

THE EFFECT OF NON-PHARMACOLOGICAL INTERVENTIONS ON COGNITIVE FUNCTION IN CANCER: AN OVERVIEW OF SYSTEMATIC REVIEWS

Supplementary Materials

PART 1

“Gold Set” Of Articles for Text Mining

1. Baydoun, M., Oberoi, D., Flynn, M., Moran, C., McLennan, A., Piedalue, K. L., & Carlson, L. E. (2020). Effects of Yoga-Based Interventions on Cancer-Associated Cognitive Decline: a Systematic Review. *Curr Oncol Rep*, 22(10), 100. doi:10.1007/s11912-020-00960-5
2. Binarelli, G., Joly, F., Tron, L., Lefevre Arbogast, S., & Lange, M. (2021). Management of Cancer-Related Cognitive Impairment: A Systematic Review of Computerized Cognitive Stimulation and Computerized Physical Activity. *Cancers*, 13(20), 14. doi:https://dx.doi.org/10.3390/cancers13205161
3. Egset, K. S., Røkke, M. E., Reinfjell, T., Stubberud, J. E., & Weider, S. (2024). Cognitive and behavioural rehabilitation interventions for survivors of childhood cancer with neurocognitive sequelae: A systematic review. *Neuropsychol Rehabil*, 1-28. doi:10.1080/09602011.2024.2314880
4. Farahani, M. A., Soleimanpour, S., Mayo, S. J., Myers, J. S., Panesar, P., & Ameri, F. (2022). The effect of mind-body exercise on cognitive function in cancer survivors: A systematic review. *Canadian Oncology Nursing Journal*, 32(1), 38-48. doi:https://dx.doi.org/10.5737/236880763213848
5. Fernandes, H. A., Richard, N. M., & Edelstein, K. (2019). Cognitive rehabilitation for cancer-related cognitive dysfunction: a systematic review. *Support Care Cancer*, 27(9), 3253-3279. doi:10.1007/s00520-019-04866-2
6. Floyd, R., Dyer, A. H., & Kennelly, S. P. (2021). Non-pharmacological interventions for cognitive impairment in women with breast cancer post-chemotherapy: A systematic review. *J Geriatr Oncol*, 12(2), 173-181. doi:10.1016/j.jgo.2020.05.012
7. Hines, S., Ramis, M. A., Pike, S., & Chang, A. M. (2014). The effectiveness of psychosocial interventions for cognitive dysfunction in cancer patients who have received chemotherapy: a systematic review. *Worldviews Evid Based Nurs*, 11(3), 187-193. doi:10.1111/wvn.12042
8. Kim, Y., & Kang, S. J. (2019). Computerized programs for cancer survivors with cognitive problems: a systematic review. *J Cancer Surviv*, 13(6), 911-920. doi:10.1007/s11764-019-00807-4
9. Kirkman, M. A., Day, J., Gehring, K., Zienius, K., Grosshans, D., Taphoorn, M., . . . Brown, P. D. (2022). Interventions for preventing and ameliorating cognitive deficits in adults treated with cranial irradiation. *Cochrane Database Syst Rev*, 11(11), Cd011335. doi:10.1002/14651858.CD011335.pub3
10. Kirkman, M. A., Ekert, J. O., Hunn, B. H. M., Thomas, M. S. C., & Tolmie, A. K. (2023). A systematic review of cognitive interventions for adult patients with brain tumours. *Cancer Med*, 12(10), 11191-11210. doi:10.1002/cam4.5760
11. Kuil, L. E., Varkevisser, T., Huisman, M. H., Jansen, M., Bunt, J., Compter, A., . . . Partanen, M. (2024). Artificial and natural interventions for chemotherapy- and / or radiotherapy-induced cognitive impairment: A systematic review of animal studies. *Neurosci Biobehav Rev*, 157, 105514. doi:10.1016/j.neubiorev.2023.105514
12. Liu, Y., Liu, J. E., Chen, S., Zhao, F., Chen, L., & Li, R. (2023). Effectiveness of Nonpharmacologic Interventions for Chemotherapy-Related Cognitive Impairment in Breast Cancer Patients: A Systematic Review and Network Meta-analysis. *Cancer Nurs*, 46(5), E305-E319. doi:10.1097/NCC.0000000000001152
13. Mackenzie, L., & Marshall, K. (2022). Effective non-pharmacological interventions for cancer related cognitive impairment in adults (excluding central nervous system or head and neck cancer): systematic review and meta-analysis. *Eur J Phys Rehabil Med*, 58(2), 258-270. doi:10.23736/S1973-9087.21.06898-2

14. Morean, D. F., O'Dwyer, L., & Cherney, L. R. (2015). Therapies for Cognitive Deficits Associated With Chemotherapy for Breast Cancer: A Systematic Review of Objective Outcomes. *Arch Phys Med Rehabil*, 96(10), 1880-1897. doi:10.1016/j.apmr.2015.05.012
15. Oldacres, L., Hegarty, J., O'Regan, P., Murphy-Coakley, N. M., & Saab, M. M. (2023). Interventions promoting cognitive function in patients experiencing cancer related cognitive impairment: A systematic review. *Psychooncology*, 32(2), 214-228. doi:10.1002/pon.6073
16. Park, J.-H., Jung, S. J., Lee, L. J., Rhu, J., & Bae, S. H. (2023). Impact of nonpharmacological interventions on cognitive impairment in women with breast cancer: A systematic review and meta-analysis. *Asia-Pacific Journal of Oncology Nursing*, 10(4), 100212. doi:https://doi.org/10.1016/j.apjon.2023.100212
17. Yan, X., Wei, S., & Liu, Q. (2023). Effect of cognitive training on patients with breast cancer reporting cognitive changes: a systematic review and meta-analysis. *BMJ Open*, 13(1), e058088. doi:https://dx.doi.org/10.1136/bmjopen-2021-058088
18. Yang, H. Y., Chou, Y. J., & Shun, S. C. (2023). The Effect of Walking Intervention on Cognitive Function Among Patients With Non-Central Nervous System Cancer: A Systematic Review. *Cancer Nurs*, 46(5), 375-385. doi:10.1097/ncc.0000000000001106
19. Zeng, Y., Dong, J., Huang, M., Zhang, J. E., Zhang, X., Xie, M., & Wefel, J. S. (2020). Nonpharmacological interventions for cancer-related cognitive impairment in adult cancer patients: A network meta-analysis. *Int J Nurs Stud*, 104, 103514. doi:10.1016/j.ijnurstu.2019.103514
20. Zimmer, P., Baumann, F. T., Oberste, M., Wright, P., Garthe, A., Schenk, A., . . . Wolf, F. (2016). Effects of Exercise Interventions and Physical Activity Behavior on Cancer Related Cognitive Impairments: A Systematic Review. *BioMed Research International*, 2016, 1820954. doi:https://dx.doi.org/10.1155/2016/1820954

Full Search Strategies

Ovid MEDLINE(R) ALL 1946 to March 12, 2024

1. exp Neoplasms/ or Cancer Survivors/ or Cancer Care Facilities/ or Oncology Service, Hospital/ or exp Medical Oncology/ or Oncology Nursing/ or Cancer Pain/
2. (cancer* or carcinoma* or glioblastoma* or leuk?emia* or lymphoma* or malignan* or neoplasm* or tumor?r or tumor?rs or oncolog*).ti,ab,kf.
3. 1 or 2
4. cognition/ or awareness/ or cognitive reserve/ or comprehension/ or metacognition/ or processing speed/
5. cognition disorders/ or cognitive dysfunction/ or chemotherapy-related cognitive impairment/ or postoperative cognitive complications/
6. attention/ or executive function/
7. memory/ or memory, episodic/ or memory, long-term/ or memory, short-term/ or mental recall/
8. Mental Processes/ or Neurobehavioral Manifestations/ or exp Neuropsychological Tests/ or Problem Solving/
9. thinking/ or concept formation/ or judgment/
10. (chemobrain or chemo-brain or chemofog or chemo-fog or cognit* or concept formation or executive function* or metacognit* or memory or mental process*).ti,ab,kf.
11. (neurobehavioral manifest* or neurocognit* or neuropsychological test* or processing speed).ti,ab,kf.
12. 4 or 5 or 6 or 7 or 8 or 9 or 10 or 11
13. meta-analysis/ or "systematic review"/ or Systematic Reviews as Topic/
14. ((system* or literature) adj2 (review* or search)).ti,ab,kf.

