

Regulatory requirements for Medical Device Clinical Trials

For SingHealth Cluster

MAY NG

ARQon (Asia Regulatory & Quality Consultancy) Group CEO info@arqon.com, +65 90671432





FOUNDER



MAY NG Group CEO

ARQon Group 8 years, MedtechBOSS 3 years, IMDS Group 3 years

- 2 years as Product Manager for IVDs, Poison & Radiation device
- 10 years in **Singapore Health Science Authority (HSA)**, established Singapore registration, approved 1400 devices, key authoring guidances CSDT & GDPMDS
- 4 years in **Biosensors**, **Regulatory Director drug eluting stent** for:
- o **Product registration** in Asia, Europe and global countries
- **Regulatory compliance** from product design, manufacturing and distribution (DHF/DD/TF, Clinical trial, Customs, Labelling, Product changes, Recall)
- Technical documentation & Site compliance from regulator audit
 (EU DEKRA, TUV SUD, KR MFDS, AU TGA, JP PMDA, BZ ANVISA, SG HSA)

Education

• Grad Dip (Medtech Manufacturing) in A*STAR Simtech, Singapore MSc (Biomed. Eng) in NTU, BSc (Biochem & Microbio) in UPM Malaysia

External roles

- SG (NHIC, A*STAR, IPI, NUS), Korea (KHIDI) Regulatory & quality advisor
- **ASEANMed** Co chair
- US-ASEAN Planning Medical device committee ASEANMed rep
- China-ASEAN Medical Cooperation Committee Singapore Rep
- Trainer to Authorities & International speaker: HKMDD, TFDA, TH FDA, SFDA, etc.
- Past committees: AHWP, ACCSQ-MDPWG, ARPA, RAPro, PMO's TEC, SMF Council



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Resource information also from:

- HSA
- IMDRF

CONTENTS

- Medical Device Definition & Classification
- Clinical Research Requirements
- Adverse Event Reporting
- Q&A

Medical Device Definition

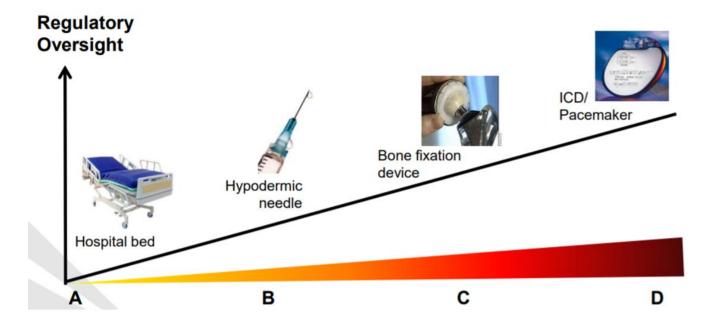
MEDICAL DEVICE (as set out in the HPA): means

- (a) any instrument, apparatus, implement, machine, appliance, implant, reagent for in vitro use, software, material or other similar or related article that is intended by its manufacturer to be used, whether alone or in combination, for humans for one or more of the specific purposes of: (i) diagnosis, prevention, monitoring, treatment or alleviation of disease;
- (ii) diagnosis, monitoring, treatment or alleviation of, or compensation for, an injury;
- (iii) investigation, replacement, modification or support of the anatomy or of a physiological process, mainly for medical purposes;
- (iv) supporting or sustaining life;
- (v) control of conception;
- (vi) disinfection of medical devices; or
- (vii) providing information by means of in vitro examination of specimens derived from the human body, for medical or diagnostic purposes, and
- which does not achieve its primary intended action in or on the human body by pharmacological, immunological or metabolic means, but which may be assisted in its intended function by such means; and
- (b) the following articles: (i) any implant for the modification or fixation of any body part; (ii) any injectable dermal filler or mucous membrane filler; (iii) any instrument, apparatus, implement, machine or appliance intended to be used for the removal or degradation of fat by invasive means.





Medical Devices were categorized into 4 risk classes, aligned with the international rule-based classification system



HSA Classification also according to guidelines of International Medical Device Regulatory Forum (IMDRF)





Table A4.1 Examples of medical devices by risk class^a

Class	Risk	Examples	
A	Low	Syringes, examination gloves, patient hoists, stethoscopes, wheelchairs, IVD instruments, microbiological culture media	
В	Low-moderate	Surgical gloves, infusion sets, pregnancy tests	
C	Moderate—high	Condoms (unless with spermicide (class D)), infusion pumps, neonatal incubators, therapeutic and diagnostic X-ray, lung ventilators, haemodialysers, anaesthesia equipment, self-test glucose strips, IVDs for the diagnosis of Neisseria gonorrhoea	
D	High	Implantable cardioverter defibrillators, pacemakers, breast implants, angioplasty balloon catheters, spinal needle, IVDs for the diagnosis of HIV, hepatitis C or hepatitis B	

The actual classification of each device depends on the claims made by the manufacturer for its intended use and the technology or technologies it utilizes. As an aid to interpreting the purpose of each rule, illustrative examples of medical devices that should conform to the rule have been provided in the table above. However, it must be emphasized that a manufacturer of such a device should not rely on it appearing as an example but should instead make an independent decision on classification taking account of its particular design and intended use.

