

Supplemental Digital Content 1 – Search Strategy used in Medline and EMBASE

Medline (PubMed)

| Search | Add to builder | Query | Items found | Time |
|--------------------|---------------------|---|-------------------------|----------|
| #4 | Add | Search (#1 AND #2 AND #3) | 5500 | 12:03:47 |
| #3 | Add | Search (((“Muscle Strength”[MeSH]) OR “Strength” OR “Force” OR “Isometric Force” OR “Maximal Voluntary Contraction” OR “MVC” OR “Power” OR “Velocity” OR “Shortening Velocity” OR “Angular Velocity” OR “Velocity-Dependent” OR “Force-Velocity” OR “Force-Frequency” OR “Power-Velocity” OR “Neuromuscular” OR “Isometric” OR “Dynamic” OR “Concentric” OR “Eccentric” OR “Isokinetic” OR “Isotonic”)) | 1156107 | 12:03:40 |
| #2 | Add | Search (((“Muscle Fatigue”[Mesh]) OR “Fatiguing” OR “Fatigue” OR “Fatigued” OR “Fatigability” OR “Fatiguing Exercise” OR “Fatigue Exercise” OR “Exercise-Induced Fatigue”)) | 82604 | 12:03:34 |
| #1 | Add | Search (((“Aging”[Mesh]) OR (“Aged”[Mesh]) OR (“Aged, 80 and over”[Mesh]) OR “Elderly” OR “Old” OR “Older” OR “Age” OR “Aged” OR “Aging”)) | 6087894 | 12:03:27 |

5,500 2016-07-18

EMBASE

| <input type="checkbox"/> | # ▼ | Searches | Results | Type | Actions | Annotations |
|--------------------------|--|---|-------------|----------|---|-------------|
| <input type="checkbox"/> | 24 | 21 and 22 and 23 | 3521 | Advanced | Display Results More | |
| <input type="checkbox"/> | 23 | 9 or 10 or 11 or 12 or 13 or 14 or 15 or 16 or 17 or 18 or 19 or 20 | 987474 | Advanced | Display Results More | |
| <input type="checkbox"/> | 22 | 5 or 6 or 7 or 8 | 206995 | Advanced | Display Results More | |
| <input type="checkbox"/> | 21 | 1 or 2 or 3 or 4 | 3731805 | Advanced | Display Results More | |
| <input type="checkbox"/> | 20 | neuromuscular*.mp. [mp=title, abstract, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword] | 78160 | Advanced | Display Results More | |
| <input type="checkbox"/> | 19 | ("concentric" or "eccentric" or "isokinetic" or "isotonic").mp. [mp=title, abstract, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword] | 47852 | Advanced | Display Results More | |
| <input type="checkbox"/> | 18 | "isometric force".mp. [mp=title, abstract, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword] | 4080 | Advanced | Display Results More | |
| <input type="checkbox"/> | 17 | dynamic.mp. [mp=title, abstract, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword] | 292544 | Advanced | Display Results More | |

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|--------------------------|----|---|--------|----------|---|
| <input type="checkbox"/> | 16 | "isometric".mp. [mp=title, abstract, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword] | 35409 | Advanced | Display Results More |
| <input type="checkbox"/> | 15 | MVC.mp. [mp=title, abstract, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword] | 5398 | Advanced | Display Results More |
| <input type="checkbox"/> | 14 | "maximal voluntary contraction".mp. [mp=title, abstract, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword] | 2898 | Advanced | Display Results More |
| <input type="checkbox"/> | 13 | exp grip strength/ or exp muscle strength/ or exp strength/ or exp hand strength/ | 99379 | Advanced | Display Results More |
| <input type="checkbox"/> | 12 | exp force/ | 17352 | Advanced | Display Results More |
| <input type="checkbox"/> | 11 | power.mp. [mp=title, abstract, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword] | 263597 | Advanced | Display Results More |
| <input type="checkbox"/> | 10 | velocit*.mp. | 230888 | Advanced | Display Results More |
| <input type="checkbox"/> | 9 | (force-velocit* or force-frequenc*).mp. | 2600 | Advanced | Display Results More |
| <input type="checkbox"/> | 8 | "fatigu* exercis*".mp. [mp=title, abstract, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword] | 494 | Advanced | Display Results More |

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|--------------------------|---|--|---------|----------|---|
| <input type="checkbox"/> | 7 | "exercise-induced".mp. [mp=title, abstract, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword] | 21051 | Advanced | Display Results More |
| <input type="checkbox"/> | 6 | fatigu*.mp. | 187128 | Advanced | Display Results More |
| <input type="checkbox"/> | 5 | exp Muscle Fatigue/ | 10201 | Advanced | Display Results More |
| <input type="checkbox"/> | 4 | old*.mp. | 1472978 | Advanced | Display Results More |
| <input type="checkbox"/> | 3 | exp aging/ | 215782 | Advanced | Display Results More |
| <input type="checkbox"/> | 2 | elderl*.mp. | 372946 | Advanced | Display Results More |
| <input type="checkbox"/> | 1 | exp "Aged, 80 and over"/ or exp Aged/ | 2437778 | Advanced | Display Results More |

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