

Adverse Event Terminology and Coding Working Group

March 2019

Working Group Chair:

H. Ishikawa

Office of Standards and Compliance for Medical Devices
Pharmaceuticals and Medical Devices Agency



Overview of IMDRF AE WG

NWIP

Initial submission: September 2014

Not adopted

Followed by discussions in the small expert WG

Adoption: March 2015

Mission;

Development of a harmonized terminology for reporting adverse events related to medical devices including in-vitro diagnostics (IVDs).

Purpose;

To improve the efficiency of the adverse event management systems for faster response by both industry and regulatory agencies, with the use of a single, appropriate adverse event terminology and coding system.

Benefits;

- Improved accuracy of capturing and reporting of medical device related adverse events,
- Reduced ambiguity, hence increased effectiveness of the evaluation process, and
- Better usability, in contrast to narrative text;

for

- More sophisticated signal detection (i.e. the identification of potential novel risks), and
- Trending analysis by incident management systems including advanced querying functions and data visualization.

Thus enabling a faster response by both regulatory agencies and device manufacturers.

Member list

Australia: TGA

Pamela Carter

Jorge Garcia

Brazil: ANVISA

Maria Gloria Vicente

Adriana Moufarrege

Sheila Martins Cordovil

Carla Cruz

Canada: Health Canada

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Tanya Hiebert

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European Union:

Jean-François Roche (EC)

Tony Sant (UK, MHRA)

Claudius Griesinger (EC/JRC)

Graham Nash (UK, MHRA)

Tim Raemaekers (EC/JRC)

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Russia: Roszdravnadzor

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MHLW Ryo Iwase

Akimasa Takeuchi

US: FDA

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Singapore: HSA

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Lailing Liew

South Korea: MFDS

Hyeonho Kim

AHWP: Sasikala Devi Thangavelu

Azat Iskaliyev

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Gulnar Berkimbayeva



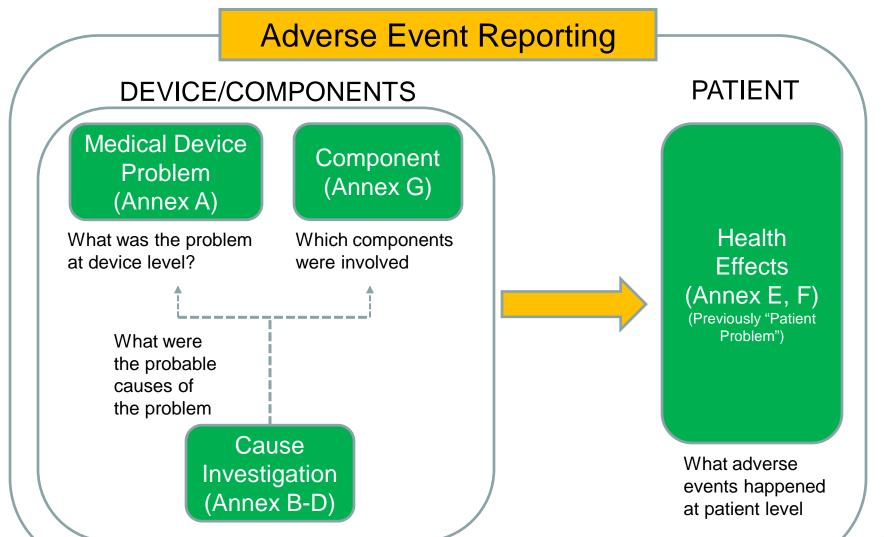
Recent Meetings

- April 16th 20th, 2018
 6th Face to Face meeting in Canberra, Australia
- Nov 14th, 2018
 21st Teleconference
- Nov 26th 30th, 2018
 7th Face to Face meeting in Singapore
- Feb 20th, 2019
 22nd Teleconference

Coming Meetings

March 26th- 29th, 2019
 8th Face to Face meeting in Brazil

INDRF International Medical Device Regulators Forum



Title: IMDRF terminologies for categorized Adverse Event Reporting (AER):

Annex G

Annex E, F

Annex B - D

Annex A

Main Body

terms, terminology structure and codes

Main Body: published on April 10th in 2017 revised with the addition of Annexes B, C and D and published as Edition2 on Sep. 21st in 2017.

Annex A (Medical Device Problem): published with mapping on April 10th in 2017; Sep. 21st in 2017 (Edition2)

Annex B – D (Cause Investigation): published with mapping on Sep. 21st in 2017

Annex E, F (Health Effects): submitted for approval as Final Document

Annex G (Component): Under discussion



Annex E and F: Health Effects Terms and Codes

- Based on FDA terms and refers to MedDRA
 As a response to some public comments, the WG has decided to provide mapping information with MedDRA terms/codes, cooperating with MedDRA.
- 2 annexes

Annex E: Clinical Signs, Symptoms and Conditions (3 levels)

(Structured according to Organ / Physiological system)

Annex F: Health Impact (3 levels)

(e.g., death, hospitalization, unexpected medical intervention)

- Consists of IMDRF codes, terms and definitions
- Coding principles are the same as Annex A-D.



