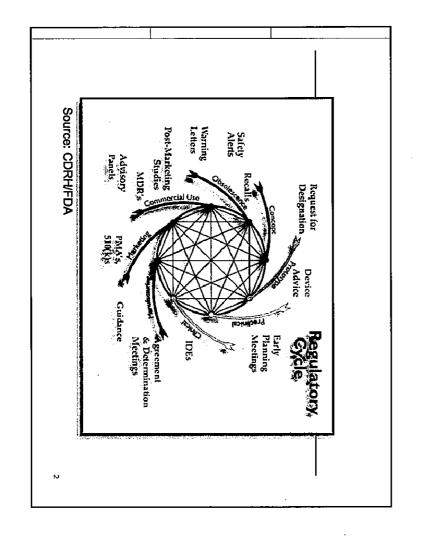
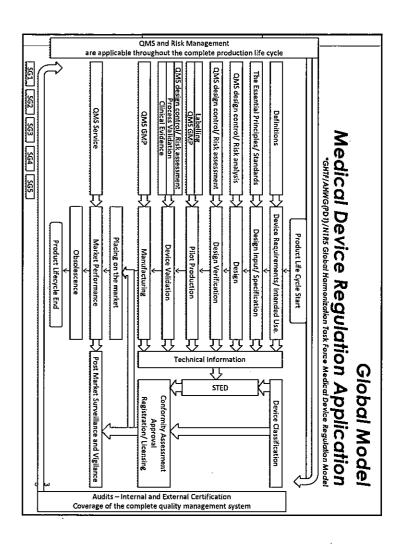
Review successes and challenges of past and current initiatives at harmonization of regulatory approval for IVDs

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Feb 6, 2012





Regulatory Element	Status
Definition and Classification	SG1-N45:2008 (Final Document)
Conformity Assessment	SG1-N46:2008 (Final Document)
Technical Documentation (STED)	SG1-N63:2011 (Final Document)
Clinical Evidence for IVD Medical Devices - Key Definitions and Concepts	SG5(PD)/N6R3 (Proposed Document) Public Consultation until Mar 21, 2012
Clinical Evidence for IVD Medical Devices - Scientific Validity Determination and Performance Evaluation	SG5(PD)/NTR4 (Proposed Document) Public Consultation until Mar 21, 2012
Clinical Performance Studies for In Vitro Diagnostic	SG5(PD)/N8R3 (Proposed Document) Public Consultation until Jun 2, 2012

Definition

provide information for diagnostic, monitoring or compatibility purposes. This includes reagents, calibrators, control materials, specimen receptacles, software, and related instruments or IVD medical device: a device, whether used alone or in combination, intended by the manufacturer for the in-vitro examination of specimens derived from the human body solely or principally to apparatus or other articles.

Note: In some jurisdictions, some IVD medical devices may be covered by separate regulations.

Reference: SG1/N045:2008 Principles of In Vitro
Diagnostic (IVD) Medical Devices Classification

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Classification

Risk-based Classification and 7 classification rules

	C	ω.	Þ	CLASS	
	High Individua Moderate Pub	Moderate Individual Low Public	Low Individual Ris		The based Classification and Federal additional area
	High Individual Risk and/or Moderate Public Health Risk	Moderate Individual Risk and/or Low Public Health Risk	Low Individual Risk and Low Public Health Risk	RISK LEVEL	
HIV blood donor screening, HIV blood	Blood glucose self testing, HLA typing, PSA screening, Rubella	Vitamin B12, Pregnancy self testing, Anti-Nuclear Antibody, Urine test strips	Clinical Chemistry Analyzer, prepared selective culture media	DEVICE EXAMPLES	Sation I aloo

Reference: SG1/N045:2008 Principles of In Vitro
Diagnostic (IVD) Medical Devices Classification

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Principles of IVD Classification

- Intended use and indications for use as specified by the manufacturer
- Technical/scientific/medical expertise of the intended user
- The importance of the information to the diagnosis, taking into consideration the natural history of the disease or disorder including presenting signs and symptoms which may guide a physician
- health Impact of the result (true or false) to the individual and/or to public

Reference: SG1/N045:2008 Principles of In Vitro
Diagnostic (IVD) Medical Devices Classification

Conformity Assessment

	Elements of Conformity Assessment	Proposed Practice
-	Quality Management System	A QMS based on risk management
	Post-Market Surveillance System	Integrated as part of the QMS
	Declaration of Conformity	Utilizing the Essential Principles and Recognized Standards
	Registration of Manufacturers and Their Devices	Different practice in each country
	Technical Documentation	IVD STED

Reference: SG1/N046: 2008 Principles of Conformity Assessment for In Vitro Diagnostic (IVD) Medical Devices

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Conformity Assessment for Class A Devices