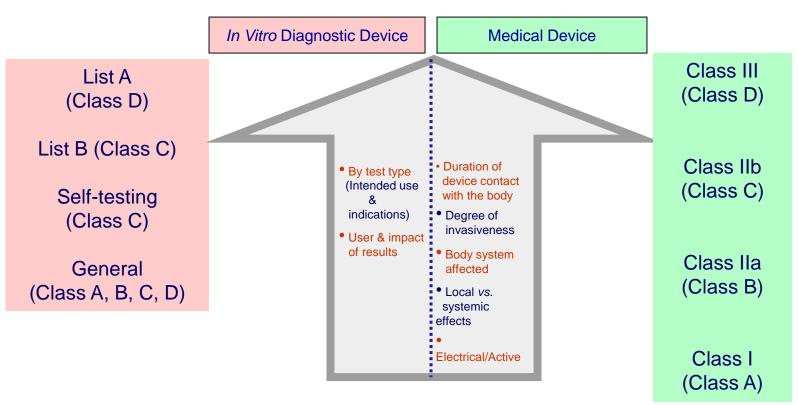
COUNTRY	United States	Europe	Canada	Australia	Singapore
Philosophy	Risk based Classification				
Reg. Framework	Food, Drug & Cosmetics Act 1976 Code of Federal Register (CFR)	• AIMD 90/385/EEC • MDD 93/42/EEC • IVDD 98/79/EEC • MDR & IVDR	Food & Drugs Act Medical Device Regulations	Therapeutics Good Act 1989 Therapeutics Good (MDs) Regulations 2002	•Health Products Act •Medical Device Regulations
Classification Systems	Class I (Exempt + General Controls) Class II (Gen + Special Controls) Class III (Gen + Special Controls + PMA)	Class I, IIA, IIB, III Class A, B, C, D (4 Classes)	Class I, II, III, IV (4 Classes)	Class I, IIA, IIB, III Class A, B, C, D (4 Classes)	Class A, B, C, D (4 Classes)
Conformity Assessment	Premarket Approval (PMA) by FDA Premarket Notification (510k) by FDA and 3 rd parties accredited by FDA Quality System Vigilance Reporting	Evaluation by Notified Bodies Conformity assessment/MQMS/Type Testing Vigilance Reporting	Evaluation by Health Canada Quality System (MDSAP mandatory) Vigilance Reporting	Evaluation by Notified Bodies or Competent Authority for Class III, Combinations, Local manufactured Conformity assessment/QMS/ Type Testing Vigilance Reporting	Full Evaluation Abridged Evaluation (Benchmarked GHTF/IMDRF) Quality System Vigilance Reporting