15. (cochrane review or meta-analysis or meta-synthesis or narrative review* or quantitative review* or systematic overview* or prisma or medline or pubmed or embase).ti,ab,kf.
16. (meta analysis or "systematic review").pt.
17. 13 or 14 or 15 or 16
18. 3 and 12 and 17
19. (case reports or comment or editorial or letter or news).pt.
20. 18 not 19

Embase 1974 to 2024 March 12 (Ovid)

1. exp *neoplasm/ or *cancer survivor/ or *cancer patient/ or exp *cancer survival/ or exp *cancer therapy/ or *cancer center/ or exp *oncology/ or *oncology ward/
2. (cancer* or carcinoma* or glioblastoma* or leuk?emia* or lymphoma* or malignan* or neoplasm* or tumo?r or tumo?rs or oncolog*).ti,ab,kf.
3. 3., 1 or 2
4. *chemotherapy-related cognitive impairment/ or *cognitive defect/ or *mild cognitive impairment/ or *postoperative cognitive dysfunction/
5. *cognition/ or *attention/ or *cognitive reserve/ or *executive function/ or *memory/ or *metacognition/ or *processing speed/ or *thinking/ or exp *neuropsychological assessment/
6. (chemobrain or chemo-brain or chemofog or chemo-fog or cognit* or concept formation or executive function* or metacognit* or memory or mental process*).ti,ab,kf.
7. (neurobehavioral manifest* or neurocognit* or neuropsychological test* or processing speed).ti,ab,kf.
8. 4 or 5 or 6 or 7
9. "systematic review"/ or "systematic review (topic)"/ or meta analysis/ or "meta analysis (topic)"/
10. ((system* or literature) adj2 (review* or search)).ti,ab,kf.
11. (cochrane review or meta-analysis or meta-synthesis or narrative review* or quantitative review* or systematic overview* or prisma or medline or pubmed or embase).ti,ab,kf.
12. 9 or 10 or 11
13. 3 and 8 and 12
14. (book or chapter or conference or conference abstract or conference paper or "conference review" or editorial or letter or note).pt.
15. case report.ti.
16. 14 or 15
17. 13 not 16

Ovid Emcare 1995 to 2024 Week 10

1. exp *neoplasm/ or *cancer survivor/ or *cancer patient/ or exp *cancer survival/ or exp *cancer therapy/ or *cancer center/ or exp *oncology/ or *oncology ward/
2. (cancer* or carcinoma* or glioblastoma* or leuk?emia* or lymphoma* or malignan* or neoplasm* or tumo?r or tumo?rs or oncolog*).ti,ab,kf.
3. 1 or 2
4. *chemotherapy-related cognitive impairment/ or *cognitive defect/ or *mild cognitive impairment/ or *postoperative cognitive dysfunction/
5. *cognition/ or *attention/ or *cognitive reserve/ or *executive function/ or *memory/ or *metacognition/ or *processing speed/ or *thinking/ or exp neuropsychological test/
6. (chemobrain or chemo-brain or chemofog or chemo-fog or cognit* or concept formation or executive function* or metacognit* or memory or mental process*).ti,ab,kf.

7. (neurobehavioral manifest* or neurocognit* or neuropsychological test* or processing speed).ti,ab,kf.
8. 4 or 5 or 6 or 7
9. "systematic review"/ or "systematic review (topic)"/ or meta analysis/ or "meta analysis (topic)"/
10. ((system* or literature) adj2 (review* or search)).ti,ab,kf.
11. (cochrane review or meta-analysis or meta-synthesis or narrative review* or quantitative review* or systematic overview* or prisma or medline or pubmed or embase).ti,ab,kf.
12. 9 or 10 or 11
13. 3 and 8 and 12
14. (book or chapter or conference or conference abstract or conference paper or "conference review" or editorial or letter or note).pt.
15. case report.ti.
16. 14 or 15
17. 13 not 16

APA PsycInfo 1806 to March Week 2 2024 (Ovid)

1. exp neoplasms/ or oncology/
2. (cancer* or carcinoma* or glioblastoma* or leuk?emia* or lymphoma* or malignan* or neoplasm* or tumo?r or tumo?rs or oncolog*).ti,ab.
3. 1 or 2
4. cognitive processes/ or exp awareness/ or exp cognition/ or exp cognitive ability/ or cognitive processing speed/ or cognitive reserve/ or exp cognitive strategies/ or concentration/ or exp concept formation/ or exp executive function/ or exp judgment/ or metacognition/ or exp problem solving/ or exp thinking/ or exp cognitive assessment/
5. cognitive impairment/ or mild cognitive impairment/ or neurocognitive disorders/ or memory/
6. (chemobrain or chemo-brain or chemofog or chemo-fog or cognit* or concept formation or executive function* or metacognit* or memory or mental process*).ti,ab.
7. (neurobehavioral manifest* or neurocognit* or neuropsychological test* or processing speed).ti,ab.
8. 4 or 5 or 6 or 7
9. "systematic review"/ or "literature review"/ or meta analysis/
10. ((system* or literature) adj2 (review* or search)).ti,ab.
11. (cochrane review or meta-analysis or meta-synthesis or narrative review* or quantitative review* or systematic overview* or prisma or medline or pubmed or embase).ti,ab.
12. 9 or 10 or 11
13. 3 and 8 and 12

