

INPLASY

Efficacy of Dual-Task Performance in Predicting Falls in the Elderly Population: A Narrative Review

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ADMINISTRATIVE INFORMATION

Support - Did not receive any support or specific grant from any funding agency in the public, commercial, or not-for-profit sectors.

Review Stage at time of this submission - Preliminary searches.

Conflicts of interest - None declared.

INPLASY registration number: INPLASY202510003

Amendments - This protocol was registered with the International Platform of Registered Systematic Review and Meta-Analysis Protocols (INPLASY) on 2 January 2025 and was last updated on 2 January 2025.

INTRODUCTION

Review question / Objective To determine the Efficacy of Dual-Task Performance in Predicting Falls in the Elderly Population.

Rationale Falls are the most prevalent problem among the elderly which also leads to increased morbidity and mortality rate. To find out the Efficacy of Dual-Task Performance in Predicting Falls in the Elderly Population.

Condition being studied Geriatrics Population.

METHODS

Search strategy An electronic search on different database → PUBMED, Scopus, Physiotherapy Evidence Database (PEDro), Cumulative Index to Nursing and Allied Health Literature (CINAHL), Web of Science (WoS) and Cochrane will be conducted for research published during time period (January 2015- December 2024) , using Medical Subject Headings (MeSH) for “Dual-Task ”AND “ Dual-Task

Performance” AND “ Elderly Population” AND “Falls in Elderly” AND “Geriatrics population”. The ‘OR’ search terms used for (MeSH) keywords and were combined with AND’ and searched in ‘All Fields’.

Participant or population Geriatrics Population.

Intervention Not Applicable.

Comparator Not Applicable.

Study designs to be included Narrative Review Study.

Eligibility criteria

Published in English.

Correlational and Observational studies from January 2015 to December 2024 evaluating dual-task performance in Predicting Falls in the elderly population will be considered.

Gender: Both males and females.

Age (years): 60 to 75.

Full-text articles will be included.

Information sources PUBMED, Scopus, Physiotherapy Evidence Database (PEDro), Cumulative Index to Nursing and Allied Health Literature (CINAHL), Web of Science (WoS), and Cochrane.

Main outcome(s) Dual-Task Performance in Predicting Falls.

Additional outcome(s) Nil.

Data management Articles post screening and selection; the selected articles important information will be extracted by the second author. The information about the type of the study, study participant population, the kind and length of the intervention, the outcomes will be assessed. The accuracy and consistency of the data will be examined.

Quality assessment / Risk of bias analysis PedRo scoring will be done for included articles after identification, screening, and fulfilment of eligibility criteria.

Strategy of data synthesis Reviewers will screen the titles and abstract records. Full-text articles will be obtained for potentially eligible records.

Subgroup analysis It will be done by group analysis to explore heterogeneity.

Sensitivity analysis It will be done to assess the stability of the results and not by chance.

Language restriction English.

Country(ies) involved India.

Other relevant information Not Applicable.

Keywords Dual-Task, Dual-Task Performance, Elderly Population, Falls in Elderly, Geriatrics population.

Dissemination plans The findings of this narrative review will be disseminated through multiple channels to reach a broad audience of researchers, clinicians, and policymakers. The review will be submitted for publication in a peer-reviewed journal focused on rehabilitation or physiotherapy. Additionally, results will be presented at relevant national and international conferences to engage with the professional community. To enhance accessibility, summaries, and key findings will be shared through institutional platforms, social media, and open-access

repositories, ensuring wide reach and impact across healthcare and academic sectors.

Contributions of each author

Author 1 - Sachin Gupta - Conception, Methodology, Data extraction and writing initial draft.

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