INTERNATIONAL ISO STANDARD 80601-2-79

First edition 2018-07

Medical electrical equipment —

Part 2-79:

Particular requirements for basic safety and essential performance of ventilatory support equipment for ventilatory impairment iTeh STANDARD PREVIEW

(Appareils électromédicaux 🗡

Partie 2-79: Exigences partículières pour la sécurité de base et les performances essentielles des équipements d'assistance ventilatoire

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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2. www.iso.org/directives

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received. www.iso.org/patents

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

ISO 80601-2-79 was prepared by Technical Committee ISO/TC 121, *Anaesthetic and respiratory equipment*, Subcommittee SC 3, *Lung ventilators and related equipment*, and Technical Committee IEC/TC 62, *Electrical equipment in medical practice*, Subcommittee SC D, *Electrical equipment*. The draft was circulated for voting to the national bodies of both ISO and IEC.

https://standards.iteh.ai/catalog/standards/sist/fdb01701-4d64-4d89-8ac6-This first edition of ISO 80601-2-79, in combination with ISO 80601-2-80^{[1]1}, cancels and replaces ISO 10651-6:2004^[2]. This edition of ISO 80601-2-79 constitutes a major technical revision of ISO 10651-6:2004 and includes an alignment with the third edition of IEC 60601-1, the fourth edition of IEC 60601-1-2, the third edition of IEC 60601-1-6, the second edition of IEC 60601-1-11.

The most significant changes are the following modifications:

- splitting the scope of ISO 10651-6:2004^[2] into two parts:
 - one for VENTILATORY IMPAIRMENT, also known as RESPIRATORY IMPAIRMENT, (this document) and
 - one for VENTILATORY INSUFFIENCY, also known as RESPIRATORY INSUFFICIENCY (ISO 80601-2-80);
- extending the scope to include the VENTILATORY SUPPORT EQUIPMENT and its ACCESSORIES, where the characteristics of those ACCESSORIES can affect the BASIC SAFETY or ESSENTIAL PERFORMANCE of the VENTILATORY SUPPORT EQUIPMENT, and thus not the VENTILATORY SUPPORT EQUIPMENT itself;
- identification of ESSENTIAL PERFORMANCE for VENTILATORY SUPPORT EQUIPMENT and its ACCESSORIES;

and the following additions:

— tests for ventilation performance;

¹ Numbers in square brackets refer to the Bibliography.

- tests for mechanical strength (via IEC 60601-1-11);
- new symbols;
- requirements for VENTILATORY SUPPORT EQUIPMENT as a component of an ME SYSTEM;
- tests for ENCLOSURE integrity (water ingress via IEC 60601-1-11);
- tests for CLEANING and DISINFECTION PROCEDURES (via IEC 60601-1-11);
- consideration of contamination of the breathing gas delivered to the PATIENT from the GAS PATHWAYS.

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Introduction

This document specifies requirements for VENTILATORY SUPPORT EQUIPMENT that is intended for use in the HOME HEALTHCARE ENVIRONMENT for PATIENTS who are not dependent on ventilation for their life support. VENTILATORY SUPPORT EQUIPMENT is frequently used in locations where SUPPLY MAINS is not reliable. VENTILATORY SUPPORT EQUIPMENT is often supervised by non-healthcare personnel (LAY OPERATORS) with varying levels of training. VENTILATORY SUPPORT EQUIPMENT complying with this document can be used elsewhere (i.e. in healthcare facilities).

Ventilatory support is often needed for PATIENTS who have stable ventilatory needs. This document addresses PATIENTS who have significant respiratory dysfunction resulting in an abnormality of a sufficient degree to be noticeable by the PATIENT. This is best characterized by lung functions not worse than^[3]:

- $FEV_1/FVC^2 < 70 \%$; or
- 50 % ≤ FEV₁ < 80 % predicted

where

FEV₁ is the forced expiratory volume in 1 s, and

FVC is the forced vital capacity.

Examples of diseases that require ventilation support are

- mild to moderate Chronic Obstructive Pulmonary Disease (COPD);
- neuromuscular/ amyotrophic lateral sclerosis (ALS);
- obese Patients Obese Hypoventilation Syndrome (OHS); https://standards.itch.avcatalog/standards/sis/fdb01701-4d64-4d89-8ac6-
- Cheyne–Stokes respiration (CSR/CSA).

CSR/CSA is an abnormal pattern of breathing characterized by progressively deeper and sometimes faster breathing, followed by a gradual decrease that results in a temporary stop in breathing called an apnoea. The pattern repeats, with each cycle usually taking 30 s to 2 min.

Cardiac Patients with CSR/CSA might be breathless without having significant reduction in FEV_1 . Reducing the work of breathing can help normalize their breathing.

This ventilatory support equipment is intended for patients who are spontaneously breathing and do not require ventilation for life support or intermittent periods of ventilation to maintain vital signs. Ventilatory support equipment intended for this group of patients typically does not require physiological alarm conditions as no essential performance exists. These patients can gain adequate relief from fatigue related to the work of breathing by using ventilatory support equipment during the night and while taking breaks during the day. This can enable a patient with ventilatory impairment to continue to move about and participate in the activities of daily living. Non-transit-operable ventilatory support at the bedside and beside a chair or other resting place should be adequate in this application.

This publication has been drafted in accordance with the ISO/IEC Directives, Part 2.

In this document, the following print types are used:

— Requirements and definitions: roman type;

² This is also known as the Tiffeneau-Pinelli index.

- Test specifications: italic type;
- Informative material appearing outside of tables, such as notes, examples and references: in smaller type;
 normative text of tables is also in a smaller type;
- TERMS DEFINED IN CLAUSE 3 OF THE GENERAL STANDARD3, IN THIS DOCUMENT OR AS NOTED: SMALL CAPITALS.

In referring to the structure of this document, the term

- "clause" means one of the five numbered divisions within the table of contents, inclusive of all subdivisions (e.g. Clause 201 includes subclauses 201.7, 201.8);
- "subclause" means a numbered subdivision of a clause (e.g. 201.7, 201.8 and 201.9 are all subclauses of Clause 201).

References to clauses within this document are preceded by the term "Clause" followed by the clause number. References to subclauses within this particular document are by number only.

In this document, the conjunctive "or" is used as an "inclusive or" so a statement is true if any combination of the conditions is true.

The verbal forms used in this document conform to usage described in ISO/IEC Directives, Part 2. For the purposes of this document, the auxiliary verb:

- "shall" means that compliance with a requirement or a test is mandatory for compliance with this document;
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- "should" means that compliance with a requirement or a test is recommended but is not mandatory for compliance with this document;

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- "may" is used https://describe.ipermissionta(e.g.ls/aistpermissible/4way9-to-cachieve compliance with a requirement or test); ce3a08da670e/iso-80601-2-79-2018
- "can" is used to describe a possibility or capability; and
- "must" is used express an external constraint.

An asterisk (*) as the first character of a title or at the beginning of a paragraph or table title indicates that there is guidance or rationale related to that item in Annex AA.

The ISO and IEC 80601 family of documents are also parts of the IEC 60601 family of documents

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³ The general standard is IEC 60601-1:2005+AMD1:2012, Medical electrical equipment – Part 1: General requirements for basic safety and essential performance.

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Medical electrical equipment

Part 2-79:

Particular requirements for the basic safety and essential performance of ventilatory support equipment for ventilatory impairment

201.1 Scope, object and related standards

IEC 60601-1:2005+AMD1:2012, Clause 1, applies, except as follows:

201.1.1 * Scope

Replacement:

This document applies to the BASIC SAFETY and ESSENTIAL PERFORMANCE of VENTILATORY SUPPORT EQUIPMENT, as defined in 201.3.205, for VENTILATORY IMPAIRMENT, as defined in 201.3.202, hereafter also referred to as ME EQUIPMENT, in combination with its ACCESSORIES:

- intended for use in the home healthcare environment; REVIEW
- intended for use by a LAY OPERATOR, and ards.iteh.ai)
- intended for use with PATIENTS who have venthatory impairment, the most fragile of these PATIENTS, would not likely experience injury with the loss of this artificial ventilation; and cc3a08da670e/iso-80601-2-79-2018
- not intended for PATIENTS who are dependent on artificial ventilation for their immediate life support.
- EXAMPLE 1 PATIENTS with mild to moderate chronic obstructive pulmonary disease (COPD).
- NOTE 1 In the home healthcare environment, the supply mains is often not reliable.
- NOTE 2 Such VENTILATORY SUPPORT EQUIPMENT can also be used in non-critical care applications of professional health care facilities.

This document is also applicable to those ACCESSORIES intended by their MANUFACTURER to be connected to the BREATHING SYSTEM of VENTILATORY SUPPORT EQUIPMENT for VENTILATORY IMPAIRMENT, where the characteristics of those ACCESSORIES can affect the BASIC SAFETY or ESSENTIAL PERFORMANCE of the VENTILATORY SUPPORT EQUIPMENT for VENTILATORY IMPAIRMENT.

EXAMPLE 2 Breathing sets, connectors, water traps, expiratory valve, HUMIDIFIER, BREATHING SYSTEM FILTER, external electrical power source, DISTRIBUTED ALARM SYSTEM.

If a clause or subclause is specifically intended to be applicable to ME EQUIPMENT only, or to ME SYSTEMS only, the title and content of that clause or subclause will say so. If that is not the case, the clause or subclause applies both to ME EQUIPMENT and to ME SYSTEMS, as relevant.

HAZARDS inherent in the intended physiological function of ME EQUIPMENT or ME SYSTEMS within the scope of this document are not covered by specific requirements in this document except in IEC 60601-1:2005+AMD1:2012, 7.2.13 and 8.4.1.

NOTE 3 Additional information can be found in IEC 60601-1:2005+AMD1:2012, 4.2.

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This document does not specify the requirements for:

- VENTILATORS or ACCESSORIES for VENTILATOR-DEPENDENT PATIENTS intended for critical care applications, which are given in ISO 80601-2-12;
- VENTILATORS or ACCESSORIES intended for anaesthetic applications, which are given in ISO 80601-2-13^[4];
- VENTILATORS or ACCESSORIES intended for the emergency medical services environment, which are given in ISO 80601-2-84 [5] 4, the future replacement for ISO 10651-3[6];
- VENTILATORS or ACCESSORIES intended for VENTILATOR-DEPENDENT PATIENTS in the HOME HEALTHCARE ENVIRONMENT, which are given in ISO 80601-2-72;
- VENTILATORY SUPPORT EQUIPMENT or ACCESSORIES intended for VENTILATORY INSUFFICIENCY, which are given in ISO 80601-2-80^[1];
- sleep apnoea therapy ME EQUIPMENT, which are given in ISO 80601-2-70[7];
- continuous positive airway pressure (CPAP) ME EQUIPMENT;
- high-frequency jet VENTILATORS (HFJVs);
- high-frequency oscillatory VENTILATORS (HFOVS)[8]: PREVIEW
- oxygen therapy constant flow ME EQUIPMENT; (Standards.iteh.ai)
- cuirass or "iron-lung" ventilation equipment.

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This document is a document in the IEC 60601 and IEC/ISO 80601 series of documents.

201.1.2 Object

Replacement:

The object of this document is to establish particular BASIC SAFETY and ESSENTIAL PERFORMANCE requirements for VENTILATORY SUPPORT EQUIPMENT, as defined in 201.3.205, and its ACCESSORIES.

NOTE Accessories are included because the combination of the Ventilatory support equipment and the accessories needs to be adequately safe. Accessories can have a significant impact on the basic safety or essential performance of the Ventilatory support equipment.

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⁴ Under preparation. Stage at the time of publication: ISO/DIS 80601-2-84:2017.

201.1.3 Collateral standards

Addition:

This document refers to those applicable collateral standards that are listed in Clause 2 of the general standard and Clause 201.2 of this document.

IEC 60601-1-2:2014, IEC 60601-1-6:2010+AMD1:2013, and IEC 60601-1-11:2015 apply as modified in Clauses 202, 206 and 211 respectively. IEC $60601-1-3^{[26]}$ does not apply. All other published collateral standards in the IEC 60601-1 series apply as published.

201.1.4 Particular standards

Replacement:

In the IEC 60601 series, particular standards may modify, replace or delete requirements contained in the general standard, including the collateral standards, as appropriate for the particular ME EQUIPMENT under consideration, and may add other BASIC SAFETY or ESSENTIAL PERFORMANCE requirements.

A requirement of a particular standard takes priority over the general standard.

