

#214

GUIDANCE FOR INDUSTRY

Pharmacovigilance of Veterinary Medicinal Products Electronic Standards for Transfer of Data

VICH GL35

DRAFT GUIDANCE

This guidance document is being distributed for comment purposes only

Submit comments on this draft guidance by the date provided in the *Federal Register* notice announcing the availability of the draft guidance. Submit written comments to the Division of Dockets Management (HFA-305), Food and Drug Administration, 5630 Fishers Lane, Rm. 1061, Rockville, MD 20852. Submit electronic comments to <http://www.regulations.gov>. You should identify all comments with the docket number listed in the notice of availability that publishes in the *Federal Register*.

For further information regarding this document, contact Margarita Brown, Center for Veterinary Medicine, (HFV-240), Food and Drug Administration, 7519 Standish Place, Rockville, MD 20855, 240-276-9048, e-mail: margarita.brown@fda.hhs.gov.

Additional copies of this draft guidance document may be requested from the Communications Staff (HFV-12), Center for Veterinary Medicine, Food and Drug Administration, 7519 Standish Place, Rockville, MD 20855, and may be viewed on the Internet at either <http://www.fda.gov/AnimalVeterinary/default.htm> or <http://www.regulations.gov>.

**U.S. Department of Health and Human Services
Food and Drug Administration
Center for Veterinary Medicine
September 15, 2011**

PHARMACOVIGILANCE OF VETERINARY MEDICINAL PRODUCTS: ELECTRONIC STANDARDS FOR TRANSFER OF DATA

Recommended for Consultation
at Step 4 of the VICH Process
in June 2010
by the VICH Steering Committee

THIS GUIDANCE HAS BEEN DEVELOPED BY THE APPROPRIATE VICH EXPERT WORKING GROUP AND IS SUBJECT TO CONSULTATION BY THE PARTIES, IN ACCORDANCE WITH THE VICH PROCESS. AT STEP 7 OF THE PROCESS, THE FINAL DRAFT WILL BE RECOMMENDED FOR ADOPTION TO THE REGULATORY BODIES OF THE EUROPEAN UNION, JAPAN AND USA.

TABLE OF CONTENTS

| | |
|---|----------|
| Introduction | 4 |
| Scope of Recommended Electronic Standards for Information Exchange | 5 |
| Recommendations to Ensure Secure Transmission | 5 |
| Definition of the Electronic Message Structure | 5 |
| Relationships (Cardinality) Between the Data Elements | 6 |
| Business and Schema Validation Rules, Field Descriptors Specification for the Pharmacovigilance Data and Wrapper Information and Relationships (Cardinality) | 6 |

PHARMACOVIGILANCE OF VETERINARY MEDICINAL PRODUCTS

Electronic Standards for Transfer of Data

VICH GL35

This draft guidance, when finalized, will represent the Food and Drug Administration's (FDA's) current thinking on this topic. It does not create or confer any rights for or on any person and does not operate to bind FDA or the public. You can use an alternative approach if the approach satisfies the requirements of the applicable statutes and regulations. If you want to discuss an alternative approach, contact the FDA staff responsible for implementing this guidance. If you cannot identify the appropriate FDA staff, call the appropriate number listed on the title page of this guidance.

Introduction

The objective of this draft guidance is to provide recommended standards to construct a single electronic message to transmit Data Elements for Submission of Adverse Event Reports (AERs) to all member regions. FDA is in the process of reviewing its regulations, guidance, and forms relating to pharmacovigilance of veterinary medicinal products to ensure consistency with current policy. This guidance will not be finalized until such time as any changes to other relevant documents are also finalized.

The need to transfer and disseminate information quickly, accurately and easily between Regulatory Authorities (RA) and Marketing Authorization Holders (MAH) on a worldwide scope is especially pertinent to the notification and assimilation of information for pharmacovigilance. Whereas the recommended definition of the pharmacovigilance information has been set forth within the draft guidances entitled, “Pharmacovigilance of Veterinary Medicinal Products: Management of Adverse Event Reports (AER’s)” (VICH GL24), “Pharmacovigilance of Veterinary Medicinal Products: Controlled Lists of Terms” (VICH GL30) and “Pharmacovigilance of Veterinary Medicinal Products: Data Elements for Submission of Adverse Event Reports” (VICH GL42), this draft guidance defines recommended electronic standards for transfer of data.

In order to allow for electronic exchange of this information between stakeholders, further specification of the field descriptors and their relationships, including agreement on format of the electronic message is essential.

