# POST-MARKETING SAFETY MEASURES IN JAPAN

East Asian Pharmaceutical Regulatory
Symposium 2008,Tokyo(東京)
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Chief Safety Officer, PMDA,JAPAN

#### Overview of PMDA

NAME: Pharmaceuticals and Medical Devices Agency

**INAUGURATION**: April 2004

MANAGEMENT: • Effective operation under "Medium Term Plan"

for 5 years' activities

 Subject to regular evaluation of performance by the Evaluation Committee organized by MHLW

FINANCE: Corporate accounting method and subdivided accounts according to the functions

#### Financial resources:

- User fee (Review and Inspection)
- Contribution Funds (Post-marketing, Relief)
- Appropriation from Gov. budget

# Organization of PMDA

## PMDA's Services

Adverse Health Effect Relief Services Post-marketing Safety
Operations

Reviews and Related Operations

# 3 Pillars of Safety Operations

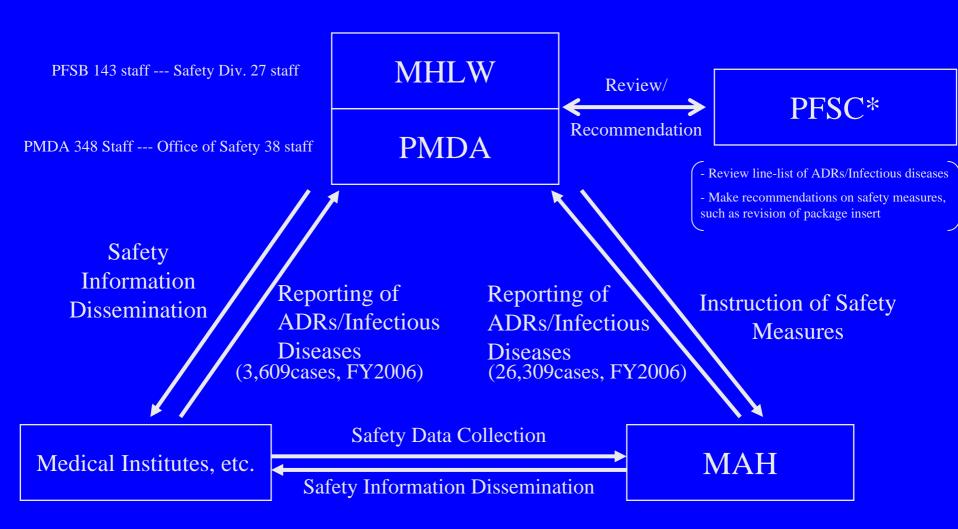
**Reinforced Safety Information (Database)** 

Post-marketing Safety
Operations for Drugs/
Medical Devices

Scientific Review and Research for Safety Information

Information Provision (via the Internet),
Pharmaceutical Consultation for Consumers

# Post-Marketing Safety Scheme



### Organization of Ministry of Health, Labour and Welfare

Social Insurance Agency Ministry of Health, Labour and Welfare Ministry Proper **General Affairs Division** Minister's Secretariat **Health Policy Bureau Evaluation and Licensing** Division Health Service Bureau Pharmaceutical and Food Safety Bureau (PFSB) Safety Division 27 staff 143 staff Social Welfare and War Victim's Relief Bureau Compliance and Narcotics Health and Welfare Bureau for the Elderly Division Equal Employment, Children, and Families Bureau **Blood and Blood Products** Insurance Bureau Division **Pension Bureau** 

Director-General for Policy Planning and Evaluation

## FY2008 Budget for Pharmaceuticals

(Pharmaceutical and Food Safety Bureau, MHLW)

• FY2008 Budget

¥8,882mil./\$88.9mil.

(Safety Div. ¥249.6mil./\$2.5mil)

FY2007 Budget

¥8,916mil./\$83.5mil.

(Safety Div. ¥243.4mil./\$2.4mil)

Difference

 $\Delta$ ¥34mil./\$0.32mil.

- FY2008/FY2007

99.6%

NOTE: Japanese FY covers the period of Apr. 1 through Mar. 31. \$1=\frac{1}{2}99.95 (as of Mar. 19, 2008)

### PMDA: Office of Safety — Organization chart—

Chief Safety Officer Office of Safety (38 regular staff) Planning & Management Div. (4 staff)

Safety Info. Div. (4 Staff)

**Info. Support Group** 

Surveillance and Analysis Div.(6 Staff)

**Drug Safety Div. (16 Staff)** 

Medical Device Safety Div.(7 Staff)

Medical Safety Info. Group

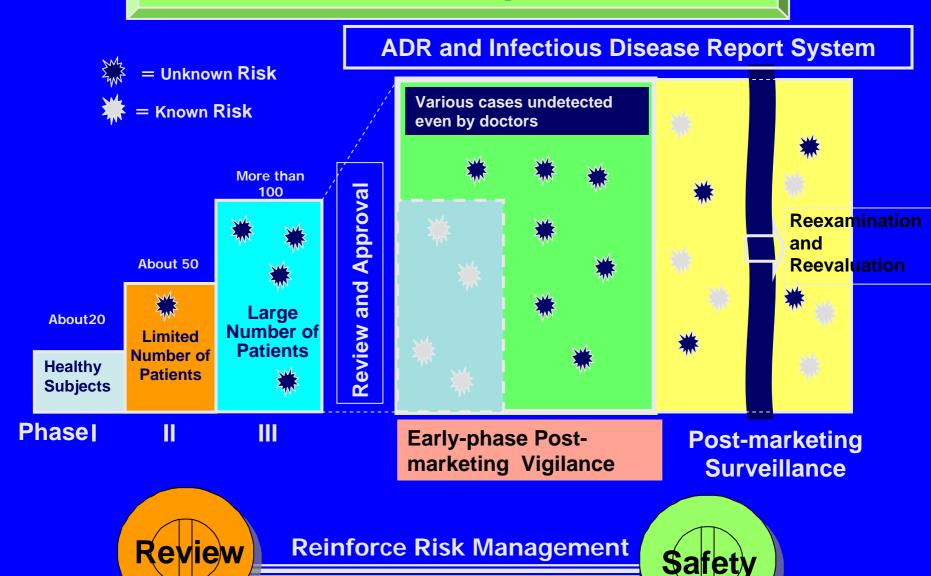
In addition, There are around 30 support staff and clerks as well as 5 part-time professional advisors (MD and statistician).

## FY2008 Budget for Pharmaceuticals

(Office of Safety, PMDA)

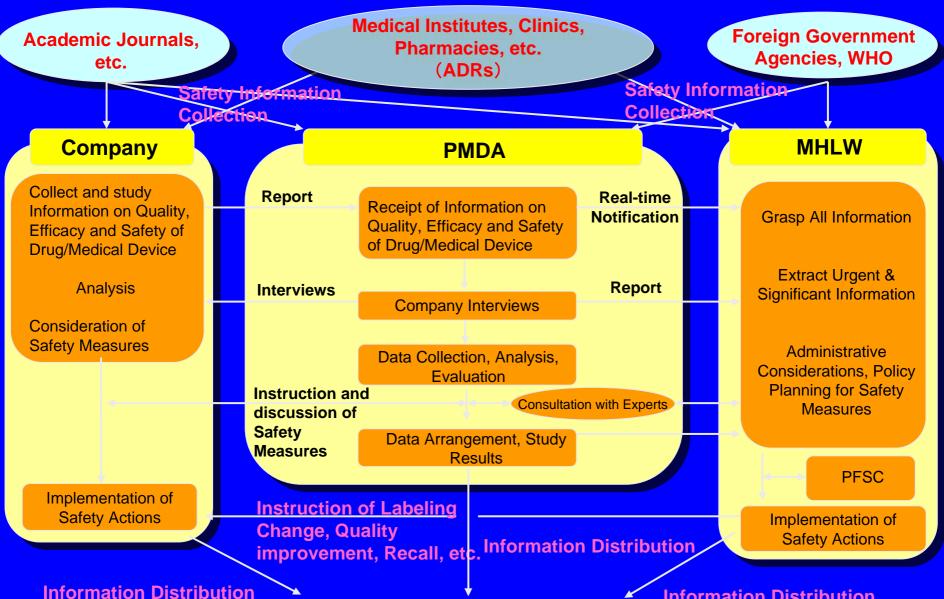
- FY2008 income from MAHs est. ¥ 1,280 Mil.
- FY2008 MHLW subsidy est. ¥ 252 Mil.
- Others est. ¥ 4 Mil.
- (total ¥ 1,536 Mil.)
- FY2007 income from MAHs ¥ 1263 Mil.
- FY2007 MHLW subsidy ¥ 255 Mil.
- Others ¥ 5 Mil.
- (total ¥ 1,523 Mil.)
- Covering budget for Medical Devices Safety and partially for Quality (GMP/QMS and standard development)

## For "Safer" Drugs / Devices



**Inseparable Pair** 

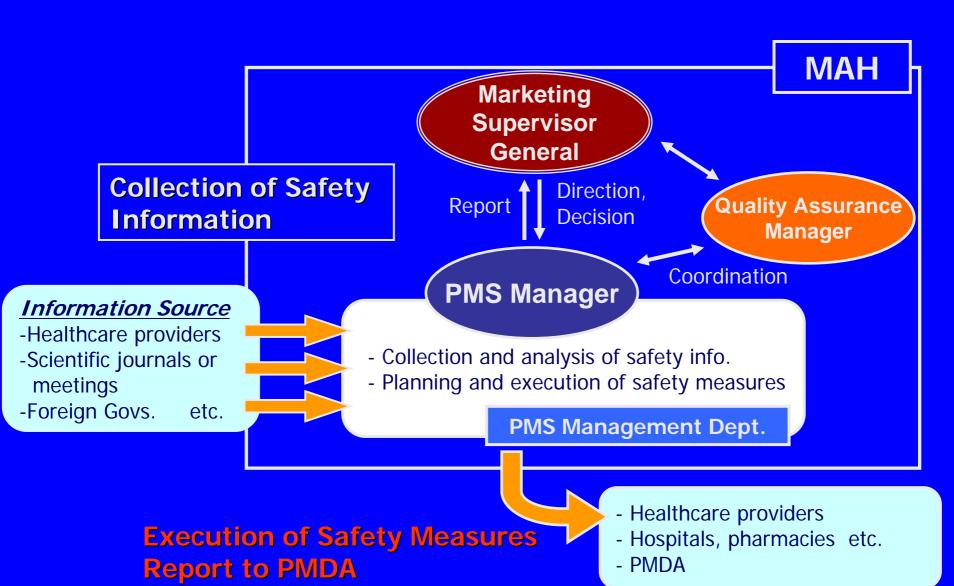
### Vigilance Operation Flowchart



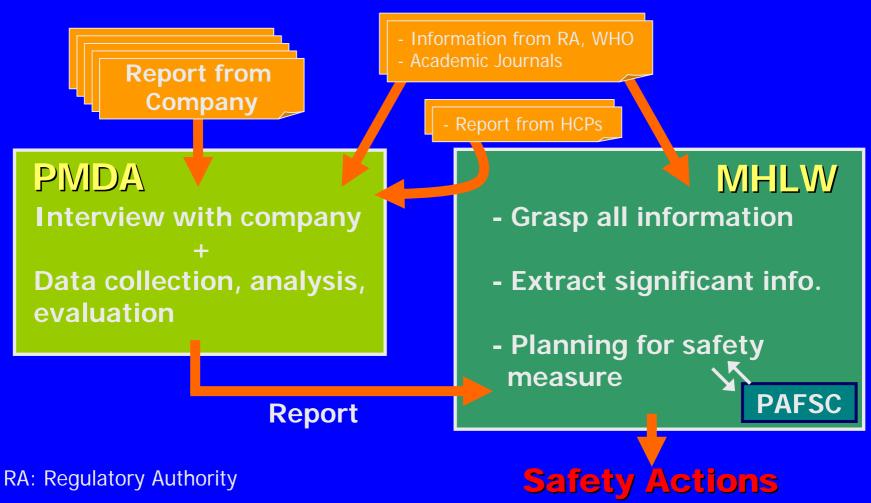
**Information Distribution** 

**Healthcare Providers, Mass Media,** the Public

# Outline of Information Flow (1) (MAH)

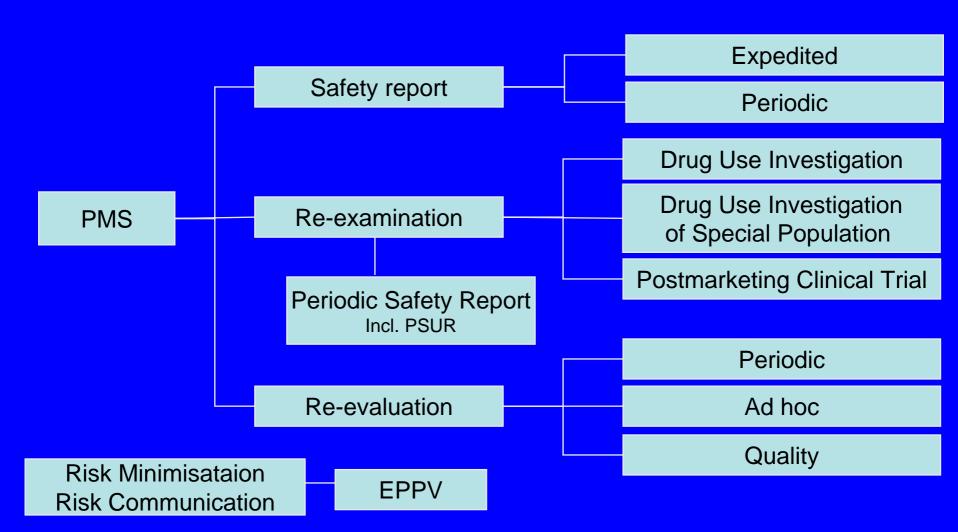


## Outline of Information Flow (2)

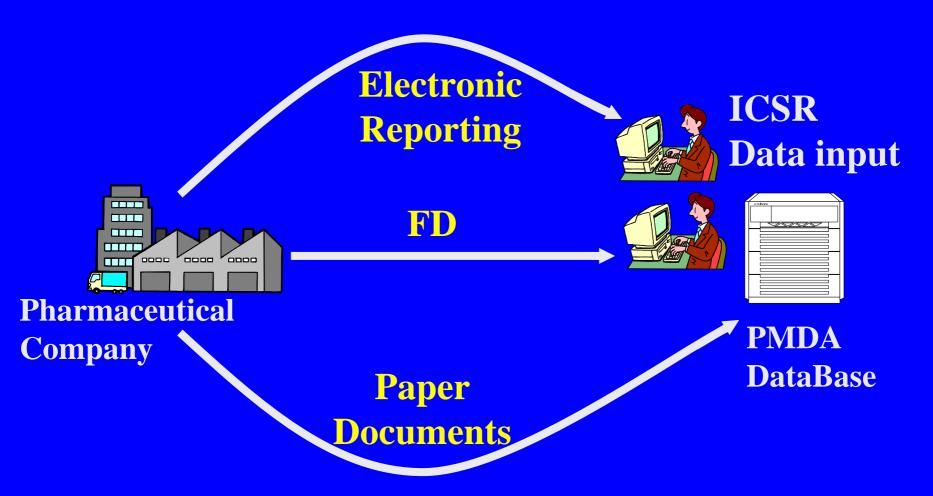


(Administrative Advice for revision of package insert etc.)

# JP Postmarketing activities



## ADR Reporting by MAH

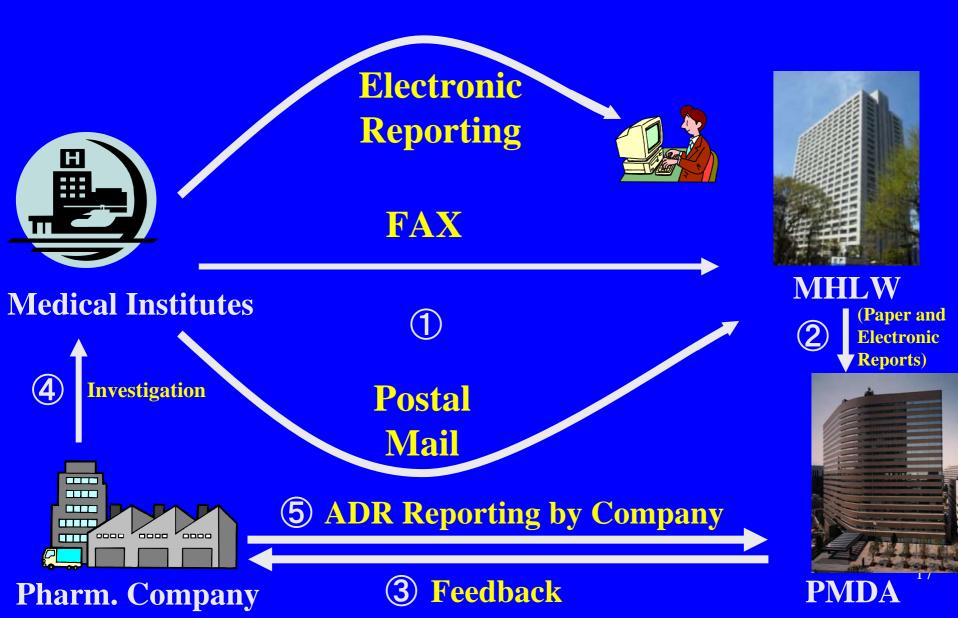


- **◆Electronic reporting transmitted by internet**
- **♦**Reporting by FD
- **♦**Reporting by paper documents

## ADR Report from HCP

- voluntary basis
  - since 1967: designated medical institutions
  - since 1984: designated pharmacies
  - since 1997: all medical institutions and pharmacies
- stipulated in PAL
  - since 2003
- HCPs shall report to MHLW when
  - detect occurrence of any disease suspected to be caused by adverse reactions
  - confirm that it is necessary to prevent occurrence or spread of hazards

# ADR Reporting by Med. Inst.



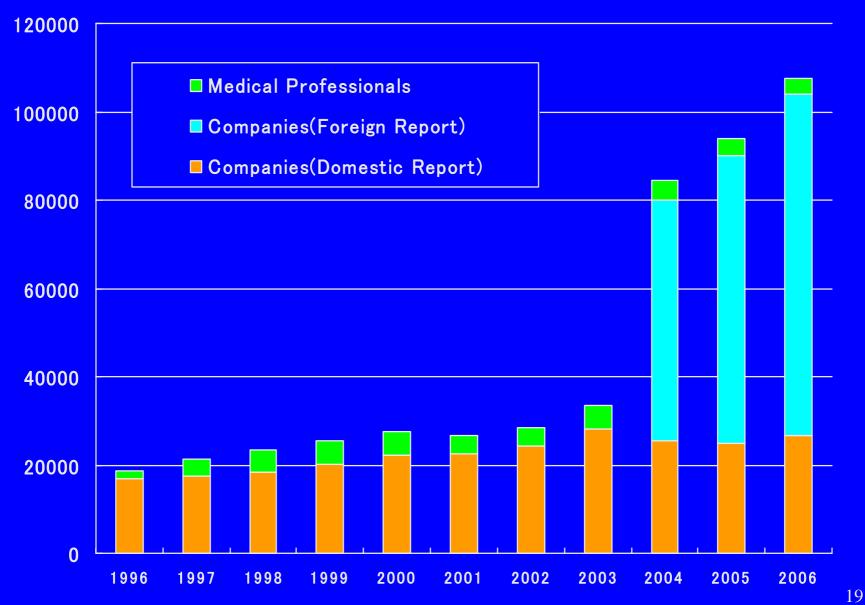
# ADR Reporting Rule (Drug)

Serious- ness	predictability	Time frame of report to PMDA
Serious	Not predictable	15 days
	Predictable	- Death etc.* 15 days - Others 30 days
Not serious	Not predictable	Annually (Annual Cumulative Report)
	Predictable	-

- Reporting time frame depends on seriousness and predictability of the case. (Article 253 of the Ministerial Ordinance on PAL)
- No timeframe defined for HCP reporting

- \* Death
  - ADR caused by new drug ingredient within 2 years after approval
  - ADR detected by Early Phase Post-marketing Vigilance (EPPV)

#### Reported ADR / Infectious Disease Cases



# Course of Post-marketing Safety Measures

- After-the-Fact Measures (Measures taken after the incidence of ADR)
- Prognostic Measures (Measures taken for drugs/patients with possible incidence of ADR)



• Preventive Measures (Measures taken for high-risk situation (high-risk patients etc.))

## Safety Measures

- Revision of a package insert
- Recall/withdrawal, suspension of the sale
- Improvement of the products to prevent reoccurrence of the AE
- Administrative Instruction/Advice by PMDA/MHLW to MAH to revise safety information in package insert; "Precautions for Use," "Boxed Warning," etc.
- Dissemination of information on ADR/AE incidents and measures against them (e.g., publication of "Pharmaceuticals and Medical Devices Safety Information" and "Urgent Safety Information" by MHLW) etc.

# Early Phase Post-marketing Vigilance (EPPV)

- Promote proper use of new drugs
- Detect serious ADRs earlier
- Take safety measures quickly



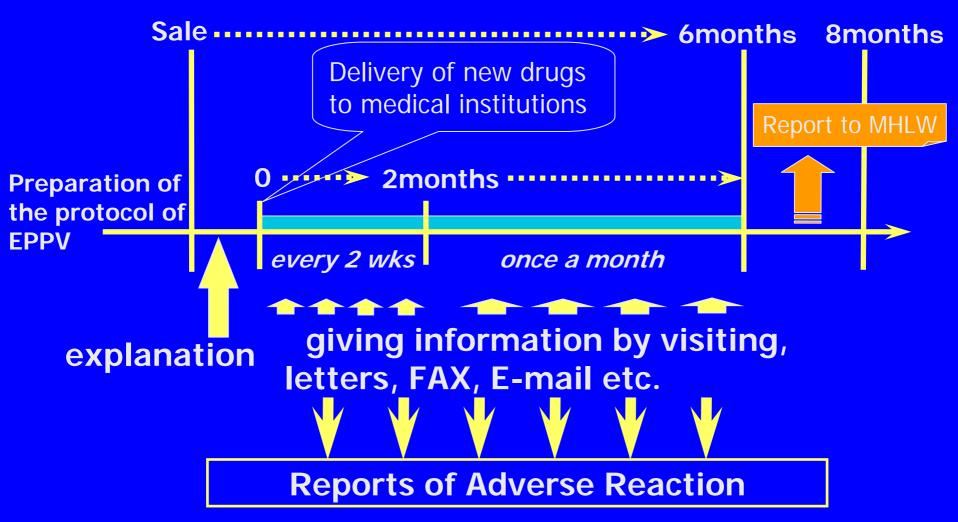
Protect patients from ADRs

### Early Post-Marketing Phase Vigilance: EPPV

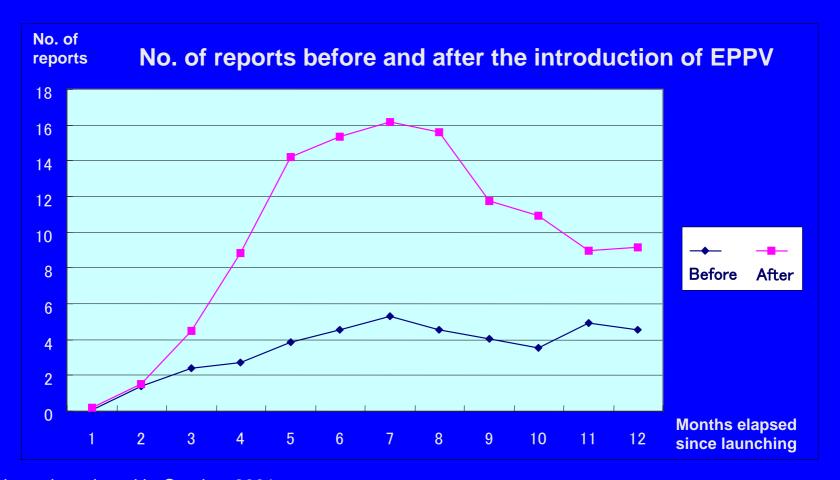
#### Enforced on Oct 1, 2001

- 1. To ensure necessary information for appropriate use (contraindication, careful administration etc) is explained to the medical institutions 2 weeks before delivery.
- 2. To request medical institutions to use the drugs carefully and report serious ADRs, if occurred, immediately to pharmaceutical companies
- 3. To request appropriate use and ADR reporting repeatedly to medical institutions for 6 months after delivery.

### Early Phase Post-marketing Vigilance, EPPV



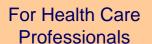
# Number of reported ADRs of New Active Ingredients before and after the introduction of EPPV (average per month)

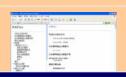


EPPV was introduced in October 2001.

Number of before-EPPV is based on 30 new active ingredients launched between Apr. 2000 and Mar. 2001. Number of after-EPPV is based on 22 new active ingredients launched between Oct. 2001 and Oct. 2002.

#### **PMDA Information Web site**





Package Inserts for Pharmaceuticals or Medical Devices



Reports of suspected adverse events or suspected Defect s



**Doctor letters** and Safety Information



Information on approvals of Druge/Davices



#### Information for the Health Care **Professionals**

- 添付文書情報(医療用医薬品)
- ▶ 添付文書情報(一般用医薬品) 副作用が疑われる症例報告に関する情報
- 緊急安全性情報(ドクターレター)
- ▶ 医薬品・医療機器等安全性情報(原生労働省発行
- 医薬品安全対策通知
- ▶ 使用上の注意の改訂情報 ▶ 厚生労働省発表資料(医薬品等関連)
- ▶ DSU(医薬品安全対策情報) ▶ 患者向医薬品ガイド
- ▶ 重篤副作用疾患別対応マニュア
- 承認情報(医薬品)
- ▶ 医療用医薬品 品質情報 ▶ 回収情報
- · 療安全情報
- な安全対策の取り組み

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Recalls

- ▶ 添付文書情報(医療機器) ▶ 不具合が疑われる症例情報 ▶ 医薬品·医療機器等安全性情報(厚生労債 ▶ 厚生労働省発表資料(医療機器関連) 承認情報(医療機器)
- ▶ 医療支
- ▶ 医療機関報告のお願。



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どが活いする初期症状、治療法、判別法

医薬品医療機器

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ご利用について

お問い合わせ

サイトマップ

情報配信サービス

健康被害救済制

などを包括うにまとめたものです。

海典者が 医師の如ち

判断で発局・発店で置る

サイト内検索

検索

**Pharmaceutical** Guidance for

Semano.

