



Overview of Pharmacovigilance and Good Distribution Practices: Program and Activities in Indonesia

Dra. A. Retno Tyas Utami, Apt, M.Epid

Deputy of Therapeutic Products and Narcotic, Psychotropics &

Addictive Substances Control

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Outlines:

- Vision & Missions
- Organizational Structures
- Regulatory Framework to Ensure S, E, & Q
- Linked between Pre-Market and Post-Market Control
- Overview of Pharmacovigilance in Indonesia
- Overview of GPD in Indonesia
- Key messages





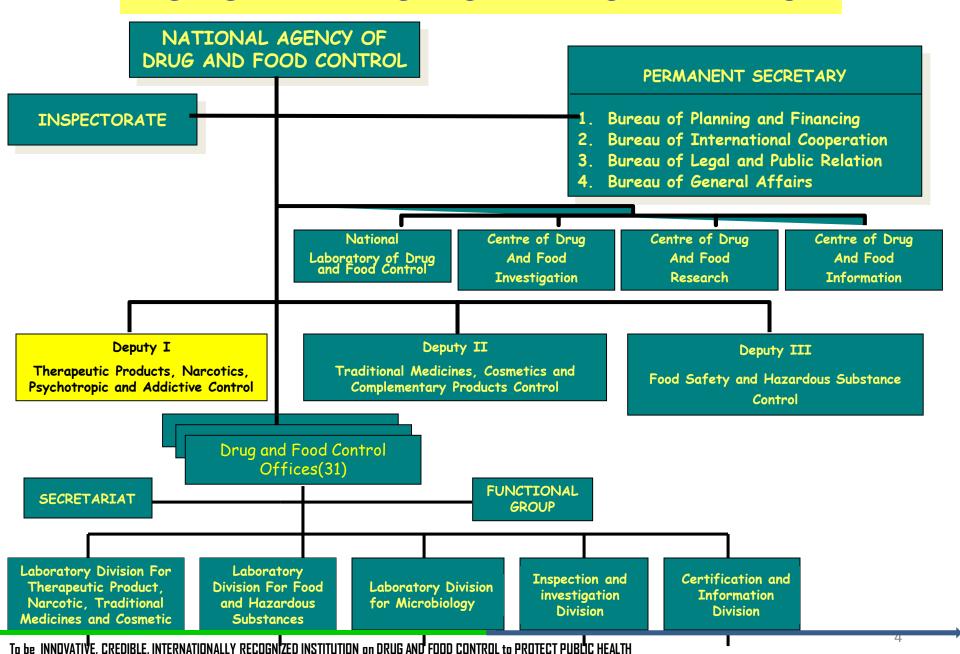
To be innovative, credible, and Internationally recognized institution on Drug and Food Control to protect public health

