



2024

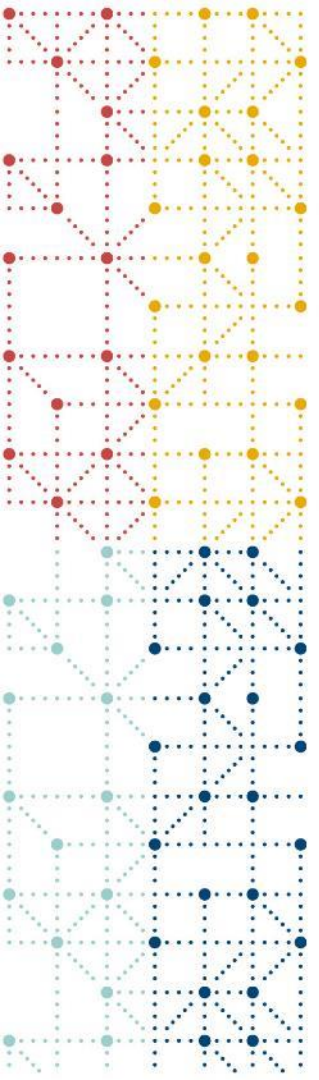
CDISC JAPAN  
INTERCHANGE

TOKYO

12-13 JUNE: CONFERENCE & EXPO | 10-11 JUNE: TRAININGS

## PMDA Update

Presented by Yoshinori Ochiai, PhD.  
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## Meet the Speaker

Yoshinori Ochiai, PhD

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He started his carrier at research institute International Medical Center of Japan as postdoctoral fellow. After postdoctoral fellow, he worked at CRO. He has worked at PMDA since 2014 and currently he works in Office of Regulatory Science Coordination.



# Disclaimer and Disclosures

- *The views and opinions expressed in this presentation are those of the author and do not necessarily reflect the official policy or position of CDISC or PMDA.*
- *The author have no real or apparent conflicts of interest to report.*



# Agenda

## Recent Update

- Revision of notification, guide, etc.
- Data Standards Catalog and PMDA Validation Rules



## Recent update

Revision of notification, guide, etc.

# Experiences of receiving e-study data

- We have not provided the number of NDAs with data submission after FY2021, but after the end of the transitional period (FY2020 and beyond), most new drug applications are submitted to PMDA with electronic study data.
- Based on the results of monitoring the use of e-study data in the new drug review offices such as the degree of how much easily data are handled by the reviewers, and also on the requests from the industry, the revisions of the notification and other documents was considered.

English versions of all documents are available at:  
<https://www.pmda.go.jp/english/review-services/reviews/0002.html>

# Notifications, Guide, FAQs

- Notification on Handling of Submission of Electronic Study Data for New Drug Applications (and Question and Answer Guide)
  - Overview of e-data submission, details of study/datasets/other contents to be submitted, eCTD, etc
  - Latest update on April 8, 2024 **New**
- Notification on New Drug Applications Using the Gateway System
  - Issues of submission with using gateway system
  - Published on April 1, 2022
- Technical Conformance Guide on Electronic Study Data Submissions
  - Details of data to be submitted and submission methods, details of eCTD related issues, etc
  - Latest update on April 8, 2024 **New**
- FAQ website
  - Supplemental explanations based on the frequently asked questions at the meeting with sponsors and the comments to the notifications and the guide
  - Latest update on April 8, 2024 **New**



# Overview of the major revisions

- For particular clinical pharmacology studies initiated prior to April 1, 2020, non-CDISC compliant data can be accepted.
- Form A had been no longer required to be submitted on and after October 1, 2023, and this is reflected in the Technical Conformance Guide.
  - Please note that any information previously provided on Form A should be described in the Reviewer's guide.
- Technical details corresponding to the revision of the notification and guide are added to the FAQs.
  - Also some internal operation changes are reflected to the FAQs.



# Revision of the notification and its Q&A guide

## Notification on Electronic Study Data

Adding new sentence

4 Standards of electronic study data to be submitted and details on the data

(1) Data standards for submission

Clinical study data subject for submission should be in a format conforming to the CDISC standards.

However, it is not applied to studies of orphan drugs, etc. that had started before April 1, 2020.

Regarding studies categorized in 2 (1) b (b) and (c) with the exception of Phase I studies of oncology drugs, the submission of electronic study data in a format other than the CDISC standards is sufficient for studies that had started before April 1, 2020.

Moreover, in data in 2 (1) b (c), the datasets on clinical pharmacological analyses may be acceptable for submission according to standards other than the CDISC standards based on the applicants' current condition of preparing analysis data.

# Revision of the notification and its Q&A guide

## Q&A regarding Notification on Electronic Study Data

Revision corresponding to the notification

Table: Types and submission formats of documents subject to electronic submission

Section in notification on electronic study data	Content	Individual clinical study data	Analysis dataset	
			Concerning efficacy and safety analysis	Concerning PK or PK/PD analysis
2 (1) b (a)	Data on results from all phase II and phase III studies (including long-term studies) that are generally regarded to be a major evidence for evaluation of efficacy, safety, and dose and administration	SDTM	ADaM	
2 (1) b (b)	Phase I studies of oncology drugs	SDTM	ADaM	
	Data on result from phase I studies and clinical pharmacology studies listed right	SDTM*1	ADaM*2	In principle, ADaM*2, but other formats may be acceptable in certain cases
	Phase I studies that have been conducted in both Japanese and non-Japanese subjects (e.g.; in case of a strategy of global clinical trials and bridging studies)			ADaM*2
2 (1) b (c)	Other Phase I studies and clinical pharmacology studies, which were deemed necessary by PMDA	SDTM*1	ADaM*2	ADaM is preferable, but other formats are acceptable
	Population analysis			Formats other than CDISC standard would be sufficient
	Physiologically-based pharmacokinetic model analysis			
2 (1) b (c)	References other than a and b, which were deemed necessary by PMDA	SDTM*3	ADaM*3	
2 (1) b (c)	Integrated summary of safety and efficacy (ISS/ISE)	SDTM*4	ADaM	

\*1: Format other than SDTM are allowed for studies with a start date (the day when the first subject was enrolled) before April 1, 2020

\*2: Formats other than ADaM are allowed for studies with a start date (the day when the first subject was enrolled) before April 1, 2020

\*3: If necessary, consult in advance

\*4: In principle, submission of the analysis dataset by ADaM is required, but if the SDTM dataset had been used for analysis, submission of SDTM dataset is acceptable

# Revision of Technical Conformance Guide

## 3. Submission of electronic study data

Deletion of unnecessary request

### 3.1 Basic flow of the submission of electronic study data

The applicant must confirm with the PMDA on the scope of the submission of electronic study data and the planned date of a new drug application by utilizing clinical trial consultations, a consultation on preparation of submission of electronic study data, and a pre-NDA consultation, etc., if necessary.

~~Applicants must outline the contents of electronic study data that will be submitted to the NDA using the “Explanation of Electronic Study Data (Form A)” on the PMDA’s website. This document should preferably be submitted at the time of the pre-NDA consultation that will be conducted before the submission of electronic study data.~~

In accordance with the notification on gateway application, the applicant shall make an advance notice of the application from the gateway system and obtain the information (e.g., in the case of the eCTD, the eCTD receipt number) required to manage the electronic files to be submitted. The applicant shall then enter and register the information related to the application and send the electronic files necessary for the application [such as application form data (hereinafter referred to as “FD application data”), eCTD, and electronic study data] using the gateway system.



# Major revisions of FAQs

- Newly added
  - FAQ4-32-1: Details of submission of non-CDISC data for particular clinical pharmacology studies initiated prior to April 1, 2020
  - FAQ5-34: Possibility of not submitting the datasets before the model update if the dataset of a population analysis after the model update has been submitted
- Revision
  - FAQ1-16, 1-18: Reflection of operation change of reviewing validation results
  - FAQ1-23: Removal of request for specific details of the validation results

# Consultation for e-data after the transitional period

Year	Data format	Preparation	Exemption	Total
J-FY 2020 (Apr 1, 2020 – Mar 31, 2021)	207	57	18	282
J-FY 2021 (Apr 1, 2021 – Mar 31, 2022)	Change of Operation 10*	28	16	54
J-FY 2022 (Apr 1, 2022 – Mar 31, 2023)	0	16	17	33
J-FY 2023 (Apr 1, 2023 – Mar 31, 2024)	0	12	8	20

\* Consultations for which requests were received by March 2021 and conducted in this FY, or for which a pre-NDA meeting was not anticipated.