CINAHL (EBSCOhost)

- S1. (MH "Cancer Survivors") OR (MH "Cancer Patients") OR (MH "Cancer Fatigue") OR (MH "Cancer Pain") OR (MH "Chemotherapy, Cancer+") OR (MH "Rehabilitation, Cancer")
- S2. (MH "Neoplasms+") OR (MH "Oncology+") OR (MH "Oncology Nursing+")
- S3. cancer* OR carcinoma* OR glioblastoma* OR leuk#emia* OR lymphoma* OR malignan* OR neoplasm* OR tumo#r OR tumo#rs OR oncolog*
- S4. S1 OR S2 OR S3
- S5. (MH "Cognition Disorders+") OR (MH "Chemotherapy-Related Cognitive Impairment") OR (MH "Mild Cognitive Impairment")
- S6. (MH "Cognition") OR (MH "Processing Speed") OR (MH "Executive Function") OR (MH "Mental Processes") OR (MH "Thinking")

- S7. (MH "Problem Solving") OR (MH "Memory") OR (MH "Neuropsychological Tests+")
- S8. chemobrain OR chemo-brain OR chemofog OR chemo-fog OR cognit* OR "concept formation" OR "executive function*" OR metacognit* OR memory OR "mental process"
- S9. "neurobehavioral manifest*" OR neurocognit* OR "neuropsychological test*" OR "processing speed"
- S10. S5 OR S6 OR S7 OR S8 OR S9
- S11. (MH "Literature Review+") OR (MH "Systematic Review") OR (MH "Scoping Review") OR (MH "Meta Analysis")
- S12. (system* OR literature) N2 (review* OR search)
- S13. "cochrane review" OR meta-analysis OR meta-synthesis OR "narrative review*" OR "quantitative review*" OR "systematic overview*" OR prisma OR medline OR pubmed OR embase
- S14. S11 OR S12 OR S13
- S15. S4 AND S10 AND S14

Cochrane Library (Wiley)

- #1. [mh Neoplasms] OR [mh ^"Cancer Survivors"] OR [mh ^"Cancer Care Facilities"] OR [mh ^"Oncology Service, Hospital"] OR [mh "Medical Oncology"] OR [mh ^"Oncology Nursing"] OR [mh ^"Cancer Pain"]
- #2. cancer*:ti,ab OR carcinoma*:ti,ab OR glioblastoma*:ti,ab OR leuk?emia*:ti,ab OR lymphoma*:ti,ab OR malignan*:ti,ab OR neoplasm*:ti,ab OR tumor*:ti,ab OR tumor?rs:ti,ab OR oncolog*:ti,ab
- #3. #1 OR #2
- #4. [mh ^cognition] OR [mh ^awareness] OR [mh ^"cognitive reserve"] OR [mh ^comprehension] OR [mh ^metacognition] OR [mh ^"processing speed"]
- #5. [mh ^"cognition disorders"] OR [mh ^"cognitive dysfunction"] OR [mh ^"chemotherapy-related cognitive impairment"] OR [mh ^"postoperative cognitive complications"]
- #6. [mh ^attention] OR [mh ^"executive function"]
- #7. [mh ^memory] OR [mh ^"memory, episodic"] OR [mh ^"memory, long-term"] OR [mh ^"memory, short-term"] OR [mh ^"mental recall"]
- #8. [mh ^"Mental Processes"] OR [mh ^"Neurobehavioral Manifestations"] OR [mh ^"Neuropsychological Tests"] OR [mh ^"Problem Solving"]
- #9. [mh ^thinking] OR [mh ^"concept formation"] OR [mh ^judgment]
- #10. chemobrain:ti,ab OR chemo-brain:ti,ab OR chemofog:ti,ab OR chemo-fog:ti,ab OR cognit*:ti,ab OR "concept formation":ti,ab OR ("executive" NEXT function*):ti,ab OR metacognit*:ti,ab OR memory:ti,ab OR ("mental" NEXT process*):ti,ab
- #11. ("neurobehavioral" NEXT manifest*):ti,ab OR neurocognit*:ti,ab OR ("neuropsychological" NEXT test*):ti,ab OR "processing speed":ti,ab
- #12. #4 OR #5 OR #6 OR #7 OR #8 OR #9 OR #10 OR #11
- #13. (system*:ti,ab OR literature:ti,ab) NEAR/2 (review*:ti,ab OR search:ti,ab)
- #14. "cochrane review":ti,ab OR meta-analysis:ti,ab OR meta-synthesis:ti,ab OR ("narrative" NEXT review*):ti,ab OR ("quantitative" NEXT review*):ti,ab OR ("systematic" NEXT overview*):ti,ab OR prisma:ti,ab OR medline:ti,ab OR pubmed:ti,ab OR embase:ti,ab
- #15. MeSH descriptor: [Systematic Review] explode all trees
- #16. #13 OR #14 OR #15
- #17. #3 AND #12 AND #16