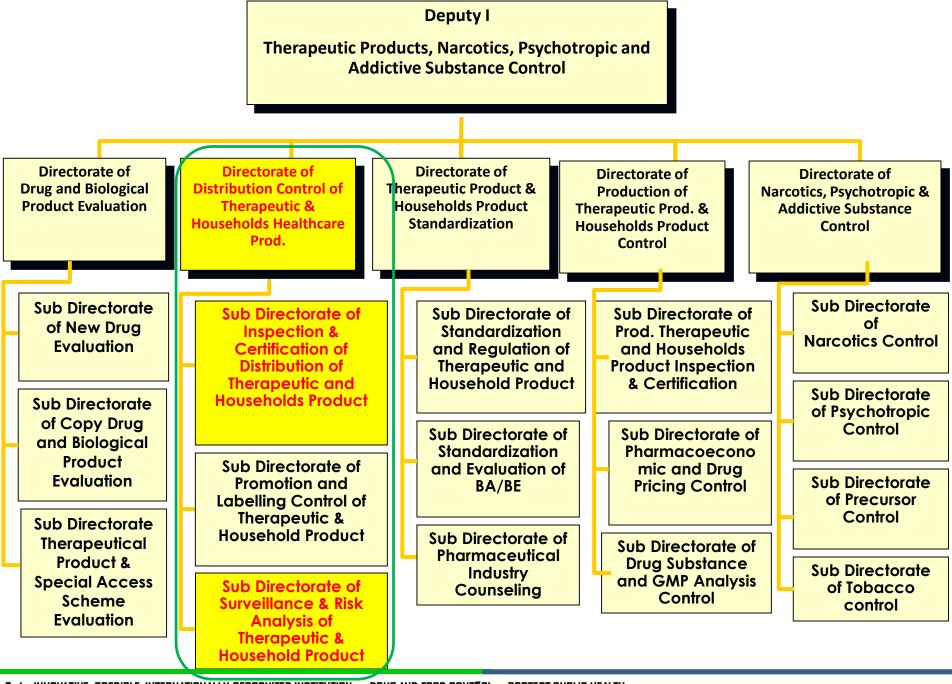


MISSIONS

- 1. Conducting pre- and post market control based on international standard
- 2. Implementing Quality Management System consistenly
- 3. Optimalizing networking/cooperation with all stake holders in all level.
- 4. Empowering public to have capability to protect themselves from drug and food which are risky to their health.
- 5. Establishing Learning Organization

ORGANIZATION CHART OF NA-DFC







REGULATORY FRAME WORK TO ENSURE S, E AND Q

Assured Medicines S, E and Q

Documentation, monitoring, and evaluation

Pre-marketing quality assessment:

marketing authorization, licensing and registration

Regulatory elements:

central
administration,
inspection, and
government
laboratory
services

Technical elements:

quality specs, basic tests, GCP, GMP, GLP, GPP, GDP, GSP, and GPvP

Post-marketing surveillance:

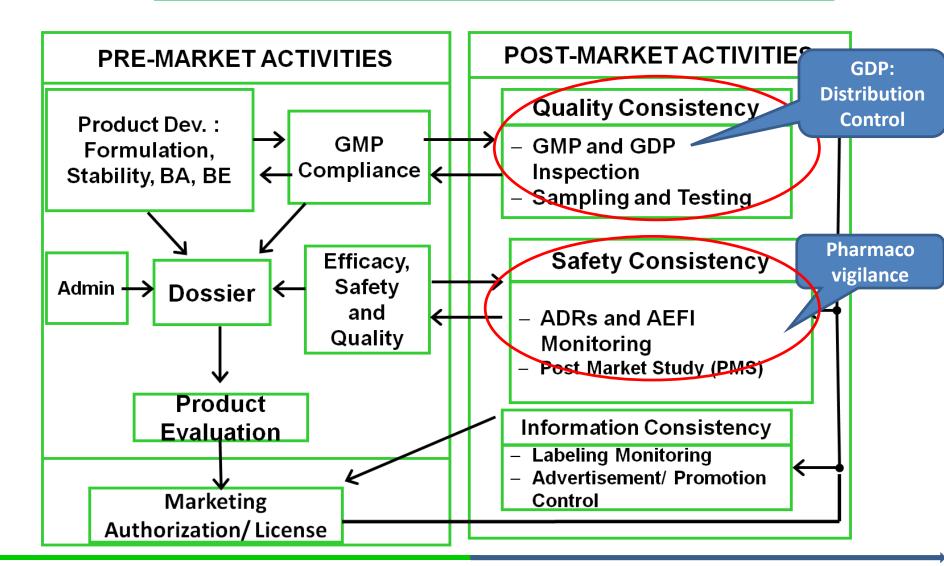
QUALITY and ADVERSE EVENTS, advertising, and promotion control

Adequate legislation and law enforcement

Explanatory notes: GCP=Good Clinical Practices; GMP=Good Manufacturing Practice; GLP=Good Laboratory Practice; GPP= Good Pharmacy Practice; GDP=Good Distribution Practice; GSP=Good Storage Practice; GPvP= Good Pharmacovigilance Practice



Linked between PRE - MARKET AND POST - MARKET CONTROL





OVERVIEW OF PHARMACOVIGILANCE PROGRAM AND ACTIVITIES IN INDONESIA





EMERGING PHARMACOVIGILANCE FOR ENSURING DRUG SAFETY



WHY PHARMACOVIGILANCE IS NEEDED?



