

What We Do





Regulatory
Compliance,
Strategy &
Submissions



Authorised
Representation,
Sponsorship &
Distribution
Management



Reimbursement – Strategy, Advice and Major Submissions



Post Market
Compliance &
Surveillance



Clinical Trial Management



Health Economics –
Economic Models
and
Market Analysis



Quality
Management
Systems



Prescription, Biotech, Consumer & Generic Pharmaceuticals

Your Presenters





Luis Jimenez

- •VP Business Development LA Office
- •Ex President & COO for Class III Implantable medical device company doing regenerative medicine
- Chemical Engineering/MBA, experienced with quality systems, technology transfer and production validation
- •Board positions OCRA and several start-up companies



Arthur Brandwood

- Director and Principal Consultant
- •Ex Director of Device Evaluation, TGA
- Biomaterials Engineer Orthopedic and Cardiovascular
- •Biocompatibility Specialist (ISO 10993 participant 27 years)
- •Senior Adviser AHWP
- Professor University of Sydney

The Brief...



Deep	Dive	on	TGA	Char	nges
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Some Specific Questions: Re-classifications - TGA approaches and consequences

Impact on products already approved

Impact of MDR on Asia Pac (ex China)

Continuing approach for CER

Current consultations – up-classifications of spinal devices, custom devices

Timelines and fees on expanded recognitions of international regulators

TGA transitional period and MDD applications still in progress

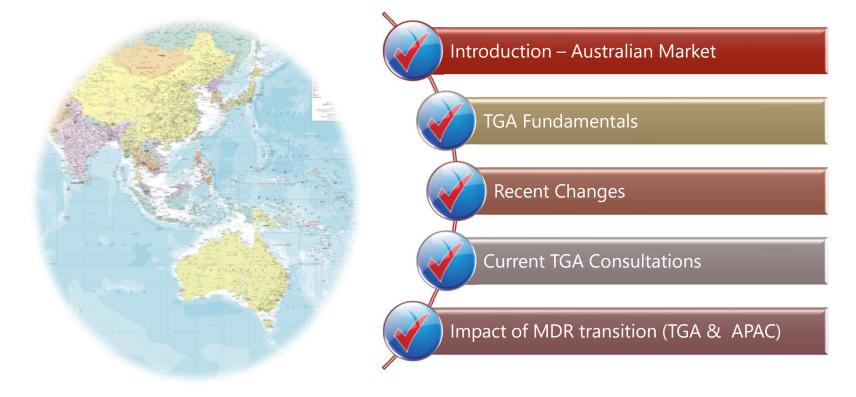
Device lifetime and safe disposal – ASEAN approach

Japan and Korea – approach to Biocompatibility

ASEAN Update: MDR Impact and pending UDI Requirement Expectations

Agenda









Australian Medtech Market

Sophisticated healthcare system with hybrid public/private delivery



Australia General Statistics

	2018
Population	25 million
GDP:	US\$ 1.2 trillion
GDP Growth Rate (2017):	2.75% (26 years)
Unemployment:	5.5%
Inflation rate:	2%
Exchange Rate	\$US.75=A\$1





Australian Market Statistics

- The Australian medical technology industry (2018):
- \sim \$11.8B in 2012-13 (including IVDs and dental)
 - 80% is imported
 - 54K entries on the ARTG
 - For 2.9K Companies only 800 Australian
- 70% Federal and State government spending accounts.
- 30% individuals and private health insurance



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Clinical Trials In Australia



Stable political environment



Strong legal, financial and business services



Well-developed infrastructure (medical research facilities and Trial support services)



World-class science, capacity for international partnerships

- ✓ Accepted in Europe for CE Mark Applications
- ✓ Accepted in US as Early Feasibility Data
- ✓ International recognition for quality research (substantiation studies)





- Excellent Tax Offset for R&D
 - 43.5% tax offset (<A\$20M turnover) or indexed ratio (>A\$20M turnover)
- Eligible Entities
 - Australian companies
 - Foreign companies in countries with double tax agreement which have permanent establishment in Australia

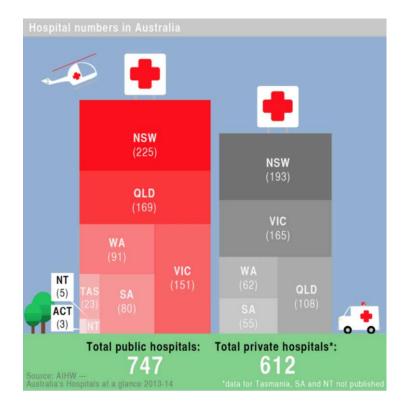
OECD (COUNTRIES
Country	'Cash Back' Benefit
Australia	43.5%
Ireland	37.5%
Canada	35%
France	30%
New Zealand	28%
Austria	25%
United Kingdom	25%
Norway	20%
United States	0%*

