

# ARTICLE DE REVUE

## Document de base

Original Research Article

CLINICAL  
REHABILITATION

### Physical functioning factors predicting a return home after stroke rehabilitation: A systematic review and meta-analysis

Clinical Rehabilitation  
2023, Vol. 37(12) 1698–1716  
© The Author(s) 2023  
Article reuse guidelines:  
sagepub.com/journals-permissions  
DOI: 10.1177/02692155231185446  
journals.sagepub.com/home/cr



Odile Chevalley<sup>1,2</sup>, Steven Truijen<sup>2</sup>,  
Emmanuelle Opsommer<sup>1,\*</sup>, and Wim Saeys<sup>2,\*</sup>

#### Abstract

**Objectives:** This systematic review and meta-analysis sought to identify the physical functioning factors associated with home discharge after inpatient stroke rehabilitation.

**Data sources:** A search of PubMed, Embase, CINHAL, The Cochrane Library (Trials), Web of Science, and PEDro were conducted up until May 2023.

**Methods:** Two independent reviewers selected studies for population (patients with stroke), predictive factors (physical functioning), outcome (discharge destination), setting (inpatient rehabilitation), and study designs (observational and experimental studies). Predictive factors were identified among assessments of the "body function" and "activity" components of the International Classification of Functioning. Methodological quality was assessed with the Newcastle-Ottawa Scale. The findings used quantitative and narrative syntheses. Meta-analyses were performed with the inverse variance method and the random-effects model using included studies with sufficient data.

**Results:** Forty-five studies were included with 204,787 participants. Included studies assessed the association of independence in activities of daily living, walking, rolling, transferring, and balance on admission with a probability of returning home. Motor (odds ratio = 1.23, 95% confidence interval: 1.12–1.35,  $p < .001$ ) and total (odds ratio = 1.34, 95% confidence interval: 1.14–1.57,  $p < .001$ ) Functional Independence Measure scores on admission were significantly associated with home discharge in meta-analyses. Additionally, included studies showed that independence in motor activities, such as sitting, transferring, and walking, and scores above thresholds for the Functional Independence Measure and Berg Balance Scale on admission were associated with discharge destination.

<sup>1</sup>School of Health Sciences (HESAV), University of Applied Sciences and Arts Western Switzerland (HES-SO), Lausanne, Switzerland  
<sup>2</sup>Department of Rehabilitation Sciences and Physiotherapy, Faculty of Medicine and Health Sciences, University of Antwerp, Antwerp, Belgium

\*These authors share the last authorship.

**Corresponding author:**  
Odile Chevalley, Haute École de Santé Vaud, University of Applied Sciences and Arts Western Switzerland (HES-SO),  
Avenue de Besanmont 21, 1011 Lausanne, Switzerland.  
Email: odile.chevalley@hesav.ch

## Dans Zotero

Type de document	Article de revue
Titre	Physical functioning factors predicting a return home after stroke rehabilitation: A systematic review and meta-analysis
Auteur	Chevalley, Odile
Auteur	Truijen, Steven
Auteur	Opsommer, Emmanuelle
Auteur	Saeys, Wim
Publication	Clinical Rehabilitation
Volume	37
Numéro	12
Pages	1698-1716
Date	2023-12-01
Collection	
Titre de la coll.	
Texte de la coll.	
Abrév. de revue	Clin Rehabil
Langue	en
DOI	10.1177/02692155231185446
ISSN	0269-2155
Titre abrégé	Physical functioning factors predicting a return home a...
URL	https://doi.org/10.1177/02692155231185446
Consulté le	22/10/2024 15:32:10
Archive	
Loc. dans l'archive	
Catalogue de bibl.	SAGE Journals
Cote	
Autorisations	
Extra	Publisher: SAGE Publications Ltd STM
Date d'ajout	22/10/2024 15:32:10
Modifié le	22/10/2024 15:32:10

## Référence en format APA 7

Chevalley, O., Truijen, S., Opsommer, E., & Saeys, W. (2023).

Physical functioning factors predicting a return home after stroke rehabilitation : A systematic review and meta-analysis. *Clinical Rehabilitation*, 37 (12), 1698-1716.

<https://doi.org/10.1177/02692155231185446>