

Overview of the Regulation of In Vitro Diagnostics products in Japan

Pharmaceuticals and Medical Devices Agency (PMDA)
Office of In Vitro Diagnostics
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| **Outline**

1. Regulations of IVD in Japan
2. Submission Data and Timeline for Regulatory Review
3. Consultation

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Regulatory approach to clinical laboratory products in Japan

IVD

The PMD Act

- Tests conducted using approved in vitro diagnostic products and medical devices
- Marketing authorization holder assure the quality and precision of the products

Based on the PMD Act, the quality, accuracy and performance of the product is ensured by the government and the third-party certification bodies.

Under the jurisdiction of Pharmaceutical Safety and Environmental Health Bureau of the MHLW

LDT: Laboratory Developed Test

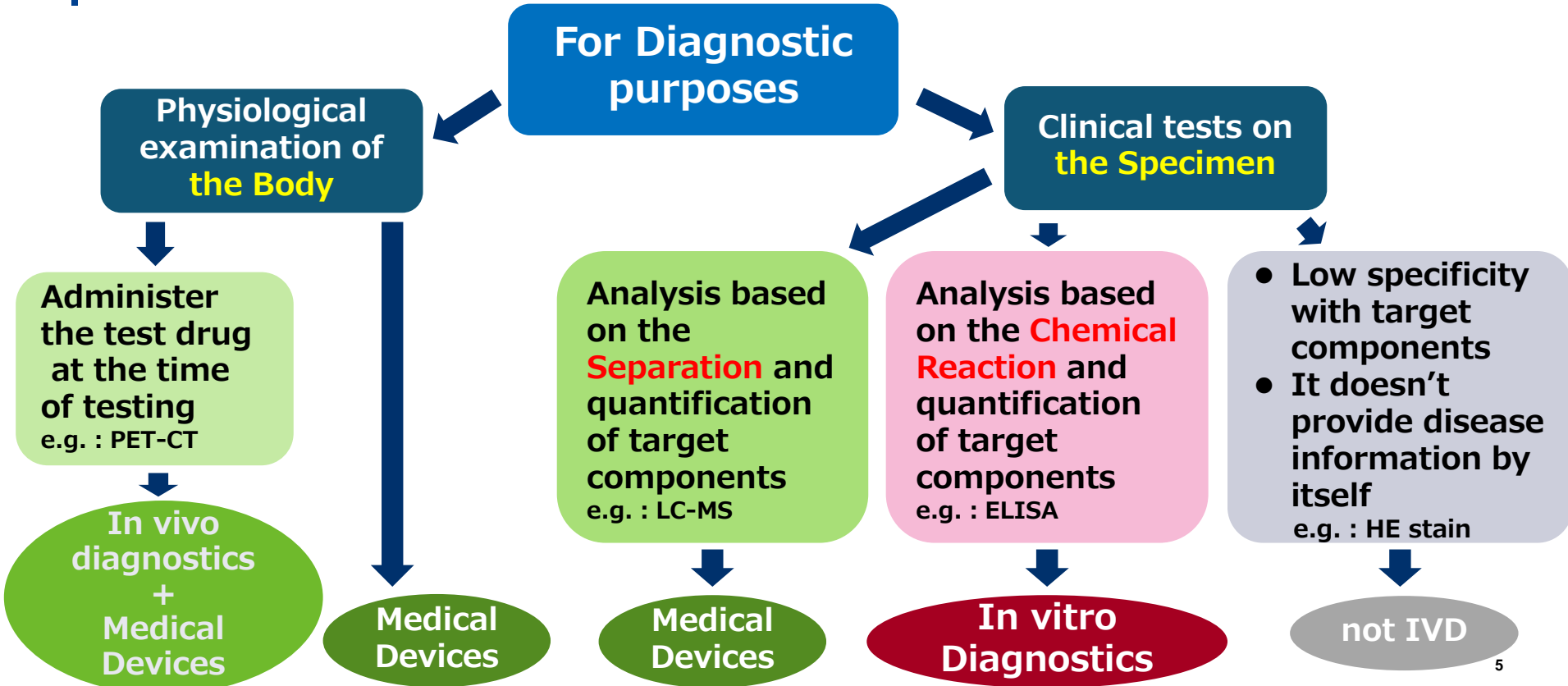
Interpretation under the Medical Care Act

- Due to the revision of the Medical Care Act, the standards for the accuracy control of the specimen tests have been clarified.
- It can be interpreted as a medical technology implemented under the direction and management of a doctor.
- It can be interpreted that the use of research reagents and equipment is also possible.
- Quality and accuracy must be ensured by the laboratory that performs the test.