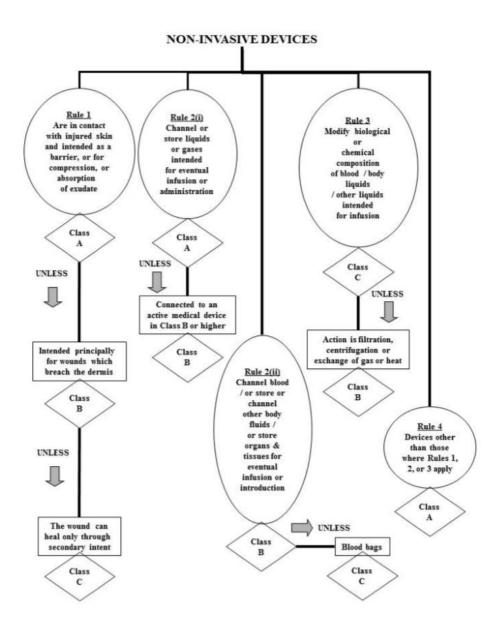




Product risk classification IVD and MD

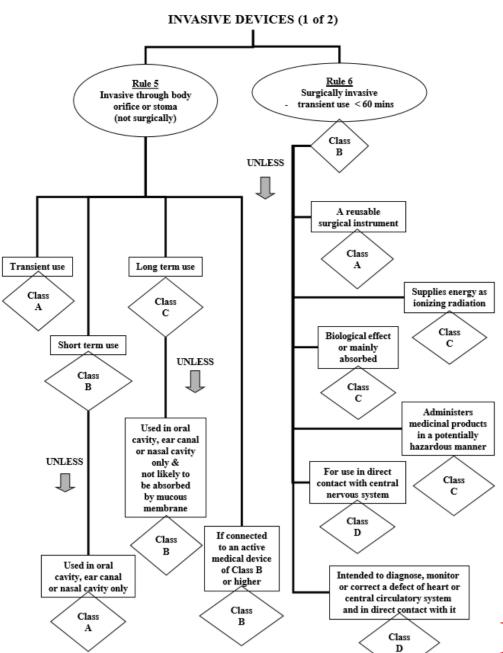








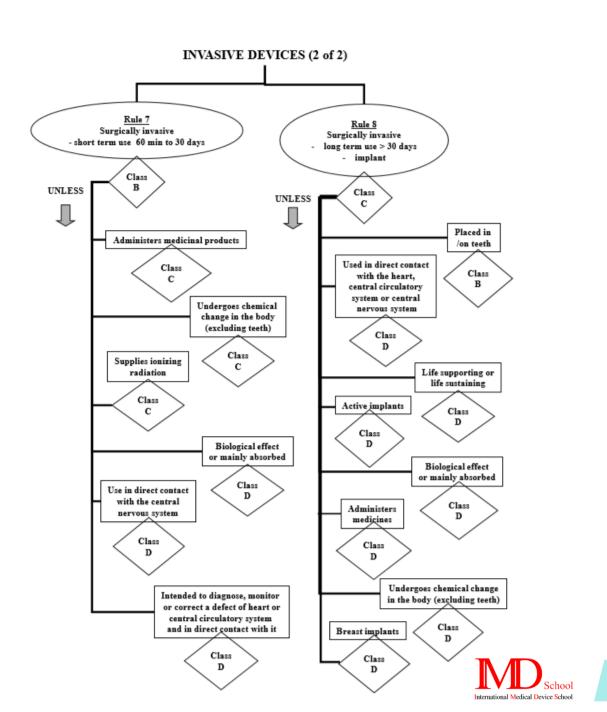


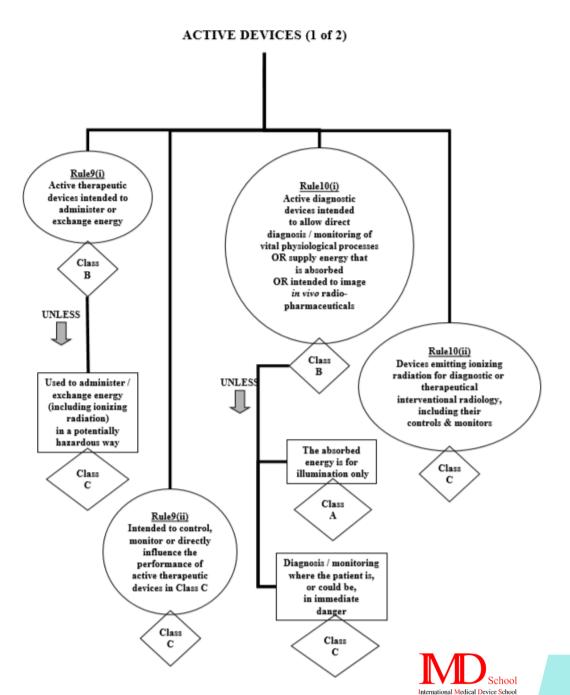






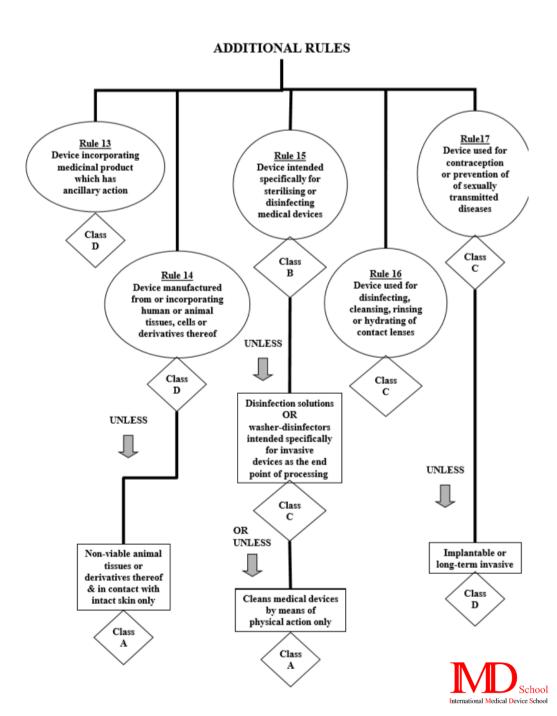




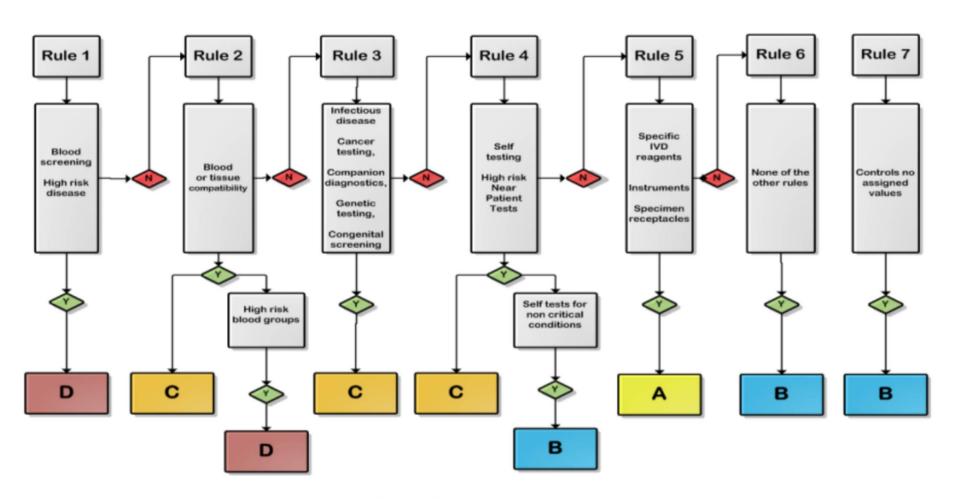


ACTIVE DEVICES (2 of 2) Rule 12 <u>Rule 11</u> Active devices To other than administer or those where remove medicinal Rules 9, 10 products & other substances or 11 apply from the body Class Α Class В UNLESS In a potentially hazardous manner Class C





Risk Classification for IVD







Risk Classification for Software

Low Risk High Risk Increasing risk 8 App used for App used for Software or app N.A. continuous / live measurement of that does not measurement and heart rate and measure, monitoring of ECG ECG - single analyze or and irregular heart measurements monitor patient rate management parameters and in cardiac patients solely displays patient Software for physiological prediction of low Apps for parameters blood glucose measurement of /images derived level episodes in blood glucose in from another patients based on whole blood and device (e.g. past glucose recommendation patient monitor) measurements & of medication diet dosage

Table 1: Examples of Telehealth Medical Devices of various risk classes.



Singapore MOH Artificial Intelligence in Healthcare Guidelines (AIHGle)

Artificial Intelligence (AI) is increasingly being used throughout the healthcare continuum – from administration, to clinical decision support to increase system efficiency and improve patient outcomes. However, alongside the benefits are also risks and ethical concerns if AI is not safely designed and implemented.

To support patient safety and improve trust in the use of AI in healthcare, the Ministry of Health (MOH), the Health Sciences Authority (HSA), and the Integrated Health Information Systems (IHiS) co-developed the MOH Artificial Intelligence in Healthcare Guidelines (AIHGle) (read as 'agile').

The Guidelines:

- a) **Share good practices with AI developers** (e.g. manufacturers or companies) and **AI implementers** (e.g. healthcare institutions hospitals, clinics, laboratories); and
- b) Complement HSA's regulations of Al-Medical Devices (Al-MDs).