Source: Swanson Reed (www.swansonreed.com.au)

Australian Hospital Systems



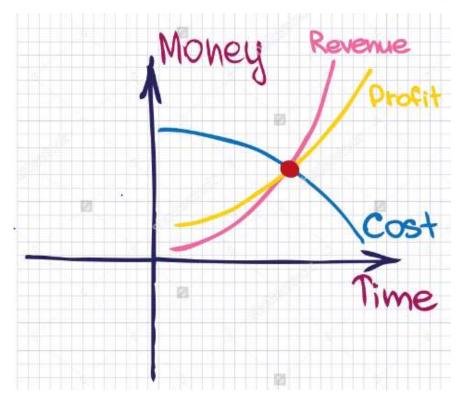
- Medical Benefits Schedule (MBS) list of medical procedures subsidised by Medicare
- A procedure must be included on MBS to be covered by Private Health Insurance (PHI)
- Implantable devices –receive a payment over and above any other reimbursement – PROSTHESES LIST



Australian Value-Based Reimbursement



- MSAC critically evaluates both:
 - Clinical outcomes
 - Detailed cost analysis
- Only procedures that represent good value will be reimbursed
- Value based reimbursement requires a detailed economic model
 - Incentivizes adoption of novel cost saving and clinically superior procedures







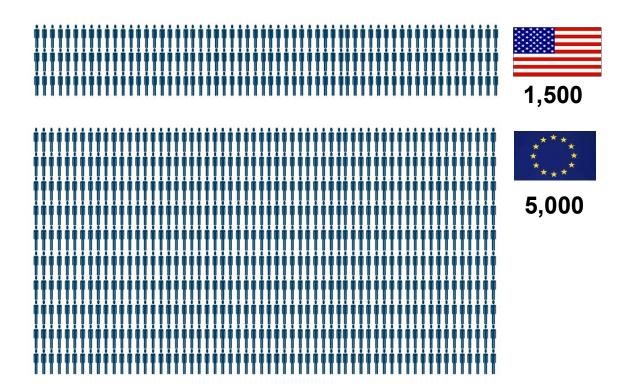
TGA Fundamentals

Regulations closely modeled on the European Directives

Agency Resources

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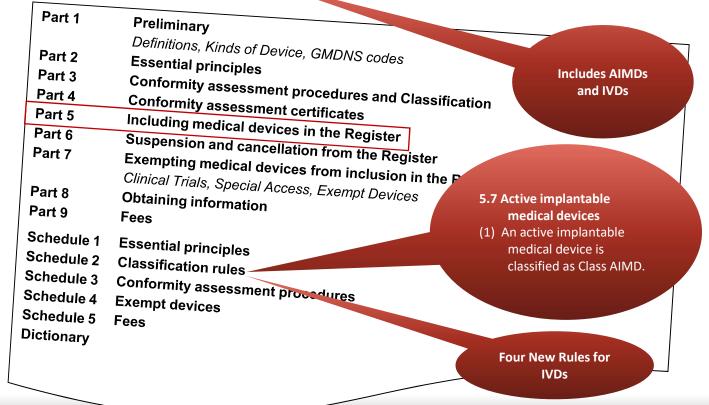