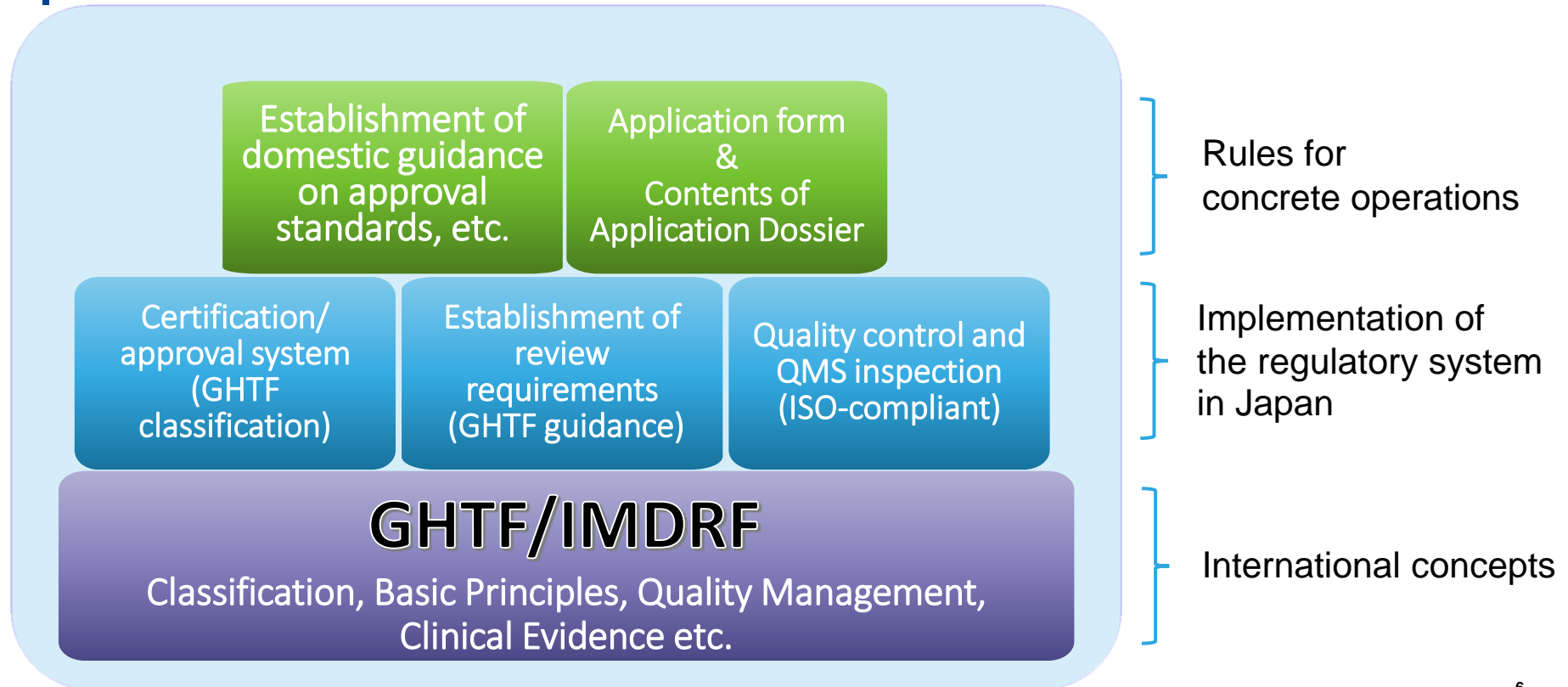
There is no system to ensure the quality, accuracy and performance of the test by the third-party.

Under the jurisdiction of the Health Policy Bureau of the MHLW

Category of Medical Device, IVD and non-IVD in Japanese regulation



Schematic Representation of Regulation of IVD in Japan



Classification and Regulation of IVD

Minor
(Risk)
Major

	Class I		Class II		Class III
Concrete examples	<ul style="list-style-type: none"> ◆ <u>Relatively Low diagnostic information risk</u> ◆ <u>Have minor impacts</u> ◆ <u>Have calibration standards</u> ◆ <u>Easy self-checking</u> <p>(Examples) Amino acids, hormones, enzyme activities, minerals, etc.</p>		<ul style="list-style-type: none"> ◆ <u>Relatively Low diagnostic information risk</u> ◆ <u>Have minor impacts</u> ◆ <u>OTC test agents</u> <p>(Examples) (1) Hormones, enzyme activities, allergy-related substances (IgE), autoantibody assays, etc. (2) Ovulation test kits, pregnancy test kits, etc.</p>		<ul style="list-style-type: none"> ◆ <u>Relatively High diagnostic information risk</u> ◆ <u>Have major impacts</u> <p>(Examples) Bacterial/viral antigens, DNA · RNA, antibody titers associated with microbial infection, immunostaining, human genetic tests, cancer-related biomarkers, companion diagnostics, etc.</p>
PMD Act	Conform to notified standards	Non-conforming	Conform to notified standards	Novel products, Non-conforming	Novel products, products with/without notified standards, Non-conforming
Regulation	Self-certification	Ministerial approval (reviewed by PMDA)	Third-party certification	Ministerial approval (reviewed by PMDA)	Ministerial approval (reviewed by PMDA)

List of user fees for reviews

(revised on May 5, 2022)

Category		User fees (Yen)	
Novel products	Non-CDx	2,534,000	
	CDx	4,295,000	
Out of scope of approval standards	With clinical study	Non-CDx	2,534,000
		CDx	4,295,000
	Without clinical study	2,362,200	
Nonconformity with approval standards	With clinical study	Non-CDx	2,534,000
		CDx	4,295,000
	Without clinical study	1,318,600	
Conformity with approval standards	Without clinical study	454,800	

Notification of Approval and Certification Standards

To make rules in advance to whether the correlation with existing products is good or poor, we set forth the criteria for correlation.

1. At least two products are approved for the novel clinical test item.
2. From the data of the two approved products, it can be judged that there is no obstacle in providing the product of same intended use to medical practice, based on the good correlation of products.



MHLW will issue a notification that the IVD products intended for the test item is subject to approval or certification standards.

Correlation Study Criteria for Approval Standards

	Qualitative Assay	Quantitative Assay
Samples	> 100 Clinical Samples	
	<ul style="list-style-type: none"> Both positive and negative samples are included at least 50. Samples around cutoff value should be included. 	<ul style="list-style-type: none"> Samples should be distributed throughout the measuring range. Samples around clinical cutoff value should be included.
Comparison Method	<ul style="list-style-type: none"> At least 2 IVD should be applied. (or standardized methods can be selected) Two different principles should be selected. 	
Criteria	Concordance rate: > 90%	Correlation coefficient: > 0.9 Slope of regression line: 0.9~1.1

If the product conforms to the standard, it is possible that the product is judged as **Non-conforming products** because of a difference from approved products.