FDA’s guidance documents, including this draft guidance, do not establish legally enforceable responsibilities. Instead, guidances describe the Agency’s current thinking on a topic and should be viewed only as recommendations, unless specific regulatory or statutory requirements are cited. The use of the word “should” in Agency guidances means that something is suggested or recommended, but not required.

Scope of Recommended Electronic Standards for Information Exchange

The scope of recommended electronic standards for exchange of veterinary pharmacovigilance data between VICH RAs and MAHs includes but is not limited to:

- **Recommendation to ensure secure transmission**
- **Definition of the electronic message structure**
- **Relationships (cardinality) between the data elements**
- **Recommend additional vocabularies for electronic transmission of data defined in draft VICH GL24, draft VICH GL30, and draft VICH GL42**
- **Business and schema validation rules and field descriptors specification for the data defined in draft VICH GL24, draft VICH GL30, draft VICH GL42, and this draft guidance**

Recommendations to Ensure Secure Transmission

Regional exchange of pharmacovigilance information preferably occurs through a Gateway that follows the International Conference on Harmonisation of Technical Requirements for Approval of Pharmaceuticals for Human Use (ICH) - Multi-Disciplinary Group 2 (M2) (ICH M2 Gateway) recommendation to the ICH Steering Committee on “Electronic Standards for the Transfer of Regulatory Information (ESTRI) General Recommendation: ESTRI Gateway” in order to allow for an automated and secure way, including all aspects of confidentiality, authentication, integrity and non-repudiation of all transactions in pharmacovigilance. MAHs should adhere to the relevant RA’s gateway specifications.

Definition of the Electronic Message Structure

For the basis of describing the messaging structure, the VICH Pharmacovigilance Working Group recommends the adoption of a single standard, i.e., the International Standard ISO 27953-1. The message format should be XML.

A US Food and Drug Administration (FDA) Center for Veterinary Medicine (CVM) technical document entitled “Electronic Submission of Animal Adverse Events: HL7 Individual Case Safety Report (ICSR) Electronic Transmission Implementation Specifications [Step By Step]” (herein known as the US FDA CVM Step By Step Document) is available on the US FDA CVM website at <http://www.fda.gov/downloads/AnimalVeterinary/SafetyHealth/ReportaProblem/UCM213149.pdf>. This US FDA CVM Step By Step Document will serve as the core document from which VICH will develop its own specific VICH Step By Step Document in line with ISO 27953-1 for implementation. The unique adverse event processing system of each MAH and RA should be compliant with the VICH Step By Step Document (to be developed).

The purpose of this VICH Step By Step Document will be to provide recommendations to assist users, reporters, and technical staff in completing a well formed electronic message for animal veterinary medicinal products adverse event reports (AER). The draft VICH GL42 document has recommended a standard set of definitions to describe the data elements that should be submitted for compliant adverse event reports. This VICH Step By Step Document will provide a translation and mapping of draft VICH GL42 compliant adverse event elements into an electronic message. The draft VICH GL42 data elements comprise the “payload” of the message.

These adverse event submissions are intended to be sent electronically to the RAs through their respective Electronic Submissions Gateway (ESG) and upon receipt, they will be processed by the relevant RA’s unique systems. In addition to the “payload” information, the electronic message also contains “wrapper” information (also known as envelope information). Unique and specific information should be included in the wrappers of the electronic message, as specified by the RAs. The purpose of this wrapper information is so that the electronic message can be processed appropriately according to each RA’s administrative needs. These unique and specific data should be specified in each RA’s technical documents.

Relationships (Cardinality) Between the Data Elements

The recommended relationships (cardinality) between the data elements are set forth in draft VICH GL42 and Annex A to draft VICH GL35, and will be further elaborated on in the VICH Step By Step Document and VICH Validation Procedure Document (see description below). The draft data model diagrams are found in Annex A to this draft guidance. Implementers should review and study all 4 of these documents, when finished, to understand the relationships between the data elements.

For repeatable fields, the RA should provide the maximum number of arrays that RA electronic systems will accept.

Business and Schema Validation Rules, Field Descriptors Specification for the Pharmacovigilance Data and Wrapper Information and Relationships (Cardinality)

The US FDA CVM technical document entitled “Electronic Submission of Animal Adverse Events HL7 Individual Case Safety Report (ICSR) Electronic Transmission Implementation Specifications [Validation Procedures]” (herein known as the US FDA CVM Validation Procedures Document) is available on the US FDA CVM website (<http://www.fda.gov/downloads/AnimalVeterinary/SafetyHealth/ReportaProblem/UCM213150.pdf>).