PART 2

Supplementary Table 1. Relevant Primary Studies from the SRs

Primary Study	Number of Occurrences in SRs
Barakat LP, Hetzke JD, Foley B, Carey ME, Gyato K, Phillips PC. Evaluation of a social skills training group intervention with children treated for brain tumors: a pilot study. <i>J Pediatr Psychol</i> 2003;28:299-307.	2
C. Zucchella, A. Capone, V. Codella et al., "Cognitive rehabilitation for early post-surgery inpatients affected by primary brain tumor: a randomized, controlled trial," <i>Journal of Neuro- Oncology</i> , vol. 114, no. 1, pp. 93–100, 2013.	2
Cešeiko R, Eglitis J, Srebnij A, et al. The impact of maximal strength training on quality of life among women with breast cancer undergoing treatment. <i>Exp Oncol</i> . 2019;41:166–72.	2
Cox E, Bells S, Timmons BW, Laughlin S, Bouffet E, de Medeiros C, Beera K, Harasym D, Mabbott DJ. A controlled clinical crossover trial of exercise training to improve cognition and neural communication in pediatric brain tumor survivors. <i>Clin Neurophysiol</i> . 2020;131:1533–47. https://doi.org/10.1016/j.clinph.2020.03.027	2
Dolbeault S, Cayrou S, Bré dart A, et al. The effectiveness of a psycho-educational group after early-stage breast cancer treatment: results of a randomized French study. <i>Psychooncology</i> 2009;18:647–56.	2
Ehlers DK, Rogers LQ, Courmeya KS, Robbs RS, McAuley E. Effects of BEAT Cancer randomized physical activity trial on subjective memory impairments in breast cancer survivors. <i>Psycho Oncol</i> . 2018;27:687–690. https://doi.org/10.1002/pon.4438 .	2
Fitzpatrick TR, Edgar L, Holcroft C. Assessing the relationship between physical fitness activities, cognitive health, and quality of life among older cancer survivors. <i>J Psychosoc Oncol</i> . 2012;30:556–72. https://doi.org/10.1080/07347332.2012.703768	2
Freeman LW, White R, Ratcliff CG, et al. A randomized trial comparing live and telemedicine deliveries of an imagery-based behavioral intervention for breast cancer survivors: reducing symptoms and barriers to care. <i>Psycho Oncol</i> . 2015;24: 910–918. https://doi.org/10.1002/pon.3656 .	2
Goedendorp MM, Peters MEWJ, Gielissen MFM, Witjes JA, Leer JW, Verhagen CAHHVM, et al. Is increasing physical activity necessary to diminish fatigue during cancer treatment? comparing cognitive behavior therapy and a brief nursing intervention with usual care in a multicenter randomized controlled trial. <i>Oncology</i> . 2010;15:1122–32.	2
Gokal K, Wallis D, Ahmed S, Boiangiu I, Kancherla K, Munir F. Effects of a self-managed home-based walking intervention on psychosocial health outcomes for breast cancer patients receiving chemotherapy: a randomised controlled trial. <i>Support Care Cancer</i> . 2016;24:1139–66. https://doi.org/10.1007/s00520-015-2884-5	2
Han EY, Chun MH, Kim BR, Kim HJ. Functional improvement after 4-week rehabilitation therapy and effects of attention deficit in brain tumor patients: comparison with subacute stroke patients. <i>Ann Rehabil Med</i> . 2015;39:560-569. doi:10.5535/arm.2015.39.4.560	2
Henke CC, Cabri J, Fricke L, et al. Strength and endurance training in the treatment of lung cancer patients in stages IIIA/IIIB/IV. <i>Support Care Cancer</i> . 2014;22(1):95–101. https://doi.org/10.1007/s00520-013-1925-1 . Medline:23995813	2
Hocking, M.C.; Paltin, I.; Quast, L.F.; Barakat, L.P. Acceptability and Feasibility in a Pilot Randomized Clinical Trial of Computerized Working Memory Training and Parental Problem-Solving Training with Pediatric Brain Tumor Survivors. <i>J. Pediatr. Psychol</i> . 2019, 44, 669–678.	2
Jacobs W, Schagen SB, Thijssen M, Das E. Preventing adverse information effects on health outcomes: a self-affirmation intervention reduced information-induced cognitive decline in gastrointestinal cancer patients. <i>Soc Sci Med</i> . 2019;226:47-55. 10.1016/j.socscimed.2019.02.013	2
Jong MC, Boers I, Schouten van der Velden AP, Meij SV, Goker E, Timmer-Bonte A, van Wietmarschen HA (2018) A randomized study of yoga for fatigue and quality of life in women with breast cancer undergoing (neo) adjuvant chemotherapy. <i>J Altern Complement Med</i> 24(9–10):942–953	2
Kerns KA, Thomson J. Implementation of a compensatory memory system in a school age child with severe memory impairment. <i>Pediatr Rehabil</i> . 1998;2(2):77–87.	2
Kesler, S. R., Lacayo, N. J., & Jo, B. (2011). A pilot study of an online cognitive rehabilitation program for executive function skills in children with cancer-related brain injury. <i>Brain Injury</i> , 25(1), 101–112. doi:10.3109/02699052.2010.536194	2
Knobf MT, Thompson A, Fennie K, Erdos D. The effect of a community-based exercise intervention on symptoms and quality of life. <i>Cancer Nurs</i> . 2013;37:E43–E50.	2
Leach HJ, Danyluk JM, Nishimura KC, Culos-Reed N. Benefits of 24 versus 12 weeks of exercise and wellness programming for women undergoing treatment for breast cancer. <i>Support Care Cancer</i> . 2016;24(11):4597-4606. 10.1007/s00520-016-3302-3	2
Leach HJ, Danyluk JM, Nishimura KC, Culos-Reed SN. Evaluation of a community-based exercise program for breast cancer patients undergoing treatment. <i>Cancer Nurs</i> . 2015;38:417–25. https://doi.org/10.1097/NCC.0000000000000217	2
Matthews EE, et al. Cognitive behavioral therapy for insomnia outcomes in women after primary breast cancer treatment: a randomized, controlled trial. <i>Oncol Nurs Forum</i> . 2014;41(3):241–53.	2
May AM, Korstjens I, van Weert E, van den Borne B, Hoekstra-Weebers JE, van der Schans CP, et al. Long-term effects on cancer survivors' quality of life of physical training versus physical training combined with cognitive-behavioral therapy: results from a randomized trial. <i>Support Care Cancer</i> 2009;17:653–63	2
Mendoza, L.K.; Ashford, J.M.; Willard, V.W.; Clark, K.N.; Martin-Elbahesh, K.; Hardy, K.K.; Merchant, T.E.; Jeha, S.; Wang, F.; Zhang, H.; et al. Social Functioning of Childhood Cancer Survivors after Computerized Cognitive Training: A Randomized Controlled Trial. <i>Children</i> 2019, 6, E105	2
Meneses K, Benz R, Bail JR, et al. Speed of processing training in middle-aged and older breast cancer survivors (SOAR): results of a randomized controlled pilot. <i>Breast Cancer Res Treat</i> 2018;168:259–67.	2
Miotto EC, Balardin JB, Vieira G, et al. Right inferior frontal gyrus activation is associated with memory improvement in patients with left frontal low-grade glioma resection. <i>PLoS One</i> . 2014;9:e105987. doi:10.1371/journal.pone.0105987	2
Moore IM, Hockenberry MJ, Anhalt C, McCarthy K, Krull KR. Mathematics intervention for prevention of neurocognitive deficits in childhood leukemia. <i>Pediatr Blood Cancer</i> 2012;59:278-84.	2
Myers JS, Cook-Wiens G, Baynes R, et al. Emerging from the haze: a multicenter, controlled pilot study of a multidimensional, psychoeducation-based cognitive rehabilitation intervention for breast cancer survivors delivered with telehealth conferencing. <i>Arch Phys Med Rehabil</i> . 2020;101(6):948–959.	2