Correlation Study Criteria for Certification Standards

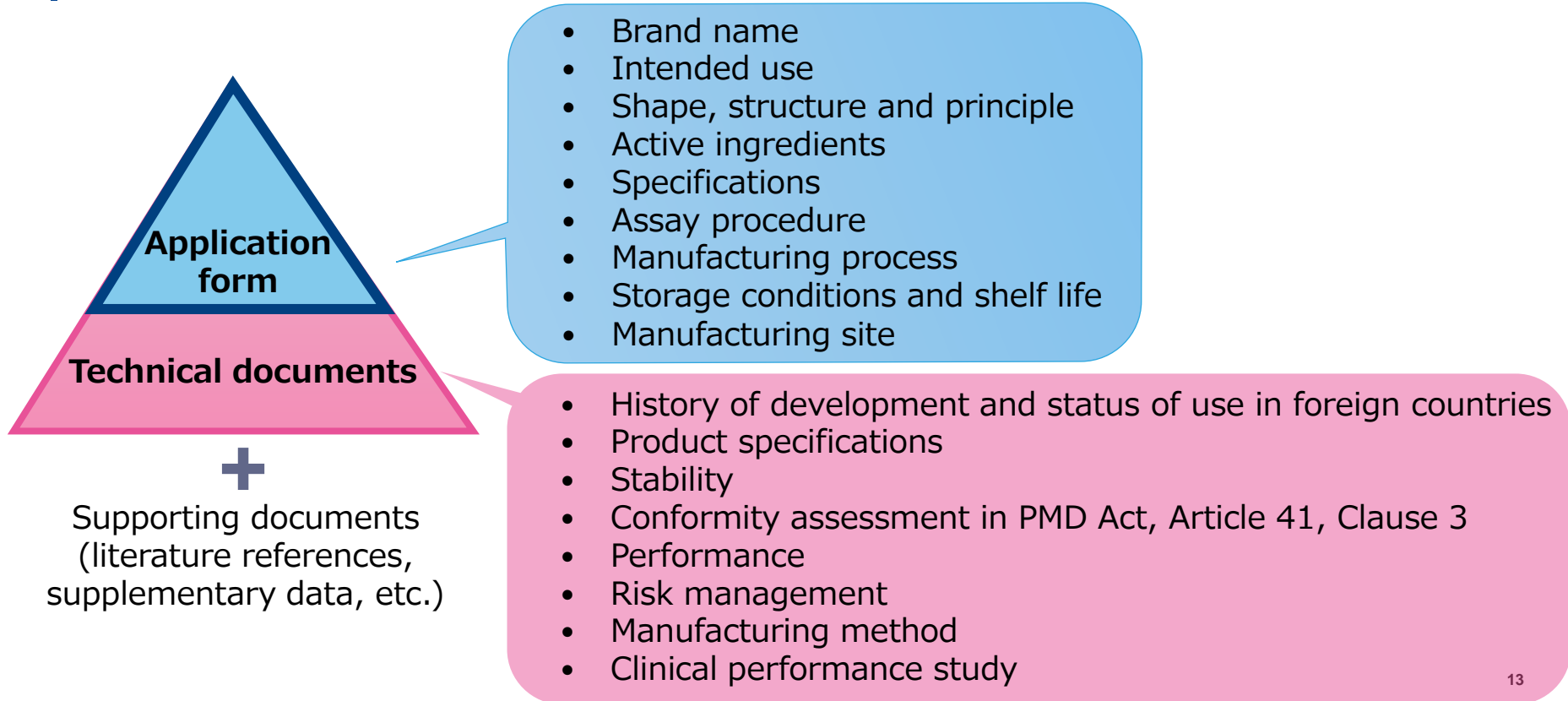
	Qualitative Assay	Quantitative Assay
Samples	> 50 Clinical Samples	
	<ul style="list-style-type: none"> Both positive and negative samples are included at least 25. Samples around cutoff value should be included. 	<ul style="list-style-type: none"> Samples should be distributed throughout the measuring range. Samples around clinical cutoff value should be included.
Comparison Method	<ul style="list-style-type: none"> At least 2 IVD should be applied. (or standardized methods can be selected) Two different principles should be selected. 	
Criteria	Concordance rate: > 90%	Correlation coefficient: > 0.9 Slope of regression line: 0.9~1.1

If the product conforms to the standard, it is possible that the product is judged as **Non-conforming products** because of a difference from approved products.