The US FDA CVM Validation Procedures Document will serve as the core document from which VICH will develop its own specific VICH Validation Procedures Document that will be

used in worldwide VICH implementation. The unique adverse event processing system of each MAH and RA should be compliant with the VICH Validation Procedures Document (to be developed).

Field Descriptions

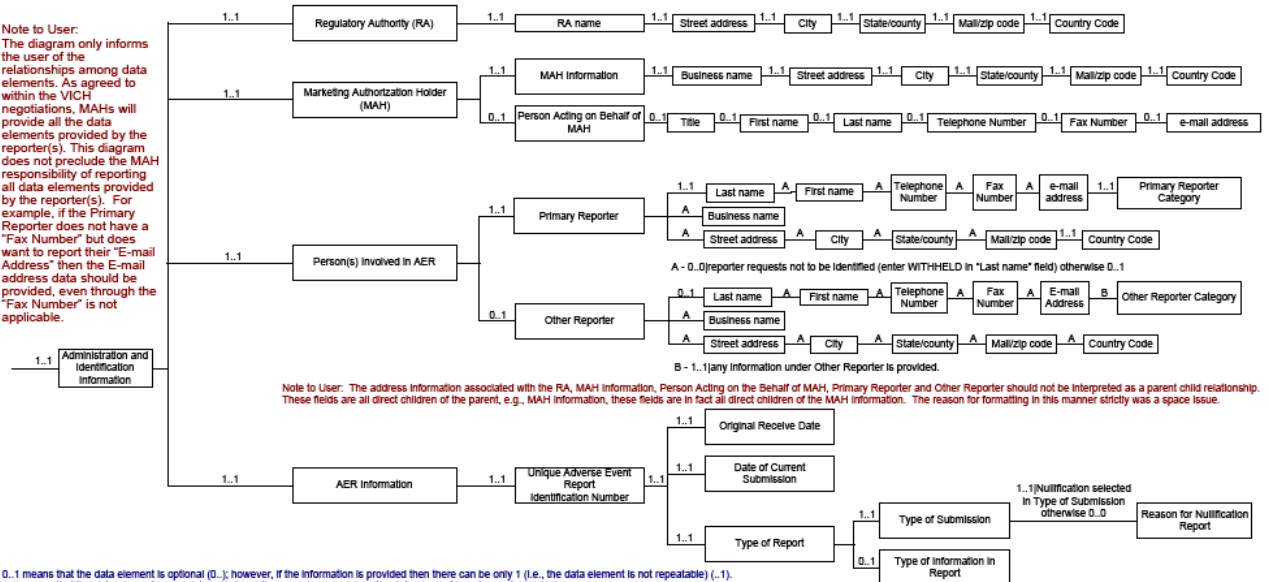
Presented in Annex B are the recommended field lengths and data types for all the data elements that will serve as the basis for discussion in the VICH implementation of electronic transmission of adverse events.

Contains Non-Binding Recommendations
Draft—Not for Implementation

Annex A

Draft Data Model for Administrative and Identification Information

Note to User:
The diagram only informs the user of the relationships among data elements. As agreed to within the VICH negotiations, MAHs will provide all the data elements provided by the reporter(s). This diagram does not preclude the MAH responsibility of reporting all data elements provided by the reporter(s). For example, if the Primary Reporter does not have a "Fax Number" but does want to report their "E-mail Address" then the E-mail address data should be provided, even through the "Fax Number" is not applicable.



0..1 means that the data element is optional (0..); however, if the information is provided then there can be only 1 (i.e., the data element is not repeatable) (..1).

