

ICS 11.180
CCS C45



**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 42772-2023

**Application guidelines for ankle foot orthoses of patients after
stroke**

脑卒中踝足矫形器应用指南

Issued on: May 23, 2023

Implemented on: December 1, 2023

**Issued by: State Administration for Market Regulation;
Standardization Administration of the PRC**

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Foreword

This document is in accordance with the provisions of GB/T 1:1-2020 "Guidelines for Standardization Work Part 1: Structure and Drafting Rules for Standardization Documents" drafting: Please note that some contents of this document may refer to patents: The issuing agency of this document assumes no responsibility for identifying patents: This document is proposed by the Ministry of Civil Affairs of the People's Republic of China: This document is under the jurisdiction of the National Standardization Technical Committee for Rehabilitation and Special Equipment for the Disabled (SAC/TC148): This document was drafted by: China Association of Assistive Devices for Rehabilitation, First Affiliated Army Medical University (Southwest Hospital), Huazhong University of Science and Technology Tongji Hospital Affiliated to Medical College, Tianyou Hospital Affiliated to Wuhan University of Science and Technology, Sichuan Provincial Bayi Rehabilitation Center (Sichuan Provincial Rehabilitation Hospital), Chinese Standard (Ningde) Technology Co., Ltd., University of Shanghai for Science and Technology, Huashan Hospital Affiliated to Fudan University, Beijing Institute of Social and Vocational Management (Ministry of Civil Affairs training Heart), Guangdong Industrial Injury Rehabilitation Hospital, the Third Affiliated Hospital of Henan University of Traditional Chinese Medicine, and the Fifth Affiliated Hospital of Zhengzhou University: The main drafters of this document: Wu Jixiang, Zhao Zhengquan, He Jianhua, Liu Xidong, Li Lei, Lin Ying, Yu Hongliu, Jia Jie, Wang Bo, Zhang Pengcheng, Lin Yonghui, Deng Xiaoqian, Xie Yi, Zhang Jinsheng: Ankle-Foot Orthosis Application Guidelines for Stroke

1 Scope

GB/T 42772-2023 gives the guidelines for applying ankle-foot orthoses after stroke. Foot drop is the commonest obstacle to walking again after a stroke, and there are a dozen kinds of AFO - thermoplastic, posterior leaf spring, spiral, static, ground reaction, hinged, dynamic - that do quite different things to the gait. Prescribing the wrong one at the wrong stage does not merely fail to help: a rigid orthosis fitted during the flaccid phase can prevent

the recovery of the movement it was meant to substitute for. The standard sets out what each type of orthosis does in stroke rehabilitation, and then the selection of the orthosis at each stage of recovery - the flaccid phase, the spastic phase and the improvement phase - together with the fitting, training and follow-up. It took effect on 1 December 2023.

This document defines the terms and definitions of ankle-foot-orthoses applicable to stroke patients, and provides information on the use of ankle-foot-orthoses in the rehabilitation of stroke patients: It provides guidance for the selection of ankle-foot orthoses for stroke patients in different rehabilitation periods: This document applies to the selection of ankle-foot orthoses for rehabilitation of stroke patients:

2 Normative references

The contents of the following documents constitute the essential provisions of this document through normative references in the text: Among them, dated references For documents, only the version corresponding to the date is applicable to this document; for undated reference documents, the latest version (including all amendments) is applicable to this document:

GB/T 14191:1-2009 Prosthetics and Orthotics Terminology Part 1: Basics of External Limb Prosthetics and External Orthoses the term

GB/T 16432 Classification and terminology of rehabilitation aids WS/T 558-2017 Dietary guidance for stroke patients

3 Terms and Definitions

The following terms and definitions defined in GB/T 14191:1-2009, GB/T 16432 and WS/T 558-2017 apply to this document: 3:1 stroke Cerebral blood circulation disorder and brain tissue function or structural damage caused by cerebrovascular obstruction or rupture:

Note: Divided into two categories, namely ischemic stroke and hemorrhagic stroke, including cerebral hemorrhage, cerebral thrombosis, cerebral embolism, cerebral vasospasm, etc: [Source: WS/T 558-2017, 2:1, with modifications] 3:2 common movement associated movement An uncontrollable combination of body-shaping movements elicited during the performance of an activity: 3:3 isolated movement When performing single-joint movement of limbs, there will be no movement pattern in which adjacent joints move together: 3:4 fine movement It mainly relies on the movement patterns of small muscles or small muscle groups in the hands and fingers: 3:

5 After the onset of stroke, the muscle tone of the limbs decreases, the reflexes disappear, and the stage of inability to maintain voluntary activities: