Notification No. 0427001 April 27, 2015

To: Prefectural Health Department (Bureau)

Director of the Advanced Review with Electronic Data Promotion Group,
Pharmaceuticals and Medical Devices Agency

Technical Conformance Guide on Electronic Study Data Submissions

Basic principles on the submission of electronic study data for new drug applications have been notified in "Basic Principles on Electronic Submission of Study Data for New Drug Applications" (PFSB/ELD Notification No. 0620-6, by the Director of Evaluation and Licensing Division, Pharmaceutical and Food Safety Bureau, Ministry of Health, Labour and Welfare, dated June 20, 2014) (hereinafter referred to as notification of basic principles), and "Question and Answer Guide Regarding [Basic Principles on Electronic Submission of Study Data for New Drug Applications]" (Administrative Notice by the Evaluation and Licensing Division, Pharmaceutical and Food Safety Bureau, Ministry of Health, Labour and Welfare, dated June 20, 2014), and practical matters on the electronic study data submission have been notified in "Notification on Practical Operations of Electronic Study Data Submissions" (PFSB/ELD Notification No. 0427-1, by the Director of Evaluation and Licensing Division, Pharmaceutical and Food Safety Bureau, Ministry of Health, Labour and Welfare, dated April 27, 2015) (hereinafter referred to as notification on practical operations) and "Question and Answer Guide Regarding [Notification on Practical Operations of Electronic Study Data Submissions ]" (Administrative Notice by the Evaluation and Licensing Division, Pharmaceutical and Food Safety Bureau, Ministry of Health, Labour and Welfare, dated April 27, 2015). More detailed matters and precautions regarding submission of electronic study data for new drug applications have been compiled as shown in the appendix; therefore, we ask you to inform manufacturers and sellers placed under your administration.

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Appendix

Technical Conformance Guide on Electronic Study Data Submissions

#### 1. Introduction

#### 1.1 Purpose

Basic principles on the submission of electronic study data for new drug applications have been described in the notification of basic principles and its question and answer guide, and practical matters on electronic study data submission have been described in the notification on practical operations and its question and answer guide. More detailed matters and precautions regarding the submission of electronic study data for new drug applications are provided in this guide.

With the requirement to submit electronic study data for a new drug application, attachments to a new drug application of a product subject to submission of electronic study data, in principle, should also be submitted in accordance with the eCTD, and detailed matters and precautions concerning the submission of electronic files, including the eCTD, shall be described together in this guide.

#### 1.2 Scope

The scope of this guide will include detailed matters and precautions on the submission of electronic study data for a new drug application and detailed matters and precautions regarding the submission of electronic files related to the subject product, including the eCTD. Various lists, tools, and links for the necessary files related to the content of this guide will be posted separately on the PMDA's website (http://www.pmda.go.jp/), which should also be referred to.

#### 1.3 Definitions of terms

The system of terms used in this guide is shown in Attachment 1.

The terminology used in this guide, in principle, is the same as that used in the notification of basic principles and the notification on practical operations. However, because this guide includes detailed matters and precautions regarding the submission of relevant electronic files, including the eCTD, in addition to matters regarding the submission of electronic study data for new drug applications, "electronic data" in the notification of basic principles and the notification on practical operations will be described as "electronic study data" in this guide to prevent the confusion of the terminology.

#### 2. System requirements necessary for the submission of electronic study data

#### 2.1 Basic system requirements

Upon the submission of electronic study data for a new drug application, the applicant shall prepare a computer connected to the Internet.

- Network device that supports HTTPS and UDP ports
- Anti-virus software
- Printer

#### 2.2 Recommended environment

- OS newer than Microsoft Windows 7 SP1 or Windows 8.1
- Microsoft Internet Explorer 11
- Adobe Reader
- Electronic application software (FD application software)
- PC which can perform the above operations

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#### 2.3 Method of obtaining a portal site account and electronic identification

There are three categories of portal site accounts (hereinafter referred to as user ID): company manager, company user manager, and company user. The applicant can register a company manager by a desired unit of management and register and manage the company user manager and company user for each management unit.

To register the user ID and use the portal site, the applicant will require electronic identification. Medicertified electronic identification issued by the Medical Information System Development Center may be used as an electronic identification. The applicant will be responsible for managing their own user ID, password, and electronic identification.

#### 2.4 Method of the submission of electronic study data

The applicant can submit the electronic study data by the method specified in 2. (2) of the notification on practical operations. However, when submitting data by the method shown in 2. (2) b. of notification on practical operations, the acceptable recording media, in principle, are DVD-R/RW or BD-R/RE (including multi-layer disks, respectively). Consult beforehand if you wish to submit in any other medium.

#### 3. Submission of electronic study data

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

The applicant must discuss and confirm with the PMDA on the scope of the submission of electronic study data and the planned date of a new drug application, in principle, at the meeting prior to pre-NDA consultation and also by utilizing clinical trial consultations and consultation on data format of the submission of electronic study data, if necessary.

Then, the applicant shall make an advance notice of the application from the portal site from 3 weeks to 1 week before the scheduled application date set by the applicant 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 in the new drug application. The applicant shall then enter and register the information related to the application and transfer the electronic files necessary for the application [such as new drug application form data (hereinafter referred to as "FD application data"), eCTD, and electronic study data] over the portal site.

The FD application data should be submitted in the format specified in "Recording Items and Code Table for Application Using Flexible Disks" (PFSB/ELD Notification No. 1027-1, by the Director of Evaluation and Licensing Division, Pharmaceutical and Food Safety Bureau, Ministry of Health, Labour and Welfare, dated October 27, 2014) and "Handling of Flexible Disk Applications" (PFSB/ELD Notification No. 1027-3, by the Director of Evaluation and Licensing Division, Pharmaceutical and Food Safety Bureau, Ministry of Health, Labour and Welfare, dated October 27, 2014).

#### 3.2 Method of the submission of electronic study data

When referencing the electronic study data from the XML backbone of the eCTD, the method of submission will be specified separately. When submitting the eCTD and the electronic study data separately, these must be submitted, respectively, via the portal site.

#### 3.3 Submission of electronic study data via the portal site

When submitting the electronic study data, the applicant must register, select, or enter the following additional information on the portal site. Examples of such additional information are as follows. Not all items need to be registered, selected, or entered at each submission.

- Original/draft response and attachments
- Gateway receipt number

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- Information for identifying to which file the data is appended (such as eCTD receipt number, submission serial number, CTD section number, study number, study title, inquiry number)
- Identifier of each file (UUID defined by ISO/IEC 11578:1996 and ITU-T RecX.667 | ISO/IEC 9834-8:2005)
- Position of the electronic study data (such as addition, replacement, deletion)
- Identifiers of data subject to replacement or deletion
- File path
- Data analysis type
- Explanation of the file content

After registering, selecting, or entering the above details, register the "m5" folder containing the electronic study data to be submitted on the portal site and send it to the PMDA. The specific operations to be performed on the portal site will be specified separately.

