

## Detailed search strategies per database, until 15th of June 2020

*PubMed*

("Endarterectomy, Carotid"[Mesh] OR "Carotid Stenosis"[Mesh] OR "Carotid Artery Diseases/surgery"[Majr] OR "carotid endarterectomy"[tiab] OR "carotid stenosis"[tiab] OR "carotid artery stenting"[tiab] OR "carotid revascularization"[tiab] OR "carotid surgery"[ti]) AND ("frail elderly"[Mesh] OR "frailty"[Mesh] OR "geriatric assessment"[Mesh] OR "frail\*"[tiab] OR "geriatric assessment"[tiab] OR "sarcopenia"[Mesh] OR "cognition"[Mesh] OR "physical fitness"[Mesh] OR "walking speed"[Mesh] OR "nutritional status"[Mesh] OR "hand strength"[Mesh] OR "sarcopenia"[tiab] OR "low muscle mass"[tiab] OR "muscle loss"[tiab] OR "muscle atrophy"[tiab] OR "cognit\*"[tiab] OR "physical fitness"[tiab] OR "physical activity"[tiab] OR "walking speed"[tiab] OR "gait speed"[tiab] OR "slowness"[tiab] OR "weakness"[tiab] OR "nutrition\*"[tiab] OR "unintentional weight loss"[tiab] OR "oldest patient\*"[tiab] OR "oldest old"[tiab] OR "vulnerable elder\*"[tiab] OR "hand grip"[tiab] OR "grip strength"[tiab])

*EMBASE*

('carotid endarterectomy'/exp OR 'carotid artery surgery'/exp OR 'carotid endarterectomy':ab,ti OR 'carotid stenosis':ab,ti OR 'carotid artery stenting':ab,ti OR 'carotid revascularization':ab,ti OR 'carotid surgery':ab,ti) AND ('frailty'/exp OR 'frail elderly'/exp OR 'geriatric assessment'/exp OR 'frail\*':ab,ti OR 'geriatric assessment':ab,ti OR 'sarcopenia'/exp OR 'cognition'/exp OR 'walking speed'/exp OR 'nutritional status'/exp OR 'grip strength'/exp OR 'sarcopenia':ab,ti OR 'low muscle mass':ab,ti OR 'muscle loss':ab,ti OR 'muscle atrophy':ab,ti OR 'cognit\*':ab,ti OR 'physical fitness':ab,ti OR 'physical activity':ab,ti OR 'walking speed':ab,ti OR 'gait speed':ab,ti OR 'slowness':ab,ti OR 'weakness':ab,ti OR 'nutrition\*':ab,ti OR 'unintentional weight loss':ab,ti OR 'oldest patient\*':ab,ti OR 'oldest old':ab,ti OR 'vulnerable elder\*':ab,ti OR 'hand grip':ab,ti OR 'grip strength':ab,ti)

*Web of Science*

TS=(("carotid endarterectomy" OR "carotid stenosis" OR "carotid artery stenting" OR "carotid revascularization" OR "carotid surgery") AND ("frail\*" OR "geriatric assessment" OR "sarcopenia" OR "low muscle mass" OR "muscle loss" OR "muscle atrophy" OR "cognit\*" OR "physical fitness" OR "physical activity" OR "walking speed" OR "gait speed" OR "slowness" OR "weakness" OR "nutrition\*" OR "unintentional weight loss" OR "oldest patient\*" OR "oldest old" OR "vulnerable elder\*" OR "hand grip" OR "grip strength"))

*OVIDSP/Medline*

("carotid endarterectomy" OR "carotid stenosis" OR "carotid artery stenting" OR "carotid revascularization" OR "carotid surgery") AND ("frail\*" OR "geriatric assessment" OR "sarcopenia" OR "low muscle mass" OR "muscle loss" OR "muscle atrophy" OR "cognit\*" OR "physical fitness" OR "physical activity" OR "walking speed" OR "gait speed" OR "slowness" OR "weakness" OR "nutrition\*" OR "unintentional weight loss" OR "oldest patient\*" OR "oldest old" OR "vulnerable elder\*" OR "hand grip" OR "grip strength")

*Cochrane*

## ID Search

- #1 MeSH descriptor: [Endarterectomy, Carotid] explode all trees
- #2 MeSH descriptor: [Carotid Stenosis] explode all trees
- #3 (carotid endarterectomy):ti,ab,kw OR (carotid stenosis):ti,ab,kw OR (carotid artery stenting):ti,ab,kw OR (carotid revascularization):ti,ab,kw OR (carotid surgery):ti,ab,kw
- #4 MeSH descriptor: [Frailty] explode all trees
- #5 MeSH descriptor: [Frail Elderly] explode all trees
- #6 MeSH descriptor: [Geriatric Assessment] explode all trees
- #7 MeSH descriptor: [Sarcopenia] explode all trees
- #8 MeSH descriptor: [Cognition] explode all trees
- #9 MeSH descriptor: [Physical Fitness] explode all trees
- #10 MeSH descriptor: [Walking Speed] explode all trees
- #11 MeSH descriptor: [Nutritional Status] explode all trees
- #12 MeSH descriptor: [Hand Strength] explode all trees
- #13 (frail\*):ti,ab,kw OR (geriatric assessment):ti,ab,kw OR (sarcopenia):ti,ab,kw OR (low muscle mass):ti,ab,kw OR (muscle loss):ti,ab,kw
- #14 (muscle atrophy):ti,ab,kw OR (physical fitness):ti,ab,kw OR (physical activity):ti,ab,kw OR (walking speed):ti,ab,kw OR (cognit\*):ti,ab,kw
- #15 (gait speed):ti,ab,kw OR (slowness):ti,ab,kw OR (weakness):ti,ab,kw OR (nutrition):ti,ab,kw OR (unintentional weight loss):ti,ab,kw
- #16 (oldest patient\*):ti,ab,kw OR (oldest old):ti,ab,kw OR (vulnerable elder\*):ti,ab,kw OR (hand grip):ti,ab,kw OR (grip strength):ti,ab,kw
- #17 (#1 OR #2 OR #3) AND (#4 OR #5 OR #6 OR #7 OR #8 OR #9 OR #10 OR #11 OR #12 #13 #15 OR #16)