Pharmacovigilance (WHO Definition)

The science and activities relating to the detection, assessment, understanding and prevention of adverse effects or any other possible medicine-related problems



LESSON LEARNED FROM THALIDOMIDE

TRIGERRED AND STARTED...HERE!



1960's

CONTINUED....



The Culprit



THALIDOMIDE AND CONGENITAL

Sm.—Congenital absormalities are present in appreximately 1-5% of babies. In recent months I have observed that the incidence of multiple severe absormalities is babies delivered of women who were given the drug thillidomide (* Distrust ') during pregnancy, as an anti-emeric or as a sedante, to be almost 20% [18].

These abnormalities are present in structures developed from mesencityme—i.e., the bones and dissections of the gut. Bony development seems to be affected in a very striking manner, resulting in polydecryly, syndictyly, and failure of development of long bones (abnormally their femore and radii).

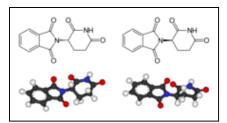
Have any of your readers seen similar absormalities in babies delivered of women who have taken this drug during prognancy?

Secretary New South Wales.

W. G. McBring.

"." In our issue of Dec. 2 we included a seateness from the Distillers Company (Blochemicals) Ltd. referring to "reports from two overseas sources possibly suspcissing thalidomide ('Diseaval') with harmful effects on the fertus in early pregnancy ". Pending further investigation, the company decided to withdraw from the market all its preparations containing thalidomide.—En L.

The Lancet December 16, 1961.



Thalidomide!

Facts on Clinical Development of Medicines (Pharmaceutical & Vaccine)

"Not all hazards of a drug can be known before it is marketed."

(UK Com on the Safety of drugs)



Clinical Trials General Use

- Quite Homogenous
- Limited number of patients
- Rare side effects may not be seen

No drug is inherently safe

- -unless it has no effect at all!
- Each patient is unique
- Each treatment situation is unique
- What is the right drug for me might be a bad choice for you



Legal framework

POST-MARKET CONTROL ACTIVITIES ON DRUG SAFETY: Pharmacovigilance Program



MoH Regulation No. 1010/Menkes/Per/XI/2008 on Drug Registration, Article No. 22

Re – evaluation of marketed drug is done under following circumstances:

- Post-market surveillance reveals that the risk outweighs its benefit
- The effectiveness is not better than its placebo
- Not meet bioequivalence requirements
- Need to improve composition and reformulation



MoH Regulation No. 1799/Menkes/Per/XII/2010 on Pharmaceutical Industry, Article No. 9

Pharmaceutical Industry (Marketing Authorization Holder) must perform Pharmacovigilance



Head of NADFC Regulation No. HK.03.1.23.12.11.10690 of 2011 on Implementation of Pharmacovigilance for Pharmaceutical Industry