#### 3.4 File size of the electronic study data

Of the electronic study data to be submitted to the PMDA, files other than datasets must not exceed the maximum file size of PDF specified in the "Electronic Common Technical Document Specification" (PSB/ELD Notification No. 0604001, by the Director of Evaluation and Licensing Division, Pharmaceutical Safety Bureau, Ministry of Health, Labour and Welfare, dated June 4, 2003) (hereinafter referred to as "eCTD notification") and "Handling of Electronic Common Technical Document Specification" (PFSB/ELD Notification No. 0527004, by the Director of Evaluation and Licensing Division, Pharmaceutical and Food Safety Bureau, Ministry of Health, Labour and Welfare, dated May 27, 2004) (hereinafter referred to as "notification on handling of eCTD"). Consult the PMDA beforehand if the dataset is 5 gigabytes or greater.

## 3.5 Folder structure

In principle, electronic study data should be submitted after storing it in the following folder structure, and no additional subfolders should be created. If storing the data in the following folder structure is difficult, the applicant must consult the PMDA beforehand and make a submission after agreeing on the folder structure and the storage of files. Hierarchies down to "m5¥datasets¥[study id / iss / ise]"cannot be changed.

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Note the following points when storing the electronic study data into the abovementioned folder structure.

- The path length counting from the "m5" folder, including the file name, must be 160 characters or shorter.
- Folder name and file name should be 32 characters or fewer (including extension), and the name excluding the dot and the extension must comprise the following characters.
  - Alphabetic characters from "a" to "z" [U+0061 to U+007A]
  - Numbers from "0" to "9" [U+0030 to U+0039]
  - > Low line "\_" [U+005F]
- The data guide, define.xml, and style sheet must be stored in the same folder as their corresponding dataset. The style sheet should display the information in the define.xml, which is to be submitted to the PMDA.
- If there is no file to store the data, this folder should not be created.
- When storing the electronic study data in the field of clinical pharmacology in a format other than the CDISC standard, one example is to create and store it in a "cp" folder under the "analysis" folder as mentioned in the table below. In such a case, there will be no special restriction on the folder structure within the "cp" folder. The method of storing the data is not limited to that mentioned above. However, regardless of the method of storage, the above considerations on path length, folder name, and file name must be followed. It is preferable to consult the PMDA beforehand on the method of storing the data.

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The usage method of each folder is as follows.

| The usage method of ear Folder name | Hierarchy | Description Description                                  |
|-------------------------------------|-----------|--|
| m5                                  | 1         | Shows that the electronic study data in this folder      |
|                                     | 1         | belongs to the CTD Module 5. This folder should not      |
|                                     |           | contain any files other than lower folders.              |
| datasets                            | 2         | Folder for storing the electronic study data.            |
| datasets                            | 2         | This folder should not contain any files other than      |
|                                     |           | lower folders.   |
| [study id / iss / ise]              | 3         | Folder created for each study or for each integrated     |
|                                     | 3         | analysis results. Folder name should be the study        |
|                                     |           | number (such as study123) or the type of analysis        |
|                                     |           | (such as iss, ise) that allows the unique identification |
|                                     |           | of each study.   |
|                                     |           | This folder should not contain any files other than      |
|                                     |           | lower folders  |
| analysis                            | 4         | Folder for storing analysis datasets and programs.       |
| anarysis                            |           | This folder should not contain any files other than      |
|                                     |           | lower folders  |
| adam                                | 5         | Folder for storing ADaM datasets and programs.           |
| adam                                | 3         | This folder should not contain any files other than      |
|                                     |           | lower folders  |
| datasets                            | 6         | Folder for storing ADaM datasets.                        |
|                                     | 6         | Folder for storing programs related to ADaM              |
| programs                            |           | datasets, tables, or figures.                            |
| adam j                              | 5         | Folder for storing the Japanese dataset that             |
| adam_j                              | 3         | corresponds to the alphanumeric ADaM dataset. This       |
|                                     |           | folder should not contain any files other than the       |
|                                     |           | Japanese ADaM dataset.                                   |
| ср                                  | 5         | Folder for storing electronic study data on clinical     |
| CP                                  |           | pharmacology in formats other than the CDISC             |
|                                     |           | standard.  |
| legacy                              | 5         | Folder for storing analysis datasets and programs in     |
| leguey                              |           | formats other than ADaM.                                 |
|                                     |           | This folder should not contain any files other than      |
|                                     |           | lower folders.   |
| datasets                            | 6         | Folder for storing analysis datasets in formats other    |
| datasets                            |           | than ADaM.   |
| programs                            | 6         | Folder for storing programs related to analysis          |
| programs                            |           | datasets, tables, and figures in formats other than      |
|                                     |           | ADaM.  |
| misc                                | 4         | Folder for storing data which is not appropriate for     |
|                                     |           | storage in the analysis or tabulations folder.           |
| tabulations                         | 4         | Folder for storing datasets in which subject data and    |
|                                     |           | study-related information are displayed in a             |
|                                     |           | tabulation format.                                       |
|                                     |           | This folder should not contain any files other than      |
|                                     |           | lower folders.   |
| legacy                              | 5         | Folder for storing non-SDTM datasets which are in a      |
| 14844)                              |           | list format.   |
| sdtm                                | 5         | Folder for storing SDTM datasets.                        |
| J                                   |           | <u>G</u>   |

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| Folder name | Hierarchy | Description  |
|-------------|-----------|--|
| sdtm_j      | 5         | Folder for storing the Japanese dataset that       |
| _           |           | corresponds to the alphanumeric SDTM dataset. This |
|             |           | folder should not contain any files other than the |
|             |           | Japanese SDTM dataset.                             |

#### 3.6 Validation of the electronic study data

Electronic study data, which is submitted via the portal site, will be validated according to the type of data. The results of the validation will be notified to the applicant via the portal site. The electronic study data, which violates the rules shown in 3.6.1 (a), should be corrected prior to the submission of a new drug application and, preferably, all data should be resubmitted.

If an error occurs during data transfer or while operating the portal site, use the contact form on the portal site for directions.

#### 3.6.1 Validation of CDISC-conformant data

The PMDA will perform validation of CDISC-conformant data using OpenCDISC Enterprise.

The rules used for validation have been classified by the level of importance taking into consideration the characteristics of each rule and based on conformity to the standards, ease of use of the data in review, quality of the clinical study data which the PMDA must know beforehand, and future uses of the clinical data by the PMDA. The levels of importance are shown below.

(a) Rules which, if violated, will cause the review to be suspended until corrections have been made

Very basic rules such as the presence/absence of necessary datasets for each clinical study

(b) Rules which, if violated without any prior explanation, will cause the review to be suspended until corrections have been made

In many cases, these rules are clearly stated in each standard and implementation guide, and if violated, the applicant should consult the PMDA before the application about the reason for the violation and the reason why it is not possible to correct it. These rules must also be explained in the data guide.

(c) Rules which, even when violated, will not necessarily require any explanation The reason for the violation may be requested separately for the above (c) from the perspective of the quality of the clinical study data.

Details of the environment in which the PMDA performs validations, individual rules and their importance are published on the PMDA's website (http://www.pmda.go.jp/). Before transferring the electronic study data, the applicant should perform a validation, and necessary explanation should be given for any violations that are identified. Keep in mind that these rules may continue to be revised and that validation should always be performed after confirming the latest information. If any rules are revised, the content of the revision will be available for a certain period before the revised rules are applied.

#### 3.6.2 Validation of the electronic study data on clinical pharmacology

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"Explanation of electronic study data package on clinical pharmacology," which must be submitted along with the electronic study data on clinical pharmacology, will be confirmed by the PMDA to ensure that all the items shown in 4.2.1 have been provided as information of each submitted file.

### 3.7 Measures and the method of application in case of system failure

If the devices that comprise the portal site or the line connecting the Internet with the data center where these devices are installed and managed fail, it may not be possible to electronically submit the application data. In such a case, the data will be received and processed by the PMDA window. Therefore, submit the documents and files recorded in an electronic medium necessary for application as a single set.

#### 4. Electronic study data to be submitted

#### 4.1 CDISC-conformant electronic study data and relevant documents

#### 4.1.1 Datasets to be submitted

#### **4.1.1.1 Overview**

CDISC standards should be used for the submission of clinical study data. For the latest standards and implementation guide (IG) of CDISC and the development status, refer to the CDISC's website (http://www.cdisc.org/).

CDISC provides SDTM as the standard for datasets comprising clinical study data collected from the CRF and other records in a tabulation format and ADaM as the standard for analysis datasets. Data should be summarized using the designated variables and submitted in accordance with the versions of SDTM and ADaM standards and IG that are accepted by the PMDA.

To avoid the complication of having to convert the collected data into a CDISC-conformant format upon application, it is preferable to decide on the method of data collection and analysis procedures that will conform to these standards from the planning stage of the clinical study. However, these standards do not indicate the items of the clinical study data required for the review. Therefore, the items of data to be collected from each clinical study must be established, which enables efficacy and safety evaluations of the drug and ensures the subjects' safety, by taking into consideration the characteristics of the target disease and the drug. If there are multiple methods of implementation based on the clinical study design or characteristics of the data to be collected or if some aspects of the dataset cannot or may not conform to the standards or IG upon creating a dataset conforming to these standards, the applicant should consult the PMDA beforehand.

#### 4.1.1.2 SDTM datasets

The SDTM dataset is to be submitted, after the data collected from the CRF and other records are stored into the domain using variables designated by the version of SDTM and SDTM IG. The applicant may manage the clinical study data using their own unique format that includes SDTM, but even in such cases, the dataset to be submitted must be converted into formats that are in accordance with SDTM and SDTM IG.

In SDTM, the variables are classified into Required, Expected, and Permissible. If the variables contain collected data, the data for all variables must be submitted to the extent possible, regardless of the classification. Of the Permissible and Expected variables, the following must be submitted to the extent possible.

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- Baseline flags (such as laboratory results, vital signs, ECG, pharmakokinetic concentration, and microbiology results)
- EPOCH designator (variables that designate the period)
- If the dataset contains --DTC, --STDTC, and --ENDTC variables, the corresponding Study Day variables (--DY, --STDY, and --ENDY)

SDTM dataset stores the data obtained in the study and does not include values used to impute missing data. Imputed data should be included in the ADaM dataset.

Basic rules of SDTM should be followed, for example, dates must be in accordance with ISO 8601 format, --DY must not contain 0, and even when the data was collected as Yes/No in the CRF, it must be stored as Y/N in SDTM dataset.

USUBJID has been prepared as a variable for storing the unique ID assigned to each individual subject across the entire application. It enables the data of one subject in multiple studies, for example, in a phase III study and the subsequent long-term study, to be summarized. Therefore, consideration should be given to ensure that each subject has the same USUBJID across all the studies in the application to the extent possible.

In SDTM, the domains of the Trial Design Model, such as TS domain, store information on the designs of clinical studies and thus contain useful information on the characteristics of the clinical studies. Its data should, therefore, be stored in accordance with the IG to the extent possible and be submitted.

In SDTM, it is possible to set a series of datasets called SUPPQUAL to include variables that are not specified in SDTM. These datasets may be used for data that cannot be allocated to each of the domains of SDTM. However, basically, variables related to main analyses should not be included in such datasets. If an applicant is considering to include a variable which is not mentioned specifically in the IG but may be important for the review in the SUPPQUAL, the applicant should consult the PMDA beforehand, and if the variable has been included in the SUPPQUAL, this should preferably be explained in the data guide.

Depending on the characteristics of the collected data, it may not fit into an existing domain of SDTM. In such a case, it is acceptable for the applicant to create a custom domain. To perform this, the applicant must confirm that the data does not fit into an existing domain, then create a custom domain according to the SDTM IG, and store the data under this domain. Explanation of the custom domain, together with the reason why it was necessary, should be described in the data guide. Also, when considering storing data under a custom domain, it is preferable to consult the PMDA beforehand.

#### 4.1.1.3 ADaM datasets

The analysis datasets should be submitted after they are constructed in accordance with ADaM. It is not necessary to submit ADaM datasets for all analyses described in the statistical analysis plan. However, ADaM datasets should be submitted for analyses performed to obtain important results on efficacy and safety and clinical study results that provide the rationales for setting of the dosage and administration, such as primary efficacy analysis and secondary efficacy analyses (secondary analyses of primary variable and analyses of key secondary variables), primary safety analyses and basic analyses

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of adverse events, and analyses to investigate the effect of major factors on efficacy and safety. The applicant should preferably consult the PMDA beforehand on the sufficiency of the datasets to be submitted. Even when the analysis results in the clinical study report had been created using datasets other than ADaM datasets, for analyses related to the rationales for setting of the dosage and administration mentioned above, the analysis datasets based on ADaM that can reproduce these results should be submitted. It is not necessary to submit additional analysis datasets for analyses that the applicant performed after the new drug application in response to inquiries.

In ADaM, there is a dataset called Analysis Data Subject Level (ADSL), which contains subject level information, and this must be submitted for each study for which the ADaM datasets have been submitted. To make each analysis using the ADaM dataset easier, the core variables, including all covariates described in the protocol that are generally included in the ADSL dataset, in principle, should be included in each ADaM dataset. Examples of such variables include covariates, study (protocol number), study site (site number), region, country, assigned treatment, sex, age, race, analysis population flags, and other important baseline demographic variables.

Keep in mind that ADaM datasets other than ADSL can consist of various variables depending on the nature of the individual target analysis, and it is, therefore, important to explain the content of these datasets in the definition document and the data guide.

If the variables used in the SDTM dataset are also used in the ADaM dataset, these variables must have the same attributes and content.

#### 4.1.1.4 File formats of datasets

The SDTM and ADaM datasets that conform to the CDISC standards should be submitted in the SAS XPORT file transport format Version 5 (hereinafter referred to as "SAS XPORT format"), which is the data transport format released by the SAS Institute, and as one file per dataset. The SAS CPORT Procedure must not be used when creating XPORT transport files by the SAS system. Similarly, for datasets that contain variables written in Japanese because it was considered necessary and appropriate (hereinafter referred to as "Japanese items"), the files should be in the SAS XPORT format, and the character sets and the encoding system used to create the dataset should be described in the data guide.

The file name and the dataset name must be the same for the SDTM and ADaM datasets.