For brevity, IEC 60601-1:2005+AMD1:2012 is referred to in this particular document as the general standard. Collateral standards are referred to by their document number.

The numbering of clauses and subclauses of this document corresponds to that of the general standard with the prefix "201" (e.g. 201.1 in this document addresses the content of Clause 1 of the general standard) or applicable collateral standard with the prefix "2xx", where xx is the final digits of the collateral standard document number (e.g. 202.4 in this document addresses the content of Clause 4 of the IEC 60601-1-2 collateral standard, 211.10 in this document addresses the content of Clause 10 of the IEC 60601-1-11 collateral standard, etc.). The changes to the text of the general standard are specified by the use of the following words:

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"Replacement" means that the clause of subclause of the general standard or applicable collateral standard is replaced completely by the text of this document.

"Addition" means that the text of this document is additional to the requirements of the general standard or applicable collateral standard.

"Amendment" means that the clause or subclause of the general standard or applicable collateral standard is amended as indicated by the text of this document.

Subclauses, figures or tables that are additional to those of the general standard are numbered starting from 201.101. However, due to the fact that definitions in the general standard are numbered 3.1 through 3.147, additional definitions in this document are numbered beginning from 201.3.201. Additional annexes are lettered AA, BB, etc., and additional items aa), bb), etc.

Subclauses, figures or tables which are additional to those of a collateral standard are numbered starting from 20x, where "x" is the number of the collateral standard, e.g. 202 for IEC 60601-1-2, 203 for IEC 60601-1-3, etc.

The term "this document" is used to make reference to the general standard, any applicable collateral standards and this particular standard taken together.

Where there is no corresponding clause or subclause in this particular document, the clause or subclause of the general standard or applicable collateral standard, although possibly not relevant, applies without modification; where it is intended that any part of the general standard or applicable collateral standard, although possibly relevant, is not to be applied, a statement to that effect is given in this particular document.

201.2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

NOTE 1 The way in which these referenced documents are cited in normative requirements determines the extent (in whole or in part) to which they apply.

NOTE 2 Informative references are listed in the Bibliography.

IEC 60601-1:2005+AMD1:2012, Clause 2, applies, except as follows:

Replacement:

IEC 60601-1-2:2014, Medical electrical equipment — Part 1-2: General requirements for basic safety and essential performance — Collateral standard: Electromagnetic disturbances — Requirements and tests

IEC 60601-1-6:2010⁵, Medical electrical equipment — Part 1-6: General requirements for basic safety and essential performance — Collateral standard: Usability *+Amendment 1:2013*+Amendment 1:2013

IEC 60601-1-8:2006⁶, Medical electrical equipment — Part 1-8: General requirements for basic safety and essential performance — Collateral standard: General requirements, tests and guidance for alarm systems in medical electrical equipment and medical electrical systems+Amendment 1:2012

IEC 60601-1-11:2015, Medical electrical equipment \triangle Part 1-11: General requirements for basic safety and essential performance — Collateral standard: Requirements for medical electrical equipment and medical electrical systems used in the home healthcare environment

IEC 61672-1:2013, Electroacoustics — Sound level meters 2013, Elec

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Addition:

ISO 3744:2010, Acoustics — Determination of sound power levels and sound energy levels of noise sources using sound pressure — Engineering methods for an essentially free field over a reflecting plane

ISO 4135:2001, Anaesthetic and respiratory equipment — Vocabulary

ISO 4871:1996, Acoustics — Declaration and verification of noise emission values of machinery and equipment

ISO 5356-1:2015, Anaesthetic and respiratory equipment — Conical connectors — Part 1: Cones and sockets

ISO 5367:2014, Anaesthetic and respiratory equipment — Breathing sets and connectors

ISO 7396-1:2016, Medical gas pipeline systems — Part 1: Pipeline systems for compressed medical gases and vacuum

ISO 8836:2014, Suction catheters for use in the respiratory tract

ISO 9000:2015, Quality management systems — Fundamentals and vocabulary

 $^{^{5}}$ There exists a consolidated edition 3.1(2013) including IEC 60601-1-6:2010 and its Amendment 1:2013.

⁶ There exists a consolidated edition 2.1(2012) including IEC 60601-1-8:2006 and its Amendment 1:2012.