Therapeutic Goods (Medical Devices) Regulations 2002

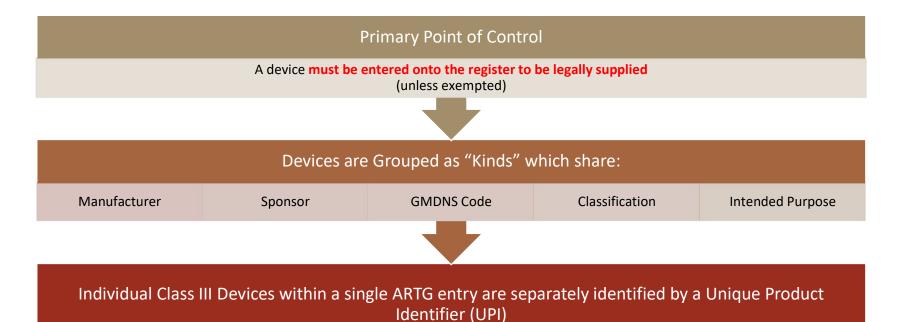


EU reference 93/42/EEC (MDD) and/or 90/385/EEC (AIMDD)	Australian reference Therapeutic Goods (Medical Devices) Regulations 2002 – Schedule 3
Annex II	Part 1 – Full quality assurance procedures
Annex II.4	Part 1, Clause 1.6 – Examination of design of Class AIMD or Class III
Annex III	Part 2 – Type examination procedures
Annex IV	Part 3 – Verification procedures
Annex V	Part 4 – Production quality assurance procedures
Annex VI (MDD only)	Part 5 – Product quality assurance procedures
Annex VII (MDD only)	Part 6 – Declaration of conformity procedures
Annex VIII & Article 12 (MDD only)	Part 7 – Procedures for medical devices used for a special purpose



The Australian Register of Therapeutic Goods (ARTG)

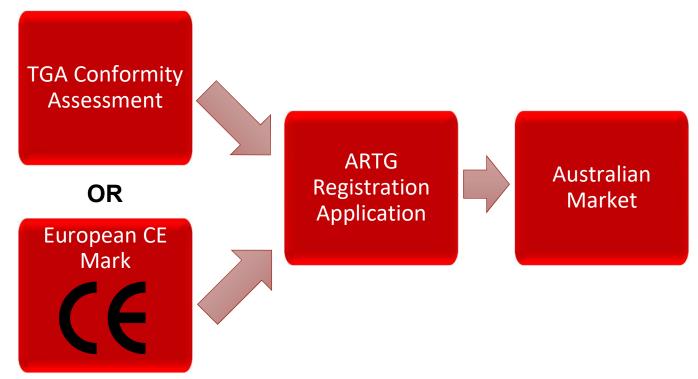




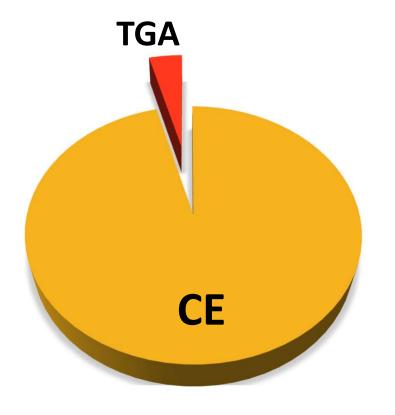


Paths to Market - Australia









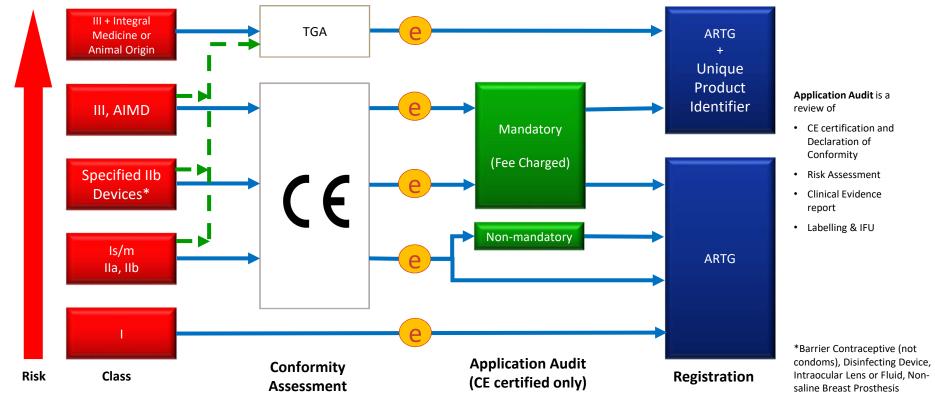
More than

90%

of Devices Subject to Australian TGA review are registered based on CE certification

TGA Processes (pre August 2018)