#### 4.1.2 Definition documents and other appended documents of datasets

#### 4.1.2.1 Definition documents of datasets

The definition documents of the SDTM and ADaM datasets in the Define-XML format by CDISC should respectively be created into the XML format files containing references to the style sheets that enable their contents to be displayed and stored in the submission folder together with these style sheets. The file name of the definition document should be "define.xml." The definition document should include the definitions of datasets, variables, possible values of variables, and controlled terminologies and codes. The information on controlled terminologies and dictionaries should include their versions.

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In order for the review of clinical study data to progress smoothly, it is important that the relationship between the analysis results shown in the application documents and the analysis datasets is easily understandable. Therefore, the definition documents of the ADaM datasets should preferably include Analysis Results Metadata, which shows the relationship between the analysis results and the corresponding analysis dataset and the variables used, for the analyses performed to obtain the main results of efficacy and safety and clinical study results that provide the rationales for setting of the dosage and administration, shown in 4.1.1.3. The Analysis Results Metadata of each analysis should preferably include the following items.

- Figure or table numbers and titles showing the analysis results displayed in the clinical study report
- Purpose and reasons for performing the analysis
- Parameter name and code to be used
- Variables subject to analysis
- Dataset to be used
- Selection criteria for the records subject to analysis
- Corresponding description in the statistical analysis plan, analysis program name, and summary of the analytical methods
- Extract of the analysis program corresponding to the analysis method

For the format of the Analysis Results Metadata, the applicant should refer to the Analysis Results Metadata Specification for Define-XML by CDISC to the extent possible, but if it is difficult to include it into the definition document, it is possible to submit it as a separated file in PDF format, as specified in "Electronic Specifications of Common Technical Documents", and "Handling of Electronic Specifications of Common Technical Documents". The explanations in the definition document may be written in Japanese.

#### 4.1.2.2 Annotated CRF

The Annotated CRF shows the relationship between each item of data collected from the CRF and the variables included in the dataset. For datasets that conform to the CDISC standards, SDTM variables will be used as variables that correspond to the items in the CRF. For the method of annotating, refer to the SDTM Metadata Submission Guideline (SDTM-MSG) by CDISC.

Data collected from the CRF should preferably be stored in the SDTM dataset whenever possible, prior to submission. However, if there are items of data that are not going to be submitted, it should be made clear in the Annotated CRF that the data is not included in the submitted dataset, and the reason why this data was not included should be provided in the data guide. However, it is not necessary to perform this if the reasons are clear.

The file format of the Annotated CRF, in principle, should be a PDF, as specified in "Electronic Specifications of Common Technical Documents", and "Handling of Electronic Specifications of Common Technical Documents", and the file name should be "acrf.pdf." In principle, it should be stored in the same folder as SDTM datasets.

#### **4.1.2.3 Data guide**

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To promote the understanding of the content and characteristics of the dataset by reviewers during the review and enable the applicant to explain about the utilization status of and conformance to the data standards when creating the datasets, a dataset definition document as well as a data guide must be created for each of the SDTM and ADaM datasets, which, in principle, should be stored in the same folder as their corresponding dataset prior to submission.

At least the following items should be included in the data guide for the SDTM dataset.

- Clinical study name, protocol number
- Explanation of the clinical study design
- Standards and dictionaries used and their versions
- Explanation of the datasets
- Explanation on conformance to the data standards (explanation of the validation results)

The data guide for the ADaM dataset should preferably include the following items.

- Clinical study name, protocol number
- Explanation of the clinical study design related to the analysis dataset
- Considerations related to multiple analysis datasets
- Considerations on creating the analysis datasets
- Explanation of the datasets
- Explanation on conformance to the data standards (explanation of the validation results)

When creating data guides for the SDTM and ADaM datasets, although no specific format for the data guide is provided in the CDISC standards, the applicant may refer to the following documents for the content to include in each item.

- Data guide for SDTM datasets:
   <a href="http://www.phusewiki.org/wiki/index.php?title=Study\_Data\_Reviewer's\_Guide">http://www.phusewiki.org/wiki/index.php?title=Study\_Data\_Reviewer's\_Guide</a>
- Data guide for ADaM datasets:
   <a href="http://www.phusewiki.org/wiki/index.php?title=Analysis\_Data\_Reviewer's\_Guide">http://www.phusewiki.org/wiki/index.php?title=Analysis\_Data\_Reviewer's\_Guide</a>

Each document, in principle, should be created as a PDF as specified in "Electronic Specifications of Common Technical Documents", and "Handling of Electronic Specifications of Common Technical Documents", and the files for SDTM and ADaM should preferably be named "study-data-reviewers-guide.pdf" and "analysis-data-reviewers-guide.pdf," respectively. The data guide may be written in Japanese.

#### 4.1.3 Version of standards to be used

When creating the dataset and the definition document conforming to the CDISC standards, refer to the PMDA's website (http://www.pmda.go.jp/) for versions of the CDISC standards, controlled terminologies, and dictionaries that are accepted by the PMDA. It is sufficient to use different versions within the same application, but the same version must be used within the same clinical study. If the applicant had referred to other versions for certain domains within the same clinical study, the

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version used and the reason for using that version must be explained in the data guide.

Datasets of integrated analyses of multiple clinical studies should be created using the same version, even if the version used to create the dataset of each clinical study was different. When standardizing the version, the reason that the specific version was chosen and considerations for converting to a different version should be described in the data guide.

#### 4.1.4 Therapeutic area standards

To date, the Therapeutic Area Standards have been published for a number of diseases by the CDISC for storing data specific to each therapeutic area. These standards may be used for diseases for which standards have already been published. However, the standards used must be provided in the definition document of the dataset and the data guide.

### 4.1.5 Handling of data written in Japanese text

If variables had been collected in Japanese and there is a risk of losing certain information by translating it into English, as long as the descriptions in Japanese are necessary and appropriate, data written in Japanese (hereinafter referred to as "Japanese data") may be submitted. Examples of variables that may contain Japanese texts are shown in Attachment 2 (but are not limited to these).

The method of storing Japanese data into datasets and the method of submission when a domain contains Japanese items, in principle, will be as follows. Examples are provided in Attachment 3.

- For the domain (dataset), create two datasets: the Japanese dataset and a dataset comprising letter sets specified by ASCII such as alphanumeric characters (hereinafter referred to as "alphanumeric dataset").
- In the Japanese dataset, only the items written in Japanese should be Japanese and the rest should be alphanumeric data, similar to that in the alphanumeric dataset.
- The Japanese dataset and alphanumeric dataset must be identical in structure, except for the data lengths of the Japanese items and the corresponding alphanumeric character sequence, and the two datasets must also have an identical record number and record order. The applicant only needs to submit the definition document for the alphanumeric dataset.
- In the alphanumeric dataset, an English character sequence (such as "JAPANESE TEXT IN SOURCE DATA") which clearly states this is not the original data should be stored in the parts that correspond to the Japanese items. If the Japanese data must be stored by multiple variables or records due to restriction on the data length, this English character sequence must be stored in the corresponding record within the alphanumeric dataset.
- These English character sequences (such as "JAPANESE TEXT IN SOURCE DATABASE") must be consistent within the same study, and it must be stated clearly in the data guide or the definition document (define.xml) of the dataset.
- For parts that correspond to the questionnaires and code lists that contain Japanese text, an appropriate English translation or English character sequence must be stored. When storing English character sequences and distinguishing each of the character sequences, take appropriate measures

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such as by attaching a number at the end of each sequence (example: "JAPANESE TEXT IN SOURCE DATABASE 01" and "JAPANESE TEXT IN SOURCE DATABASE 02"), and the link with the original Japanese text should be shown in the data guide.