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Structure of Application Dossier



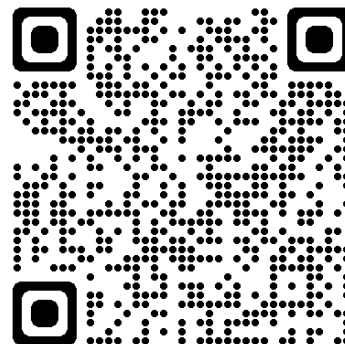
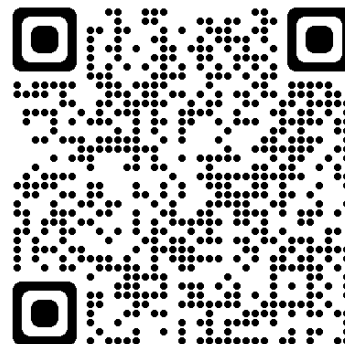
Notifications and Administrative Notices

<https://www.pmda.go.jp/english/review-services/regulatory-info/0003.html>

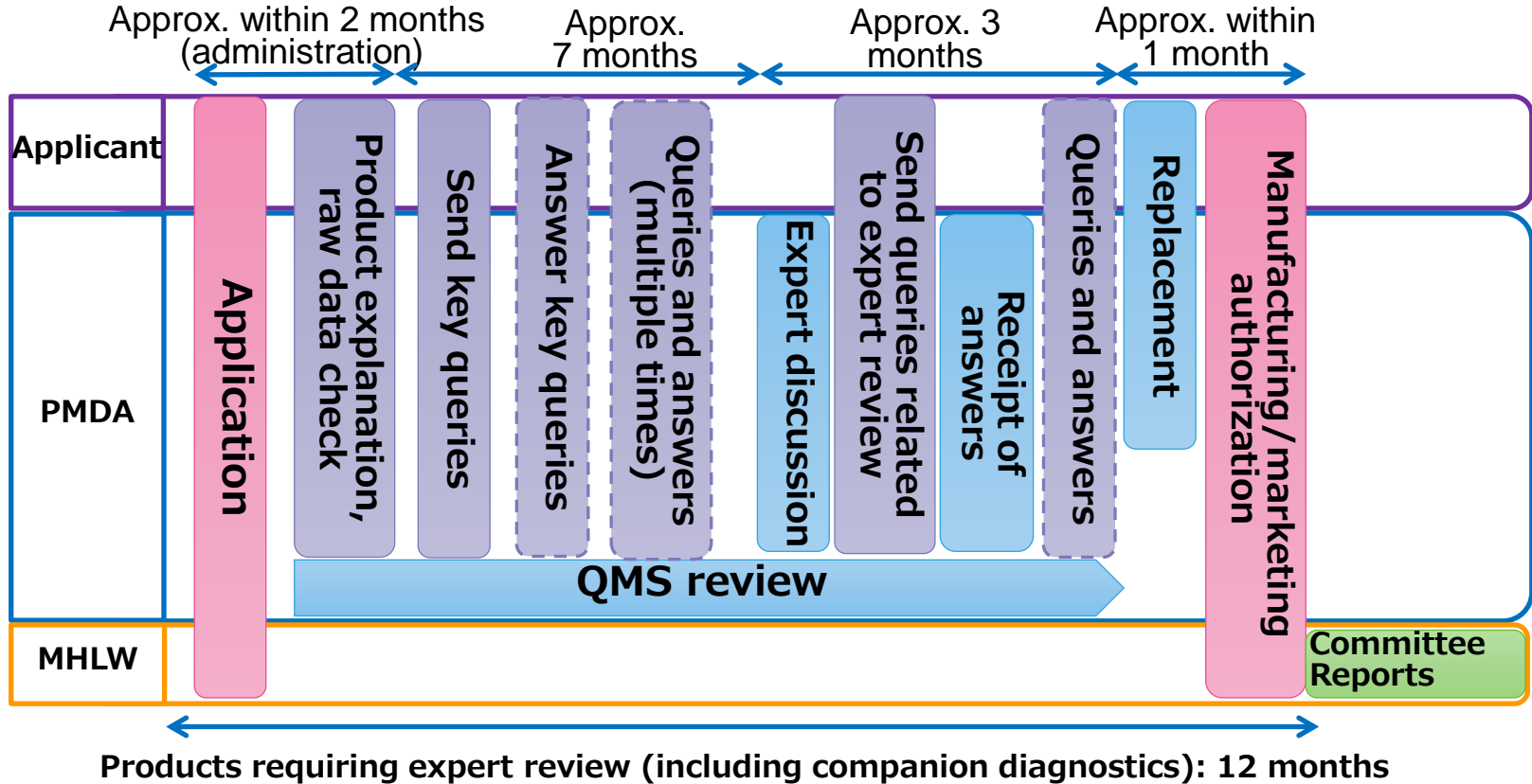
In Vitro Diagnostics

Issue Date	Document Type & No.	Title	Subject