The Singapore Eye LEsioN Analyzer, or SELENA







Singapore MOH Artificial Intelligence in Healthcare Guidelines (AIHGle)

Development



Design

- » Obtain clinical and end-user input
- » Ensure testing datasets are representative
- » Secure-by-design: Prepare to prevent, detect, respond, and recover from cybersecurity risks



- » Adopt appropriate development standards (e.g. risk and quality management systems)
- » Ensure version control for iterative builds
- » Incorporate self-validation mechanisms



Test

- » Validate on retrospective and representative data
- » Peer-review of validation results
- » Document how the Al should be incorporated into clinical workflows

Implementation



Use

- » Ensure clinical governance and Organisational Leadership^[2] approvals (e.g. Chairman, Medical Board (or equivalent))
- » Track performance at the point of deployment "ground-truthing"
- » Be transparent to the end-user that an AI is in use and be able to explain AI decisions



Monitor

- » Continue performance monitoring post deployment
- » Set escalation thresholds and pathways
- » Establish processes to receive, respond, and investigate any adverse events



Review

- » Implement regular and ad-hoc reviews for safety, efficacy, and utility
- » Perform periodic maintenance (e.g. cybersecurity vulnerabilities, data handling)







References ication for Software

HSA Guidelines:

- HSA GN-13: Guidance on the Risk Classification of General Medical Devices
- HSA GN-15: Guidance on Medical Device Product Registration
- HSA Regulatory Guidelines for Telehealth Products
- HSA Regulatory Guidelines for Software Medical Devices A Life Cycle Approach
- HSA GN-14: Guidance on the Risk Classification of In Vitro Diagnostic Medical Devices

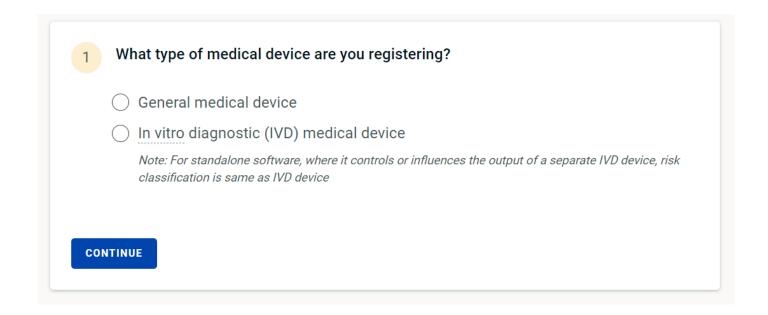
In collaboration with HSA:

- SSC TR 67:2018 Connected Medical Device Security
- MOH Artificial Intelligence in Healthcare Guidelines (AIHGle)

ARQon

HSA Risk classification tool

https://www.hsa.gov.sg/medical-devices/registration/riskclassification



HSA SMDR

PUBLIC ENQUIRY - SINGAPORE MEDICAL DEVICE REGISTER (SMDR) Advanced Medical Device Product Local Registrant **Importer** Wholesaler Device Owner Manufacturer Search Category **Medical Device** 0-9 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z All 0-9 1stQ AddOn Intraocular Lens (Spherical) [1stQ GmbH], 1stQ AddOn IOLs are intended for implantation i... 1stQ AddOn Intraocular Lens (Toric) [1stQ GmbH], All 1stQ AddOn IOLs are indicated for implantation ... 3-D Matrix PuraStat®Absorbable Haemostat [3-D Matrix Europe SAS], PuraStat is indicated for haemosta... 3A Health Care OMRON Compressor Nebulizer with Nasal Aspirator [3A HEALTH CARE S.r.l.], The intended... 3D-Shaper Medical S.L. 3D-SHAPER [3D-SHAPER MEDICAL SL], 3D-SHAPER is a stand-alone medical software... 3M Bair Hugger™ Temperature Monitoring System [3M Company], Measure, monitor, and trend body tempera... 3M Deutschland Dental Restorative Materials [3M Deutschland GmbH], Liquid compounds specially design... 3M ESPE Adper™ Easy One Self-Etch Adhesive [3M Deutschland GmbH], It is indicated for all classes of... 3M ESPE Adper™ Prompt™ / Adper™ Prompt™ L-Pop™ Self-Etch Adhesive [3M Deutschland GmbH], It is inten... 3M ESPE Adper™ Scotchbond™ Multipurpose Adhesive [3M ESPE], The Adper Scotchbond Multi-purpose adhes... Page 1 of 1914 Go [first] | [previous] | [next] | [last] Total 19137 matching record(s) Note: All device listings on the Singapore Medical Device Register (SMDR) are active. Class A medical devices are not registered in the SMDR. To retrieve Class A medical devices, please visit Class A Medical Device Database.

Singapore Medical Device Register (SMDR)

<u>Class A</u> <u>Class B/C/D</u>





Local Authorities & Industry with IMDS

- Supporting Innovation ie Digital Medical Device

Regulator

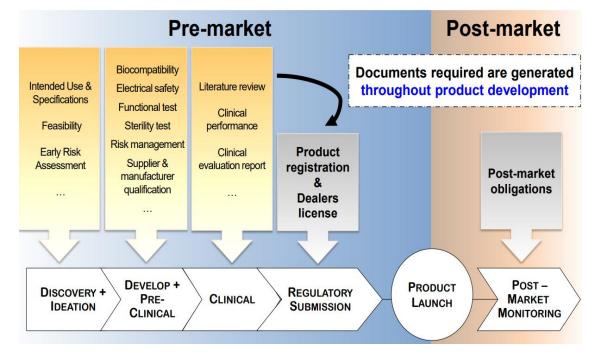


SUPPORTING INNOVATION AND FASTER ACCESS TO SAFE MEDICAL DEVICES

Industry



Program overview of medical devices lifecycle, from R&D to commercialization for MEDTECH PROFESSIONALS.





