

ASEAN Harmonization

by

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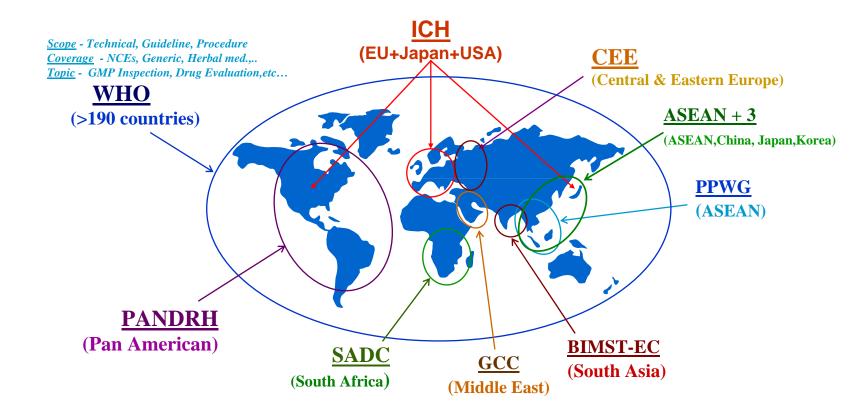
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Outline:

- International & Asian Pharmaceutical Harmonization
- ASEAN
- ACCSQ
- High Level Task Force (HLTF)
- The PPWG
- PPWG : Agreement / Outcomes
- PPWG: ASEAN Harmonized Products
- My Perspective on Global Drug Development & ASEAN

International & Asian: Pharmaceutical Harmonization Environment





ASEAN



Symbol of ASEAN



ASEAN

= Association of Southeast Asian Nations Member



- Brunei Darussalam
- Cambodia
- Indonesia
- Lao PDR
- Malaysia
- Myanmar
- Phillippines
- Singapore
- Thailand
- Vietnam

Total population ~ 520 million



ASEAN-Major Cooperation





Economic Cooperation in ASEAN



- WG1 on Mutual Recognition Arrangements (MRAs) & Standards -
 - WG2 on on Accreditation and Conformity Assessment -
 - Scientific/Industrial Metrology Sub-WG -

- -ACC (ASEAN Committee on Cosmetic)
- -PPWG (Pharmaceutical PWG)
- -EE PWG (Electrical and Electronic PWG)
- Pf PWG (Prepared Foodstuff PWG)
- -TMHD PPWG (Traditional Medicine & Health Supplement PWG)
- Medical Devices&Equipment PWG
- Automotive PWG
- Rubber-based PWG
- Wood-based PWG



Ultimate Goal of the ASEAN

ASEAN Summit

ASEAN Leader

ASEAN Economic Community (AEC)
"by the year 2020..... ASEAN will be
Single Market and Single Production Base

- Free flow of Goods
- Free flow of Services
- Free flow of Investment
- Free flow of Capitals
- Free flow of Skilled Labour

AEC → year 2015



ACCSQ







ASEAN Consultative Committee for Standards and Quality



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Mandate from ACCSQ

- Harmonizing "Standard & Requirement" posed by Regulation
- Working to Facilitate the "ASEAN Free Trade Area-AFTA"
- Establishing "Mutual Recognition Agreement-MRA"
- Comply to "HLTF-Recommendation"



High Level Task Force - HLTF

Establishment



- WG1 on Mutual Recognition Arrangements (MRAs) & Standards -
 - WG2 on on Accreditation and Conformity Assessment -
 - Scientific and Industrial Metrology Sub-WG-
- -Traditional Medicine & Health Supplement PWG
- Medical Devices&Equipment PWG
- etc.