- Alphanumeric datasets must be included in the designated folder. The Japanese dataset corresponding to the SDTM dataset must be included in the "sdtm\_j" folder, and the Japanese dataset corresponding to the ADaM dataset must be included in the "adam\_j" folder. The same dataset name and label name must be used for the two datasets.
- For domains that do not contain Japanese items, only the alphanumeric dataset must be included in the designated folder, and the submitted data must not contain any duplicates.

In principle, for Japanese data, both SDTM and ADaM datasets should be stored by the above method before they are submitted, but if the applicant plans to submit data from clinical studies containing Japanese data, it is preferable to consult the PMDA beforehand on the scope of such data.

#### 4.1.6 Submission of programs

#### 4.1.6.1 Programs to be submitted

With respect to the programs related to the electronic study data conforming to the CDISC standards, the programs used to create the ADaM datasets and programs used for analyses must be submitted. The main purposes of requesting the submission of these programs are to understand the process by which the variables for the respective analyses were created and to confirm the analysis algorithms. Therefore, it is not necessary to submit the programs in a format or content that allows the PMDA to directly run the program under its given environment. Also, although the programs to be submitted are not limited to specific software or versions, information on the environment in which the programs were created or run (operation system and software used and their versions) must be provided together in the data guide. If programs with macros had been used, the macro programs should preferably be submitted together. However, if submission of the macro program is difficult or submission of the program itself is difficult because the creation of the dataset or program was outsourced, the submission of specifications that show the analysis algorithm would be sufficient.

#### **4.1.6.2** File format of the programs

As stated in 4.1.6.1, although the programs to be submitted are not limited to specific software or versions, the file name should include the extension attached by the analysis software. If the file name does not contain an extension, an explanation about the file format should be included in the data guide.

# 4.2 Electronic study data on phase I and clinical pharmacology study results and clinical pharmacology analyses

Matters that need to be followed with respect to the specific contents of the submission, including the "Explanation of electronic data package on clinical pharmacology", as well as the electronic study data on clinical pharmacology and programs are shown below.

### 4.2.1 "Explanation of electronic study data package on clinical pharmacology"

<sup>\*</sup> This English version of the Japanese Notification is provided for reference purposes only. In the event of any inconsistency between the Japanese original and the English translation, the former shall prevail.

When submitting the electronic study data on phase I and clinical pharmacology study results and clinical pharmacology analyses, the applicant must submit the "Explanation of electronic study data package on clinical pharmacology" which describes information of all the electronic study data files on clinical pharmacology. The "Explanation of electronic study data package on clinical pharmacology" should be prepared in accordance with the following.

- The information of each file must include the type of analysis performed (standard pharmacokinetic analysis, population analysis, physiologically based pharmacokinetic model analysis, etc.), study number (or report number), file name, explanation of the file content, and the storage location of the file. The "standard pharmacokinetic analysis" includes pharmacokinetic/pharmacodynamic analysis performed by the same method.
- In principle, the "Explanation of electronic study data package on clinical pharmacology" must be created on the portal site when submitting the electronic study data.
- When submitting the electronic study data without using the portal site, a tab delimited file should be created by referring to Attachment 4 prior to submission.

#### 4.2.2 Specific content of the electronic study data to be submitted

#### 4.2.2.1 Standard pharmacokinetic analysis

Details of the analysis dataset and dataset definition document for the submission of the electronic study data on standard pharmacokinetic analysis in a format other than ADaM are as follows:

(1) Analysis datasets

The files should preferably be in one of the following formats.

- SAS Transport Files (\*.xpt)
- ASCII Format Data Files
- Phoenix Projects (\*.phxproj)
- WinNonlin Files (\*.pmo, \*.pwo)
- (2) Dataset definition documents
  - The dataset definition document should include at least the variable names and the explanation of the variables and must be created by referring to Attachment 5. If the definitions are provided in the analysis result report, it would be sufficient to mention this fact and clearly state the relevant page number in theanalysis result report.
  - The file format, in principle, should be a PDF, as specified in the eCTD notification and the notification on handling of eCTD.

#### **4.2.2.2 Population analysis (including simulations)**

Details of the analysis dataset and dataset definition document for the submission of the electronic study data on population analysis are as follows:

(1) Analysis dataset

The file should preferably be in one of the following formats.

- SAS Transport Files (\*.xpt)
- ASCII Format Data Files
- (2) Dataset definition documents
  - The dataset definition document should include at least the variable names and explanation of the variables and must be created by referring to Attachment 5. If the definitions are provided in the analysis result report, it would be sufficient to mention this fact and clearly state the relevant page number in the analysis result report

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• The file format, in principle, should preferably be a PDF, as specified in the eCTD notification and the notification on handling of eCTD.

# **4.2.2.3** Physiologically based pharmacokinetic model analysis (including simulations)

Details of the files, datasets, and dataset definition documents for the submission of the electronic study data on physiologically-based pharmacokinetic model analysis are as follows:

- (1) Files that contain information on the model structure used for the analysis, the set values of drug and physiological parameters, analysis procedures, and sensitivity analysis of the results

  The file format is optional.
- (2) Clinical study datasets, including blood concentration data The file format is optional.
- (3) Dataset definition documents
  - The dataset definition document should include at least the variable names and explanation of the variables and must be created by referring to Attachment 5. If the definitions are provided in the analysis result report, it would be sufficient to mention this fact and clearly state the relevant page number in the analysis result report.
  - The file format, in principle, should preferably be a PDF, as specified in the eCTD notification and the notification on handling of eCTD.

# 4.2.3 Specific content of programs to be submitted

#### 4.2.3.1 Standard pharmacokinetic analysis

Details of the analysis specifications on pharmacokinetics or pharmacokinetics/pharmacodynamics and information to be submitted in accordance with these specifications are as follows:

- This will include detailed information on the analyses that were performed, such as the analysis algorithms (for example, the method used to calculate the pharmacokinetic parameters) and the handling of data below the lower limit of quantitation. If this information is included in the analysis dataset itself [such as Text Output of Phoenix Projects (\*.phxproj)], it would be sufficient as long as this is stated clearly. If this information is included in documents such as the analysis plan, it would be sufficient to just submit these documents.
- The file format is optional.

#### **4.2.3.2** Population analysis (including simulations)

Details of the programs files, files into which major results are outputted, and files on simulation (such as program procedures) for the submission of electronic study data on population analysis are as follows.

- (1) Program files
  - The files should preferably be in the text file format.
- (2) Files into which major results are outputted (such as NONMEM output) The file format is optional.
- (3) Files on simulation

The file format is optional.

The details of the program procedures are as follows:

- Describes the detailed procedures of running the program.
- It must include at least the program file names and the explanation of the programs and must be created by referring to Attachment 6. If it is not necessary to perform special processes, such as designating the

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path name, to use the submitted program, basically, the submission of program procedures is not necessary.