MEDTECH START-UP REGULATORY ROADMAP

HELP YOUR PRODUCT DEVELOPMENT TEAM TO SET UP MDF AND QMS

Start of Project Month 6 Month 9 Month 12

Step 1: Local/Global Regulatory Strategy

Global Regulatory Strategy eg Countries, Class, Clinical, QMS (consultation)

Step 2: Quality
Management
System

Quality Management System
(set up medical device design & development procedures)

QMS (application) to Certification body (if required eg ISO13485, EU MDR/IVDR, USQSR) QMS (Audit) by certification body or relevant body QMS (Obtaining Certification)

Step 3: Medical Device File

Medical Device File (set-up medical device documentations)

Step 4: Local/Global Product Registration

SG HSA: Product
Registration (Dossier
preparation)

CE Notified Body: Product Registration (Dossier preparation) SG HSA: Product registration (Dossier submission)

CE Notified Body: Product registration (Dossier Submission)

ARQon

ss)

© ARQon (Global Registration)



Product Registration in ASEAN Countries

Global/Asia Registration

Class I
Class A
General IVD

Class IIa / II
Class B
General IVD

Class IIb / II
Class C
List B IVD

Class III
Class D
List A IVD

01 Risk classification, exemption/registration, documents & lead

03 Appoint In-Country Representative for Product License holding (ARQon) **05** Product Approval

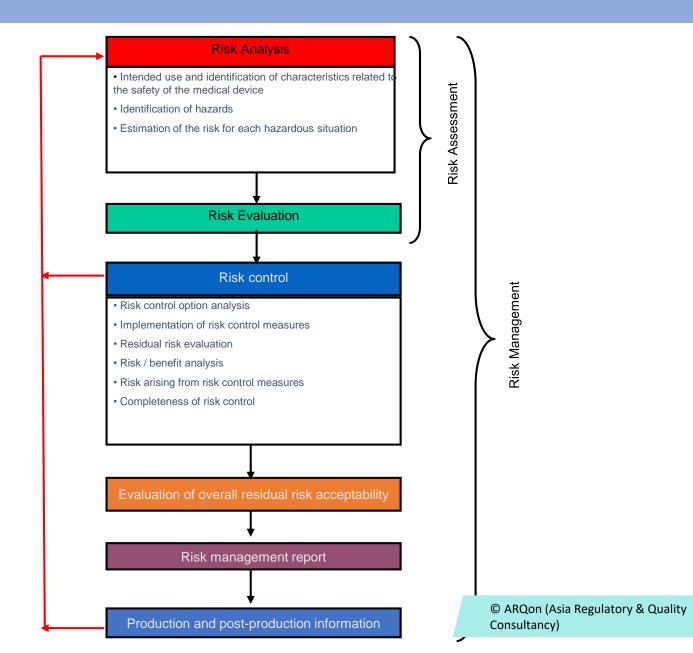
time

02 Preparation of Technical Documents

04 Product Registration by Local Authorised Rep.



Risk Management based on ISO14971



ARQon

Design Failure Mode and Effects Analysis (DFMEA)

No.	Item and Item Function	Potential Failure Mode	Potential Effects of Failure	Severity	Potential Cause(s)/ Mechanisms of Failure	Likelihood	Risk Index (H / M / L)
							·

List the component/ module /system to be analyzed & its intended function

Identify the failure mode associated with Item Function being delivered

Identify the impact of the failure to the end user:

- Injury
- Performance Issue

Identify the root cause of the failure Assign the severity & likelihood

Calculate the Risk Index based on the severity and likelihood ratings.





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Clinical Trial & CRM Regulations

Clinical Trial regulations are intended:

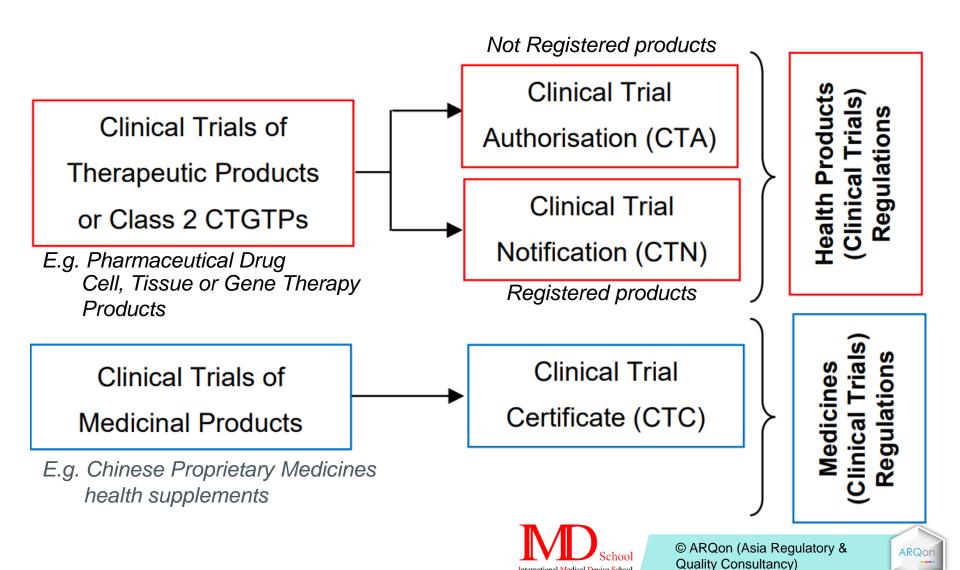
to regulate **the conduct** of regulated clinical trials, including the parties (e.g., sponsor, investigator) critical to ensuring that clinical trials are conducted in accordance with Good Clinical Practice.

CRM regulations are intended:

to regulate **the product and dealers** (manufacturers, importers, suppliers) and to **safeguard the supply chain** relating to health products/medicinal products that are imported, locally manufactured or supplied for use in clinical research.

A) Clinical Trial submission to HSA -

Regulated Clinical Trial



A) Clinical Trial submission to HSA – NOT REQUIRED

Not Regulated Clinical Trial

- (i) observational clinical trials of therapeutic products,Class 2 CTGTPs or medicinal products;
- (ii) clinical studies in which therapeutic products or medicinal products are used for a known effect, and are not the subject of investigation for potential efficacy, safety, pharmacokinetics etc.;
- (iii) medical device clinical trials; or
- (iv) food and nutrition studies involving the use of medical devices

Class 1 CTGTP means a CTGTP that —

- (a) is the result of only minimal manipulation of human cell or tissue;
- (b) is intended for homologous use;
- (c) is not combined or used with a therapeutic product or a medical device;and
- (d) is assigned by HSA as a Class 1 CTGTP due to a lower health risk to a user of the product.