#### For Patients and the general public



Q&A on **Pharmaceutical** 



Consultation on Drugs / Devices



Measures against the Serious Adverse

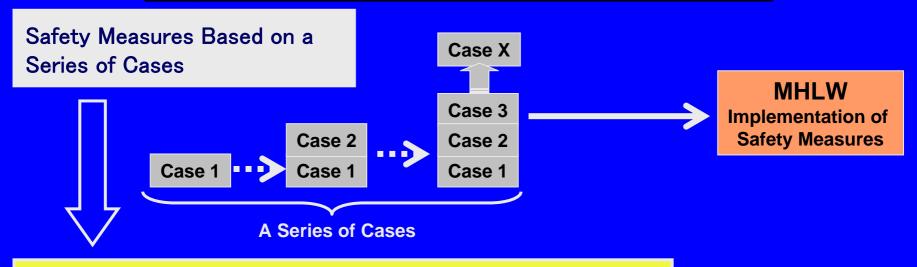


Package Inserts for OTC Drugs

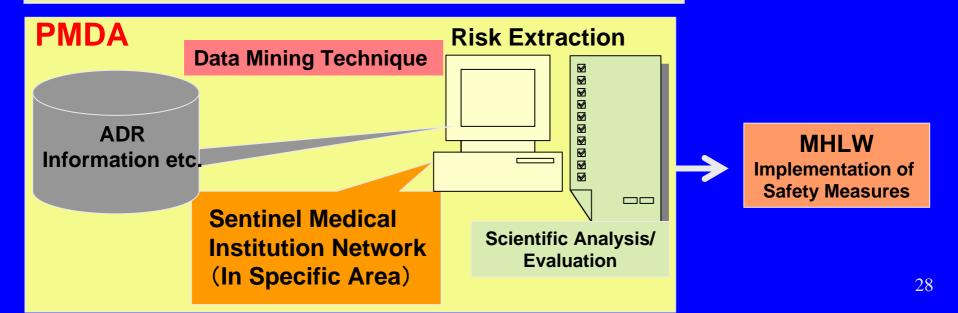
# Information distributed by MHLW/PMDA

- Revision of package insert by MHLW
- Documents of Committees/Working groups available on the MHLW website (Japanese only)
- Pharmaceuticals and Medical Devices Safety
   Information by MHLW (PMDSI English version to be available by PMDA)
- Pharmaceuticals and Medical Devices Information Website (PMDInfoWeb, Japanese only) by PMDA
  - Package insert, guidance for patients, rules of ADR reporting, pieces of ICSRs and etc.