	Registration of manufacturers and their devices	Declaration of Conformity	Technical Documentation	Post Market Surveillance	Quality Management System (QMS)	Conformity Assessment Element
	Perform according to regulatory requirements	Prepare, sign and maintain	Upon request prepare STED.	Establish and maintain an adverse event reporting procedure according to GHTF SG2 guidance.	Establish and maintain a full QMS or a QMS without design and development controls	Manufacturer Responsibility
	Maintain and verify as appropriate.	On file with the manufacturer; available upon request	Premarket submission of STED not required. May be requested to investigate specific safety or regulatory concerns	May audit post-market to investigate specific safety or regulatory concerns.	Premarket regulatory audit not required.	RA / CAB Responsibility
9	5.5	5,4	5,3	5.2	5.1	Section

Conformity Assessment for Class B Devices

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ភូ	Maintain and verify as appropriate.	Perform according to regulatory requirements	Registration of manufacturers and their devices
5.4	Review and verify compliance with requirements.	Prepare, sign and submit	Declaration of Conformity
5. 3	Premarket submission normally not required but if requested, receive and conduct a review of the STED to determine conformity to Essential Principles.	Upon request prepare STED.	Technical Documentation
5.2	Be satisfied that a current and appropriate adverse event reporting procedure is in place as part of the QMS.	Establish and maintain an adverse event reporting procedure according to GHTF SG2 guidance.	Post Market Surveillance
5.1	Be satisfied that a current and appropriate QMS is in place or otherwise conduct a QMS audit prior to marketing authorization.	Establish and maintain a full QMS or a QMS without design and development controls	Quality Management System (QMS)
Section	RA / CAB Responsibility	Manufacturer Responsibility	Conformity Assessment Element

Conformity Assessment for Class C Devices

			1			
	Registration of manufacturers and their devices	Declaration of Conformity	Technical Documentation	Post Market Surveillance	Quality Management System (QMS)	Conformity Assessment Element
	Perform according to regulatory requirements.	Prepare, sign and submit.	Prepare and submit STED for review.	Establish and maintain an adverse event reporting procedure according to GHTF SG2 guidance.	Establish and maintain a full QMS.	Manufacturer Responsibility
	Maintain and verify as appropriate.	Review and verify compliance with requirements.	Receive and conduct a premarket review of the STED to determine conformity to Essential Principles.	Be satisfied that a current and appropriate adverse event reporting procedure is in place as part of the QMS.	Be satisfied that a current and appropriate QMS is in place or otherwise conduct a QMS audit prior to marketing authorization.	RA / CAB Responsibility
ı	5.5	5.4	5.3	5.2	5.1	Section

Conformity Assessment for Class D Devices

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5.5	Maintain and verify as appropriate.	Perform according to regulatory requirements	Registration of manufacturers and their devices
5.4	Review and verify compliance with requirements.	Prepare, sign and submit.	Declaration of Conformity
5.3	Receive and conduct a premarket review of the STED to determine conformity to Essential Principles.	Prepare and submit STED for review. A STED for this class should contain more extended information such as full performance evaluation reports	Technical Documentation
5.2	Be satisfied that a current and appropriate adverse event reporting procedure is in place as part of the QMS.	Establish and maintain an adverse event reporting procedure according to GHTF SG2 guidance.	Post Market Surveillance
5.1	Be satisfied that a current and appropriate QMS is in place or otherwise conduct a QMS audit prior to marketing authorization.	Establish and maintain a full QMS	Quality Management System (QMS)
Section	RA / CAB Responsibility	Manufacturer Responsibility	Conformity Assessment Element

IVD Classification in Various Countries

Ny. HIV. ABO blood HIV. HBV, HCV. HIV. ABO blood Mcrebiology. Infa. Solf-feat of blood she set. Class C Class C Class C Class C Class II Class II Class C C C C C C C C C C C C C C C C C C	USA	EU	Australia	Canada	Singapore	Japan	Chinese Taipei
PSA. PSA. ILiat B Liat B Lia	Class III/BLA IV., HBV, HCV, ITLV, ABO bbod yping	List A HIV, HBV, HCV, HDV, HTLV, ABO blood typing, mesus (C, c, D, E, e) enti-Keil, etc.	Class IV HIV, HCV, HBV, HIV, HCV, HBV, HILV test; and any confirmabry assays used to screen blood and tissue in selected populations, include CIAIV, dengue, melaria, etc.	Class D HIV, HBV, HCV, HTLV, ABO blood typing	Class D HIV, HBV, HCV, HTLV, ABO blood typing	Class III HIV, HCV, Turnor markers, Microbiology	Class III HIV, HBV, HCV, HTLV, ABO bbod lyping
Chers Codes I Class B Chess Ches	Cless II Syphilis, PSA Prostate specific Intigen), etc.	List 8 PSA rubella, blood sugar self-test, etc.	Class III syphilis (RPR), Typhoid, Q Fever, Chlamydia trachomatis, etc.	Class C Self-test of blood glucose	Class C HSV, HLA typing	Class II Blood cell morphology, Autoimmune	Class II Syphilis, tumor marker
Class I Chas A Class A Control brongical c		Others	Class II sodium, ALT, LDH, fertitin, or folate	Class B Feritin test	Class B Pregnency test urine test strip		
C MANUAL TO COME	Class I nicrobiological culture media , General purpose segent		Class I general leboratory equipment, reagons, specimen receptacles and microbiological culture media	Class A microbiological culture media	Class A Culture medium	Class I Liver function (GOT, GPT), LDH, Estraciol	Class I General purpos reagent