NB: Clinical trials of Class 1 CTGTP will be regulated under the Human Biomedical Research Act.





B) Clinical Research Material submission to HSA -

Clinical Research Material Notification

Clinical research means any research involving human subjects.

CRM means any registered or unregistered TP, MP, MD, applicable CTGTP, or placebo, that is manufactured, imported or supplied for the purpose of being used in clinical research, by way of administration to a trial participant in accordance with the research protocol or for a clinical purpose.

CRM may be imported, locally manufactured or procured from local commercial sources.

B) Clinical Research Material submission to HSA -

Clinical Research Material Notification

Product type	Key regulations for CRM	
Therapeutic products	Health Products (Clinical Research	
* Class 2 CTGTPs	Materials) Regulations 더	
* Class 1 CTGTPs for which a manufacturer/ importer/ wholesaler notification has not been made to HSA		
Medicinal products	Medicines (Medicinal Products as Clinical Research Materials) Regulations ☑	
Medical devices	Health Products (Medical Devices) Regulations 업	





B) Clinical Research Material submission – NOT

Not Required CRM notification

- Locally registered CRM obtained from local commercial sources
- Import of locally registered CRM for local clinical research use if the importer already has a valid importer's licence for the import of CRM
- Supply of a locally registered CRM by its local manufacturer for local clinical research use if the manufacturer has a valid manufacturer's licence
- Supply of CRM by a local manufacturer if the manufacture of the CRM being supplied comprises solely of the packaging or labelling of the CRM
- Import of a minimally manipulated CTGTP CRM for local clinical research use by a known importer
- Supply of a minimally manipulated CTGTP CRM by its known manufacturer for local clinical research use

For products imported solely for export to overseas trial sites, CRM notification is not applicable. You would need to apply for an approval to import these products accordingly:

- Therapeutic products: Importer's licence for therapeutic products
- Medical devices: Import for re-export approval for medical device
- CTGTP: Import for re-export for CTGTP





B) Clinical Research Material submission to HSA – NOT REQUIRED

Category	Examples	Comments / additional notes
Research material that is not a TP, CTGTP, MP or MD	Human tissue biopsy samples donated for use in laboratory research and not intended for clinical use Stationery, plastic bags for general use, tablet computers	Since the research material is not a TP, CTGTP, MP or MD, and therefore not a CRM, the requirements of the Health Products Act, Medicines Act and CRM regulations are not applicable. As such, the importer will not require an <i>Importer's Licence</i> from HSA in order to import the research material. HSA also need not be notified of the import in accordance with the CRM regulations. If you are unsure as to whether the research material / product to be used is a TP, CTGTP, MP or MD, please submit a Health Products Classification Enquiry via <u>HSA website</u> .
Products excluded from the CRM regulations E.g., MP specified in the First Schedule of the Medicines (MP as CRM) Regulations 2016, Class 1 CTGTPs that are manufactured / imported / supplied by known manufacturers / importers / wholesalers	Homeopathic medicine Medicated oil and balm Quasi-medicinal products Traditional medicine Herbal remedy Raw materials used as ingredients in the preparation or manufacture of any medicinal product, e.g., active pharmaceutical ingredients, intermediates, excipients	The First Schedule of the Medicines (Medicinal Products as Clinical Research Materials) Regulations contains a list of medicinal products excluded from the CRM regulations. This list is aligned to the list of medicinal products exempted from product licence and dealers' licensing requirements. As such, an <i>Importer's Licence</i> will not be required under the Medicines Act. HSA also need not be notified of the import in accordance with the CRM regulations. However, if the active pharmaceutical ingredient contains, or is a substance that is listed as a poison under the Poisons Act, a <i>Form A Poisons licence</i> will be required.





B) Clinical Research Material notification to HSA – NOT REQUIRED

	i	
TP, CTGTP, MP or MD that is intended for non-clinical purposes only (e.g., used in laboratory or animal research only and not administered or applied to humans).	A TP that is imported or locally manufactured for toxicology tests in rats A drug-coated coronary stent (MD) that is imported or locally manufactured for proof-of-concept studies in monkeys Clinical trial kits containing TP that are imported for disposal or destruction in Singapore	As the TP, CTGTP, MP or MD is not administered to humans or not intended for a clinical purpose, they are not considered to be CRM. However, the import and supply of the product will be subject to applicable requirements of the Health Products Act, Medicines Act and/or related subsidiary legislation. For TP, companies not holding a valid <i>Importer's Licence</i> and are only importing TP for non-clinical purposes will require an <i>Importer's Licence for Restricted Activity(ies)</i> . For MD, please refer to <i>Special Access Routes</i> for medical devices on HSA website.
TP, MP or MD that is not intended for local clinical research use	TP imported solely for export for use in regional clinical research (not including Singapore as a trial site) TP that is locally manufactured for export only	Products that are imported solely for export or manufactured solely for export are not CRM. Therefore, the exceptions and requirements of the CRM regulations are not applicable. For TP, the import-for-export will be governed by the Health Products Act and the Health Products (Therapeutic Products) Regulations. Companies not holding a valid <i>Importer's Licence</i> and are only importing TP solely for export will require an <i>Importer's Licence for Restricted Activity(ies)</i> . For MD, please refer to <i>Special Access Routes</i> for medical devices on HSA website.
TP, MP that is used by participants in the clinical research, but not as an investigational or auxiliary CRM*	Registered TP/MP used as • pre-medication • rescue medication • treatment for trial-related adverse events • concomitant medication for co-morbidities	TP/MP that are not regulated as CRM (i.e., not investigational or auxiliary CRM) will be subject to controls under the Health Products Act, Health Products (Therapeutic Products) Regulations or Medicines Act instead.





