

**Kiirabiautodes kasutatavad patsiendi transpordi
abivahendid. Osa 4: Kokkupandav patsiendi
transporditool**

**Patient handling equipment used in road ambulances -
Part 4: Foldable patient transfer chair**

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

See Eesti standard EVS-EN 1865-4:2012 sisaldab Euroopa standardi EN 1865-4:2012 ingliskeelset teksti.	This Estonian standard EVS-EN 1865-4:2012 consists of the English text of the European standard EN 1865-4:2012.
Standard on jõustunud sellekohase teate avaldamisega EVS Teatajas.	This standard has been endorsed with a notification published in the official bulletin of the Estonian Centre for Standardisation.
Euroopa standardimisorganisatsioonid on teinud Euroopa standardi rahvuslikele liikmetele kättesaadavaks 04.04.2012.	Date of Availability of the European standard is 04.04.2012.
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ICS 11.160

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English Version

**Patient handling equipment used in road ambulances - Part 4:
Foldable patient transfer chair**

Equipements d'ambulances pour le transport des patients -
Partie 4 : Chaise de transport

Krankentransportmittel im Krankenkraftwagen - Teil 4:
Klappbare Patiententragesessel

This European Standard was approved by CEN on 25 February 2012.

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Foreword

This document (EN 1865-4:2012) has been prepared by Technical Committee CEN/TC 239 "Rescue systems", the secretariat of which is held by DIN.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by October 2012, and conflicting national standards shall be withdrawn at the latest by October 2012.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN [and/or CENELEC] shall not be held responsible for identifying any or all such patent rights.

This document supersedes EN 1865:1999.

With respect to EN 1865:1999, the following changes have been made:

- a) foldable patient transport chairs shall be fitted with a mechanism to assist the descent and/or ascent of steps, to minimise the need for manually carrying the patient and chair;
- b) the mass was changed from 10 kg to no more than 15 kg;
- c) the patient restraint-systems shall secure the patient, but at the same time shall permit treatment of the patient;
- d) the standard has been modified/integrated to meet the Medical Device Directive 93/42/EEC requirements.

This document has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association, and supports essential requirements of EU Directive(s).

For relationship with EU Directive(s), see informative Annex ZA, which is an integral part of this document.

This European Standard is a part of EN 1865, *Patient handling equipment used in road ambulances*, which will consist in the future of the following parts:

- *Part 1: General stretcher systems and patient handling equipment;*
- *Part 2: Power assisted stretcher;*
- *Part 3: Heavy duty stretcher;*
- *Part 4: Foldable patient transfer chair;*
- *Part 5: Stretcher support.*

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

1 Scope

This European Standard defines the minimum requirements for the design and performance of foldable patient transfer chairs, which are used for the conveyance of patients to and/or from road ambulances. It aims to ensure patient safety and to minimize the physical effort required by staff operating the equipment.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 980, *Symbols for use in the labelling of medical devices*

EN 1021-1, *Furniture — Assessment of the ignitability of upholstered furniture — Part 1: Ignition source smouldering cigarette*

EN 1041, *Information supplied by the manufacturer of medical devices*

EN 1865-1:2010, *Patient handling equipment used in road ambulances — Part 1: General stretcher systems and patient handling equipment*

EN ISO 14971, *Medical devices — Application of risk management to medical devices (ISO 14971)*

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

3.1
foldable patient transfer chair
device designed to transfer a patient in a sitting position to the road ambulance, but not to be used to transport a patient within the ambulance

4 Requirements

4.1 General

These chairs shall be fitted with a mechanism to assist the descent and/or ascent of steps in order to minimise the need for manual transportation of the patient and chair.

NOTE Examples of mechanisms to assist the descent and/or ascent of stairs are: rolling track belts that span one or more steps and include a means to slow the descent of the chair; a series of rotating wheels that spans each individual step so as to descend/ascend one step at a time.

When foldable patient transfer chairs are operated and maintained in accordance with manufacturer instructions, they should not present any high level of risk. Any identified risk shall be reduced to an acceptable level by using risk management principles in accordance with EN ISO 14971 in normal and single fault condition.

Handles on devices shall lock in their extended positions.

All equipment for the handling of patients shall be free of any sharp edges or deformation that could cause injury to persons or damage to other equipment.