Recent Changes

Wider Acceptance of International Data





Comparable overseas regulators – medical devices

Criteria and implementation

Version 1.0, May 2017



TGA Consultation on Comparable Overseas Regulators

May 2017





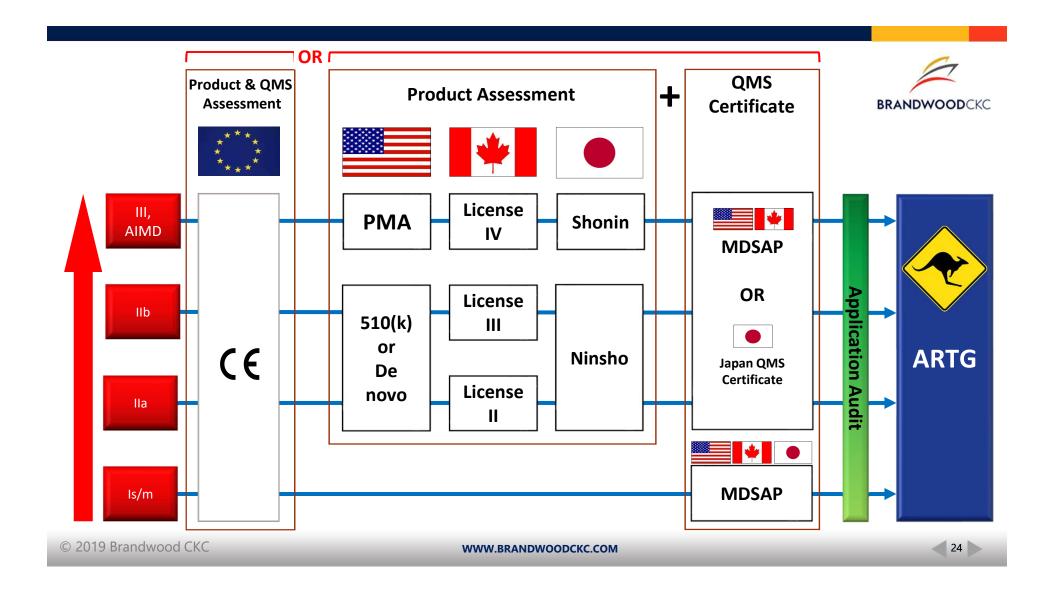
Use of market authorisation evidence from comparable overseas regulators / assessment bodies for medical devices

For abridgement of TGA conformity assessments and as information required for applications for ARTG inclusion



