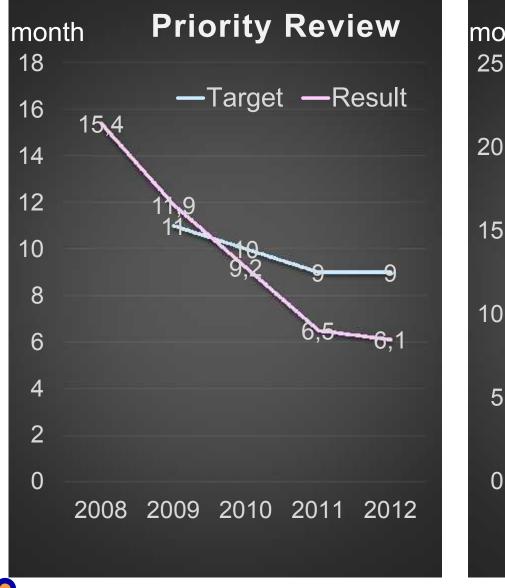
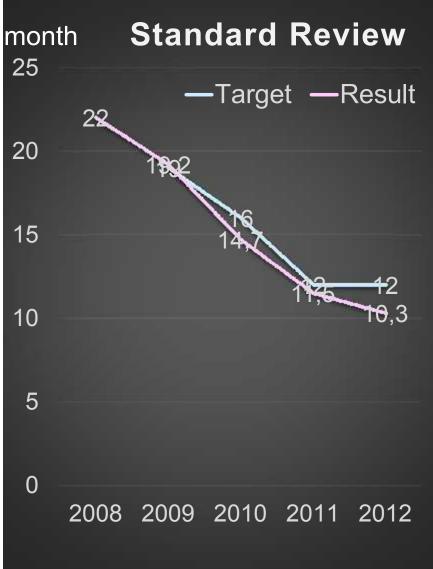
New Challenges of PMDA & New Drug Development in Asia Strengthening cooperation with Indonesia

(Pharmaceuticals and Medical Devices Agency)

### Target and Result of total New Drug Review time

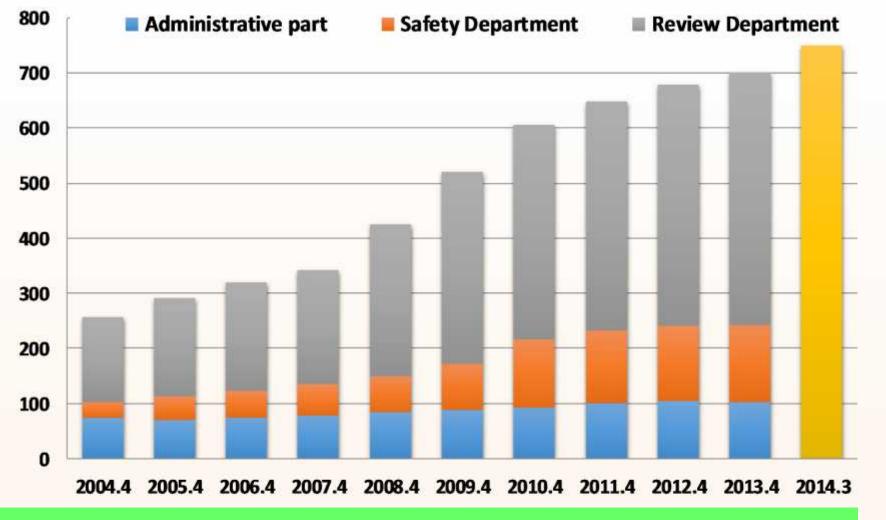




Pharmaceuticals and Medical Devices Agency

### Staff Size





Plan to increase staff size in next 5 years to cope with new challenges for introducing safe drugs timely

3

## Accumulation and Utilization of Data

NDA submission

Submission of electronic data from clinical and nonclinical studies Regulatory Review

Use of electronic data

Scientific discussion and decision making on the basis of internal analysis result Utilization of Accumulated Data

