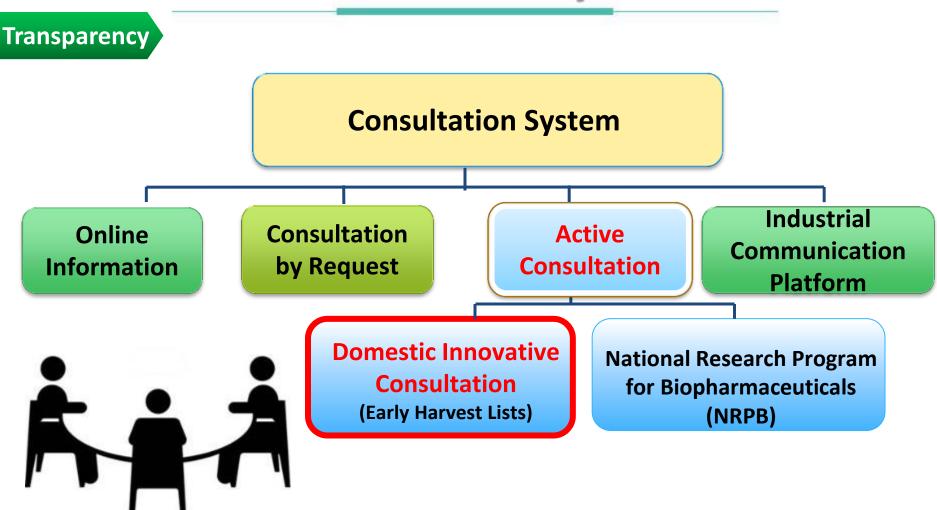


Integrated Medicinal Product Review Office

- 1 Internal Control Monitoring & Auditing
- ↑ Resource Integration
- ↑ Job Integration
- **↑** Process Integration



Consultation System





Domestic Innovative Consultation

Transparency

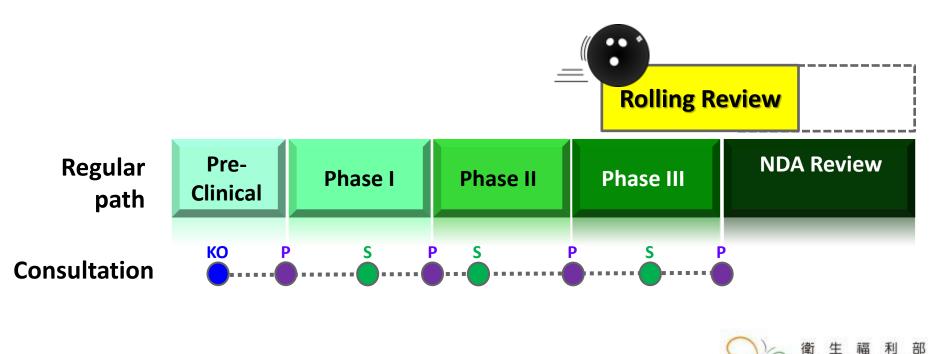


To facilitate medicinal products development and marketing approval



Meeting types:

- Kick-off meeting
- Sponsor meeting
- Pre-filing meeting



Domestic Innovative New Drugs Approved in ______



Nemonoxacin

- NCE
- Treatment of community-acquired pneumonia



Flu Vaccine

- Flu vaccine with adjuvant (Virosome)
- Flu prevention



Ferric citrate

- NCE
- Control of hyperphosphatemia in adult patients with chronic kidney disease

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ELST. P.	1	4

Irinotecan liposome

- New indication & new formulation
- Treatment of pancreatic cancer



Methtlene blue

- Orphan drug
- Treatment of methemoglobinemia



Phenylbutyrate

- Orphan drug
- Treatment of urea cycle disorders

	The printer of
康立解	V1.5#3+
l'amelect injection	
Discourse and	
	un Promo

Fomepizole

- Orphan Drug
- Antidote for ethylene glycol or methanol poisoning

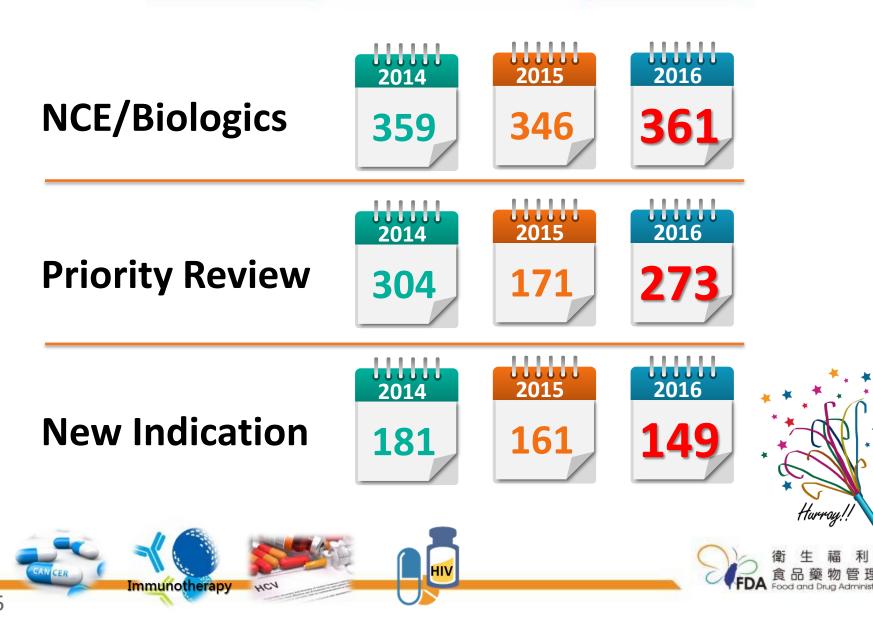
omacor Soft Copsulas 1000mg **脂妙清** 軟膠囊 1000 毫克