#### 5. Relationship between the electronic study data and eCTD

#### 5.1 Relationship between the electronic study data and eCTD

In principle, all the electronic study data should be referenced from the eCTD backbone. However, if the relevant notifications of the eCTD do not provide the detailed method of storing the electronic study data in the eCTD, information or files related to the electronic study data should not be included in the eCTD backbone or the eCTD folder structure. However, whether or not the electronic study data is being submitted must still be described, per study report, in the list of attachments in Module 1.

#### 5.2 Obtaining the eCTD receipt number from the portal site

When submitting the eCTD, the applicant must enter the scheduled date of submission and necessary information beforehand and obtain the eCTD receipt number from the portal site. Some examples of necessary information are as follows:

- Brand name of the product subject to application
- Application category
- New application/application for minor change
- Original/reference
- Scheduled submission date

#### 5.3 Submission of the eCTD via the portal site

When submitting the eCTD, the applicant must register, select, or enter administrative information on the portal site. Some examples of administrative information are as follows. Not all items need to be registered, selected, or entered at each submission.

- Original/reference/formal/draft/replacement
- Gateway receipt number
- eCTD receipt number
- Submission sequence number
- Form (code)
- Application category
- Generic name of the product
- Brand name of the product
- Statement concerning virus check
- Checksum value of XML instance (eCTD backbone)
- Execution check environment
- Contacts for the regulatory affairs manager and eCTD technical manager
- Remarks

After registering, selecting, or entering the abovementioned details, register the top level folder of the eCTD to be submitted on the portal site and send it to the PMDA. The details on operating the portal site will be specified separately.

# 5.4 Receipt of the eCTD submitted via the portal site

The PMDA will perform a virus check and validation of the eCTD and notify the applicant of the results together with the assessment on the acceptance of the eCTD. For the content of validation performed on the eCTD, in principle, refer to the operation manuals of the eCTD verification tool published on the PMDA's website (http://www.pmda.go.jp/).

#### 5.5 Relationship of the eCTD life cycle and electronic study data

Because the electronic study data is part of the document to be appended to the application form, when changing (adding, replacing or deleting) the electronic study data, it is appropriate to revise the eCTD. If the eCTD is submitted separately from

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the electronic study data, submission of administrative information related to the electronic study data (as shown in 3.3) enables the identification of the eCTD related to this electronic study data. The applicant should consider the following points when submitting the electronic study data.

- (1) Electronic study data submitted upon the initial submission of the eCTD After submitting the electronic study data for the initial submission, once the PMDA notifies the acceptance of the electronic study data, it is not possible to submit additional electronic study data related to the initial submission.
- (2) Electronic study data appended to the responses to inquiries
  Electronic study data appended to the responses to inquiries should be submitted
  as an attachment to responses via the portal site, without linking it to the specific
  eCTD submission sequence number.
- (3) Electronic study data submitted during the revision of the eCTD
  - Of the electronic study data submitted in above (2), those which have been approved to be included upon the revision of the eCTD by the PMDA should be formally submitted upon the revision of the eCTD.
  - Only submit the difference with the previously submitted datasets. It is not necessary to resubmit the electronic study data submitted with the previous submission sequence number.
  - If there is no eCTD to be submitted with the electronic study data, consult the PMDA beforehand on the method of submission.
  - Once the PMDA notifies the acceptance of the electronic study data, it is not
    possible to submit additional electronic study data related to this submission
    sequence number.
  - When submitting the electronic study data after the committee on drugs, follow the procedures in this section.

## 5.6 Change request during the submission of electronic study data

When submitting the electronic study data during the revision of the CTD or eCTD, describe the electronic study data in the change request shown in Attachment 6 of "Confirmation of the Progress Status of New Drug Review" (PMDA Notification No. 1227001, by the Chief Executive of Pharmaceuticals and Medical Devices Agency, dated December 27, 2010). It is not necessary to list all the files to be submitted in the change request; it is only necessary to verify the presence or absence of the set of electronic study data related to each study.

#### 6. Other

For products that require the submission of the electronic study data but do not necessarily require the attachment to a new drug application to be a CTD, such attachments to the new drug application may be submitted electronically by the method specified in 3. In such a case, the standard electronic specification of the attachments to the new drug application will be provided separately.

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#### System of terminology used in this guide

Electronic files (all files to be submitted via the portal site)

```
Electronic data for new drug application (= electronic study data) (note: "electronic data" in
the notification of basic principles)
    ·Clinical study data
          [Clinical study data that excludes the electronic study data on clinical pharmacology]
              CDISC-conformant data (= data conformant to CDISC)
                  - Dataset (= dataset for submission)
                      SDTM dataset (= dataset according to SDTM)

Analysis dataset (= ADaM dataset = dataset according to ADaM)
                   Definition file (= define.xml)
             - Legacy data
                  - Dataset
                   Definition file
              Program file
                  Program for analysis
                 Program for creating datasets
          [Electronic study data on clinical pharmacology] (electronic study data on
          clinical studies where standard pharmacokinetic analysis was performed, population analysis,
          and physiologically-based pharmacokinetic model analysis)
              CDISC-conformant dataset (= data conformant to CDISC)
                  - Dataset (= dataset for submission)
                       SDTM dataset (= dataset according to SDTM)
                      Analysis dataset (= ADaM dataset = dataset according to ADaM)
                   Definition file (= define.xml)
              Data in a format other than CDISC standards (= data when submitting analysis dataset
              in a format other than ADaM)
                  - Dataset (= dataset for submission)
                       Analysis dataset (= dataset in a format other than ADaM)
                      L Datasets other than analysis dataset (information on pharmacokinetic and
                  physiological parameter values set in the physiologically-based pharmacokinetic
                  model analysis)
                  - Dataset definition document
                  - Files into which major results were outputted
                  L Files on simulations
                 L Program procedure
              · Analysis specification (or documents containing comparable information)
              Program file
                  Program for analysis
                 Program for creating datasets
             Explanation of electronic study data package on clinical pharmacology
    Documents to be appended
        - aCRF (Annotated CRF)
        L Data guide (ie. Reviewer's Guide)
             - SDRG
             L ADRG
eCTD (excluding electronic study data)
FD application data
[Other data to be submitted via the portal site]
```