The number of consultation on preparation, that we discuss strategies and methods of storing data and technical details, etc., is decreasing.

We think that basically we are sharing sufficient information for e-study data submission with sponsors and will continue to do that.

# Points to consider when preparing and submitting data

Although the number of inquiries regarding e-study data has been decreasing due to operational changes related to the CDISC data validation, PMDA are still sending inquiries to the applicants particularly related to the following points. Please be careful when preparing and submitting e-study data.

- Discrepancy in the versions of the standards between the Reviewer's Guide and the define.xml.
  - Especially the version of WHODrug Global
- Discrepancy between the description in the Reviewer's Guide and the submitted datasets.
  - Datasets which are not described in the Reviewer's Guide are submitted.
  - Datasets which are described in the Reviewer's Guide are not submitted.
- SDTM datasets (AE, DM, EX) are stored in duplicate in the ADaM datasets folder.
- Custom domains or domains of Trial Design Model are not explained in Study Data Reviewer's Guide (SDRG).
- Analysis environment or software used are not described in Analysis Data Reviewer's Guide (ADRG).



## Recent update

Data Standards Catalog and PMDA Validation Rules



# Recent update of Data Standards Catalog, etc.

- New Data Standards Catalog on March 29, 2024
  - This includes the new standard version, [ADaM IG v1.2, 1.3, and Define-XML v2.1](#) with their [Date Support Begins, April 1, 2024](#). They are acceptable for new drug applications whose application date is on or after April 1, 2024.
- New PMDA Validation Rules on March 29, 2024
  - Corresponding to the new Data Standards Catalog
  - It includes the rules for [ADaM IG v1.2, 1.3, and Define-XML v2.1](#).
- Change of the regulation for the validation by applicants on April 1, 2024
  - Removal of the restriction that a single version of the PMDA validation rules should be used for validation by applicant before submission, for multiple clinical trials in one submission
- Minor update of PMDA validation engine on December 15, 2023
  - From PMDA 2211.0 to PMDA 2211.1, to resolve report output issue



# New Data Standards Catalog (2024-03-29)

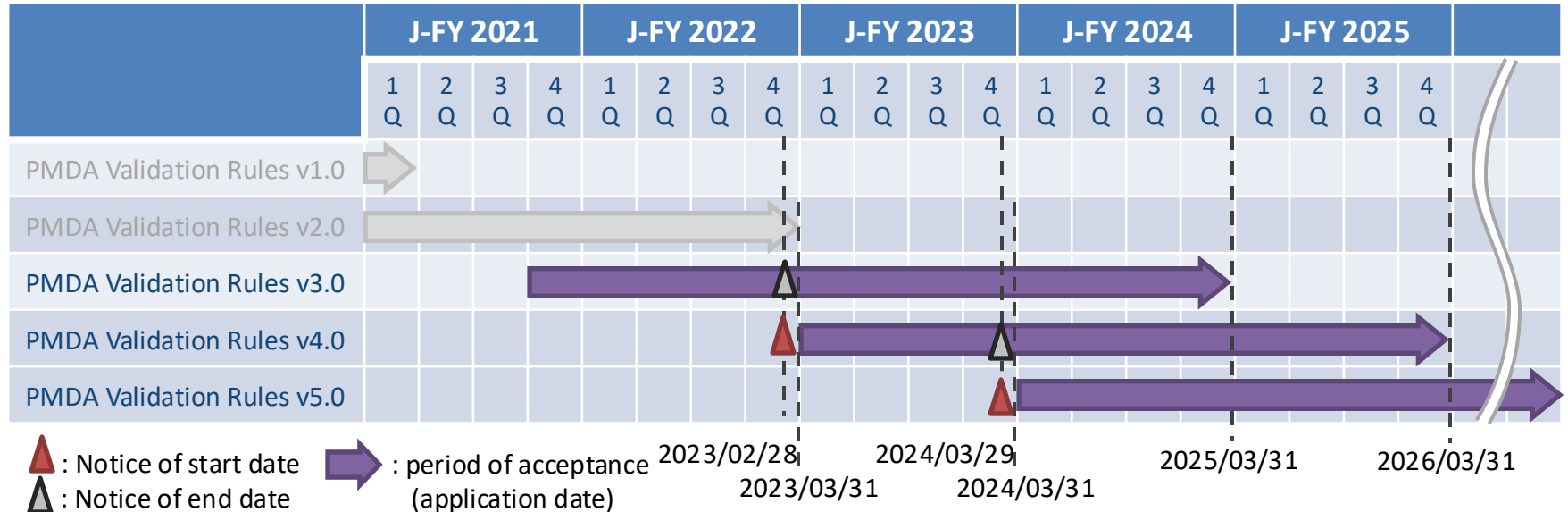
PMDA Data Standards Catalog (2024-03-29) - Data Exchange Standards