Integration of crossproducts information

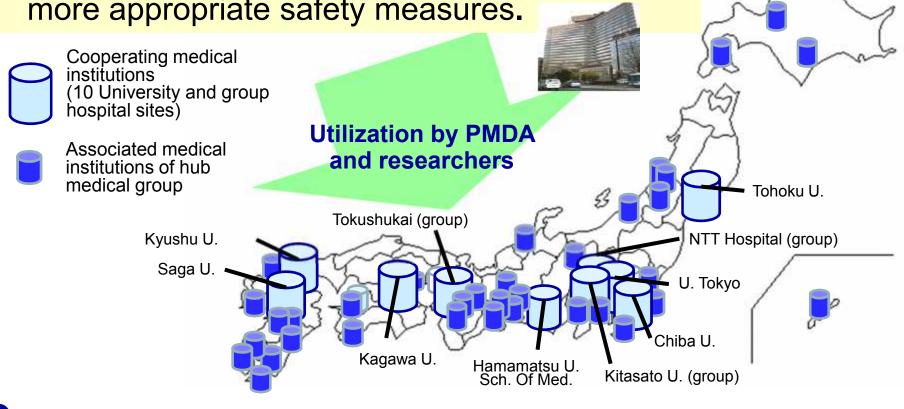


Contribution to efficient development through review/consultation and GL publication based on further analyses by drylab

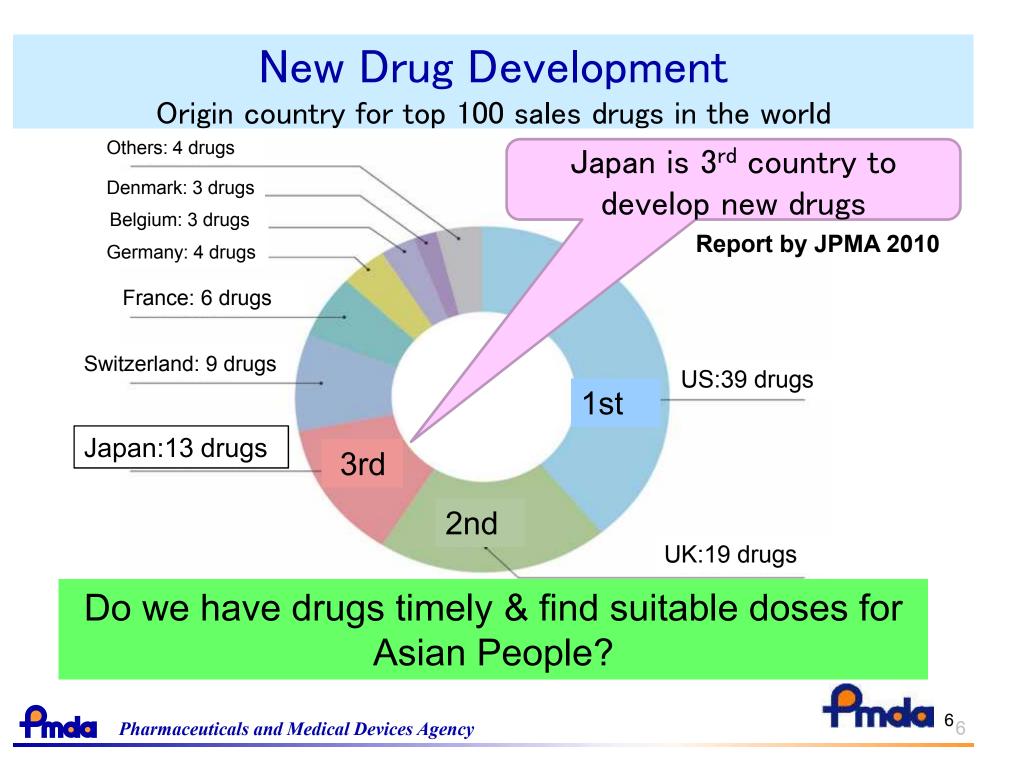
Visualization and analysis of data, supported by browsing software

### Initiative to Develop Infrastructure for Medical Information Database

- Build database hubs at 10 cooperating medical institutions nationwide.
- Target is to make more than 10 million patients data ready for use in 2015 to allow Faster and more appropriate safety measures.