OTHER ADDITIONAL (IF ANY)

Substances	Additional requirements
Controlled drugs and psychotropic substances	Licences for controlled drugs and psychotropic substances
	Note: CTA/CTN/CTC and/or CRM notification acknowledgement (as applicable) should be provided in the application for the above licences.
	Upon trial completion, any leftover CRM must be destroyed, and the procedure witnessed by a HSA inspector. If the CRM is to be exported, a corresponding export licence should be applied and issued before the export is made.
Poisons	Form A Poisons Licence
	Note: CRMs which are therapeutic products are excluded from this requirement.
Radiopharmaceuticals	The import, export, possession, use, transport and disposal of radioactive material is regulated under the Radiation Protection Act by the National Environment Agency .
Radiofrequency	Infocomm Media Development Authority (IMDA)
	© ARQon (A Quality Con:



HSA DEALER LICENSE – NOT REQUIRED

Activity	Licence	CRM Notification
Manufacture of CRM	Manufacturer's Licence Not required	CRM Notification required prior to supply of CRM by local manufacturer
Import of CRM	Importer's Licence Not required	CRM Notification required prior to import of CRM
Wholesale of CRM	Wholesaler's Licence Not required	-
Supply of CRM	Product Registration Not required	-





CRM Notification – Process Flow

	Clinical research not regulated by HSA	Regulated clinical trial
Drafter of CRM notification form	Importer or local manufacturer	Sponsor (on behalf of importer or local manufacturer)
Notification Form (PRISM)	CRM Notification form	Part of CTA/CTN/CTC application form
Endorsement Workflow	Importer/Local manufacturer -> Sponsor	Sponsor -> Importer/Local Manufacturer (endorsement)
Submitter	Importer or local manufacturer	Sponsor (on behalf of importer or local manufacturer)
Acknowledgment notification	Importer, local manufacturer, sponsor	Importer, local manufacturer, sponsor
Validity period of notification	1 year from the date of notification	Duration of the clinical trial





CRM Notification – Form

PT0101 CLINICAL RESEARCH MATERIAL NOTIFICATION

Fill in the application form		<u>Guideline</u> <u>Help</u>
Particulars of Importer / Local Manufacturer Particulars of Clinical Research Particulars of Clinical Research Materials (CRM)	Supporting Documents Declaration & Confirmation	Special Symbol Attach Save

Next

Fields marked with an asterisk * are mandatory.

ricids marked with all asterisk are mandatory.	
1. Introduction	
1.1 Please select *	○ Importer of CRM○ Supply of CRM by Local Manufacturer
1.2 Please select the type of CRM to be imported or supplied *	 ☐ Therapeutic Product ☐ Medical Device ☐ Medicinal Product (e.g. Cell- and Tissue-based Product, Complementary Health Products)

4. Supporting Documents To add an attachment, type in the path or hit the browse button. Then hit the Attach Files button to save the attachment to the list below. Please click here for guideline on document attachment. Documents 4.1 IRB Approval Letter : Browse... 4.2 Listing of Components in a Browse... Medical Device System: 4.3 Packing list for Study-Visits Browse... Specific Kits: 4.4 GMP ce rtifica te : Browse... 4.5 Other Supporting Browse... Documents:





CRM Notification – Form

PZO901 ENQUIRE@PRISM

Important Notes:

For HSA CRIS registered companies, user has to be authorised with the appropriate access rights via CRIS management module to access the required eservices.

Search Criteria			
Licence/Permit/Certificate/Listing/ Notification/Registration Type *	Clinical Research Material Notification		
Status *	Active		
Licence/Permit/Certificate/Listing/ Notification/Registration No	CRM1600118		
Product Name			
Start Date (dd/mm/yyyy)	То		
Expiry Date (dd/mm/yyyy)	То		
Search Reset			
Please do not access the record using the new window via right mouse click.			
1 Matching Record(s)	Page 1 Of 1 [First] [Previous] [Next] [Last		
Active Clinical Research Mate	rial Notification		
S/NoHSA Appl CRM No No	Date of Valid Until / CTC/CTA/CTN Research Notification/Approval Date of Expiry No Reference / Protocol No		
1 1601182X <u>CRM1600118</u>	10/10/2016 09/10/2017		



CRM Notification – Form

1. Clinical Research Material Notification	
Notification Number	CRM1600118
Notification Date	10/10/2016
Valid Until	09/10/2017

2 Particulars of Importer/	Manufacturer		
2.1 Unique Entity No.(UEN)	196400192M		
2.2 Company Name	PFIZER PTE LTD		
2.3 Address			
2.3.1 Address Type:	Local		
2.3.2 Postal Code: *	189721		
2.3.3 Block / House No:	152	2.3.4 Level - Unit: *	# - 00
2.3.5 Street Name:	BEACH RD		
2.3.6 Building Name:	GATEWAY EAST		
2.3.7 Country:	SINGAPORE		
2.4 Company Representative	Paris		
2.5 Designation:	RP		
2.6 Tel.No. :	12341	2.7 Fax.No. :	
2.8 Email:	paris@pfizer.co		

3. Particulars of Clinical Trial/Research		
3.1 Name of Trial/Research Sponsor:	Sponsor Name	
Particulars of Clinical Research (1)		
3.2 Title of Clinical Trial/Research:	Title	
3.3 Protocol/Research Reference Number:	Ref No	
3.4 List of Principal Investigator(s) & Clinical Trial/Research Site(s)		
Principal Investigator(s)	Clinical Trial / Research Site	
Ash Chua	National Cancer Centre	

4 Particulars of Clinical Research Material (CRM)					
4.2 Medical Device for Investigational Purpose					
No.	Device Name	Type of Medical Device	ldentifier	Estimated Total Quantity	Remarks
1	MD	General Medical Device	MD01	1000	



CONTENT

- Medical Device Definition & Classification
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Adverse Event Reporting

Adverse event reporting

Submit the Mandatory Medical Device Adverse Event Reporting Form for Medical Device Dealers & 183 KB through e-mail. Keep the email size under 2MB.

Refer to our guides if you are reporting an adverse event:

- As a healthcare professional.
- In a clinical trial.

When to report

It is mandatory for medical device companies, including product registrants, manufacturers, importers and suppliers, to report any AEs related to the medical devices they deal in.

