

INPLASY PROTOCOL

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submission:** The review has
not yet started.

Conflicts of interest:
None declared.

ASSOCIATION OF DELIRIUM AND FRAGILITY IN HOSPITALIZED ELDERLY: SYSTEMATIC REVIEW

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Review question / Objective: What is the relationship between delirium and frailty in hospitalized elderly people? The objective of this research is to analyze the association between frailty and delirium in hospitalized elderly people, through a systematic literature review.

Condition being studied: Frailty and delirium in hospitalized aged.

Information sources: A specific search strategy for the language of each database was developed using, initially, the Medical Subject Headings (MeSH) descriptor and later translated to specific descriptors (Descriptors in Health Sciences (DeCS) and Embase Subject Headings (Emtree)). The search strategy will be applied by the researchers in the MEDLINE databases through the Pubmed Portal; Scielo; VHL; EMBASE, CINAHL, Scopus and Web of Science through the CAPES Journal Portal; CENTRAL via Cochrane.

INPLASY registration number: This protocol was registered with the International Platform of Registered Systematic Review and Meta-Analysis Protocols (INPLASY) on 07 September 2021 and was last updated on 10 May 2022 (registration number INPLASY202190022).

INTRODUCTION

Review question / Objective: What is the relationship between delirium and frailty in hospitalized elderly people? The objective of this research is to analyze the

association between frailty and delirium in hospitalized elderly people, through a systematic literature review.

Condition being studied: Frailty and delirium in hospitalized aged.

METHODS

Search strategy: MEDLINE - "Aged"[Mesh] OR (Elderly) AND "Frailty"[Mesh] OR (Frailties) OR (Frailness) OR (Frailty Syndrome) OR (Debility) OR (Debilities) OR "Frail Elderly"[Mesh] OR (Elderly, Frail) OR (Frail Elders) OR (Elder, Frail) OR (Elders, Frail) OR (Frail Elder) OR (Functionally-Impaired Elderly) OR (Elderly, Functionally-Impaired) OR (Functionally Impaired Elderly) OR (Frail Older Adults) OR (Adult, Frail Older) OR (Adults, Frail Older) OR (Frail Older Adult) OR (Older Adult, Frail) OR (Older Adults, Frail) AND "Inpatients"[Mesh] OR (Inpatient) OR "Hospitalization"[Mesh] OR (Hospitalizations) AND "Delirium"[Mesh] OR (Subacute Delirium) OR (Delirium, Subacute) OR (Deliriums, Subacute) OR (Subacute Deliriums) OR (Delirium of Mixed Origin) OR (Mixed Origin Delirium) OR (Mixed Origin Delirium) PORTAL BVS - MH:"Idoso" OR (Aged) OR (Anciano) OR (Idoso) OR (Idosos) OR (Pessoa Idosa) OR (Pessoa de Idade) OR (Pessoas Idosas) OR (Pessoas de Idade) OR (População Idosa) OR MH:M01.060.116.100\$ AND MH:"Fragilidade" OR (Frailty) OR (Fragilidad) OR (Debilidade) OR (Fragilidade) OR (Síndrome da Fragilidade) OR MH:C23.550.359\$ OR MH:"Idoso Fragilizado" OR (Frail Elderly) OR (Anciano Frágil) OR (Idoso Fragilizado) OR (Adult, Frail Older) OR (Adults, Frail Older) OR (Elder, Frail) OR (Elderly, Frail) OR (Elderly, Functionally-Impaired) OR (Elders, Frail) OR (Frail Elder) OR (Frail Elders) OR (Frail Older Adult) OR (Frail Older Adults) OR (Functionally Impaired Elderly) OR (Functionally-Impaired Elderly) OR (Older Adult, Frail) OR (Older Adults, Frail) OR MH:M01.060.116.100.540\$ AND MH:"Pacientes Internados" OR (Inpatients) OR (Pacientes Internos) OR (Pacientes Internados) OR MH:M01.643.470\$ OR MH:"Hospitalização" OR (Hospitalization) OR (Hospitalización) OR (Comunicação de Internação Hospitalar) OR (Internação Hospitalar) OR (Internação Voluntária) OR MH:E02.760.400\$ OR MH:N02.421.585.400\$ OR MH:VS3.003.001.002\$ AND MH:"Delírio" OR (Delirium) OR (Delirio) OR (Delírio) OR (Delirium) OR MH:C10.597.606.337.500\$ OR