IVD Classification and Conformity Assessment

Survey on IVD Medical Devices Regulations (July, 2010)

Feedback was collected from 5 out of 20 member economies:

Country	PRC	Chinese Taipei	Hong Kong SAR	India	ASA	Singapore
Definition	Yes	Yes	Yes	Yes*	Yes	Yes
Classification	Yes	Yes	Yes	Yes*	Yes	Yes
QMS	ISO13485:	ISO13485:	ISO13485:	ISO13485:	ISO13485:	ISO13485:
Risk Management	Yes	Yes	Yes	Yes*	Yes	Yes
Performance Evaluation	Yes	Yes	Yes	Yes*	Yes	Yes
Use of Standards	Yes	Yes	Yes	Yes*	Yes	Yes
STED/CSDT	A/N	A/N	N/A	A/N	A/N	LOSD
Clinical Evidence	Yes	Yes	Yes	Yes*	Yes	Yes
PMS and vigilance	Yes	Yes	Yes	Yes*	Yes	Yes

^{*} Prepare to adopt related practices

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Challenges

- The biggest challenge stands that most of the member economies do not have IVD regulations or are developing related regulations
- To the manufacturer, current regulatory challenges are to meet the differences on IVD classification and the submission requirements
- Regulatory frameworks have been slow to respond to advances in science and technology (Laboratory Development Tests, software algorithms and genetic testing etc.)
- Counterfeit devices elevate health concerns

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Future Initiatives

- Implementation of GHTF regulatory model
- Classification and related conformity assessment requirements
- Safety and performance evaluation based on state-of-the-art technology and regulatory consensus
- Best practices for clinical evaluation and clinical investigation for IVD medical devices
- Capacity building and training for underdeveloped or developing countries
- Working towards a unified medical device nomenclature system

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Future Initiatives

- To promote Good Review Practice (GRevP) of medical products, including IVD medical devices
- Good review practice (GRevP) for medical devices is the best practice for review process in assessing the registration of medical device and pharmaceuticals by regulatory authority.
- In 2010, Chinese Taipei held APEC GRevP Workshops to address the fundamental elements of a well-designed regulatory review system.
- To accelerate mutual recognition through enhancing mutual trust between member economies.

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Future Initiatives

- Collaboration with WHO to launch prequalification program for IVD medical devices
- QMS audit/review
- Technical review
- Sampling and inspection program

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Thank You for Your Attention

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AAIVD WORK PLAN

		groups	
		harmonization	
		American	
	in Delhi	African and Latin	
Rosanna + WG01a + AAVID	3-7 Nov 2012	Invite heads of	AHWP Annual Meeting
			workshop
pilot			and one-day training
AAVID and Expert Panel for	Sept in Taiwan		AAIVD Project kick off
pilot	2012		based on best practices
AAVID and Expert Panel for	May - Sept		Develop Training material
			pilot economies
Secretariat			with interested parties and
Rosanna + WG01a + AAIVD	May		AAIVD Planning Meeting
+ AAIVD WG			Pilot Member Economies
Rosanna + WG01a	Early May		Identify and consensus on
			expressing interest
+ AAIVD WG			member economies
Rosanna + WG01a	April		Special follow up with
		AHWP members	expert panel participation
WG01a Chair (Ms Liu)	April	Circulate to	Invitation for pilot and
			for piloting model
			harmonization and plans
Rosanna + AAIVD WG	April		Develop a model for
			Paper and review
AAIVD	mid March		Circulate AAIVD Position
respectively			
15 March and 24 May		consultation	AHWP Member Economies
to GHTF's call for comments	and 20 May	public	document feedback from
WG01a (Ms Liu) to respond	14 March	3 documents for	Collect GHTF guidance
WG01a (Ms Liu)	Feb - March		Identify Best Practices
		members	statement/Paper
Rosanna	Early March	To AAIVD	Positioning
from team			Meeting in Hong Kong
Albert coordinates inputs	20 Feb 2012		Meeting Report for Feb 6-7
Officer in Charge	Timeline	Remark	Description of Task