Palmer, S. L., Leigh, L., Ellison, S. C., Onar-Thomas, A., Wu, S., Qaddoumi, I., ... Gajjar, A. (2014). Feasibility and efficacy of a computer-based intervention aimed at preventing reading decoding deficits among children undergoing active treatment for medulloblastoma: Results of a randomized trial. <i>Journal of Pediatric Psychology</i> , 39(4), 450–458. doi:10.1093/jpepsy/jst095	2
Peterson RK, Longo C, Cunningham T, Janzen L, Guger S, Monteiro L, et al. Impact of home-based cognitive or academic intervention on working memory and mathematics outcomes in pediatric brain tumor survivors: the keys to succeed pilot randomized controlled clinical trial. <i>Child Neuropsychol</i> (2022) 28(8):1116–40. doi: 10.1080/09297049.2022.2061933	2
Rahmani S, Talepasand S, Ghanbary-Motlagh A. Comparison of effectiveness of the metacognition treatment and the mindfulness-based stress reduction treatment on global and specific life quality of women with breast cancer. <i>Iran J Cancer Prev</i> . 2014;7(4):184–96.	2
Rahmani S, Talepasand S. The effect of group mindfulness - based stress reduction program and conscious yoga on the fatigue severity and global and specific life quality in women with breast cancer. <i>Med J Islam Repub Iran</i> . 2015;29:175.	2
Rottmann N, Dalton SO, Bidstrup PE, Würtzen H, Høybye MT, Ross L, et al. No improvement in distress and quality of life following psychosocial cancer rehabilitation. A randomised trial. <i>Psychooncology</i> 2012;21:505–14.	2
Sabel M, Sjölund A, Broeren J, et al. Active video gaming improves body coordination in survivors of childhood brain tumours. <i>Disabil Rehabil</i> 2016; 38: 2073–84.	2
Salerno EA, Culakova E, Kleckner AS, et al. Physical activity patterns and relationships with cognitive function in patients with breast cancer before, during, and after chemotherapy in a prospective, nationwide study. <i>J clin oncol</i> . 2021;39(29):3283–3292.	2
Schneider CM, Hsieh CC, Sprod L, Carter SD, Hayward R. Effects of supervised exercise training on cardiopulmonary function and fatigue in breast cancer survivors during and after treatment. <i>Cancer</i> . 2007;110:918–825.	2
Siciliano RE, Thigpen JC, Desjardins L, Cook JL, Steele EH, Gruhn MA, et al. Working memory training in pediatric brain tumor survivors after recent diagnosis: challenges and initial effects. <i>Appl Neuropsychol Child</i> (2022) 11(3):412–21. doi: 10.1080/21622965.2021.1875226	2
Szulc-Lerch KU, Timmons BW, Bouffet E, et al. Repairing the brain with physical exercise: cortical thickness and brain volume increases in long-term pediatric brain tumor survivors in response to a structured exercise intervention. <i>Neuroimage Clin</i> . 2018;18:972–985.	2
Van Der Linden SD, Sitskoorn MM, Rutten GJM, Gehring K. Feasibility of the evidence-based cognitive telerehabilitation program Remind for patients with primary brain tumors. <i>J Neurooncol</i> . 2018;137(3):523–532. doi:10.1007/s11060-017-2738-8	2
Van Vulpén JK, Velthuis MJ, Steins Bisschop CN, et al. Effects of an exercise program in colon cancer patients undergoing chemotherapy. <i>Med Sci Sports Exerc</i> 2015;48:767e775.	2
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Part 3. Additional Details of Included SRs

