

Use of MedDRA® in CTCAE and in the Biopharmaceutical Industry

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MedDRA was developed under the auspices of the International Conference on Harmonisation of Technical Requirements for Registration of Pharmaceuticals for Human Use (ICH). The activities of the MedDRA Maintenance and Support Services Organization (MSSO) are overseen by an ICH MedDRA Management Board, which is composed of the six ICH parties, the Medicines and Healthcare products Regulatory Agency (MHRA) of the UK, Health Canada, and The World Health Organization, and is chaired by the IFPMA.



Objectives

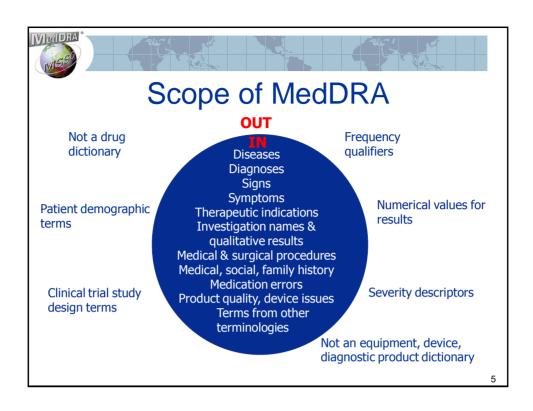
- Demonstrate the relationship of CTCAE to MedDRA
- Illustrate use of MedDRA for CTCAE 'Other, specify' terms
- Application of MedDRA in data retrieval, presentation, and analysis
 - Standardised MedDRA Queries (SMQs)
- MSSO free training

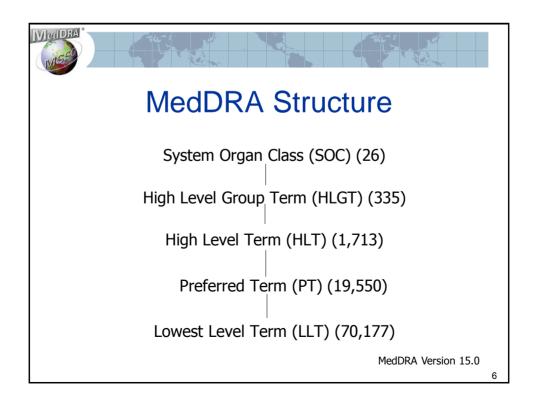
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MedDRA Definition

MedDRA is a clinically-validated international medical terminology used by regulatory authorities and the regulated biopharmaceutical industry. The terminology is used through the entire regulatory process, from pre-marketing to post-marketing, and for data entry, retrieval, evaluation, and presentation.





Regulatory Status of Mandate

- US FDA
 - Used in several FDA databases (AERS, VAERS, and CAERS)
 - Proposed Rule for Safety Reporting Requirements (2003): MedDRA for postmarketing safety reports
- Japanese Ministry of Health, Labour and Welfare
- Canada
 - Guidance Document for Industry Reporting Adverse Reactions to Marketed Health Products
 - Guidance for Industry Product Monograph (labeling)

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Regulatory Status of Mandate

- European Union EudraVigilance database
 - New PV legislation (Directive and Regulation) effective July 2012 broadens AR definition:
 - Occurring in context of medication errors
 - With uses outside terms of marketing authorization
 - Misuse and abuse
 - In context of occupational exposures



Regulatory Status of Mandate (cont)

- European Union (cont)
 - Interface between EudraVigilance and EU Risk Management Plan
 - Summary of Product Characteristics guideline
 - MedDRA to be used throughout; in particular for Contraindications, Special warnings and precautions for use, and Undesirable effects sections
- ICH M4E Guideline on Common Technical Document
 - Recommended in adverse event summary tables

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CTCAE v4.0

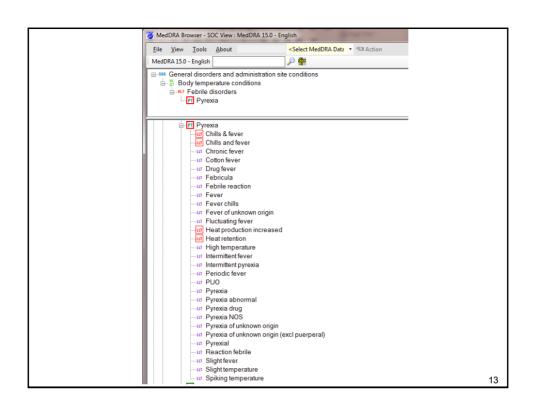
- Utilizes a small subset of MedDRA terms that are common in oncology practice
- Terms are recognized by the ICH community as practice standards
- Lists MedDRA LLTs organized by SOCs
- 'Other, specify' allows submission of verbatim

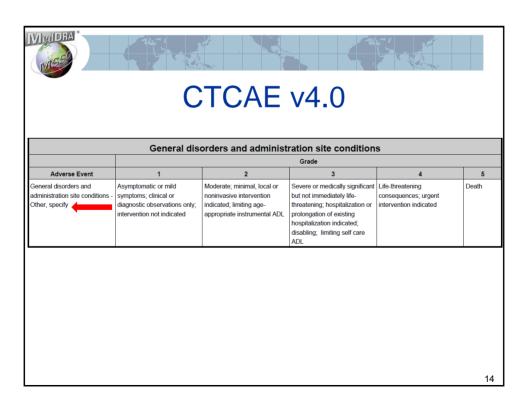


CTCAE v4.0

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efinition: A disorder characterized by elevation of the body's temperature above the upper limit of normal.	efinition: A disorder chara	cterized by elevation of the body's te	emperature above the upper limit	t of normal.				