Technical Guidance of Pharmacovigilance for Pharmaceutical Industry



Ensuring Drug Safety: Risk Management Approaches





REGULATOR and PI/MAH:
MANAGING RISK IN TERM OF
RISK – BENEFIT RATIO FOR
POPULATION



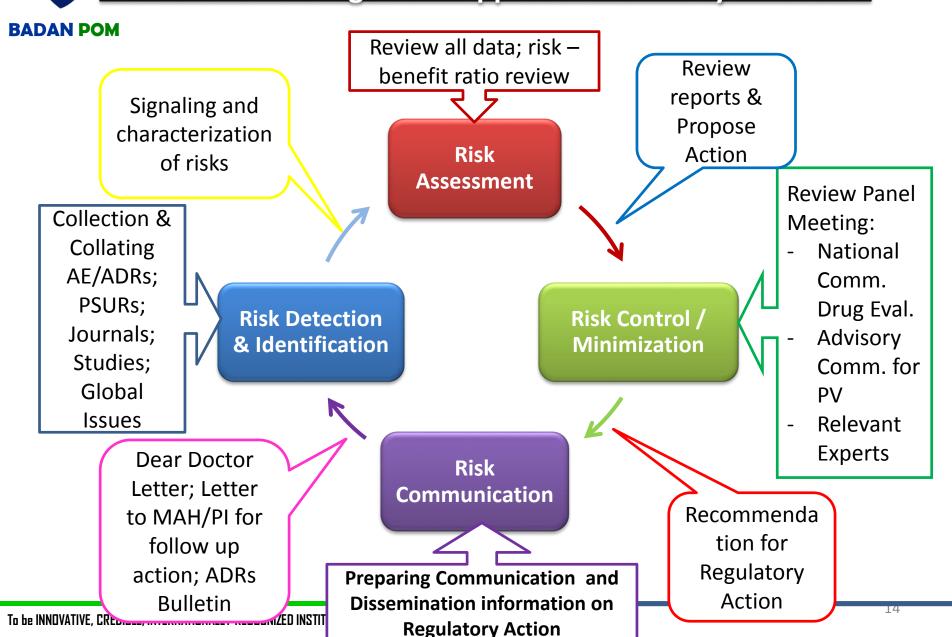
HCPs/HEALTHCARE FACILITIES: MANAGING RISK IN TERM OF RISK – BENEFIT RATIO FOR PATIENTS





PATIENTS: MANAGING RISK IN TERM OF PERSONAL VALUES

Drug Safety Review Process with Risk Management Approaches done by NADFC





Safety Measures/Regulatory Actions on Safety

CHANGE IN REGIMEN DOSE

LIMITATION ON INDICATION

LABELING CHANGES

PRODUCT RECALL

SUSPENSION OF MA

CANCELLATION OF MA

WITHDRAWAL

Regulatory Actions by NADFC for Marketed Drugs/Vaccines in 2009 -2012

Drug/Vaccine	Risk Identification & Assessment	Risk Control/Regulatory Acton	
2009			
Acomplia	Risk of Cardiovascular	Suspension, recall/withdrawal	
Floroquinolone	Risk of tendon rupture	Update of labeling: Box Warning	
Mycophenolate mofetil	Risk of Pure Red Cell Aplasia (PRCA)	Update Labeling to include this risk on Warning and Precaution , and Undesireable effect.	
Lovenox (LMWH)	Contamination of OSCS on certain bacthes	Recall/withdrawal of certain batches	
2010			
Varenicline	Risk of psychiatric disorder, however the benefit remains outweigh the risk	Update of Labeling: Box warning	
Rosiglitazone	Risk of cardivascular events	Suspension, recall/withdrawal	
Sibutramine	Risk of Cardiovascular events	Registration cancellation, recall/withdrawal	
Peg-Intron	Cartridge defect	Withdrawal of affected bacthes	
2012			
Pioglitazone	Risk of bladder cancer	Update of Labeling	
Albapure	Contamination of ethylene glycol	Recall /withdrawal of certain batches	

Implementation of PV by PI/MAH

REGULATION

PI/MAH

MANDATORY TO PERFORM PVAND REPORT TO AUTHORITY



✓ MoH Regulation No. 1799/Menkes/Per/XII/2010 on Pharmaceutical Industry, Article No. 9

✓ Head of NADFC Regulation No.
 HK.03.1.23.12.11.10690 of 2011 on
 Implementation of Pharmacovigilance for
 Pharmaceutical Industry (Enacted in 5
 January 2012)

TO STRENGTHEN THE DIRECTION OF AND TO HAVE BETTER STRUCTURED PV SYSTEM IN INDONESIA, WITH OPTIMALIZATION OF THE ROLES AND RESPONSIBILITIES OF PI/MAH TO ENSURE DRUG SAFETY



PHARMACOVIGILANCE FRAME WORK: STEPWISE IMPLEMENTATION OF PHARMACOVIGILANCE BY INDUSTRY

2011-2012

- ✓ Enacted and
 Launched Head of
 NADFC Regulation on
 PV Implementation
 for PI/MAH, incl. PV
 Technical GL
- ✓ Training PV
- ✓ Coordination and Communication Forum for PV
- ✓ Development of Tools for Monitoring PV Implementation