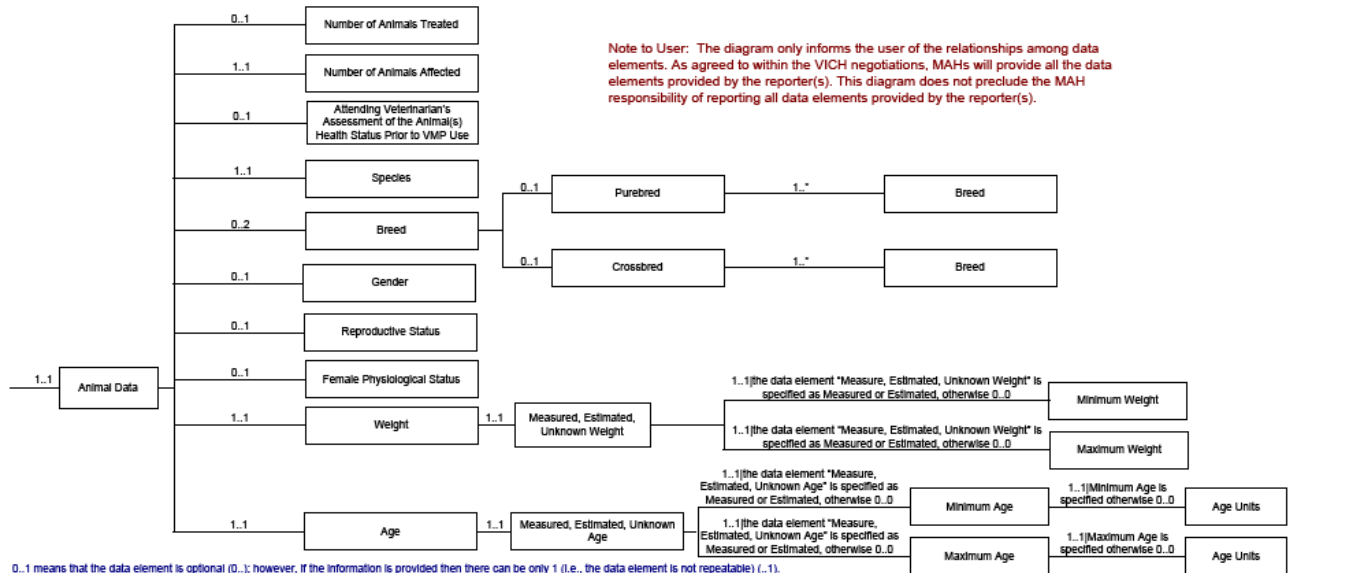
1..1 means that the data element is mandatory (1..) and there can be only 1 (i.e., the data element is not repeatable) (..1).

1..1/Notification selected in Type of Submission otherwise 0..0 - If "Notification" is selected as the Type of Submission, Reason for Notification Report is mandatory but not repeatable. If an other Type of Submission is selected then 0..0 applies - no information is provided.

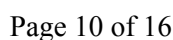
Filename: GeneralizedModelVICHSectionA.0 07012011.vsd
Dated: July 1, 2011

Contains Non-Binding Recommendations
Draft—Not for Implementation

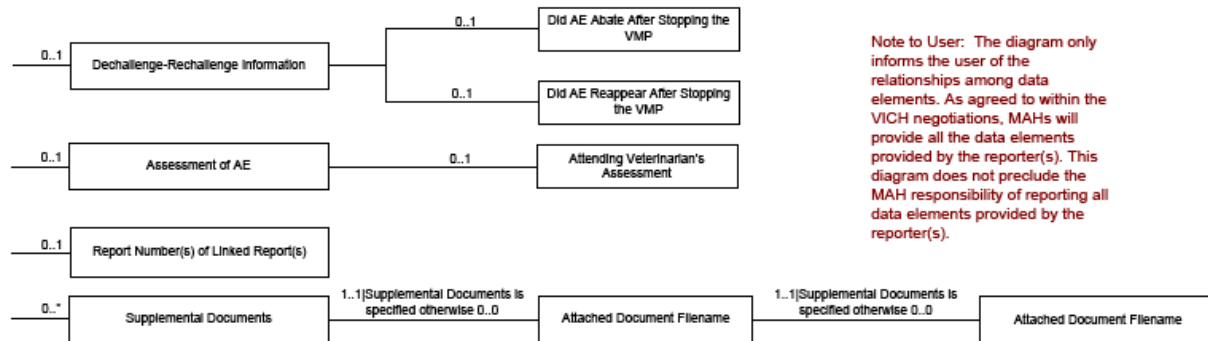
Draft Data Model for Animal Data



Filename: GeneralizedModelVICHSectionB.1 06072011.vsd
Date: June 7, 2011



Draft Data Model for Dechallenge-Rechallenge Information, Assessment of AE, Report Number(s) of Linked Report(s), and Supplemental Documents



0..1 means that the data element is optional (0..); however, if the information is provided then there can be only 1 (i.e., the data element is not repeatable) (..1).
0..* means that the data element is optional (0..) and the information data element can be repeated (..*).*
1..1 means that the data element is mandatory (1..) and there can be only 1 (i.e., the data element is not repeatable) (..1).