Omega-3-acid Ethyl Esters 90

- NCE
- Treatment of hypertriglyceridemia



The Median Approval Time of NDAs in 2014-2016



Outline





Selection, Training, Evaluation & Practice





Selection

Medical related Background
 Master Degree and Above
 Start as a Primary Reviewer

CMC, Pharm/Tox, PK, MD, Stat.
MD, Master and/or Ph.D Degree
Start as a Primary Reviewer



Training **30 hours** every year **Continuing Education Practical Training** Real case review under mentor supervision **Advanced Training** Specific guideline, case study and professional lectures **Basic Training**

Regulation, review process and review principle



Evaluation

Qualified for average seniority of the employees and recommended by supervisors.

Assessment and approval by the Board of Certification Evaluation Committee.

- Board Chairperson is designated by TFDA Commissioner
- Meeting will be held at least every 6 months, or more if necessary
- If nominee gets rejection, re-nominee will be made 1 year later



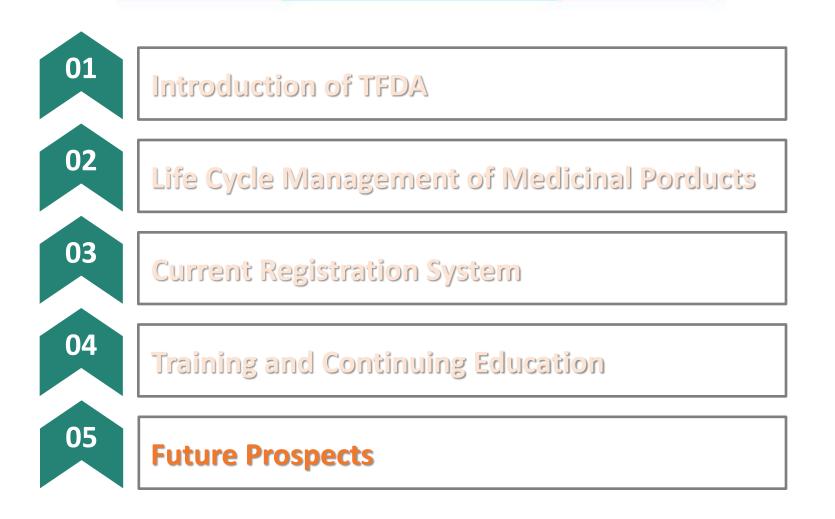
認證有效期間: xx, xx, xx至xx, xx, xx

衛生福利部食品藥物管理署署

Practice

Administrative Reviewer	Technical Reviewer Track			
 General Affairs As Preceptors to Guide New Staff Guideline drafting Specialized Projects 	Senior Reviewer	 General Affairs As Preceptors to Guide New Staf Secondary Case Review Guideline drafting Specialized Projects 		
 General Affairs As Preceptors to Guide New Staff Assist Guideline drafting 	Secondary Reviewer	 Review Technical Dossier As Preceptors to Guide New Staf Secondary Case Review Assist Guideline drafting 		
General Affairs	Primary Review	er Review Technical Dossier		
		衛生福利部 食品藥物管理署 FDA Food and Drug Administration		

Outline





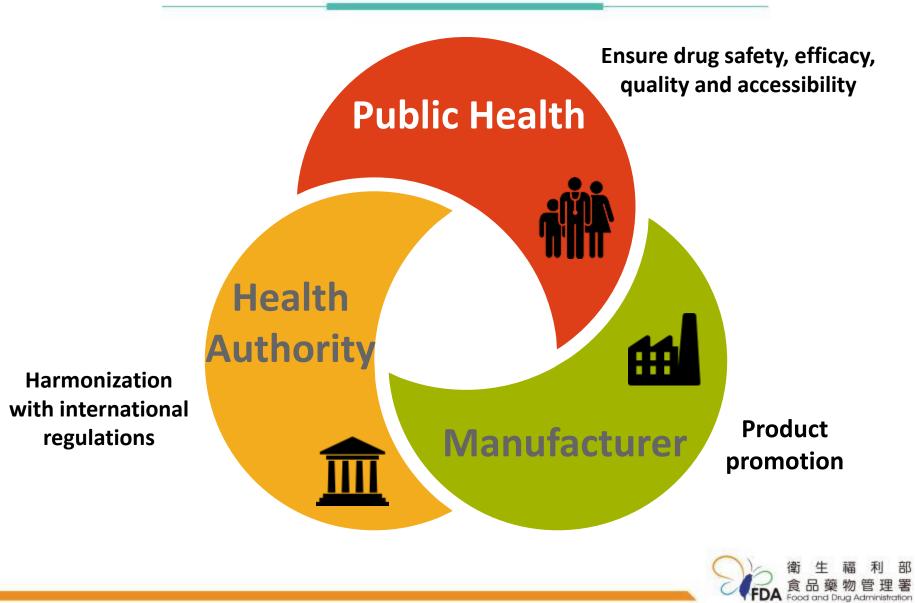
ExPREES (E Platform for Review & Submission)



The **E Platform for Review & Submission (ExPRESS)** is for accepting electronic regulatory submissions. The ExPRESS enables the secure submission of premarket and postmarket regulatory information for review.



Win-Win-Win Situation







Thank You for Your Attention





http://www.fda.gov.tw/