# **Examples of variables which may contain Japanese text**

| Domain<br>Prefix | Variable<br>Name                       | Variable Label                                | Туре  | CDISC Notes (for domains) Description (for General Classes)   | Core |  |  |
|------------------|--|---|---|---|------|--|--|
| Common           | REASND                                 | Reason Not Done                               | Char  | Reason not done. Used in conjunction withSTAT when value is NOT DONE.   |      |  |  |
| Common           | RELNST                                 | Relationship to<br>Non-Study<br>Treatment     | Char  | An opinion as to whether the event may have been due to a treatment other than study drug. Example: "MORE LIKELY RELATED TO ASPIRIN USE."   |      |  |  |
| DM               | INVNAM                                 | Investigator Name                             | Char  | Name of the investigator for a site.  | Perm |  |  |
| СО               | COVAL                                  | Comment                                       | Char  | The text of the comment. Text over 200 characters can be added to additional columns COVAL1 COVALn.   |      |  |  |
| SE               | SEUPDES                                | Description of<br>Unplanned<br>Element        | Char  | Description of what happened to the subject during this unplanned Element. Used only if ETCD has the value of "UNPLAN"  |      |  |  |
| SV               | SVUPDES                                | Description of Unplanned Visit                | Char Description of what happened to the subject during an unplanned visit. |   |      |  |  |
| СМ               | Reported Name of Orug, Med, or Therapy |   |   | Verbatim medication name that is either pre-<br>printed or collected on a CRF.  | -    |  |  |
| CM               | CMMODIFY                               | Modified Reported<br>Name                     | Char  | CMMODIFY Will contain the modified text.  |      |  |  |
| CM               | CMINDC                                 | Indication                                    | Char  | HYPERTENSION  |      |  |  |
| EX               | EXADJ                                  | Reason for Dose<br>Adjustment                 | Char  | Char Describes reason or explanation of why a dose i adjusted.  |      |  |  |
| SU               | SUTRT                                  | Reported Name of Substance                    | Char  |   | Req  |  |  |
| SU               | SUMODIFY                               | Modified<br>Substance Name                    | Char  | If SUTRT is modified, then the modified text is placed here.  |      |  |  |
| SU               | SUDOSTXT                               | Substance Use<br>Consumption Text             | Char  | Substance use consumption amounts or a range of consumption information collected in text form.   | Perm |  |  |
| AE               | AETERM                                 | Reported Term for the Adverse Event           | Char  |   | Req  |  |  |
| AE               | AEMODIFY                               | Modified Reported<br>Term                     | Char  | If AETERM is modified to facilitate coding, then AEMODIFY will contain the modified text.   |      |  |  |
| AE               | AEACNOTH                               | Other Action<br>Taken                         | Char  | Describes other actions taken as a result of the event that are unrelated to dose adjustments of study treatment. Usually reported as free text. Example: "TREATMENT UNBLINDED. PRIMARY CARE PHYSICIAN NOTIFIED." |      |  |  |
| DS               | DSTERM                                 | Reported Term for<br>the Disposition<br>Event | Char  | Verbatim name of the event or protocol milestone. Some terms in DSTERM will match DSDECOD, but others, such as "Subject moved" will map to controlled terminology in DSDECOD, such as "LOST TO FOLLOW-UP."        |      |  |  |
| МН               | MHTERM                                 | Reported Term for<br>the Medical<br>History   |   |   |      |  |  |
| DV               | DVTERM                                 | Protocol Deviation<br>Term                    | Char  | Verbatim name of the protocol deviation criterion. Example: IVRS PROCEST DEVIATION - NO DOSE CALL PERFORMED The DVTERM values will map to the controlle terminology in DVDECOD, such a TREATMENT DEVIATION.       |      |  |  |

| Domain<br>Prefix | Variable<br>Name | Variable Label Type                |      | CDISC Notes (for domains) Description (for General Classes)  | Core |
|------------------|------------------|------------------------------------|------|--|------|
| PE               | PEORRES          | Verbatim<br>Examination<br>Finding | Char | Text description of any abnormal findings. If the examination was completed and there were no abnormal findings, the value should be NORMAL. If the examination was not performed on a particular body system, or at the subject level, then the value should be null, and NOT DONE should appear in PESTAT. | Exp  |
| QS               | QSTEST           | Question Name                      | Char | Verbatim name of the question or group of questions used to obtain the measurement or finding. The value in QSTEST cannot be longer than 40 characters.  |      |

(Reference: SDTM Ver.1.2, SDTM IG Ver.3.1.2, and later versions; descriptions have been partially omitted.)

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# Sample methods for storing Japanese data

**Example 1)** Storing the verbatim term in Japanese without translating it into English AE domain (alphanumeric dataset)

For text items for which data was collected in Japanese, store the English character sequence (such as "JAPANESE TEXT IN SOURCE DATABASE") (collect AETERM in Japanese).

| Row | STUDYID | DOMAIN | USUBJID | AESEQ | AETERM                              | AESTDTC          | AEENDTC          | AEMODIFY | AEDECOD               |
|-----|---------|--------|---------|-------|-------------------------------------|------------------|------------------|----------|-----------------------|
| 1   | ABC123  | AE     | 123101  |       | JAPANESE TEXT IN<br>SOURCE DATABASE | 2005-10-12       | 2005-10-12       |          | Headache              |
| 2   | ABC123  | AE     | 123101  | ')    | JAPANESE TEXT IN<br>SOURCE DATABASE | 2005-10-13T13:05 | 2005-10-13T19:00 |          | Back pain             |
| 3   | ABC123  | AE     | 123101  | 1.2   | JAPANESE TEXT IN<br>SOURCE DATABASE | 2005-10-21       |                  |          | Pulmonary<br>embolism |

| Row      | AEBODSYS  | AESEV    | AESER | AEACN             | AEREL            |
|----------|---|----------|-------|-------------------|------------------|
| 1 (cont) | Nervous system disorders                        | SEVERE   | N     | NOT ADDITION DI E | DEFINITELY NOT   |
| 1 (cont) | Netvous system disorders                        | SEVEKE   | IN    | NOT APPLICABLE    | RELATED          |
| 2 (cont) | Musculoskeletal and connective tissue disorders | MODERATE | N     | DOSE REDUCED      | PROBABLY RELATED |
| 2 (aant) | Vascular disorders                              | MODERATE | V     | DOSE REDUCED      | PROBABLY NOT     |
| 3 (cont) | V asculai disoldels                             | MODEKATE | 1     | DOSE REDUCED      | RELATED          |

| Row      | AEOUT                    | AESCONG | AESDISAB | AESDTH | AESHOSP | AESLIFE | AESMIE | AESTDY | AEENDY | AEENRF |
|----------|--------------------------|---------|----------|--------|---------|---------|--------|--------|--------|--------|
| 1 (cont) | RECOVERED/RESOLVED       |         |          |        |         |         |        | -1     | -1     |        |
| 2 (cont) | RECOVERED/RESOLVED       |         |          |        |         |         |        | 1      | 1      |        |
| 3 (cont) | RECOVERING/RESOLVIN<br>G |         |          |        | Y       | Y       |        | 9      |        | AFTER  |

#### AE domain (Japanese dataset)

• For text items for which data was collected in Japanese, store them in Japanese without translating.