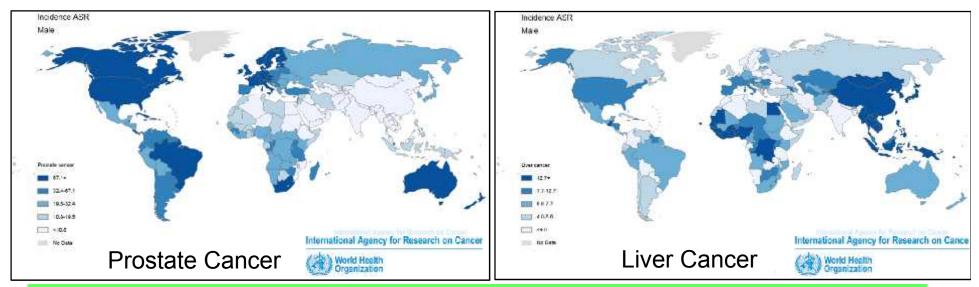


5



### Do we have drugs timely for Asian People ?

- ✓ Incidents rates of diseases differ among regions.
- ✓ Some diseases, such as Liver cancer, Stomach cancer are prevailing mostly in Asia.



# "Basic Principles on Global Clinical Trials (Reference Cases)" issued on Sep 5, 2012 by MHLW.

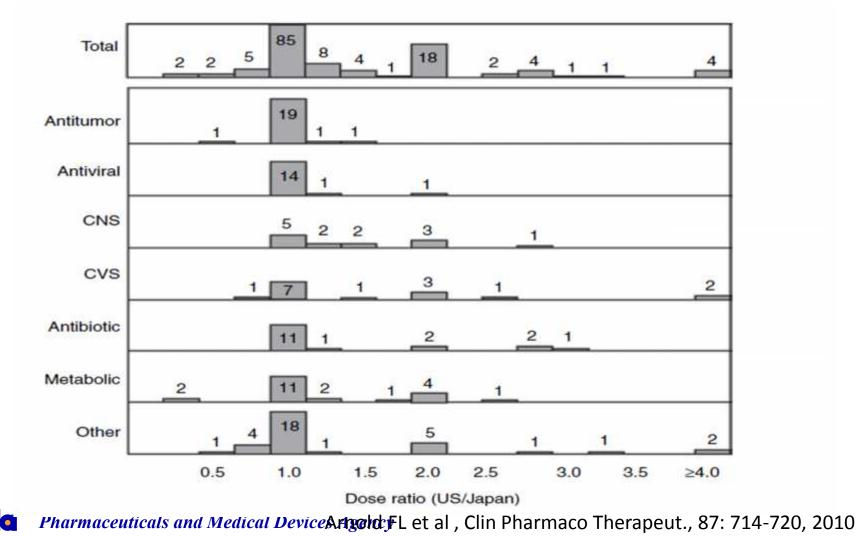
### Recommended therapeutic areas

"proactive planning of a global clinical trial in East Asia may contribute to the improvement of the efficiency and quality of clinical development of a drug."

Asian trials may contribute to new drug development *Pharmaceuticals and Medical Devices Agency* 

### Do we find suitable doses for Asian People?

For 32 % of drugs, US/EU dose was  $\geq$  2 times higher than Japanese dose Approved drugs during 2001-2007



8

### Advantages of MRCT among Asia ?

Differences for Diabetes mellitus BMI: Japanese < Caucasian Insulin : Japanese < Caucasian Insulin resistance: Japanese < Caucasian

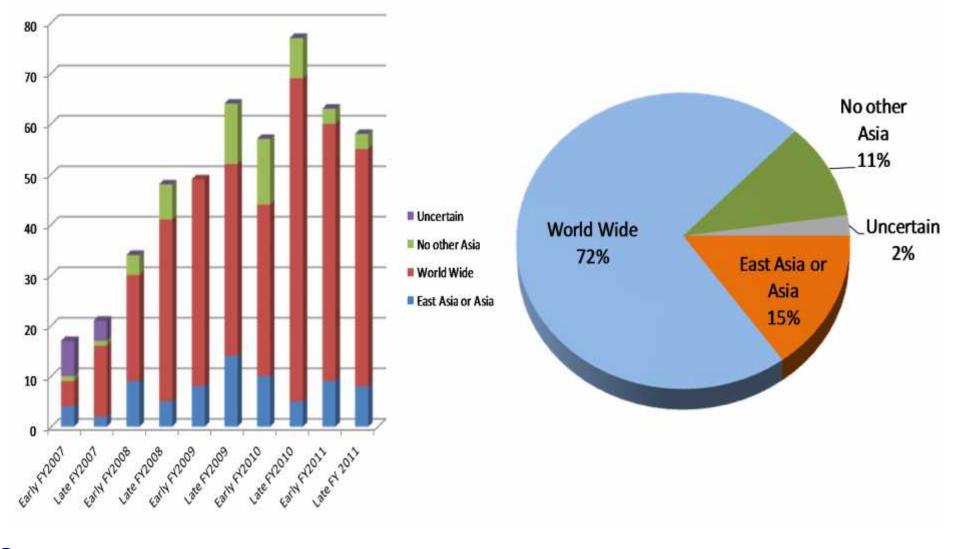
	JPN Trial	<b>US Trial 1</b>	US Trial 2
BMI	24.72	32.07	32.02
HOMA- $\beta(\%)$	25.22	-	73.42
HOMA-R	2.58	-	8.58
Data from the rovi	ow report of algoli	nutin	

Data from the review report of alogliputin

The difference can affect the drug safety and efficacy.

Ethnic difference among Asia may be smaller than that between Caucasian and Japanese?

### MRCT is a key for New Drug Development





# APEC LSIF (Life Science Innovation Forum)APECMEMBERECONOMIES



## **Roadmap to promote MRCT**

Goal : To facilitate MRCTs and acceptance of MRCT results for drug review by regulatory authorities in APEC region

Points:

- Evaluate current practices
- Establish common understanding

[Key]

- Operational/Regulatory procedure to facilitate MRCT efficiently
- Cooperative regulatory approach to facilitate MRCTs on diseases prevalent in sub-regions of APEC.
- Implement training for those involved in MRCT
- Develop necessary items for Training/Workshop to promote MRCT
  - APEC economies share best practices
  - MRCTWS as well as each economy considers developing training curricula

### Sharing information & experiences -1

Symposium under cooperation with Asian Countries

### Recent Symposia etc.

1<sup>st</sup> Thailand-Japan Symposium (Oct 24-25, 2013)
1<sup>st</sup> Joint Conference of Taiwan and Japan on Medical Products Regulation (Dec.23-24, 2013)
1<sup>st</sup> & 2<sup>nd</sup> Indonesia-Japan Symposium



1<sup>st</sup> Indonesia-Japan Symposium in 2013

• Pharmaceuticals and Medical Devices Agency

Sharing information & experiences -2

4th PMDA Training Seminar - Reviewing of Generic Drugs -

February 3 to 7, 2014 Tokyo, JAPAN



13 participants from 6 economies



Day1	Regulatory system, GCP, GMP
Day2	Review process & Management Biosimilar, Bioequivalanve
Day3	Tour of the Generic Drug Factory
Day4	Japanese Pharmacopeia Master File Quality review & Case study
Day5	PMS, Relief Services, Regulatory Science

Program

Case Study
Pharmaceuticals and Medical Devices Agency

## 150 or 300 WD for NDA Review ?

### - Utilizing PMDA review reports for efficient review -

 Drug which has been marketed in the countries which have implemented harmonized evaluation system.

- Major Variation (New Indication/posology) which has been marketed in the countries which have implemented harmonized evaluation system.
- Copy drug without Electronic Standardized Information

### 300 WD

150 WD

- New drugs, Biological Products, Similar Biotherapeutic Products, Major Variation (New indication / posology) which are not included in path 100 WD and 150 WD
- PMDA "Review Reports" that describe the details and results of reviews are released on PMDA's website. <u>http://www.pmda.go.jp/english/service/drugs.html</u>



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# Conclusion

It is the time to work together for Asian people. Key:

- New Drug Development for Asian People Promoting MRCT in Asia through WS, Training etc.
- Efficient New Drug Review

Sharing experiences such as PMDA review reports



- > MHLW http://www.mhlw.go.jp/english/index.html
- PMDA http://www.pmda.go.jp/english/index.html
- Review Report
  - http://www.pmda.go.jp/english/service/review.html
- Japanese Pharmacopoeia

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