MH:C23.888.592.604.339.500\$ OR MH:F01.700.250.500\$ OR MH:F03.615.350\$ EMBASE - 'aged'/exp OR (aged patient) OR (aged people) OR (aged person) OR (aged subject) OR (elderly) OR (elderly patient) OR (elderly people) OR (elderly person) OR (elderly subject) OR (senior citizen) OR (senium) AND 'frailty'/exp OR 'frail elderly'/exp AND inpatients use preferred term: hospital patient 'hospital patient'/exp OR (hospitalised patient) OR (hospitalised patients) OR (hospitalized patient) OR (hospitalized patients) OR (in-hospital patient) OR (in-hospital patients) OR (in-patient) OR (in-patients) OR (inpatient) OR (inpatients) OR (patient, hospital) OR 'hospitalization'/exp OR (hospital stay) OR (short stay hospitalization) AND 'delirium'/exp OR (acute delirium) OR (chronic delirium) OR (delier) OR (delire) OR (deliria) OR (delirious manifestation) OR (delirious state) OR (delirious syndrome) OR (delirium acutum) CENTRAL/ Scopus/ Web of Science/ Scielo - (Aged) OR (Elderly) AND (Frailty) OR (Frailties) OR (Frailness) OR (Frailty Syndrome) OR (Debility) OR (Debilities) OR (Frail Elderly) OR (Elderly, Frail) OR (Frail Elders) OR (Elder, Frail) OR (Elders, Frail) OR (Frail Elder) OR (Functionally-Impaired Elderly) OR (Elderly, Functionally-Impaired) OR (Functionally Impaired Elderly) OR (Frail Older Adults) OR (Adult, Frail Older) OR (Adults, Frail Older) OR (Frail Older Adult) OR (Older Adult, Frail) OR (Older Adults, Frail) OR (Frailty) OR (Frailties) OR (Frailness) OR (Frailty Syndrome) OR (Debility) OR (Debilities) AND (Inpatients) OR (Inpatient) OR (Hospitalization) OR (Hospitalizations) AND (Delirium) OR (Subacute Delirium) OR (Delirium, Subacute) OR (Deliriums, Subacute) OR (Subacute Deliriums) OR (Delirium of Mixed Origin) OR (Mixed Origin Delirium) OR (Mixed Origin Delirium).

Participant or population: People over 60 years old.

Intervention: None.

Comparator: delirium and without delirium.

Study designs to be included: Observational studies.

Eligibility criteria: presence of frailty and delirium, hospitalized, age \geq 60 years.

Information sources: A specific search strategy for the language of each database was developed using, initially, the Medical Subject Headings (MeSH) descriptor and later translated to specific descriptors (Descriptors in Health Sciences (DeCS) and Embase Subject Headings (Emtree)). The search strategy will be applied by the researchers in the MEDLINE databases through the Pubmed Portal; Scielo; VHL; EMBASE, CINAHL, Scopus and Web of Science through the CAPES Journal Portal; CENTRAL via Cochrane.

Main outcome(s): To verify the prevalence of frailty in hospitalized elderly and what is the relationship of frailty to delirium development. Once the data record is released, it will search the databases and, if possible, perform a meta-analysis.

Quality assessment / Risk of bias analysis: Newcastle-Ottawa scale.

Strategy of data synthesis: Information including age, percentage of female, authors, years, country, participant type, frailty instruments, delirium criteria, sample size and data. Data will be independently extracted by 2 authors.

Subgroup analysis: We will conduct a subgroup based on delirium instruments to show if frail hospitalized patients are at increased risk for delirium.

Sensitivity analysis: To assess if the study results were stable, we will conduct a sensitivity analysis and will find if the pooled effect size did not have a material change.

Country(ies) involved: Brazil.

Keywords: delirium, Frailty, Aged, Hospitalized patient, inpatient.

Contributions of each author:

Author 1 - Clovis Cechinel - Database research, duplicates removing, article titles and abstracts evaluation and ineligible articles removal, writing of an article and analyses.

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Author 2 - Joao Alberto Martins Rodrigues - Database research, duplicates removing, article titles and abstracts evaluation and ineligible articles removal, and writing of an article and analyses.