2013

- ✓ Dissemination and Workshop of PV Technical Guidelines and Tools for Monitoring PV Implementation
- ✓ Piloting for PV
 Inspection
 /Monitoring PV
 Implementation
- ✓ PV Symposium (Joint Symposium with Japan)

2014

- ✓ Piloting for PVInspection/Monitoring PVImplementation
- ✓ Evaluate possibility of Changing Reporting Format into E2B (ICH standardized format)
- ✓ Development of
 Analysis system for
 Signaling/Upgrading
 Data Base System

2015-....

- ✓ PV Inspection /Monitoring PV Implementation
- ✓ Upgrading Reporting Format into E2B (ICH standardized format)
- ✓ PV Training
- Review PV Technical Guidelines
- ✓ Pilot Test for Analysis system for Signaling/Upgrading Data Base System



PHARMACOVIGILANCE PROGRAM: STRATEGIC MEASURES AND THE WAY FORWARD

BADAN POM

- ROLES AND RESPONSIBILITIES OF PHARMACEUTICAL INDUSTRIES
 - New MoH Regulation on Pharmaceutical Industry: PV is mandated and PV Guideline has been stipulated in 2012
 - Develop tools for PV Inspection/Monitoring of PV implementation
 - Workshops, Seminars, Disseminations
- LINK PV Activities with PUBLIC HEALTH PROGRAMS (PHP) (AEFI for Vaccines used in EPI/Immunization Program; ATM Drugs (MDGs) and other PHP)
- ENCOURAGEMENT OF HEALTHCARE PROFESSIONALS (HCPs) (Workshops, Seminars and Trainings; development Electronic Reporting, feedback information: publish ADRs Bulletin)
- IMPROVE CAPACITY BUILDING for PV UNITS
- STRENGTHEN NETWORKING on PV with ALL KEY PLAYERS (Both National and International)
- International net working: WHO-International Drug Monitoring Program, DCVRN, Global Vaccine Safety Initiative, ASEAN PMAs, Incl. Japan Indonesia Symposium
- PROMOTE PV PROGRAM Collaboration with Academia to put PV on the curiculum



OVERVIEW OF GOOD DISTRIBUTION PRACTICES IN INDONESIA









GDP DEFINITION

That part of quality assurance that ensures that the quality of a pharmaceutical product is maintained by means of adequate control of numerous activities which occur during the distribution process as well as providing a tool to secure the distribution system from counterfeits, unapproved, illegally imported, stolen, substandard, adulterated, and/or misbranded pharmaceutical products

(Annex 5-WHO Technical Report Series, No. 957, 2010)

A practice of distributing medicinal products and/or starting materials to ensure that their qualities are maintained along the distribution chain in accordance with the requirement and their intended use.



Techinical Guidelines on GDP 2012





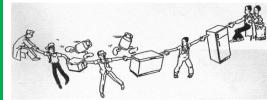




WHY IS GDP IMPORTANT?

- Preservation of product quality down supply chain from manufacturer who implement GMP to distributor along the way down to retailers/consumers
- Prevention of the occurrence of mix up & cross contamination
- Maintenance of traceability up to supply source (investigation)
- Facilitate prompt product recall











GDP GENERAL PRINCIPLES

- The principles of Good Distribution Practices (GDP) are applicable to the aspects of procurement, storage, distribution and return of medicinal products and/or starting materials in the distribution chain.
- All parties involved in the distribution of medicinal products and/or starting materials responsible to ensure their quality and to maintain the integrity of the distribution chain throughout the distribution processes.
- The principles of GDP should also be applied to the donation of medicinal products, reference standards, and medicinal products for clinical trial.
- All parties involved in the distribution process should apply due diligence with adherence to the principles of GDP, for example, procedures relating to traceability and risk identification.
- There should be collaboration between all parties including governments, customs, law enforcement agencies, regulatory authorities, manufacturers, distributors and those responsible to the supply of medicinal products, ensuring the quality and safety of medicinal products and prevent the exposure of counterfeit medicinal products to the patients.