ISO 9360-1:2000, Anaesthetic and respiratory equipment — Heat and moisture exchangers (HMEs) for humidifying respired gases in humans — Part 1: HMEs for use with minimum tidal volumes of 250 ml

ISO 9360-2:2001, Anaesthetic and respiratory equipment — Heat and moisture exchangers (HMEs) for humidifying respired gases in humans — Part 2: HMEs for use with tracheostomized patients having minimum tidal volumes of 250 ml

ISO 15223-1:2016, Medical devices — Symbols to be used with medical device labels, labelling and information to be supplied — Part 1: General requirements

ISO 16142-1:2016, Medical devices — Recognized essential principles of safety and performance of medical devices — Part 1: General essential principles and additional specific essential principles for all non-IVD medical devices and guidance on the selection of standards

ISO 17510:2015, Medical devices — Sleep apnoea breathing therapy — Masks and application accessories

ISO 17664:2017, Processing of health care products — Information to be provided by the medical device manufacturer for the processing of medical devices

ISO 18562-1:2017, Biocompatibility evaluation of breathing gas pathways in healthcare applications — Part 1: Evaluation and testing within a risk management process

ISO 23328-1:2003, Breathing system filters for anaesthetic and respiratory use — Part 1: Salt test method to assess filtration performance STANDARD PREVIEW

ISO 23328-2:2002, Breathing system filters for anaesthetic and respiratory use — Part 2: Non-filtration aspects

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ISO 80369-1:2010, Small-bore connectors for liquids and gases in healthcare applications — Part 1: General requirements cc3a08da670e/iso-80601-2-79-2018

ISO 80369-7:2016, Small-bore connectors for liquids and gases in healthcare applications — Part 7: Connectors for intravascular or hypodermic applications

ISO 80601-2-12:-7, Medical electrical equipment — Part 2-12: Particular requirements for basic safety and essential performance of critical care ventilators

ISO 80601-2-72:2015, Medical electrical equipment — Part 2-72: Particular requirements for basic safety and essential performance of home healthcare environment ventilators for ventilator-dependent patients

ISO 80601-2-74:2017, Medical electrical equipment — Part 2-74: Particular requirements for basic safety and essential performance of respiratory humidifying equipment

IEC 60601-1:20058, Medical electrical equipment — Part 1: General requirements for basic safety and essential performance +Amendment 1:2012

IEC 62366-1:2015, Medical devices — Part 1: Application of usability engineering to medical devices

EN 15986:2011, Symbol for use in the labelling of medical devices — Requirements for labelling of medical devices containing phthalates

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 $^{^{7}}$ To be published. Stage at time of publication ISO/FDIS 80601-2-12:2018.

⁸ There exists a consolidated edition 3.1(2012) including IEC 60601-1:2005 and its Amendment 1:2012.

201.3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 4135:2001, ISO 7396-1:2016, ISO 8836:2014, ISO 9000:2015, ISO 9360-1:2000, ISO 16142-1:2016, ISO 17510:2015, ISO 17664:2017, ISO 18562-1:2017. ISO 23328-2:2002. IEC 60601-1:2005+AMD1:2012. IEC 60601-1-2:2014. IEC 60601-1-8:2006+AMD1:2012, IEC 60601-1-6:2010+AMD1:2013, IEC 60601-1-11:2015. IEC 62366-1:2015, ISO 80601-2-12:—, ISO 80601-2-72:2015, ISO 80601-2-74:2017 and the following apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- IEC Electropedia: available at http://www.electropedia.org/
- ISO Online browsing platform: available at http://www.iso.org/obp

NOTE An alphabetized index of defined terms is found Annex DD.

201.3.201

HEALTHCARE PROFESSIONAL

term referring to an individual with relevant specialized training, knowledge and skills who provides preventive, curative, promotional or rehabilitative health care services in a systematic way to people, families or communities

EXAMPLE HEALTHCARE PROFESSIONAL OPERATOR.

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Note 1 to entry: The HEALTHCARE PROFESSIONAL OPERATOR is the supervising clinician or the HEALTHCARE PROFESSIONAL responsible for the treatment of a PATIENT ON VENTILATORY SUPPORT EQUIPMENT.

[SOURCE: ISO 80601-2-12:—, definition 201.3.210, modified added note.]