Nov. 21, 2014	PFSB/ELD/OMDE Notification No. 1121-16	Points to Consider When Applying for Marketing Approval of <i>In Vitro</i> Diagnostics 	Regulatory submission
	PFSB Notification No. 1121-15	Applications for Marketing Approval of <i>In Vitro</i> Diagnostics 	

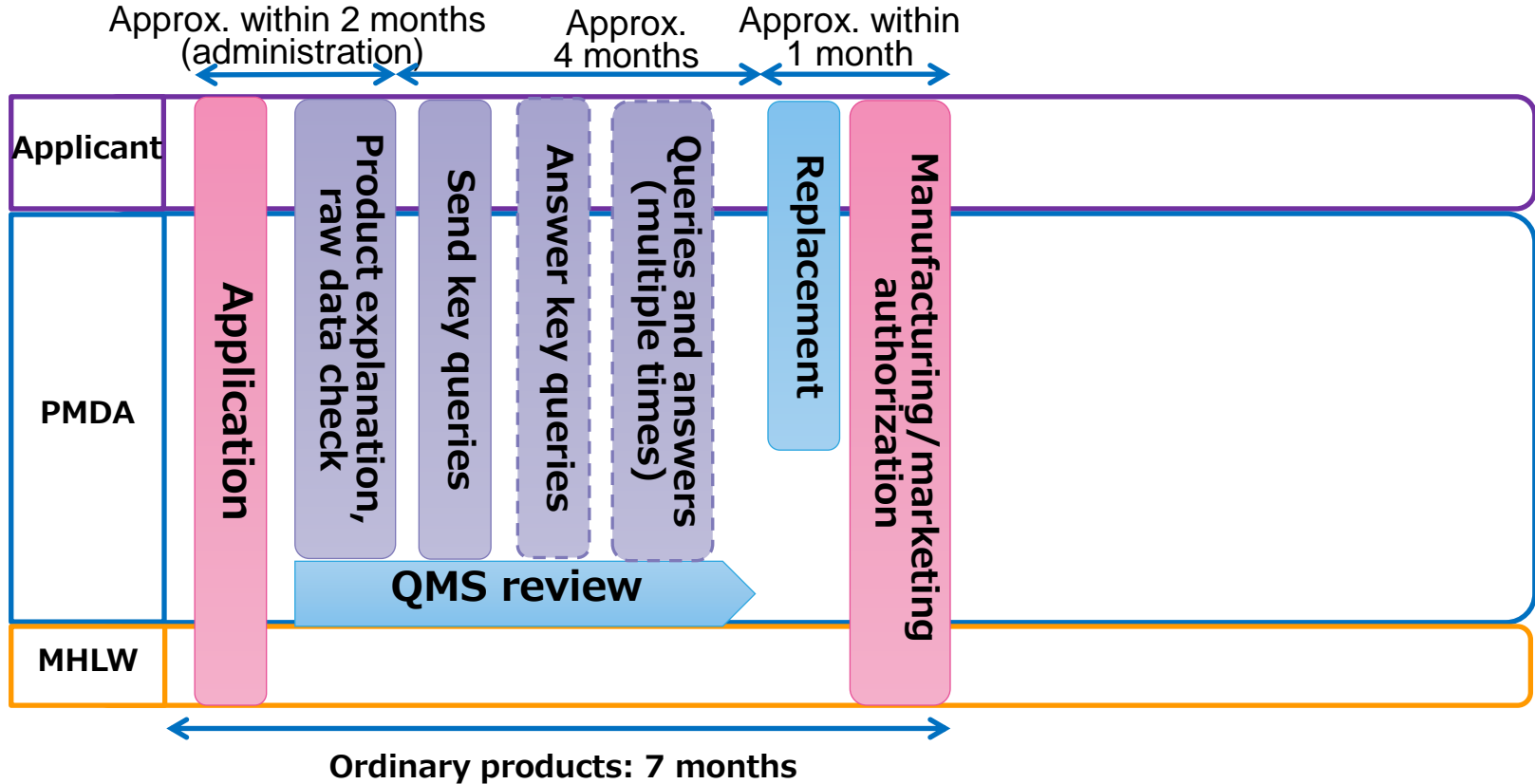
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Standard Process of Approval (12 months)



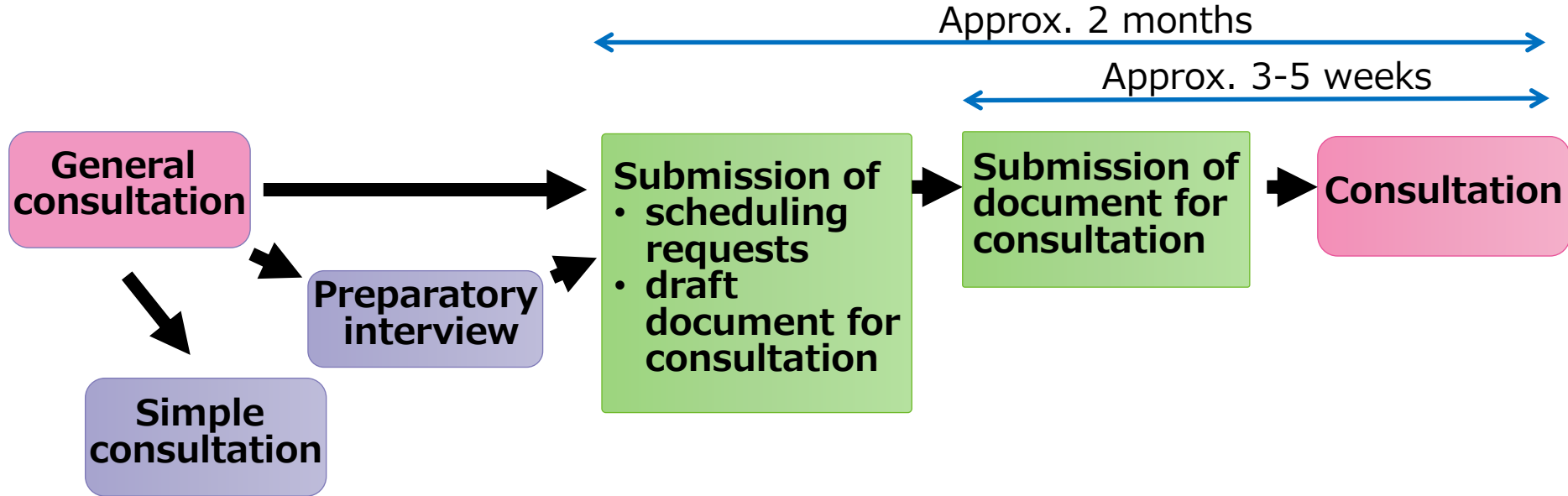
Standard Process of Approval (7 months)



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Standard Procedure of consultation (1)