Use	Data Exchange Standard	Supported Version(s)	Implementation Guide Version	Exchange Format	Date Support Begins (YYYY-MM-DD)	Date Support Ends (YYYY-MM-DD)	Notes
Clinical study datasets - Transport	SAS Transport (XPORT)	5	-	XPT	2016-10-01		
Clinical study datasets	SDTM	1.7	3.3	XPT	2023-04-01		
Clinical study datasets	SDTM	1.4	3.2	XPT	2016-10-01		
Clinical study datasets	SDTM	1.3	3.1.3	XPT	2016-10-01		
Clinical study datasets	SDTM	1.2	3.1.2 Amendment1	XPT	2016-10-01		
Clinical study datasets	SDTM	1.2	3.1.2	XPT	2016-10-01		
Clinical study datasets	ADaM	2.1	1.3	XPT	2024-04-01		
Clinical study datasets	ADaM	2.1	1.2	XPT	2024-04-01		
Clinical study datasets	ADaM	2.1	1.1	XPT	2022-01-01		
Clinical study datasets	ADaM	2.1	1.0	XPT	2016-10-01		
Clinical study data definition files	Define	2.1	-	XML	2024-04-01		
Clinical study data definition files	Define	2.0	-	XML	2016-10-01		
Clinical study data definition files	Define	1.0	-	XML	2016-10-01	2025-03-31	
Documents	PDF	1.4-1.7	-	PDF	2016-10-01		In principle, eCTD PDF specification should be referenced for details.




# PMDA Validation Rules v5.0

- PMDA Validation Rules v5.0 including ADaM IG v1.2, 1.3, and Define-XML v2.1 was published.
- Additionally, it was announced that the PMDA Validation Rule 4.0 can be used until March 31, 2026.










# Update of Data Standards Catalog and PMDA Validation Rules (on March 29, 2024)

## Data Standards Catalog and Study Data Validation Rules

- [Data Standards Catalog \(2024-03-29\) \[24.6KB\]](#)  
- Study Data Validation Rules

Please note that when submitting electronic study data to the PMDA via the gateway system, only one version of the validation rules must be selected for a single application, even if it involves multiple studies. Also, when additionally submitting electronic study data after the application, the version of the validation rules at the time of the application must be selected.

For the validation and the explanation of the results performed by applicant prior to submission, all versions of the validation rules, including those that have already been closed for acceptance, can be used for each study.

- [Version 1.0 \(2015-11-18\) \[82.0KB\]](#)  Acceptable from Oct 1, 2016 to Mar 31, 2021 (application date)
- [Version 2.0 \(2019-09-27\) \[97.9KB\]](#)  Acceptable from Apr 1, 2020 to Mar 31, 2023 (application date)
- [Version 3.0 \(2021-12-15\) \[103KB\]](#)  Acceptable from Jan 1, 2022 to Mar 31, 2025 (application date)
- [Version 4.0 \(2023-02-28\) \[112KB\]](#)  Acceptable from Apr 1, 2023 to Mar 31, 2026 (application date) 
- [Version 5.0 \(2024-03-29\) \[124KB\]](#)  Acceptable from Apr 1, 2024 (application date) 

# Changes of internal operation of validation and rule versions available for prior validation

We changed the internal operations regarding CDISC data validation and the following statement was added to the website:

“For the validation and the explanation of the results performed by applicant prior to submission, all versions of the validation rules, including those that have already been closed for acceptance, can be used for each study.”