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Objective

To accelerate ASEAN Harmonization towards ASEAN Economic Community

for 11 Priority Products

now → 12 priority products



Priority products vs. Coordinators

- Wood-based product & Automotives (Indonesia)
- Healthcare & e-ASEAN sectors (Singapore)
- Rubber-based products & Textiles and apparels (Malaysia)
- Agro-based products & Fisheries (ASEAN Secretariat)
- Electronics (Philippines)
- Air travel & Tourism (Thailand)
- Logistic (Vietnam)



HLTF – Major Recommendations on Healthcare (1)

Harmonization of Labeling Standards & Requirement

for Drug in ASEAN (31 Dec.06)

Develop Common Submission Dossiers Template

for Product Approval in ASEAN (31 Dec.05)



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<u>HLTF – Major Recommendations on Healthcare (2)</u>

Explore the Feasibility of Implementing a Flexible Twining system

to cooperate in enhancing capacity and resource development (on going)

Formalization of a Post-marketing Alert System

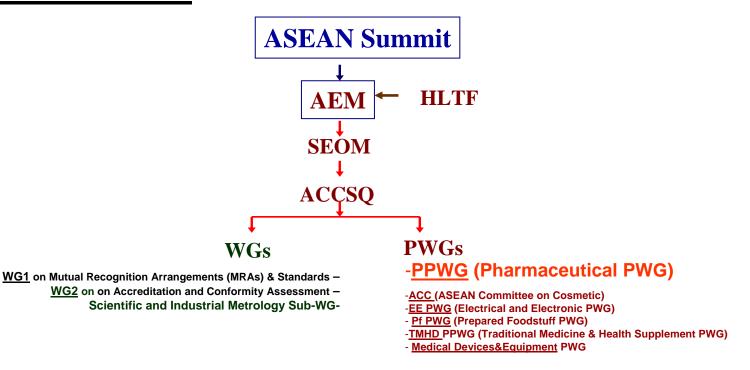
for Defective or Unsafe Medicine and Drugs (31 Dec.05)



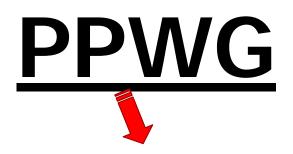
The PPWG



Establishment







ACCSQ/PPWG

ASEAN Consultative Committee
for Standards and Quality /
Pharmaceutical Product Working Group



1. Beginning and Objective of ASEAN Harmonization

1.1 <u>Establishment</u>:

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• 1992 AEM ---> ACCSQ ---> Working Groups (WGs) ---> Product Working Groups (PWGs)
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- 1998 ACCSQ---> initiated the PPWG
- 1999 ACCSQ--->endorsed the PPWG

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PPWG --->finalized the 'TOR'
--->started to function !!!
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• 2003 & 2005 ACCSQ--->endorsed "2nd & 3rd Term of the PPWG" with same Chair & Co-Chair country



1.2 TOR (Term of Reference):

Article 1: Establishment

Article 2: Objective

Article 3: Scope

Article 4: Structure

Article 5: The Meeting and Correspondance

Article 6: Term



Article 2: Objective

"To develop harmonization scheme of Pharmaceuticals regulations of the ASEAN member countries

to complement and facilitate the objective of AFTA, particularly, the elimination of Technical Barriers to Trade posed by the regulations,

without compromising on drug quality, efficacy, and safety"



1.3 Principle /Scope / Output of the PPWG

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Principle --> to promote "Registration", "Trade", & "Co-operation"
--> to eliminate "TBT"
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Scope --> to harmonize "ASEAN Pharmaceutical Registration"

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Output -->ASEAN Harmonized Product
(ACTR, ACTD, Glossary of Terms, GLs)
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1.4 Aim & Target of the ASEAN Harmonization

For....Generic, Modified, and NCEs & Bio.product

'ASEAN Harmonized Product' by 2002!



Full Implementation by Dec. 2008!