MedDRA Browser - SOC View. MedDRA 130 - English
| File View | Tools About | Select MedDRA Data | Select MedDRA







CTCAE v3.0 Analysis Prior to MedDRA Harmonization

- CTCAE v3.0
 - Routine reporting (Phase 1, 2) ~ 383,000
 - Expedited reporting (All Phases) ~ 66,000
 - − 'Other, specify ~ 6,000
- 'Other, specify' Verbatim & MedDRA
 - Match 41%
 - Algorithmic match 23%
 - No match 36%

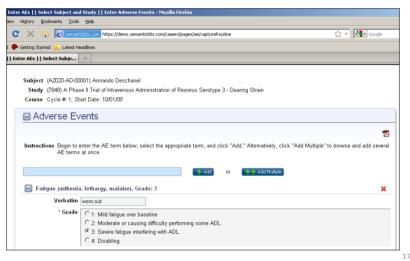
Setser, A. 2009 CTCAE Boot Camp Presentations

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Example of MedDRA & CTCAE 'Other, specify'

	CTCAE 'Oth	ner, spe	ecify'	
	Course and Agent 4. Reporter 5. Select Report 6. Describe Event ttribution 17. Attachments 18. Submit	7. Patient Details > 8. Pre-existing	g Conditions > 9. Prior 1	Therapies > 10. Conmeds > 11. Other Causes
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	7832) f Bevacizumab (NSC 704865), Oxaliplatin (NSC 266046), Fluorouracil ar ectal Cancer (E3200)	nd Leucovorin Versus Oxaliplatin, I	Fluorouracil and Leucovo	rin Versus Bevacizumab Alone in Previously T
Enter AEs				
	that should appear on this expedited report. For each AE, complete all t this page will be used to confirm whether expedited reporting is required			ilts will be displayed on the next two pages
CTC version		* Grade	C 1: Mild	
CTC category			C 2: Moderate	
* CTC term	Neurology - Other (Specify,) - 10029298		C 3: Severe	
	Type a portion of the CTC term you are looking for. If you select a category, only terms in that category will be shown.			disabling
 Other (MedDRA) 	leukoenceph		(5. Death	
	10058905 - Acute haemorrhagic leukoencephalopathy			most appropriate term describing the to the study interactions or interventions.
	10058906 - Acute hemorrhagic leukoencephalopathy	* Hospitalization	None	<u>▼</u>
	10058993 - Acute hemorrhagic leukoencephalitis	* Expected	No ▼	_
	10058994 - Acute haemorrhagic leukoencephalitis	,		is expected or not. "Unexpected" events
	10063761 - Reversible posterior leukoencephalopathy syndrome		are those that differ in n described in the investig	ature, severity or frequency from what is gator's brochure or informed consent
	10065551 - Cerebral autosomal dominant arteriopathy with subcortical infarcts and leukoenceph alopathy		document. For agents u Agent Specific Adverse	inder a CTEP IND, refer also to the AdEERS Event List (ASAEL). For commercial agents TEP IND, refer also to the package insert.
		Comments		
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Example of MedDRA & CTCAE 'Other, specify'



Tyled DRA (VISS)

MedDRA Data Retrieval and Presentation:
Points to Consider



MedDRA Data Retrieval and Presentation: Points to Consider

- An ICH-Endorsed Guide for MedDRA users on Data Output
- Developed by an ICH Expert Working Group
- Provides data retrieval and presentation options for industry or regulatory purposes
- Objective is to promote understanding of implications that various options for data retrieval have on accuracy and consistency of final output
- Current version available on MedDRA MSSO Web site (http://www.meddramsso.com/subscriber_library_ptc.asp)

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Data Retrieval PTC Points Addressed

- General Principles
 - Quality of Source Data
 - Documentation of Data Retrieval and Presentation Practices
 - Do Not Alter MedDRA
 - Organization-Specific Data Characteristics
 - Characteristics of MedDRA that Impact Data Retrieval and Analysis
 - MedDRA Versioning
- General Queries and Retrieval
- Standardised MedDRA Queries
- Customized Searches



Standardised MedDRA Queries (SMQs)



Definition of SMQ

- Result of cooperative effort between CIOMS and ICH (MSSO)
- Groupings of terms from one or more MedDRA System Organ Classes (SOCs) related to defined medical condition or area of interest
- Included terms may relate to signs, symptoms, diagnoses, syndromes, physical findings, laboratory and other physiologic test data, etc., related to medical condition or area of interest
- Intended to aid in case identification