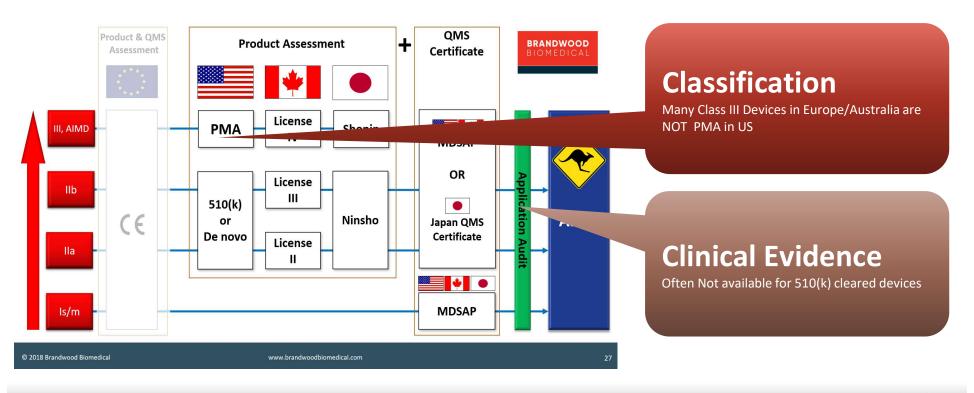
TGA Policy on Use of Overseas Evidence

August 2018



Challenges to Acceptance of International Evidence







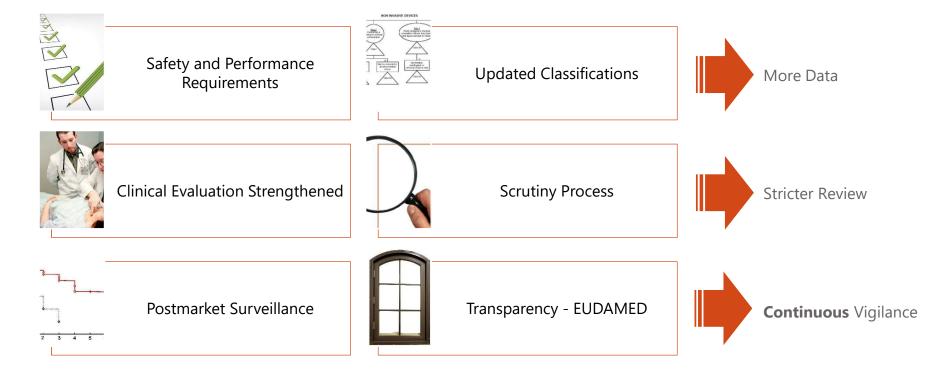


Impact of MDR

Regulations closely modeled on the European Directives

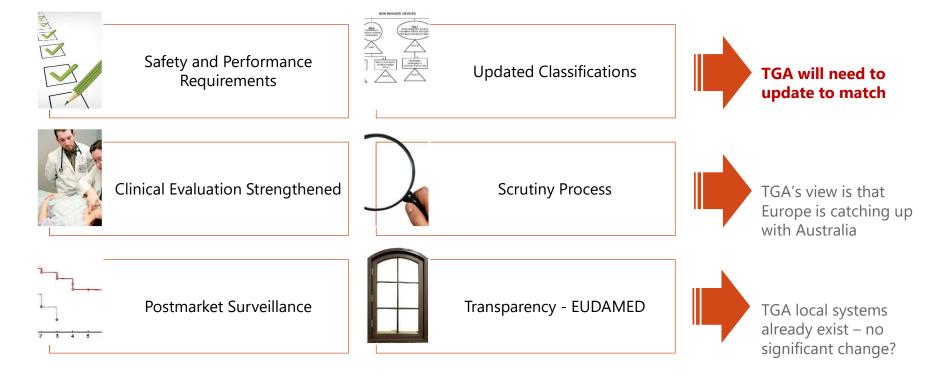
What's Changed in MDR





Impacts on TGA?





Clinical Evidence



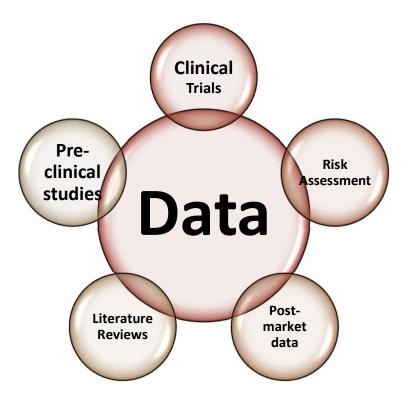


Clinical evidence guidelines Medical devices

Version 1.0, February 2017











Clinical evidence guidelines

Medical devices

Version 1.0, February 2017



Legislative basis

Clinical evidence

- Key definitions and concepts
- Clinical data

Clinical evaluation report

- Format
- Supporting documents
- Common errors in the clinical evaluation report

Demonstrating substantial equivalence

- Clinical evidence requirements
- Predicate and similar marketed devices
- Substantial equivalence

https://www.tga.gov.au/sites/default/files/clinical-evidence-guidelines-medical-devices.pdf

Common Errors



- Absence of the required components of the CER and/or referenced attachments and appendices missing
- Intended purpose(s), indication and claims inconsistent between documents i.e. application, IFU and CER list different intended purpose(s)
- Intended purpose(s), indication and claims not supported by clinical data
- Lack of information about the regulatory history of the device in other countries, for example recalls, withdrawals, removals from market, suspensions and cancellations and the reasons for these in any jurisdiction
- Information on predicate or previous related devices not included and/or substantial equivalence not demonstrated (if relevant)
- Insufficient or incomplete clinical investigation(s) data, literature and post-market data with the device or predicate/similar marketed device if relevant.
- In submissions where a literature review is provided:
 - · Little or no synthesis and critical evaluation of the clinical investigation data, results of the literature review and post-market data
 - Inadequate critique and summary of the totality of evidence provided for the device
- · No post-market data including adverse events, vigilance reports, complaints, failures in cases where this information is available
- More than one CER
- Author of CER not included, totality of clinical data not evaluated by competent clinical expert, CER not endorsed/signed by clinical expert
- CER not dated or out-dated
- Inappropriate selection of clinical experts.



TGA Responses to MDR

Re-classifications. May run AHEAD of Europe on some changes

No guarantee of complete alignment

Active engagement with IMDRF on some areas (Software, Custom devices)

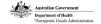
Context of TGA Action Plan

Capacity Building across pre and postmarket. Raise consumer awareness and involvement

Real World Capacity of TGA



Public mistrust and demands for greater scrutiny



Comparable overseas regulators medical devices

Criteria and implementation

Version 1.0, May 2017



Recognising International Decisions



Designation of Australian conformity assessment bodies for medical devices

Australian 3rd

Party Assessors

Implementation

Accelerated devices – Pr

Physrineat of Hotalit Therapeutic Goods Administration

Accelerated assessment of medical devices – Priority Review pathway

Version 1.0, November 2016



Australian Government

Department of Health
Theraportic Goods Administration

Alignment with European medical device regulatory framework Up-classification of surgical mesh Patient implant cards