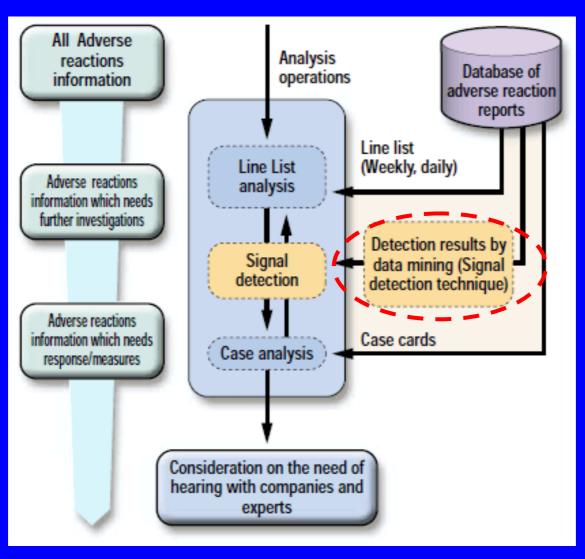
## Improvement of Safety Measures



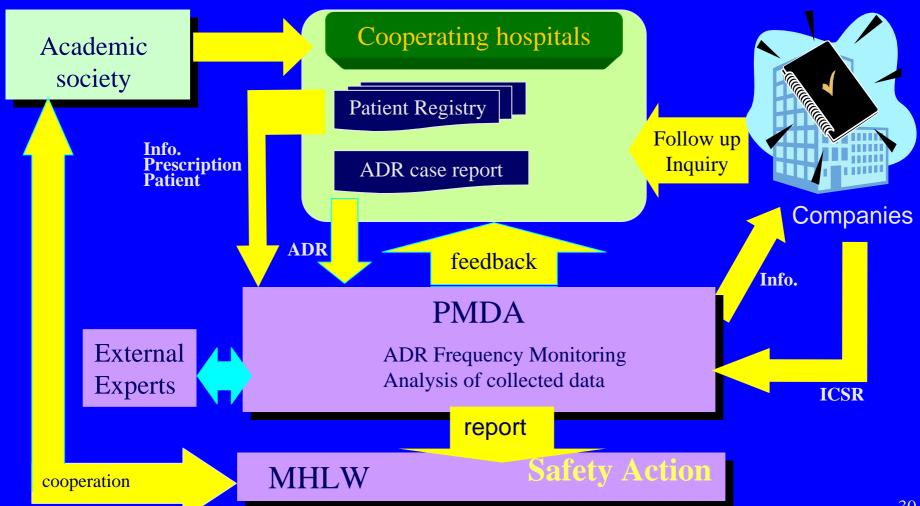
Prospective/ Preventive Safety Measures



# Application of Data Mining Method to Post-marketing Safety Operations

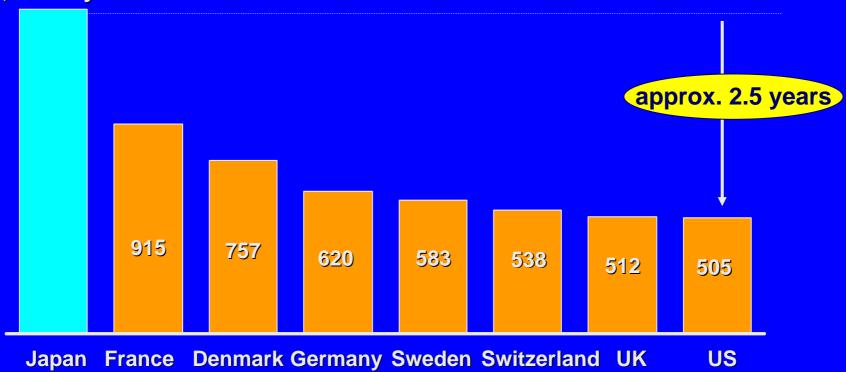


## Sentinel Medical Institution Network for Oncology Combination Therapy Surveillance



#### Present situation of "Drug Lag"





\* Average days to launch 100 world best selling products in each country after their first launch.

Because different combinations of 100 world best selling products are marketed in different countries, average days are calculated based on the products actually marketed in each country.

Source : JPMA Office of Pharmaceutical Industry Research.
Research paper No. 31

#### Measures and policies to reduce the drug lag Target Setting FY 2007 ~ 2011 (5 years)

Aims: To reduce the "drug lag" by a total of 2.5 years by 2011 through 1.5 year and 1.0 year reductions respectively in the development and approval times; and to cut down the marketing lag to 500 days in line with the U.S.

#### **Development time**

Current time lag of application between Japan and US/ EU: 4.3 years (median)

#### **Approval review time**

Present total review time of standard products :22 - 24 months (median)

To reduce current time lag of application between Japan and US/ EU by 1.5 years

To reduce Total TC (median) for standard products applied after FY2004 by 1.0 year

To reduce a total of 2.5 years

#### Total risk management system for Consultation, Review and Safety Present -Correction Clinical trial Safety and addition consultations etc. of data Review -Rejection of inadequate No consultation data

#### **Future**

#### Clinical trial consultations etc. (prior evaluation)

- -Advice on development strategy
- -Global clinical trial consultation
- -Advice and instruction on

**Pharmacovigilance** 

Review

(Enhancement of risk management)

Safety

(Application with inadequate documents will be rejected)

#### I. Enhancement of CT consultation

- -Conduct the review of toxicity and pharmacology etc. beforehand as a part of consultation
- -Advice on development strategy at the early stage of development, clarification of review policy
- -Enhanced measures for global collaborative clinical trial and state-of-the-art science and technology

#### II. Review with selected focuses

- -Focused on essential evaluation of efficacy and safety
- III. Enhancement of safety measure
  - -Start giving advice and instruction on pharmacovigilance from the consultation stage

### Cooperation between review and safety (Current)



#### **Future Perspective:**

# Total Management of Safety Information from developing stage to Post Marketing Phase

- to create a system in PMDA to manage all safety information <u>from development and review stage</u> <u>to post marketing phase</u> by strengthening cooperation between OND and Office of Safety with a view to giving timely and effective guidance and advices on safety measures
- Contribute to Life Cycle Management of Drugs
  - Identification of Safety Specification of New Drugs
  - Design of Post Market Studies and Investigations to address the specification
  - Assessment of the results of studies and investigations

### Our Mission (MHLW/PMDA)

To Ensure <u>Faster</u> Access to

<u>More Effective</u> and <u>Safer</u>

Pharmaceuticals, Medical Devices

for the Public



**Improving Public Health**