The following medical device-associated AEs must be reported to us:

Adverse events	Report within
Serious threat to public health	48 hours
Death	10 days
Serious deterioration in state of health	10 days
Possible death or serious injury if the adverse event were to recur	30 days

HSA Medical Device Branch

https://www.hsa.gov.sg/medical-devices/adverseevents

- · AE Report form for registered MD
- Voluntary AE Report form

HSA Clinical Trial Branch

https://www.hsa.gov.sg/clinical-trials/adverse-events

- AE Report form for MD Clinical Research
- Non-compliance CRM form.



CONTENT

- Medical Device Definition & Classification
- Clinical Research Requirements
- Adverse Event Reporting
- Q&A

Q&A – Ref. HSA and ARQon

What are the CRM records to be in place?

If the records relate to an <u>unregistered</u> MD CRM that is supplied for use in a regulated clinical trial, records of receipt and supply must be kept until the following time-point, whichever is latest:

- when there is no more pending or planned application for registration of the TP or MP that was tested in the clinical trial or research
- · 2 years after the last of such registrations has been granted
- 2 years after HSA was informed of the termination of a clinical trial
- 6 years after the completion of a clinical trial (i.e., 6 years after "Last-Patient-Last-Visit), or
- any other period as directed by HSA

If the MD CRM (whether registered or unregistered) is supplied for use in clinical research that is not regulated by HSA, or if the MD CRM is a registered MD, records of receipt and supply must be kept for either

- the projected useful life of the medical device, or
- 2 years after the date on which the medical device was supplied, whichever is the longer period





Q&A – Ref. HSA and ARQon

Who is local sponsor

Local sponsor refers to the local company or local institution which takes responsibility for the initiation, management or financing of the clinical trial.

IRB application requirements for Medical Devices?

Key documents (and other information depends on the IRB)

- Clinical Trial Protocol
- Principal Investigator brochure
- Patient Consent form
- Product information

Is it ok to do a limited trial (eg. 10-25 people) using a device sponsored by a pharmaceutical company?

Yes, CRM notification submission required if it is medical device clinical research. Purpose of the trial to be determined





Clinical Laboratory with Lab Developed Tests (LDTs) (under DHMC/HSCA)

DISTRIBUTE OUTSIDE IN-HOUSE USE ONLY?

When distributed <u>outside</u> Laboratory A, it is not LDT.

Not LDT will be regulated as IVD by HSA.

OFF LABEL USE?

When it is Off-label use IVD, it is not LDT.

Licensed laboratory is responsible for the safety and efficacy of the test.

Q&A - Ref. HSA and ARQon



FAQ

Question	Answer
Are the SAR updates applicable to applications submitted before 1 April 2022?	The updates to the Special Access Routes (SAR) for unregistered medical devices are only applicable to SAR applications submitted from 1 April 2022.
For SAR applications that include Class D medical devices that require MOH review as well as other devices that do not require MOH review, will the TAT for the entire application be longer or will those that do not require MOH review be approved first?	Yes, the TAT may be extended for the submitted application as long as it includes Class D medical devices that fall under the specific categories of Class D devices that require review by MOH. As such, please plan accordingly prior to submission.
Who is responsible for submitting the Clinical Justification Review Form to MOH for their review and approval?	All SAR supporting documents, including the Clinical Justification Review Form shall be submitted to HSA via MEDICS. HSA will liaise with MOH directly and MOH will contact applicant directly for any clarifications related to the form. HSA will inform the applicant via MEDICS on the outcome of the SAR application.
After expiry of the GN27 application, is a new GN27 application required if the healthcare facility wishes to continue using the device?	For single-use medical devices and implants, these devices shall not be used by the healthcare facility after expiry of the SAR licence. A new GN27 will be required for continued usage by the HCP. As such, companies are recommended to manage their inventories accordingly and only supply the quantity of device that is required by the healthcare facility. For equipment and reusable devices, users can continue to use these devices after expiry of the SAR licence. A new SAR application will not be required.







Focus group or Interest on

https://www.imdsgroup.com/contact



- 1. LDT Public consultation. In-house MD?
- 2. B2B International Medical Digital Platform
 - Forum Connection for *medtech professionals*
 - E-Commerce for *medtech companies*



ARQon



Medical Device Approval



Drug/Cosmetic **Approval**



Approval



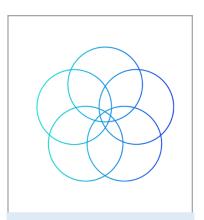
CompuHyp Mfr/Importer/REP



Training



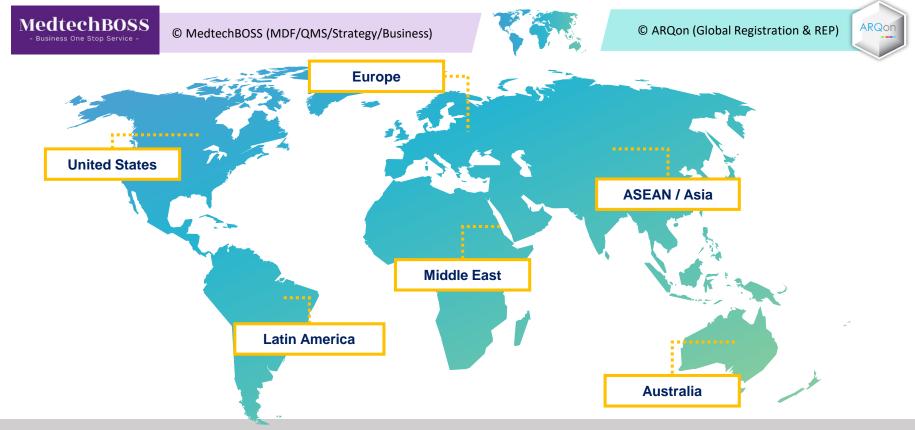
Business Matching



B2B Platform







Contact us HQ -Singapore, ASEAN/ASIA, AU, EUROPE, US, LAMER, MIDDLE EAST, GLOBAL



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