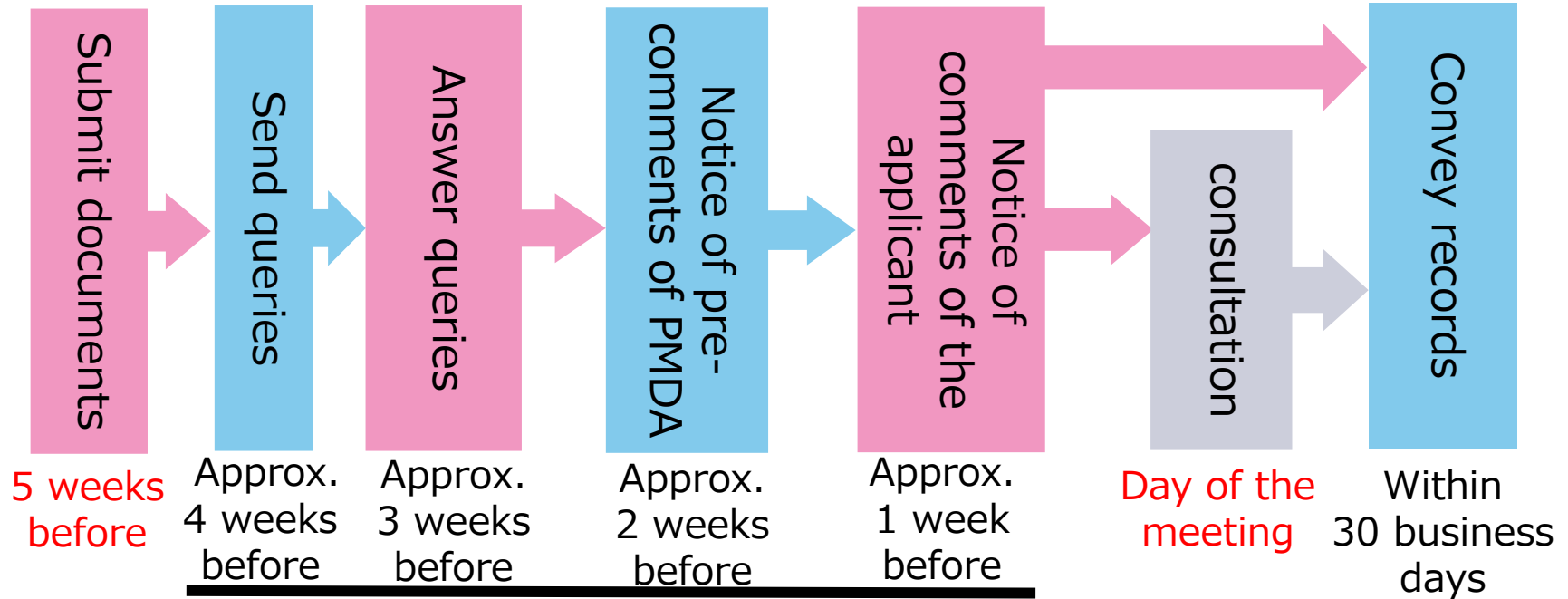


Menu of consultation

(revised on August 1, 2021)

Category		User fees (Yen)
Pre-development consultation for IVD reagents		196,000
Pre-development consultation for companion diagnostics (CDx)		293,800
CDx Package development consultation		1,541,600
Protocol consultation	Quality	127,400
	Performance (other than quality)	127,400
	Correlation	254,800
	Clinical performance study	735,300
	Clinical performance study for CDx	2,353,100
Evaluation consultation	Quality	127,400
	Performance (other than quality)	127,400
	Correlation	254,800
	Clinical performance study	440,700
	Clinical performance study for CDx	1,470,700
Application procedure		78,300
Simple consultation		39,400

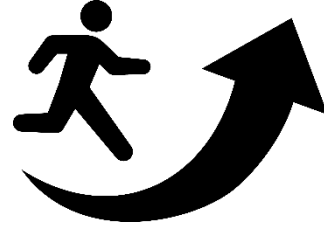
Standard Procedure of consultation (2)



The process can be ahead of/behind schedule by a few days.
Please contact consultation staff directly for a concrete schedule.
Additional queries may also be required if necessary.

Information about 30-minute free regulatory consultation at meeting room

MR1	MR2	MR3	MR4	MR5	MR6	MR8	MR9	
	Lazard	Linden Capital Partners	ServiceNow	Quest Global Services - NA Inc			Phillips	
Partnering Area								MR11 Morgan Stanley
								MR12
								PwC
								MR15 PMDA
								Johnson & Johnson
								MR17 Olympus Corporation



#MR15

PMDA

Please send your meeting request to pmda-md-intl@pmda.go.jp or via medtech app with specific questions and a preferred day/time if you are interested in having a private meeting with us.