

Regulation of SaMD in Japan

PMDA Office of SaMD

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1.Regulation of SaMD in Japan

2.How to review SaMD

US-Japan HBD EAST Think Tank Meeting 2023



Medical devices are machinery or apparatus, etc. intended for use in the diagnosis, treatment or prevention of disease in humans or animals or intended to affect the structure or functions of the human or animal body, which are specified by Cabinet Order

Article 2.4, PMD Act

	Diagnosis, treatment or prevention of disease		
Intended use	or		
	Affect the structure or functions		
Condition	Specified by Cabinet Order		

Medical Devices Specified by Cabinet Order



- O Medical appliances
 - (85 items: e.g. Medical disinfector, Respiration assisting apparatus, Physioclinic appliance, thermometer, Blood pressure or Pulse wave appliance, Electrosurgical, Medical Scissors, Injection needles, Syringe, Dental unit, Vision corrective lens, etc.)
- Medical supplies
 - (6 items : e.g. radiographic film , suture , Orthopedic Appliances, etc.)
- O Dental materials
 - (9 items : e.g. dental metal , dental crowns , etc.)
- \bigcirc Sanitary goods
 - (4 items : e.g. Menstrual tampon , condom , contraceptive device , etc.)

O Program

Recording media on which programs are recorded
(6 items : e.g. Program for diagnosis of disease)

Software as a Medical Device (SaMD) has been regulated in PMD Act since 25th Nov. 2014

○ Medical Devices designated for animal - (12 items)

Provision of SaMD







2. Provision via download sales



3. Provision through a telecommunication line

A user operates SaMD through a telecommunication line, and results, such as diagnostic data based on the data provided, are subsequently received by the user automatically.





GHTF	Classification	Classification in Japan			
Class	Risk level	Class	# of JMDN**	Category	Pre-market regulation
Α	Low Surgical retractors/ tongues depressors	I	1,225	General MDs	Self declaration***
В	Low to Moderate Hypodermic needles/ suction equipment	П	2,027	Controlled MDs + Designated Controlled MDs	Third party Certification (Review by RCB*) (<u>Designated</u> Controlled MDs and <u>Designated</u> Specially Controlled MDs)
С	Moderate to High Lung ventilator/ bone fixation plate	Ш	826	Specially Controlled MDs	Ministerial Approval (Review by PMDA) (Controlled MDs and Specially Controlled MDs)
D	High Heart valves / implantable defibrillator	IV	375	+ Designated Specially Controlled MDs	

*RCB: Registered Certification Bodies **JMDN: Japanese Medical Device Nomenclature

******* MD software classified as Class I is NOT subjected to restrictions on the PMD-Act US-Japan HBD EAST Think Tank Meeting 2023

Reasons of Approval Rejection

Risk

Benefit



(a) The given device is judged that <u>it does **NOT** have its own</u> <u>effectiveness and/or performance</u> as to be concerned in the application.

(b) The given device is judged of **NO** value for medical use because its adverse effect(s) far exceed its effectiveness and/or performance.

PMD Act, Article 23-2-5 paragraph (2), item (iii), (a) & (b)



Review as Medical Device, Not just as Function



etc…

What is the medical utility of the product?

What RISKs are associated with the implementation of the product?

→ Understanding of the function itself is not enough to determine the sufficiency of the evaluation.

It is important to understand

how the product can be implemented into the current medical practice as a medical device.

e.g.

Relationship to current practice

- Combination with current practice
- Substitute for current practice
- Replace current practice
- Add new scheme/mean

etc…

Contribution to patient outcome

- Equivalent efficacy to current practice
- Higher efficacy to current practice
- Effect on patients not addressed by current practice

Documents





https://www.pmda.go.jp/files/000240364.pdf

https://www.pmda.go.jp/files/000252822.pdf





Thank you for your kind attention!

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US-Japan HBD EAST Think Tank Meeting 2023 Pharmaceuticals and Medical Devices Agency