

1 **Appendix 1: Search strategy for the database MEDLINE.**

2

3 (exp EXERCISE/ OR exp exertion/ OR exp Physical Fitness/ OR exp Exercise Test/
 4 OR exp Exercise Tolerance/ OR exp SpORts/ OR exp Pliability/ OR exp Physical
 5 Endurance/ OR exp physical therapy modalities/ OR exp Exercise/ OR exp
 6 Rehabilitation/ OR (exertion* OR exercis* OR sport* OR physiotherap* OR manipulat*
 7 OR kinesiotherap* OR rehab* OR run* OR jog* OR treadmill* OR swim* OR bicycl*
 8 OR walk* OR muscle strength*).tw. OR ((physical) adj3 (fitness OR therapy)).tw. OR
 9 (physical* adj2 endur*).tw. OR ((strength* OR isometric* OR isotonic* OR isokinetic*
 10 OR aerobic* OR endurance OR weight*) adj3 (exercis* OR train*)).tw. OR (cycle* OR
 11 cycling).tw. OR (row OR rows OR rowing).tw.)

12 AND

13 (exp Magnetic Resonance Imaging/ OR (magnetic resonance imag* OR magnetic
 14 resonance OR MRI OR fMRI or fcMRI OR MR imag* OR Spectroscop* OR cerebral
 15 biochemistry OR diffusion tensor imaging OR DTI OR morphometr* OR default mode
 16 network OR default-mode network OR resting state network OR functional connectivity
 17 OR fmri OR functional magnetic resonance imag* OR functional imag* OR BOLD OR
 18 blood oxygen level dependen* OR functional reorgani?ation OR functional
 19 organi?ation).tw.)

20 AND

21 (exp Brain/ OR exp Gray Matter/ OR exp White Matter/ OR exp Cerebrum/ OR exp
 22 Motor Cortex/ OR exp Thalamus/ OR exp Sensorimotor Cortex/ OR exp
 23 Somatosensory Cortex/ OR (insula OR brain OR cerebrum OR cortex OR cortical OR
 24 cortico* OR motor cortex OR thalamus OR sensorimotor cortex OR somatosensory
 25 cortex OR gr?y matter OR white matter).tw.)

26 AND
27 (exp Pain/ OR exp Chronic Pain/ OR exp Injuries/ OR Radiculopathy/ OR (exp
28 Sprains/ and Strains/) OR (injur* OR pain OR ache OR sore OR stiff OR
29 discomfort).tw.)
30