GeneralizedModelVICHSectionB.4 5 6 7 06072011.vsd
Dated: June 7, 2011

Contains Non-Binding Recommendations
Draft—Not for Implementation

Annex B. Field Length and Data Type by Data Elements

| Section Title | Field Length (maximum length – characters) | Data Type |
|--|--|--|
| Regulatory Authority (RA) | | |
| RA name | 60 | Open ended text |
| Street address | 100 | Open ended text |
| City | 35 | Open ended text |
| State/county | USA State – 15 | Single Choice Code List |
| | County - 80 | Open ended text |
| Mail/zip code | 15 | Open ended text |
| Country (3 character country codes ISO 3166) | 15 | single choice code list |
| MAH Information | | |
| Business name | 60 | Open ended text |
| Street address | 100 | Open ended text |
| City | 35 | Open ended text |
| State/county | USA State – 15 | Single Choice Code List |
| | County - 80 | Open ended text |
| Mail/zip code | 15 | Open ended text |
| Country (3 character country codes ISO 3166) | 15 | single choice code list |
| Person Acting on Behalf of MAH | | |
| Title | 50 | Open ended text |
| First name | 35 | Open ended text |
| Last name | 50 | Open ended text |
| Telephone | 18 | Formatted numeric for USA; open ended text for non-USA |
| Fax | 18 | Formatted numeric for USA; open ended text for non-USA |
| e-mail | 100 | Open ended text |
| Primary Reporter Information | | |
| First name | 35 | Open ended text |
| Last name | 50 | Open ended text |
| Telephone | 18 | Formatted numeric for USA; open ended text for non-USA |
| Fax | 18 | Formatted numeric for USA; open ended text for non-USA |
| e-mail | 100 | Open ended text |

Contains Non-Binding Recommendations
Draft—Not for Implementation

| Section Title | Field Length (maximum length – characters) | Data Type |
|--|--|--|
| Business name | 60 | Open ended text |
| Street address | 100 | Open ended text |
| City | 35 | Open ended text |
| State/county | USA State – 15 | Single Choice Code List |
| | County - 80 | Open ended text |
| Mail/zip code | 15 | Open ended text |
| Country (3 character country codes ISO 3166) | 15 | Single choice code list |
| Primary Reporter Category | 15 (code) 80 (code description/term) | Single choice code list |
| Other Reporter Information | | |
| First name | 35 | Open ended text |
| Last name | 50 | Open ended text |
| Telephone | 18 | Formatted numeric for USA; open ended text for non-USA |
| Fax | 18 | Formatted numeric for USA; open ended text for non-USA |
| e-mail | 100 | Open ended text |
| Business name | 60 | Open ended text |
| Street address | 100 | Open ended text |
| City | 35 | Open ended text |
| State/county | USA State – 15 | Single Choice Code List |
| | County - 80 | Open ended text |
| Mail/zip code | 15 | Open ended text |
| Country (3 character country codes ISO 3166) | 15 | Single choice code list |
| Other Reporter Category | 15 (code) 80 (code description/term) | Single choice code list |
| Unique Adverse Event Identification Number | 60 | Open ended text |
| Original Receive Date | 19 | Date |
| Date of Current Submission | 19 | Date |
| Type of Submission & Code | 15 (code) 80 (code description/term) | Single choice code list |
| Reason for Nullification Report | 200 | Open ended text |
| Type of Information in Report & Code | 15 (code) 80 (code | Single choice code list |

Contains Non-Binding Recommendations
Draft—Not for Implementation

| Section Title | Field Length (maximum length – characters) | Data Type |
|--|--|----------------------------|
| | description/term) | |
| Number of Animals Treated | 12 | Integer |
| Number of Animals Affected | 12 | Integer |
| Attending Veterinarian's Assessment of Health Status Prior to VMP & Code | 15 (code) 80 (code description/term) | Single choice code list |
| Species (Type of Species) & Code | 15 (code) 80 (code description/term) | Single choice code list |
| Breed & Code | 15 (code) 80 (code description/term) | Multiple choice code list |
| Gender & Code | 15 (code) 80 (code description/term) | Single choice code list |
| Reproductive Status & Code | 15 (code) 80 (code description/term) | Single choice code list |
| Female Physiological Status & Code | 15 (code) 80 (code description/term) | Single choice code list |
| Weight Measured, Estimated or Unknown & Code | 15 (code) 80 (code description/term) | Single choice code list |
| Minimum Weight | 12 | Numeric (nnnnnnnnnn.nn) |
| Minimum Weight Unit | kg | |
| Maximum Weight | 12 | Numeric (nnnnnnnnnn.nn) |
| Maximum Weight Unit | kg | |
| Age Measured, Estimated or Unknown & Code | 15 (code) 80 (code description/term) | Single choice code list |
| Minimum Age | 12 | Numeric (nnnnnnnnnn.nn) |
| Minimum Age Units (code) | 15 | Single choice code list |
| Maximum Age | 12 | Numeric (nnnnnnnnnn.nn) |
| Maximum Age Units (code) | 15 | Single choice code list |
| Registered Name or Brand Name | 200 | Open ended text |
| Product Code (Product NDC Number or Unique ID) | 20 | Open ended text |
| Registration Identifier | 35 | Open ended text |