201.3.202

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VENTILATORY IMPAIRMENT

RESPIRATORY IMPAIRMENT

clinically significant respiratory dysfunction resulting in an abnormality of a sufficient degree to be noticeable by the PATIENT

Note 1 to entry: PATIENTS with VENTILATORY IMPAIRMENT exhibit a minimal level of illness acuity, fragility, or instability. Their dependence on the VENTILATORY SUPPORT EQUIPMENT to maintain adequate gas exchange is minimal. Without such support as needed, these PATIENTS would likely experience some difficulty with activities that they might normally pursue and this might interfere with daily living. Without ventilatory support as needed, these PATIENTS are likely to experience short periods of abnormal lung gas exchange which can result in them becoming more sedentary.

EXAMPLE PATIENTS with mild to moderate chronic obstructive pulmonary disease (COPD).

Note 2 to entry: Ventilatory support equipment for ventilatory impairment is suitable for use where Physiological ALARM CONDITION monitoring is usually not required because the absence or degradation of the ventilatory support is not likely to cause injury to the PATIENT (i.e. VENTILATORY SUPPORT EQUIPMENT for VENTILATORY IMPAIRMENT has no ESSENTIAL PERFORMANCE).

201.3.203

VENTILATORY INSUFFICIENCY

RESPIRATORY INSUFFICIENCY

degradation in respiratory function severe enough to prohibit certain activities that the PATIENT might normally pursue, and to interfere with daily living; occurring in association with measurements of respiratory mechanics or gas exchange that are markedly abnormal

Note 1 to entry: Patients with ventilatory insufficiency exhibit an illness acuity, fragility or instability level up to and including a moderate to severe degradation in respiratory function. Their dependence on the Ventilatory support equipment to maintain adequate gas exchange can range from minimal to moderate dependence. Without such support, the most fragile of these patients would likely be prohibited from certain activities that they might normally pursue and this would likely interfere with their daily living. The most fragile of these patients would likely experience injury with the loss of this artificial ventilation.

EXAMPLES PATIENTS with moderate to severe chronic obstructive pulmonary disease (COPD), amyotrophic lateral sclerosis (ALS), severe bronchopulmonary dysplasia and muscular dystrophy.

Note 2 to entry: Ventilatory support equipment for respiratory insufficiency is suitable for use where some Physiological alarm condition monitoring is required to prevent the absence or degradation of the ventilatory support, which in turn could cause the compromise of the health of the Patient.

[SOURCE: ISO 80601-2-80:2018^[1], definition 201.3.204]

201.3.204

VENTILATOR

VENTILATOR FOR VENTILATOR-DEPENDENT PATIENT

ME EQUIPMENT intended to augment or provide ventilation of the lungs of a PATIENT who is dependent on this ventilation in the HOME HEALTHCARE ENVIRONMENT

Note 1 to entry: For the purposes of this part of ISO 80601, dependent means needed for the majority of the day (e.g. an average need of more than 16 h of ventilation per day).

Note 2 to entry: A VENTILATOR FOR VENTILATOR-DEPENDENT PATIENT is typically used without continuous HEALTHCARE PROFESSIONAL supervision. (Standards.iteh.al)

Note 3 to entry: As this VENTILATOR is intended to be a life-sustaining ME EQUIPMENT or ME SYSTEM. 4d89-8ac6-

ce3a08da670e/iso-80601-2-79-2018 [SOURCE: ISO 80601-2-72:2015, definition 201.3.217, modified, replaced 'supporting' with 'sustaining'.]

201.3.205

VENTILATORY SUPPORT EQUIPMENT

ME EQUIPMENT, suitable for domiciliary use without continuous professional supervision, intended to augment or provide ventilation of the lungs of a PATIENT who is not VENTILATOR-DEPENDENT

Note 1 to entry: Ventilatory support equipment is a type of ventilator, but is not a ventilator for ventilator-dependent patient.

Note 2 to entry: A PATIENT suitable for VENTILATORY SUPPORT EQUIPMENT requires a narrow spectrum of ventilation modalities and monitoring for appropriate management.

[SOURCE: ISO 80601-2-80:2018^[1], definition 201.3.205]

201.4 General requirements

IEC 60601-1:2005+AMD1:2012, Clause 4, applies, except as follows:

201.4.3 ESSENTIAL PERFORMANCE

Additional subclause: