ISO 19223:2019 (E)

Lung ventilators and related equipment — Vocabulary and semantics

Contents

Foreword

Introduction

1 * Scope

2 Normative references

3 Terms, definitions, symbols, and abbreviated terms

- 3.1 General artificial-ventilation terminology
- 3.2 Breath terminology
- 3.3 Lung inflation terminology
- 3.4 * Time, phase and cycle terminology
- 3.5 * Rate terminology
- 3.5.1 Preferred rate concepts2 2 The terms in this subclause are the designations for the preferred concepts relating to breath rate in this document. Examples of alternative designations for admitted concepts are listed in 3.5.2.
- 3.5.2 Secondary rate concepts — Rate terms for use if required for specific purposes3 3 3.5.1 lists the five principal rate concepts that are necessary for the majority of mode descriptions. Situations might arise where alternative rate concepts are required. Most of these may be formed as post-coordinated terms comprising combinations of simpler terms already defined in this document. The four such terms entered in this subclause are provided only as examples of possible post-coordinated terms.
- 3.6 Pressure terminology
- 3.7 Flow terminology
- 3.8 Volume terminology
- 3.9 Initiation and termination terminology
- 3.10 * Baseline and PEEP terminology
- 3.11 * Mode terminology
- 3.12 * Bi-level terminology
- 3.13 Safety limits and alarm terminology
- 3.14 Gas port terminology

Annex A (informative) Rationales and guidance

- A.1 General guidance
- A.2 Mental model of ventilation as the basis of this document
- A.3 Guidance followed in the writing of this document
- A.4 Rationales for particular clauses and subclauses

Annex B (informative) Conceptual relationships between ventilator actions and types of breath

Annex C (informative) Illustrations of ventilation terms

Annex D (informative) Classification of inflation-types

- D.1 General
- D.2 Supplementary explanatory notes for the systematic coding scheme defined in the applicable entries of Clause 3 and tabulated in Tables D.1, D.2 and D.3.
- D.2.1
- D.2.2
- D.2.3
- D.2.4
- D.2.5
- D.2.6
- D.2.7

D.2.8
D.2.8.1
D.2.8.2
D.2.8.3
D.2.8.4
D.2.8.5

Annex E (informative) Classification of ventilation-modes

Annex F (informative) Concepts relating to baseline airway pressures and PEEP as used in this document

Annex G (informative) Conventions followed in this document

G.1 Post-coordinated terms
G.2 Use of hyphens
G.3 Flows and pressures
G.4 Measurements
G.5 Multiplicity of terms
G.6 The use of letter symbols to represent defined terms

Annex H (informative) Implementation guidance for the vocabulary of this document

H.1 Recommendations for initial introduction
H.2 Implementation on ventilator labelling

Annex I (informative) Equivalence declaration tables

Annex J (informative) Terminology — Alphabetized index of defined terms

Page count: 140