ISO/TS 22703:2021-10 (E)

Health informatics - Requirements for medication safety alerts

Contents

Page

Foreword ... **iv**

Introduction ... **v**

1 Scope ... **1**

2 Normative references ... **1**

3 Terms and definitions ... **1**

4 Abbreviated terms ... **5**

5 Requirements ... **5**

5.1 General ... 5

5.2 Potential medication problem types for medication safety alerts ... 7

5.2.1 General ... 7

5.2.2 Selection of potential medication problem types ... 7

5.2.3 Other potential medication problem types ... 10

5.2.4 Predetermined standards for potential medication problem types ... 10

5.3 Data sources of potential medication problem types and predetermined standards ... 11

5.3.1 Evidence-based resources ... 11

5.3.2 Other resources ... 11

5.3.3 Patient data sources ... 12

5.4 Alert processor ... 12

5.5 Alerting guidelines (methods) ... 14

5.5.1 General ... 14

5.5.2 Severity or safety risk grading ... 14

5.5.3 Alert schema ... 16

5.5.4 Display of medication safety alert ... 16

5.5.5 Alert receivers ... 17

5.5.6 Alert timings ... 18

5.5.7 Alert interventions ... 18

5.5.8 Audit trail ... 18

5.6 Interfaces and relations ... 19

5.6.1 General ... 19

5.6.2 Clinical information system ... 19

5.6.3 Pharmacy information system ... 20

5.6.4 Relation to international standards ... 21

6 Other recommendations ... **21**

6.1 General ... 21

6.2 Pre-development steps ... 22

6.3 Development steps ... 22

6.4 Implementation step ... 23

6.5 Monitoring and management of the system ... 23

Annex A (informative) **Example of definition and requirement of predetermined standards** ... **24**

Annex B (informative) **A flexibility configuration setting screen shot of a CDSS system (a case in Korea)** ... **25**

Annex C (informative) **Recommendations for DDI alert display** ... **27**

Annex D (informative) **An alert display screen shot of a CDSS system (a case in Korea)** ... **31**

Bibliography ... **33**