SMQ Benefits and Limitations

- Benefits
 - Application across multiple therapeutic areas
 - Validated reusable search logic
 - Standardized communication of safety information
 - Consistent data retrieval
 - Maintenance by MSSO/JMO
- Limitations
 - Do not cover all medical topics or safety issues
 - Will evolve and undergo further refinement even though they have been tested during development

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SMQs in Production - Examples

- As of Version 15.0, a total of 86 in production
 - Agranulocytosis
 - Anaphylactic reaction
 - Cerebrovascular disorders
 - Convulsions
 - Depression and suicide/self-injury
 - Hepatic disorders
 - Ischaemic heart disease
 - Lack of efficacy/effect

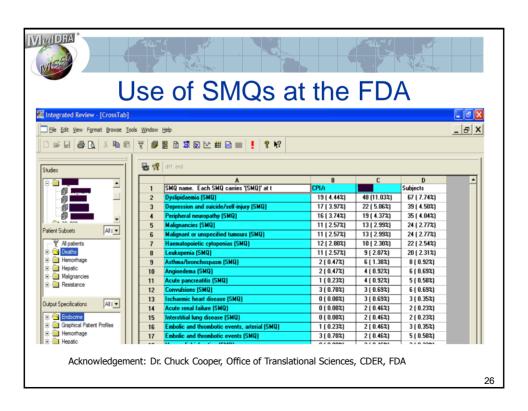
- Peripheral neuropathy
- Pregnancy and neonatal topics
- Pseudomembranous colitis
- Rhabdomyolysis/myopathy
- Severe cutaneous adverse reactions
- Systemic lupus erythematosus

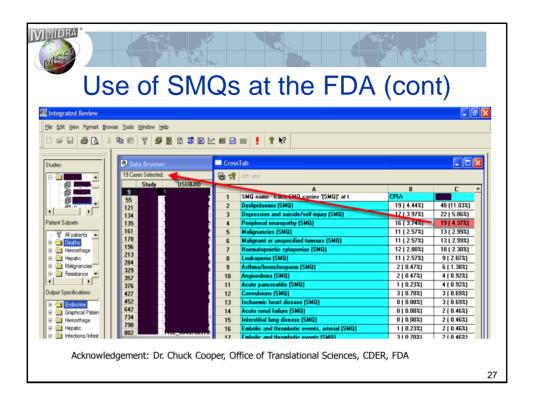


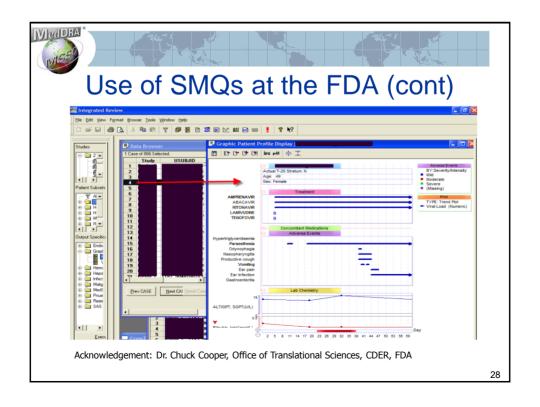
SMQ Resources

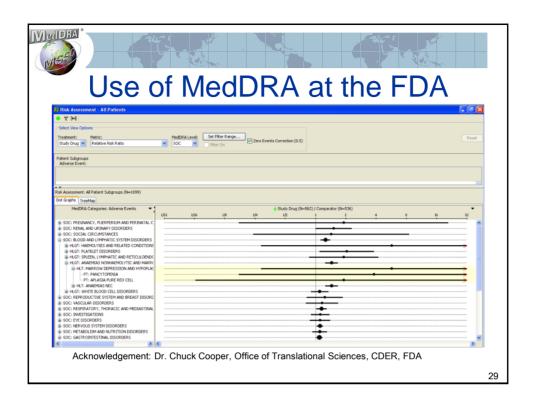
Refer to MSSO Web site for information on SMQs

http://www.meddramsso.com/subscriber_smq.asp









Med DFA	edDRA Train	ning Resource	S
	Free Training	Open Registration Webinars	
	Coding with MedDRA	What's New in MedDRA	
	MedDRA Safety Data Analysis and SMQs	MedDRA Versioning	
	Webinar-MedDRA Coding Basics	Introduction to MedDRA	
	Webinar-Introduction to MedDRA Data Analysis and SMQs for Physicians	Medication Errors and Product Quality Issue Concepts in MedDRA	
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Summary

In this presentation, we:

- Demonstrated the relationship of CTCAE to MedDRA
- Briefly reviewed the structure and scope of MedDRA
- Illustrated how CTCAE 'Other, specify' verbatim reported as MedDRA could facilitate data retrieval, presentation and analysis
- Were introduced to MedDRA Standardized MedDRA Queries (SMQs)
- Presented options for MedDRA training

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