Contains Non-Binding Recommendations
Draft—Not for Implementation

| Section Title | Field Length (maximum length – characters) | Data Type |
|---|--|----------------------------|
| Anatomical Therapeutic Chemical Vet (ATCvet) Code | 10 | Open ended text |
| Company or MAH | 60 | Open ended text |
| MAH Assessment | 250 | Open ended text |
| RA Assessment | Not Applicable | Not Applicable |
| Explanation Relating to Assessment | Not Applicable | Not Applicable |
| Route of Exposure (Route of Administration) | 15 (code) 80 (code description/term) | Single choice code list |
| Dose Per Administration | | |
| Numeric Value for Dose | 12 | Numeric (nnnnnnn.nnnn) |
| Units of Value for Dose | 15 (code) 80 (code description/term) | single choice code list |
| Interval of Administration | | |
| Numeric Value for Interval of Administration | 12 | Integer |
| Units of Value for the Interval of Administration | 15 (code) 80 (code description/term) | Single choice code list |
| Date of First Exposure | 19 | Date |
| Date of Last Exposure | 19 | Date |
| Active Ingredient(s) | | |
| Active Ingredient(s) | 200 | Open ended text |
| Numeric Value for Strength (Numerator) | 12 | Numeric (nnnnnnn.nnnn) |
| Units for Numeric Value for Strength (Numerator) | 15 (code) 80 (code description/term) | Single choice code list |
| Numeric Value for Strength (Denominator) | 12 | Numeric (nnnnnnn.nnnn) |
| Units for Numeric Value for Strength (Denominator) | 15 (code) 80 (code description/term) | Single choice code list |
| Active Ingredient Code | 15 | Single choice code list |
| Dosage Form & Code | 15 (code) 80 (code description/term) | Single choice code list |
| Lot Number(s) | 35 | Open ended text |
| Expiration Date | 19 | Date |
| Who Administered the VMP & Code | 15 (code) 80 (code description/term) | Single choice code list |

Contains Non-Binding Recommendations
Draft—Not for Implementation

| Section Title | Field Length (maximum length – characters) | Data Type |
|--|--|----------------------------|
| Use According to Label | 5 | Boolean |
| Explanation for Off-Label Use & Code | 12 | Integer |
| Narrative of AE | 20,000 | Open ended text |
| Adverse Clinical Manifestations (AER Term Name(s) & Code(s)) | 15 (code) 250 (code description/term) | Multiple choice code list |
| Number of Animal | 12 | Integer |
| Accuracy of the Number of Animals | 15 (code) 80 (code description/term) | Single choice code list |
| Date of Onset of AE (AE Start Date) | 19 | Date |
| Length of Time between Exposure to VMP & Onset of AE | 15 (code) 80 (code description/term) | Single choice code list |
| Duration of AE | | |
| Duration (Time) | 12 | Numeric (nnnnnnnn.nnnn) |
| Duration Time Units | 15 (code) 80 (code description/term) | Single choice code list |
| Serious AER Reported | 5 | Boolean |
| Treatment of AE | 5 | Boolean |
| Outcome to Date | 12 | Integer |
| Previous Exposure to the VMP | 5 | Boolean |
| Previous AE to VMP | 5 | Boolean |
| Did AE Abate After Stopping the VMP? | 5 | Boolean |
| Did AE Reappear After Re-introduction of the VMP? | 5 | Boolean |
| Attending Veterinarian's Assessment of AE | 15 (code) 80 (code description/term) | Single choice code list |
| Attached Document Filename | 256 | Open ended text |
| Attached Document Type | 15 (code) 80 (code description/term) | Single choice code list |