| ] | Row | STUDYID | DOMAIN | USUBJID | AESEQ | AETERM | AESTDTC          | AEENDTC          | AEMODIFY | AEDECOD               |
|---|-----|---------|--------|---------|-------|--------|------------------|------------------|----------|-----------------------|
|   | 1   | ABC123  | AE     | 123101  | 1     | 頭痛     | 2005-10-12       | 2005-10-12       |          | Headache              |
| - | 2   | ABC123  | AE     | 123101  | 2     | 背部痛    | 2005-10-13T13:05 | 2005-10-13T19:00 |          | Back pain             |
|   | 3   | ABC123  | AE     | 123101  | 3     | 肺塞栓    | 2005-10-21       |                  |          | Pulmonary<br>embolism |

| Row      | AEBODSYS  | AESEV    | AESER | AEACN          | AEREL            |
|----------|---|----------|-------|----------------|------------------|
| 1 (cont) | Nervous system disorders                        | SEVERE   | N     | NOT APPLICABLE | DEFINITELY NOT   |
| 1 (cont) | ivervous system disorders                       | SEVEKE   | IN    | NOT AFFLICABLE | RELATED          |
| 2 (cont) | Musculoskeletal and connective tissue disorders | MODERATE | N     | DOSE REDUCED   | PROBABLY RELATED |
| 2 (aant) | Vascular disorders                              | MODERATE | V     | DOSE REDUCED   | PROBABLY NOT     |
| 3 (cont) | vasculai disorders                              | MODERATE | I     | DOSE REDUCED   | RELATED          |

| Row      | AEOUT                    | AESCONG | AESDISAB | AESDTH | AESHOSP | AESLIFE | AESMIE | AESTDY | AEENDY | AEENRF |
|----------|--------------------------|---------|----------|--------|---------|---------|--------|--------|--------|--------|
| 1 (cont) | RECOVERED/RESOLVED       |         |          |        |         |         |        | -1     | -1     |        |
| 2 (cont) | RECOVERED/RESOLVED       |         |          |        |         |         |        | 1      | 1      |        |
| 3 (cont) | RECOVERING/RESOLVIN<br>G |         |          |        | Y       | Y       |        | 9      |        | AFTER  |

# **Example 2)** If translation of the original text into English is difficult and the English character sequence needs to be distinguished from one another

OS domain (alphanumeric dataset)

| Row | STUDYID | DOMAIN | USUBJID | QSSEQ | QSTESTCD | QSTEST                             |
|-----|---------|--------|---------|-------|----------|------------------------------------|
| 1   | ABC123  | QS     | 123101  | 1     | QSTEST1  | JAPANESE TEXT IN SOURCE DATABASE01 |
| 2   | ABC123  | QS     | 123101  | 2     | QSTEST2  | JAPANESE TEXT IN SOURCE DATABASE02 |
| 3   | ABC123  | QS     | 123101  | 3     | QSTEST3  | JAPANESE TEXT IN SOURCE DATABASE03 |

QS domain (Japanese dataset)

| Row | STUDYID | DOMAIN | USUBJID | QSSEQ | QSTESTCD | QSTEST          |
|-----|---------|--------|---------|-------|----------|-----------------|
| 1   | ABC123  | QS     | 123101  | 1     | QSTEST1  | 自分で布団を敷けますか?    |
| 2   | ABC123  | QS     | 123101  | 2     | QSTEST2  | ぞうきんがけはできますか?   |
| 3   | ABC123  | QS     | 123101  | 3     | QSTEST3  | ラジオ体操をしても平気ですか? |

# (Reference) Explanation of the electronic study data package on clinical pharmacology

| No. | Analysis<br>Type *1 | Study ID<br>/Report ID *2 | File Name *3 | Descriptions *4   | File Location *5                                |
|-----|---------------------|---------------------------|--------------|---|---|
| 1   | -                   | -                         | xxxxxx       | Explanation of electronic study data package on clinical pharmacology | ///m5/datasets/12345/analysis/c<br>p/xxxxxx.txt |
| 2   | STS                 | xxxxx                     | xxxxxx       | Dataset for PK analysis (ADaM format)                                 | ••••  |
| 3   | STS                 | xxxxx                     | xxxxxx       | Dataset definition file on  | ••••  |
| X   | STS                 | ••••                      | ••••         | ••••  | ••••  |
| X   | POP                 | xxxxx                     | xxxxxx       | Dataset for PPK analysis  | ••••  |
| X   | POP                 | xxxxx                     | xxxxxx       | Dataset definition file on  | ••••  |
| X   | POP                 | xxxxx                     | xxxxxx       | (Software) script used for  | ••••  |
| X   | POP                 | xxxxx                     | xxxxxx       | Program procedure on •••  | ••••  |
| X   | POP                 | ••••                      | ••••         | ••••  | ••••  |
| X   | PBPK                | xxxxx                     | xxxxxx       | File on •••   | ••••  |
| X   | PBPK                | xxxxx                     | xxxxxx       | Clinical study dataset used for •••                                   | ••••  |
| X   | PBPK                | xxxxx                     | xxxxxx       | Dataset definition file on  | ••••  |
| X   | ••••                | ••••                      | ••••         | ••••  | ••••  |
|     |                     |                           |              |   |   |

<sup>\*1:</sup> Provide one of the following as the type of analysis performed.

STS: standard two stage approach ((standard pharmacokinetic or pharmacokinetic/pharmacodynamic analysis)

POP: population approach

PBPK: physiologically-based pharmacokinetic model analysis

Other: other analysis

- \*2: Provide the study number or report number.
- \*3: Provide the file name.
- \*4: Provide an explanation of the file content.
- \*5: Provide the location where the file is stored.
- \* This English version of the Japanese Notification is provided for reference purposes only. In the event of any inconsistency between the Japanese original and the English translation, the former shall prevail.

#### Attachment 5

# (Reference) Dataset definition file

Dataset: XXXXX ("XXXXX" is the dataset name)

| No. | Variable *1 | Description *2   |
|-----|-------------|--|
| 1   | ID          | Unique subject identifier  |
| 2   | STUDYID     | Study number   |
| 3   | TIME        | Time of the event relative to the first dosing of the study drug   |
| 4   | AMT         | Amount of drug administered  |
| 5   | DV          | Plasma concentration   |
| 6   | СМТ         | Number of the compartment where the parameter was measured 1 = Dosing 2 = Parent drug 3 = Metabolite   |
| 7   | MDV         | Missing dependent variable data item for DV  0 = Valid PK measurement  1 = Other (missing or invalid value, dosing event, start of urine sampling) |
| X   | XXXX        | •••••  |

<sup>\*1:</sup> Provide the variable name.

<sup>\*2:</sup> Provide the description of the variable.

<sup>\*</sup> This English version of the Japanese Notification is provided for reference purposes only. In the event of any inconsistency between the Japanese original and the English translation, the former shall prevail.

# (Reference) Program procedure

| No. | Program file name *1 | Description *2  Software used: ○○ Ver.● Purpose: Used for •••••. Considerations for use: • Designate the folder to output the file with the following line.  xxxxx <- "path name"  • Designate the folder to store the data file of •••• with the following line.  xxxxx <- "path name"  • Run the program up to the following line.  ExportData(XXXXX)  • Perform the •••• file (xxxxxx) for simulation on the CSV file ("xxxx") outputted into a designated folder (xxxxx).  • Store the output file (xxxxx) to the folder (xxxxx) designated above.  • Resume the program from the line below, then import and analyze the stored output file (xxxxx). |  |  |
|-----|----------------------|---|--|--|
| 1   | xxxxxx               |   |  |  |
| X   | xxxxxx               | Software used: OO Ver.  Purpose: Used for ••••  xxxxxx  Considerations for use: ••••  |  |  |

<sup>\*1:</sup> Provide the file name of the program.

<sup>\*2:</sup> Provide the description (such as the software used, purpose, considerations for use) of the program.

<sup>\*</sup> This English version of the Japanese Notification is provided for reference purposes only. In the event of any inconsistency between the Japanese original and the English translation, the former shall prevail.