PPWG Agreement / Outcomes



Agreement :- topics

- 1. Harmonized Key Areas \rightarrow Agreed!
- 2. Format for ACTR & ACTD → Agreed!
- 3. Content of ACTR / ACTD / Glossary of Term → Agreed!
- 4. Guidelines to ACTR \longrightarrow Agreed!
 - 5. Implementation -Trial period
 - 6. Full Implementation



Agreement:-

Guideline to ACTR-Quality

- → adopted the WHO's GLs
- → adopted the existing International Pharmacopoeias
- → adopted ICH-Quality Guideline (12 GLs)
- → drafted 4 ASEAN Quality GLs



Agreement:

ASEAN Quality gls

- (1) Analytical Validation guideline
- (2) BA/BE Studies guideline
- (3) Process Validation guideline
- (4) Stability Study guideline



<u>Agreement</u>:-



Guideline to ACTR-Safety

→ adopted ICH-Safety guideline (15 GLs)



Agreement:-



Guideline to ACTR-Efficacy

- **→ adopted 11 GLs** (E1, E2A, E2C, E3, E4, E6-E11)
- → accepted as Ref.gl. 4 gls (E2C(A), E2D, E2E, E12A)
- → not adopted 2 gls (E2B(M), E5)



Agreement :- topics

- 1. Harmonized Key Areas \rightarrow Agreed!
- 2. Format for ACTR & ACTD → Agreed!
- 3. Content of ACTR / ACTD / Glossary of Term → Agreed!
- 4. Guidelines to ACTR → Agreed!
- 5. Implementation -Trial period Sep. 2003 onwards
- 6. Full Implementation



Agreement :- topics

- 1. Harmonized Key Areas \rightarrow Agreed!
- 2. Format for ACTR &ACTD → Agreed!
- 3. Content of ACTR / ACTD / Glossary of Term—Agreed!
- 4. Guidelines to ACTR \rightarrow Agreed!



PPWG ASEAN Harmonized Products

ACTR / ACTD / Glossary of Term / GLs



Glossary of Term / Others :-

<u>ACTR</u>

A set of Written Materials
intended to guide applicants
to prepare application dossiers
in a way that is consistent with the expectations
of
all ASEAN Drug Regulatory Authorities

ACTR Format

			Requirement						
No.	Parameter	Components	NCE	Bio.	MaV			MiV	GP
					Rt.	S/P	Ind.		

Note: NCE = New Chemical Entity

Bio. = Biotechnological product

MaV = Major Variation (variation affecting 1 or MORE of following aspect: Rt., S/P, Ind., or other Non-MiV)

Rt. = Route of Adminstrative **S/P** = Strength & Posology

Ind. = Indication

MiV = Minor Variation (variation not affecting 1 or MORE of following aspect: Rt., S/P, Ind., API)

GP = Generic Product



Content of ACTR

ACTR - Quality

Drug Substance

- General info.
- Manufacture
- Characterisation
- Control of Drug Substance
- Ref. Std. or Materials
- Container Closure System
- Stability

Drug Product

- Description and Composition
- Pharmaceutical Development
- Manufacture
- Control of Excipients
- Control of Finished Product
- Ref. Std. or Material
- Container Closure System
- Stability
- Product Interchangeability/Equivalence evidence



Content of ACTR

ACTR - Safety

Pharmacology

- Primary P'dynamics
- Secondary P'dynamics
- Safety P'cology
- P'dynamic Drug Interaction

Pharmacokinetics

- Absorption
- Distribution
- Metabolism (inter-species comparison)
- Excretion
- P'cokinetic Drug Interaction(Non-clinical)
- Other P'cokinetic Studies

Toxicology

- Single Dose Toxicity
- Repeat Dose Toxicity
- Genotoxicity
- Carcinogenicity
- Reproductive & Development Toxicity

Local Tolerance

Other Toxicity Studies

List of Key Literature Ref.