The changes are based on the following experiences and assumption:

- Validation rules are becoming more stable.
- The rules for the same version of the standards are basically the same between the versions of validation rules
- We have accumulated experience and further understanding of the validation rules and the differences between versions (in case there are).
- We believe that the prior validation by applicants with any of the versions of PMDA validation rules will provide a certain amount of information about the quality of the data.

# Point to consider regarding the changes

Please note the following point regarding the changes of operation.

The version of the standard that can be used at the time of application is based only on the Data Standards Catalog.

For the prior validation, applicants can use the past validation rules that are no longer accepted. However, at the time of application, the standard versions that are no longer accepted at that time (based on the Data Standards Catalog) can not be.

e.g., The Date Support Ends for Define-XML v1.0 is March 31, 2025. To prepare for the application after April 1, 2025, applicants can use the validation rules version 1.0 to 3.0 corresponding to Define-XML v1.0 for validation and explain the “Error.” However, this does not mean that Define-XML v1.0 can be used in a study for the application after April 1, 2025.



# Point to consider regarding selection of version of validation rules

Please also note the following point regarding the version of validation rules.

“... only one version of the validation rules must be selected for a single application, even if it involves multiple studies” in the gateway system, and no change has been made in this point.

At the time of application, please select the validation rule that corresponds to the versions of the standards used in all studies included in the application.

If the selected validation rule does not correspond to the versions of the standards used for the studies, “abnormal termination of validation” will be caused.

Please pay attention also to the validation rule selection at the data submission. We have experienced such cases recently.

# Update of Data Standards Catalog and PMDA Validation Rules (on March 29, 2024)

- CDISC Data Validation Software

The software that PMDA is using is Pinnacle 21 Enterprise 5.1.2, and the engine corresponding to the validation rules are as follows.

- PMDA 1511.6 (Validation Rule Version 1.0)

- PMDA 1810.3 (Validation Rule Version 2.0)

- PMDA 2010.2 (Validation Rule Version 3.0)

- PMDA 2211.1 (Validation Rule Version 4.0)

- PMDA 2311.0 (Validation Rule Version 5.0) ←

On December 15, 2023, PMDA changed the engine from PMDA 2211.0 to PMDA 2211.1 for validation rule version 4.0. This change is intended to resolve an issue of report output and does not change validation results.

Therefore, if the validation has been already performed using the previous PMDA 2211.0, there is no need to perform the validation again using the current PMDA 2211.1.

# New and old versions of CDISC standards

- PMDA plans to include the new versions of CDISC standards in the PMDA Data Standards Catalog after the investigation of their impact and development of the validation rules.

	Standards	Status
New	SDTM v2.0 & SDTM IG v3.4	<ul style="list-style-type: none"><li>• Updated contents have been reviewed</li></ul>
Old	-	

The schedules for each standard will be announced as soon as they are finalized.



# Summary

- Advanced Review with Electronic Data Project has been executed successfully.
  - So far, no major problems have arisen in the receipt and use of electronic study data.
- The PMDA is constantly considering how to optimize the procedure in the PMDA and the data preparation in the industry, based on the experience of data submission and receipt and dialogue with the stakeholders.
  - Revisions of the notification and other documents have been appropriately implemented.
- We appreciate your continual cooperation and collaboration regarding the preparation for the submission of standardized study data.
- The PMDA will continue to provide clear and useful information on data submission for the stakeholders so that the submitted data can be better used in the new drug review by the reviewers.



# Thank You!

New Drug Review with Electronic Data, PMDA

<https://www.pmda.go.jp/english/review-services/reviews/0002.html> (English)

<https://www.pmda.go.jp/review-services/drug-reviews/about-reviews/p-drugs/0003.html> (Japanese)

The logo for CDISC, featuring the lowercase letters "cdisc" in a dark blue, sans-serif font. Above the letter "i" are three small colored dots: a red one on the left, a yellow one in the middle, and a light green one on the right.