Annex E and F: Health Effects Terms and Codes

Annex E

Clinical Signs, Symptoms and Conditions

e.g. Paralysis Keratitis Burn Fracture

Category (Level 1) (Organs, Systems, Disorders, Concepts)

Annex F | Health Impact

e.g. Death

Delay to Diagnosis/Treatment/Therapy
Hospitalisation or Prolonged Hospitalisation
Inadequate/Inappropriate Treatment
Minor Injury/ Illness/Impairment
Serious Public Health Treat/Injury/Illness/Impariment
Misdiagnosis/Misclassification
Intervention/Medical Intervention



Annex E: Clinical Signs, Symptoms and Conditions

No./ Category (Level 1) (Organs, Systems, Disorders, Concepts)	
1. Nervous System	14. Reproductive System and Breast
2. Mental, Emotional and Behavioural Disorders	15. Pregnancy, Childbirth and the Puerperium
3. Blood and Lymphatic System	16. Musculoskeletal System
4. Immune System	17. Skin and Subcutaneous Tissue
5. Vascular System	18. Neoplasms Benign, Malignant and Unspecified
6. Heart	19. Infections
7. Respiratory System	20. Injury
8. Eye	21. Procedural Complications
9. Ear and Labyrinth	22. Investigations and Diagnostic Tests
10. Gastrointestinal System	23. General Disorders
11. Hepatic and Biliary System	24. Others
12. Metabolism and Nutrition	LIST (all terms in one sheet)
13. Kidney and Urinary Tract	



Annex E Coding system

- Categories are treated as Level 1 with codes but not used for reporting. Categories do not have definitions.
- Basic coding principle is the same as other Annexes.

E XX XX XX

Category Level2 Level3

- The Annex E excel file has a tab with all terms (LIST) and tabs for each category.
- For term which exists in a secondary place, its code is linked to the primary code.



Annex F: Health Impact

Level 1 terms	
Change in Therapeutic Response	Recognised Device or Procedural Complication
Death	Reduction in Life Expectancy
Brain Death	Sedation
Delay to Diagnosis	Rehabilitation
Delay to Treatment/ Therapy	Surgical Intervention
Disruption of Subsequent Medical Procedure	Serious Public Health Threat
Exacerbation of Existing Condition	Unexpected Deterioration
Hospitalization or Prolonged Hospitalization	Unexpected Diagnostic Intervention
Fetal Harm	Unexpected Medical Intervention
Inadequate/Inappropriate Treatment or Diagnostic Exposure	Insufficient Information
Minor Injury/ Illness / Impairment	Unanticipated Adverse Device Effect
Serious Injury/ Illness/ Impairment	No Health Consequences or Impact
Misdiagnosis/ Misclassification	No Patient Involvement
Prolonged Episode of Care	Appropriate Term/Code Not Available

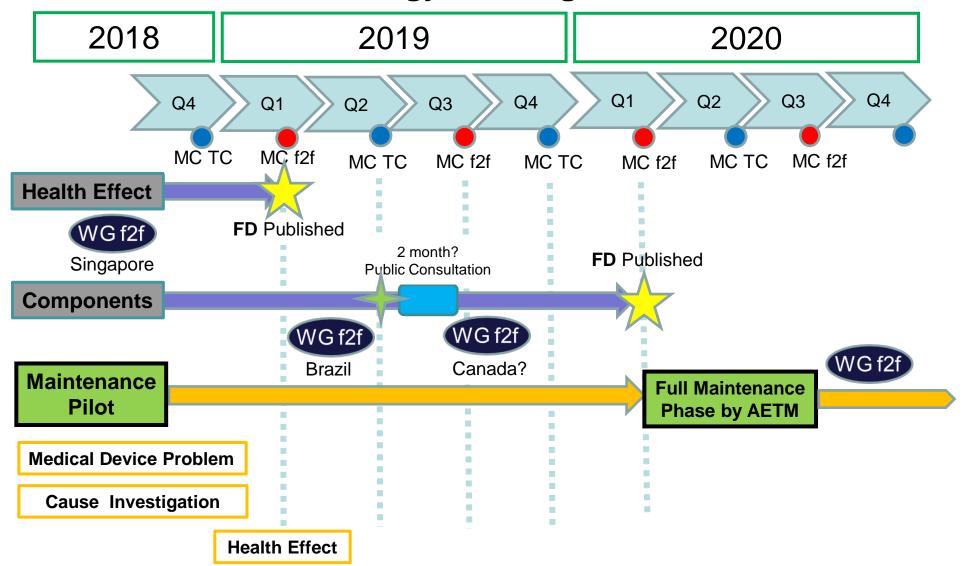


Annex G: Parts and Components

- Based on FDA terms
- Reviewed the terms based on practical usage
- Proposed WD to be submitted for the MC September meeting in 2019
- After 2 month consultation, proposed final document will be submitted to the MC early 2020



AE terminology Working Plan (as of Mar 2019)





Thank you!