Content of ACTR

ACTR - Clinical Data

BA & BE Studies

- BA Studies
- Comparative BA or BE Studies

Studies Pertinent to P'cokinetics

Using Human Biomaterials

Human P'cokinetic Studies

Human P'codynamic Studies

Efficacy and Safety

Post Marketing Data (if available)

References



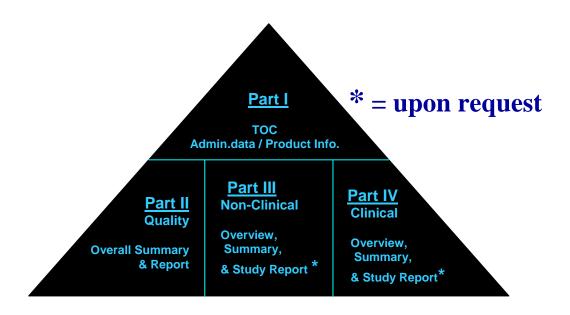
Glossary of Term / Others :-

ACTD

The part of
marketing authorization application dossier
that is common
to
all ASEAN member countries



ACTD Organization





Content of ACTD

Part 1: ToC Admin.Data&Product Info.

Section A: Introduction

Section B: Overall ACTD-ToC

Section C: Doc. Required for Registration

Part 2 : Quality Document

Section A: ToC

Section B: Quality Overall Summary

Section C: Body of Data

Part 3: Non-clinical / Safety Document

Section A: ToC

Section B: Non-clinical Overview

Section C: Non-clinical Written & Tabulated Summaries

Section D: Non-clinical Study Reports*

Note:

ToC = Table of Content * = Upon REOUEST

Part 4: Clinical / Efficacy Document

Section A: ToC

Section B: Clinical Overview Section C: Clinical Summaries

Section D: Tabular Listing of All Clinical Studies

Section E: Clinical Study Reports*

Section F: List of Key Literature References



Content of ACTD

Part I: Administrative Data & Product Information

- Application Form
- Letter of Authorisation
- Certification
- Labeling
- Product Information

ASEAN Harmonization

- Language

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My Perspective on Global Drug Development & ASEAN



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My Perspective on:

Global Drug Development & ASEAN

- Standards & Requirement to be a Player
- Advantage to NDA Approval & Access to Medicine of Patients
- Affordable ?
- Individual vs. Regional?
- Impact ?
 - → Pharmaceutical Registration
 - → ASEAN Framework Agreement on Product Integration
 - → ASEAN Economic Community (AEC)



Thank You





Myself:

Name: Yuppadee Javroongrit, Ph.D.

Education:

B.S. in Pharmacy-Thailand (Major-Cosmetic)

M.S. in Industrial Pharmacy- USA

(Evaluation of Calcium Polycarbophil As a Disintegration Agent in Direct Compression Tableting)

Ph.D. in Industrial Pharmacy-USA

(Modification of Residence Time-Concentration Profile of IgA at Nasal Mucosal Surface)

Work: Inspector-Inspection Div., ThaiFDA

Pharmacist- Drug Control Div., ThaiFDA

Head of International Affairs and IND Section-Drug Control Div., ThaiFDA

Assistant Director- Drug Control Div., ThaiFDA

Designation to ASEAN: Co-Chair of PPWG



Abbreviation:

ACCSQ = ASEAN Consultative Committee for Standards and Quality

ACTD = ASEAN Common Technical Dossier

ACTR = ASEAN Common Technical Requirement

DRA = Drug Regulatory Authority

GLs = Guidelines

IWG = Implementation Working Group

MRAs = Mutual Recognition Arrangements

PPWG = Pharmaceutical Product Working Group

NTB = Non Tariff Barrier

TBT = Technical Barrier to Trade

ASEAN Harmonized Product = *ACTR, ACTD, Glossary of Term, Technical guidelines*



Abbreviation on ASEAN

ACCSQ = **ASEAN** Consultative Committee for Standards and Quality

AEC = ASEAN Economic Community
AEM = ASEAN Economic Ministers

AFAS = **ASEAN** Framework Agreement on Services

AFTA = ASEAN Free Trade Area
AIA = ASEAN Investment Area

AICO = ASEAN Industrial Cooperation Scheme

HLTF = High Level Task Force

PPWG = Pharmaceutical Product Working Group

MRA = Mutual Recognition Arrangement SEOM = Senior Economic Officials Meeting