 Source: Technical Guidelines on GDP, 2012



LEGAL BASIS FOR IMPLEMENTING GDP

- I. Drug Ordinance Stbl. 1949 No.419
- 2. Criminal Code (Kitab Undang-undang Hukum Pidana)
- 3. Law No. 5 of 1997 on Psychotropics
- 4. Law No. 35 of 2009 on Narcotics
- 5. Law No. 36 of 2009 on Health
- 6. Government Regulation No. 72 of 1998 on Controlling Pharmaceutical Preparations and Medical Devices
- 7. Government Regulation No. 51 of 2009 on Pharmaceuitical Practices
- 8. Ministry of Health Decree II48/MENKES/PER/VI/20IIon Pharmaceutical Wholesalers
- 9. Head of NADFC Decree No: HK .03.I.34.II.I2.7542 of 2012 on the Technical Guidelines on Good Distribution Practices
- I0.Head of NADFC Decree No: HK.03.I.33.I2.I2.8195 of 2012 on the Technical Guidelines on Good Manufacturing Practices



GDP ASPECTS



Quality Management



Organization, Management and Personnel



Premises and Equipment



Operations



Self Inspection



Complaints, Medicinal Products and/or Starting Material Return, Suspected Counterfeit and Recall



Transportation



Distributor By Contract



Documentation

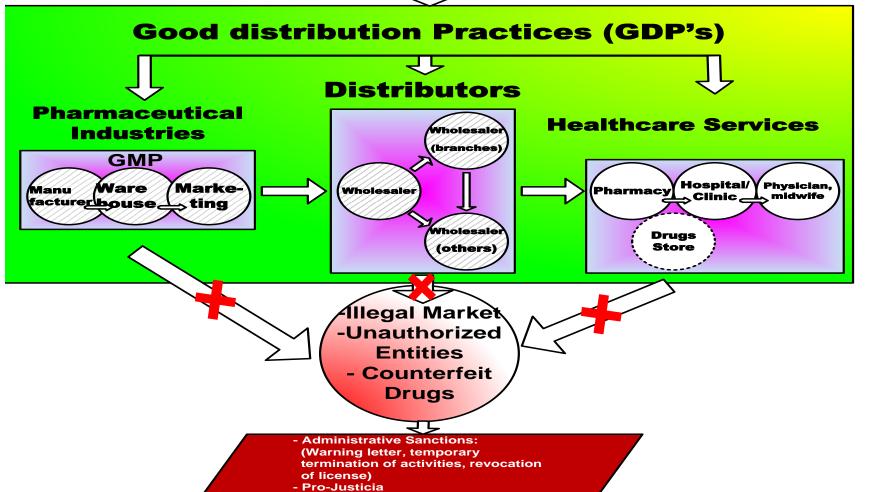
Head of NADFC Decree No: HK .03.I.34.II.12.7542 of 2012 on the Technical Guidelines on Good Distribution Practices



CONCEPT OF DRUG DISTRIBUTION CONTROL



- Routine Inspection
- Under Cover Buy
- Comprehensive Audit





SPECIAL ATTENTION FOR INSPECTION BASED ON RISK

- 1. Documentation
- 2. Premises & Equipment
- 3. Operations
- 4. Transportation
- 5. Suspected Counterfeit/Illegal

Vaccines (CCP)	Narcotics and Psychotropics	Pharmaceutical Ingredients
 ✓ Need special storage requirements ✓ Sensitive to temperature fluctuation and extreme temperature 	✓ Addictive ✓ Vulnerable to abuse	When the distribution chain is interrupted by manufacturing steps such as repackaging and relabelling, the principles of good manufacturing practices (GMP) should be applied to these processes.