Version 1.0, July 2017



Priority Review

Pathway

Classification Changes



IMDRF International Medical Device Regulators Forum



International Medical Device Regulators Forum

Title: Software as a Medical Device (SaMD): Clinical Evaluation

Authoring Group: Software as a Medical Device Working Group

Date: 5 August 2016

Software as a Medical Device

TGA's 3 Action Plan Strategies



1. Premarket

- Expand assessment of 3D printed devices, software.
- Cybersecurity
- Review of low risk device self declaration
- New specialist review teams
- Possible increase in Clinical Evidence for certain high risk devices: spinal implants, devices that make diagnoses, diabetes management devices, medical devices used for IVF, and companion diagnostics

2. Postmarket

- Mandatory reporting from hospitals and clinics?
- Enhanced recall and de-registration powers
- Patient implant cards, UDI

3. Patient Information

- Greater publication of process
- Expert Working Groups with Consumer co-chairing

TGA's Plan is to consult and implement by end of 2019



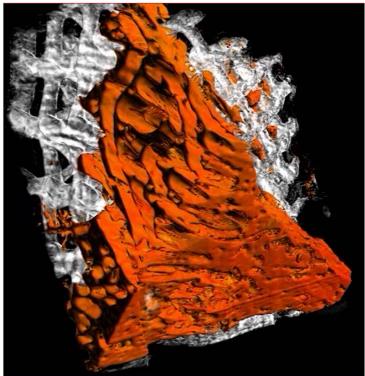
Low Risk Devices?

"Custom made devices are not required to undergo premarket assessment by the TGA or to be included on the ARTG before supply. This is because of the relatively low risk associated with the use of custom made devices such as prescription glasses and dental crowns, as well as the impracticalities of the TGA assessing such devices."

https://www.tga.gov.au/custom-made-medical-devices







Spinal Implants: a recent TGA – Stakeholder Workshop



Detailed Presentation from Surgeons

- Spinal fixation cases, implants were not the issue in most failures - it was surgeon technique.
- But for dynamic constructs there was a clear higher risk.
- Fusion implants (screws, plates, wedges, cages, hooks, rods, couplings and clamps) are only performing a temporary function while the bone fuses and should stay IIb.
- Disc replacements, expandable cages and other dynamic fixation implants, should be Class III.

Outcome?

- TGA and Consumer Health Forum both changed view after discussion to shift towards the EU Notified Body proposal
- TGA likely to announce a final position more moderate than previously





ASEAN – let's all dance together?

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Progress on AMDD Implementation across ASEAN

Member	Status
Indonesia	 Ratification of AMDD is targeted for end of 2019 (already passed to Parliament) Current Medical device regulation is already in line with AMDD
Malaysia	 Mandatory period for Product Registration has started on 1 July, 2016 Final draft of the 2nd part of regulations has been finalized on 6 March,2017. Target for completion of ratification process by 2019
Philippines	 Submission for ratification in 2018 Implementation of the guideline in 2019
Singapore	 Instrument of ratification was submitted on 10 Nov 2015 Has fully implemented AMDD
Thailand	 AMDD has already been approved by parliament Target for ratification of AMDD is expected by 2019
Vietnam	 Has ratified AMDD in 2016 Has developed Decree 36 on management of medical devices in harmony with the international commitments

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Local Differences

Category

• Device or Drug or Exempt?

Classification

• Local Idiosyncrasies e.g. IVDs are medicines in Vietnam.

Process

• Local frameworks are highly varied

Dossier

• Some have adopted the AHWP CSDT format, but with local differences

Asian Harmonization Progress



Very slow!

- AHWP is starting to contemplate guidance on UDI – but expect 2-3 years before something emerges
- ASEAN members are still developing national regulations to follow the ASEAN MDD – which is closely based on EU MDD
- Realistically, there is little prospect of update to match MDR in near future

But Note:

- Many APAC jurisdictions abridge assessments for CE marked or GHTF member approved devices (e.g. Singapore, Malaysia, Taiwan, Indonesia)
- As MDR is more rigorous than MDD, CE marks will still have validity in APAC or abridged assessments



Some Specific Questions:



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TGA transitional period and MDD applications still in progress

Device lifetime and safe disposal – ASEAN approach

Japan and Korea – approach to Biocompatibility – mandatory biological testing?

Time for Q&A...

Think of something later? Ask us by email...

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