

Supplementary Material 1. Search Strategy

MEDLINE

Exercise/PA

1. exp Exercise/
2. exp Exercise Therapy/
3. exp Exercise Movement Techniques/
4. exercis*.ti,ab,kw.
5. (physical adj2 activit*).ti,ab,kw.
6. ((resist* or physical or strength or fitness or weight-lift* or circuit or endurance or interval or high-intensit* or aerobic or anaerobic) adj3 (train* or activit* or program*)).ti,ab,kw.
7. (walk* or jog* or run* or swim* or HIIT).ti,ab,kw.
8. (yoga or pilates or "tai chi" or qigong).ti,ab,kw.
9. or/1-8

Cancer

10. exp Neoplasms/
11. (neoplas* or cancer* or tumo?r or malignan* or carcinoma* or adenocarcinoma* or leuk?emia*).ti,ab,kw.
12. (chemotherap* or chemoradiation or radiotherap* or "radiation therap*").ti,ab,kw.
13. or/10-12

Cognition

14. (chemo* adj2 (fog or brain)).ti,ab,kw
15. (brain adj2 fog).ti,ab,kw.
16. exp Cognition/
17. cognition*.ti,ab,kw.
18. exp Cognitive Dysfunction/
19. ((cognit* or neurocognit* or neuropsycholog* or neurobehavio?r* or memory or "problem solv*" or attention or concentrat* or "executive function*" or "executive task*") adj4 (deficit* or declin* or disorder* or function* or dysfunction* or impair* or decrement* or disturb* or problem* or symptom* or sequelae* or domain* or score* or outcome* or process* or performance or benefit*)).ti,ab,kw
20. exp Neurobehavioral Manifestations/
21. (neural adj2 (imag* or activ*)).ti,ab,kw.
22. or/14-21
23. 9 and 13 and 22
24. exp animals/ not humans.sh.
25. 23 not 24

Embase

Exercise/PA

1. exp Exercise/
2. exercis*.ti,ab,kw.
3. (physical adj2 activit*).ti,ab,kw.
4. ((resist* or physical or strength or fitness or weight-lift* or circuit or endurance or interval or high-intensit* or aerobic or anaerobic) adj3 (train* or activit* or program*)).ti,ab,kw.
5. (walk* or jog* or run* or swim* or HIIT).ti,ab,kw.
6. (yoga or pilates or "tai chi" or qigong).ti,ab,kw.
7. or/1-6

Cancer

8. exp Neoplasms/
9. (neoplas* or cancer* or tumo?r or malignan* or carcinoma* or adenocarcinoma* or leuk?emia*).ti,ab,kw.
10. (chemotherap* or chemoradiation or radiotherap* or "radiation therap*").ti,ab,kw.
11. or/8-10

Cognition

12. chemo* adj2 (fog or brain)).ti,ab,kw
13. (brain adj2 fog).ti,ab,kw.
14. cognition/
15. cognition*.ti,ab,kw.
16. exp Cognitive Defect/
17. ((cognit* or neurocognit* or neuropsycholog* or neurobehavio?r* or memory or "problem solv*" or attention or concentrat* or "executive function*" or "executive task*") adj4 (deficit* or declin* or disorder* or function* or dysfunction* or impair* or decrement* or disturb* or problem* or symptom* or sequelae* or domain* or score* or outcome* or process* or performance or benefit*)).ti,ab,kw
18. (neural adj2 (imag* or activ*)).ti,ab,kw.
19. or/12-18
20. 7 and 11 and 19
21. exp animal/ not human/
22. 20 not 21

PsychInfo

Exercise/PA

1. exp Exercise/
2. exercis*.tw.
3. (physical adj2 activit*).tw.
4. ((resist* or physical or strength* or fitness or weight-lift* or circuit or endurance or interval or high-intensit* or aerobic or anaerobic) adj3 (train* or activit* or program*)).tw.
5. (walk* or jog* or run* or swim* or HIIT).tw.
6. (yoga or pilates or "tai chi" or qigong).tw.
7. or/1-6

Cancer

8. exp Neoplasms/
9. (neoplas* or cancer* or tumo?r or malignan* or carcinoma* or adenocarcinoma* or leuk?emia*).tw.
10. (chemotherap* or chemoradiation or radiotherap* or "radiation therap*").tw.
11. or/8-10

Cognition

12. (chemo* adj2 (fog or brain)).tw
13. (brain adj2 fog).tw.
14. exp Cognition/
15. exp Cognitive Ability/
16. cognition*.tw.
17. ((cognit* or neurocognit* or neuropsycholog* or neurobehavio?r* or memory or "problem solv*" or attention or concentrat* or "executive function*" or "executive task*") adj4 (deficit* or declin* or disorder* or function* or dysfunction* or impair* or decrement* or disturb* or problem* or symptom* or sequelae* or domain* or score* or outcome* or process* or performance or benefit*)).tw
18. (neural adj2 (imag* or activ*)).tw.
19. or/12-18
20. 7 and 11 and 19

CINAHL

Cognition

- S19. S7 AND S11 AND S18
- S18. S12 OR S13 OR S14 OR S15 OR S16 OR S17
- S17. TI (neural N2 (imag* or activ*)) OR AB (neural N2 (imag* or activ*))
- S16. TI ((cognit* or neurocognit* or neuropsycholog* or neurobehavio?r* or memory or “problem solv*” or attention or concentrat* or “executive function*” or “executive task*”) N4 (deficit* or declin* or disorder* or function* or dysfunction* or impair* or decrement* or disturb* or problem* or symptom* or sequelae* or domain* or score* or outcome* or process* or performance or benefit*)) OR AB ((cognit* or neurocognit* or neuropsycholog* or neurobehavio?r* or memory or “problem solv*” or attention or concentrat* or “executive function*” or “executive task*”) N4 (deficit* or declin* or disorder* or function* or dysfunction* or impair* or decrement* or disturb* or problem* or symptom* or sequelae* or domain* or score* or outcome* or process* or performance or benefit*))
- S15. TI cognition* OR AB cognition*
- S14. (MH "Cognition")
- S13. TI brain N2 fog OR AB brain N2 fog
- S12. TI (chemo* N2 (fog or brain)) OR AB (chemo* N2 (fog or brain))

Cancer

- S11. S8 OR S9 OR S10
- S10. TI (chemotherap* or chemoradiation or radiotherap* or “radiation therap*”) OR AB (chemotherap* or chemoradiation or radiotherap* or “radiation therap*”) S9.
- S9. TI (neoplas* or cancer* or tumo#r or malignan* or carcinoma* or adenocarcinoma* or leuk#emia*) OR AB (neoplas* or cancer* or tumo#r or malignan* or carcinoma* or adenocarcinoma* or leuk#emia*)
- S8. (MH "Neoplasms+")

Exercise/PA

- S7. S1 OR S2 OR S3 OR S4 OR S5 OR S6
- S6. TI (yoga or pilates or "tai chi" or qigong) OR AB (yoga or pilates or "tai chi" or qigong)
- S5. TI (walk* or jog* or run* or swim* or HIIT) OR AB (walk* or jog* or run* or swim* or HIIT)
- S4. TI ((resist* or physical or strength or fitness or weight-lift* or circuit or endurance or interval or high-intensit* or aerobic or anaerobic) N3 (train* or activit* or program*)) OR AB ((resist* or physical or strength* or fitness or weight-lift* or circuit or endurance or interval or high-intensit* or aerobic or anaerobic) N3 (train* or activit* or program*))
- S3. TI physical N2 activit* OR AB physical N2 activit*
- S2. TI exercise* OR AB exercise*
- S1. (MH “Exercise+”)

Article Title: A scoping review of studies exploring physical activity and cognition among persons with cancer

Journal Name: Journal of Cancer Survivorship

Authors: Jennifer Brunet, PhD^{1,2,3*} & Sitara Sharma, MA¹

***Correspondence should be addressed to:**

Jennifer Brunet, Full Professor

¹ School of Human Kinetics, University of Ottawa

125 University (MNT 339), Ottawa, ON Canada K1N 6N5

² Institut du savoir Montfort, l'Hôpital Montfort, Ottawa, ON Canada

³ Cancer Therapeutic Program, Ottawa Hospital Research Institute, Ottawa, ON Canada

Email: jennifer.brunet@uottawa.ca

Tel.: 613-562-5800 (3068)