COMMON GDP DEFICIENCES

Quality Management:

- -Controlled documents e.g. SOPs were not subjected to periodic review
- -SOPs do not reflect actual procedure performed

Premises and equipment:

- ◇Temperature monitoring device was not calibrated
- Thermometer was not put in a place to monitor the highest daily temperature
- Relative humidity (Rh) was not monitored

Operations:

- -Batch number control was not adequately conducted
- -No reliable system in place to ensure FEFO or FIFO

Self inspection:

◆Self inspection was not conducted

Distributor by contract:

-GDP aspects was not considered in a contract agreement with an expedition company.



GDP Roadmap

2003 - 2008

2009

2010 - 2012

- GDP Guideline 2003 edition
- Technical
 Direction on
 GDP
 implementation
- GDP Inspection

- Tools mapping Developed
- Training for GDP inspector
- GDP

Inspection

- Training for GDP inspector
- Mapping dissemination
- Mapping on GDP implementation 5% (2010), 15% (2011), 30% (2012)
- GDP Certification 2% (2011), 10% (2012)
- Technical Guidelines on GDP 2012 edition
- GDP Inspection

2013 - 2014

2015

- Training for GDP inspector
- Technical Guidelines on GDP dissemination
- Mapping on GDP implementation 45% (2013), 60% (2014)
- GDP Certification 25% (2013), 45% (2014)
- GDP Inspection

- Training for GDP inspector (continue)
- Technical Guidelines on GDP dissemination (continue)
- Mapping on GDP implementation (continue)
- GDP Certification (continue)
- GDP Inspection



IMPLEMENTATION STRATEGY

GDP MAPPING AND CERTIFICATION

General Objective

•Maintain the quality, validity and safety of the drug along the chain of distribution in accordance with the requirements and the intended use.

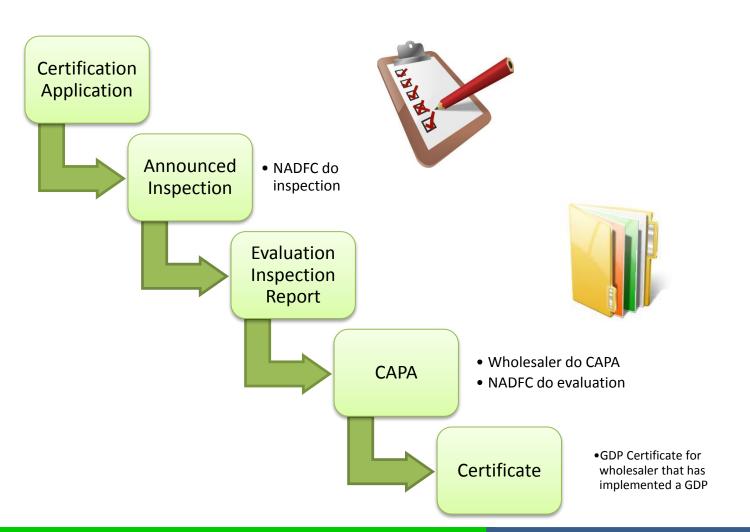
Special Objective

- Mapping
- -Getting a picture of the real conditions of the GDP application on wholesaler in Indonesia
- -Obtaining the data category wholesaler risk-based approach
- Certification
 - Ensure the consistency of GDP implementation
 - Ensure the consistency of medicines quality according to approved specifications.

918 wholesaler have been mapped from 2500 wholesaler (2010 – 2012)



GDP CERTIFICATE FOR WHOLESALER (Voluntary)







KEY MESSAGES

Improving PV
Performance in
Indonesia

- PV is one of strategic regulatory activity to ensure drug safety, with the goal is ensuring patient safety. NADFC will consistently promote PV Program in Indonesia.
- The roles and responsibilities shoud be shared amongst all key players, not only NADFC, but also PI/MAH, and HCPs
- Networking and cooperation with other stakeholders play important role in improving PV in Indonesia
- Safety measures based on Indonesia population need to be encouraged proactively. It can be done by Good PV Practices by all key players

Strengthening GDP Implementation in Indonesia

- Collaboration with academia to put GDP on the curiculum
- Dissemination
- Propose for mandatory GDP Certification





Terima kasih THANK YOU ARIGATO GOZAIMAS