Table 3. SRs characteristics of Interventions and Outcomes

Citation	Year	Countries	Intervention Descriptions	Cognitive Measures
Cognitive Training/Rehabilitation				
Alwi, S. M. S et al. [38]	2021	USA (7), Denmark (1), South Korea (1), Germany (1)	Type: Cognitive training (4), compensatory strategies (5), cognitive and compensatory strategies (1) Length: Ranged between 4 and 12 weeks Dose: Ranged from daily sessions to 4 sessions per week.	Objective: Paced Auditory Serial Addition Test, Rey Auditory Verbal Learning Test, WAIS-IV (Digit span, symbol search), Letter FluSency Test, Delis-Kaplan Executive Function System, Brief Visuospatial Memory Test, CNS Vital Signs Computerized Test, Trial Making Test, Wechsler Test of Adult Reading, California Verbal Learning Test, Wisconsin Card Sorting Test, Hopkins Verbal Learning Test-Revised, Seoul Verbal Learning Test, Controlled Oral Word Association, Rivermead Behavioral Paragraph Recall Test, Useful Field of View, TAP (Alertness, reaction change, divided attention, go/no go, working memory and sustained attention, Wescheler Memory Scale-Revised, Learning and Memory-Test, Symbol Digit Modalities Test, 30-item Everyday Problems Test-Revised, Judgment of Line Orientation Test, Stroop Color, Word Inference Test.
Bergo, E. et al. [40]	2016	Not provided.	Types: Neuropsychological training online (1), virtual reality (1), computer exercises guided by a neuropsychologist (1), holistic mnemonic training (1), cognitive retraining and compensation techniques (1), cognitive rehabilitation and problem-solving therapy (1), individualized rehabilitation therapy (1) Length: Ten weeks (2), 4 weeks (2), 6 weeks (1), 2 weeks (1), not reported (1). Dose: Frequency: Three times a week (1), four times a week (1), once a week (2), not reported (3); Duration: Not reported (2), 30 minutes (1), 60 minutes (1), 90 minutes (1), 120 minutes (1), five hours (1)	Subjective: Cognitive Functioning Scale from the MOS burden (study-specific measure), Cognitive Failure Questionnaire, Short-Form 36 from the MOS. Objective: Minimental State Examination, Trail making test A+B, Frontal Assessment Battery, Raven Progressive Matrices 47, Rey-Osterrieth Complex figure copy and recall, computerized neuropsychological tests, Modified Barthel Index, Neuropsychological Exam for Aphasia, Rey Auditory-Verbal Learning Test, Hopkins Verbal Learning Test, Controlled Oral Word Association Test, Dutch Adult Reading Test, Drie-Minuten-Toets (Three-Minute Test), Stroop Color-Word Test, Letter Digit Substitution Test, Memory Scanning Test, Visual Verbal Learning Test, direct and delayed recall, Concept Shifting Test, Category Fluency animals from the GIT, Digit Span, Test of Everyday Attention, Letter Fluency, CT professions from the GIT, Behavioural Assessment of the Dysexecutive Syndrome, Multidimensional Fatigue Inventory, Community Integration Questionnaire, Functional Assessment of Cancer Therapy brain version, the Mayo-Portland Adaptability Inventory-4, Repeatable Battery for the Assessment of Neuropsychological Status, Linear Analogue Self-Assessment scale of QOL, Caregiver QOL Index-Cancer, Profile of Mood States, Brief Fatigue Inventory.
Caponenetto, P. et al. [45]	2024	Not provided.	Type: Virtual reality (2), computerized cognitive training (3) Length: The trials ranged from 3 to 52 weeks, with the majority using interventions of 12 weeks duration. Dose: Frequency; 2 days per week (10), 3 days per week (6) or 5 days per week (5). Duration; aerobic exercise components being 20 (5) or 30 (6) minutes and mind-body exercise more commonly ranging from 45 to 60 (4) to 70 to 75 minutes (2).	Subjective: Cognitive Failures Questionnaire. Objective: Auditory Continuous Performance Test, Box and Block Test, Backward Digit Span Test, Backward Visual Span Test, Forward Digit Span Test, Fugl-Meyer Scale, Forward Visual Span Test, Hopkins Verbal Learning Test-Revised, Korean-Modified Barthel Index, Korean version of the Mini-Mental Status Examination, Manual Function Test, Sustained Attention to Response Task, Stroop Colour and Word Test, Test of Everyday

				Attention, Trail Making Test, Visual Continuous Performance Test, Verbal Learning Test, Visual Learning Test, Wechsler Adult Intelligence Scale, Word of Colour Word in Word Color Test, Wechsler Memory Scale.
Castellino, S. M. et al. [46]	2014	Not provided.	Type: Cognitive remediation program (3), computerized cognitive program (3), group skills therapy (1), social skills (2), psychological intervention (1) Length: 4-5 mo(1), 3 mo (2), 3-6 mo (1), not provided (6) Dose: Duration: 50 min/week (1), 60 min/session (1), 2 hours/session (2); Frequency: 3 sessions (1), 15 sessions (1), 25 sessions (1), not provided (3).	Subjective: Child Development Inventory Objective: Conners Continuous Performance Test, California Verbal Learning Test, California Verbal Learning Test Children's Version, Dellis-Kaplan Executive Function Test, Full-scale Intelligence Quotient, Intelligence Quotient, Wide Range Achievement Test, Wide Range Assessment of Memory and Learning 2nd Edition, Working Memory Index
Fernandes, H.A. et al. [54]	2019	Not provided.	Type: ST attention and memory (3), ST cognitive rehabilitation (43), ST cognitive behavioral therapy (1), CT cognitive rehabilitation (4), ST + CT for memory and executive function (1), ST memory + CT processing speed (1), ST + CT memory and attention (1). Length: 4 weeks (7), 5 weeks (2), 6-8 weeks (7), 4 months (2), not provided (1) Dose: Duration: One session (1), 10 session (1), 40 sessions (1), 60 sessions (1), Once a week (6), twice a week (3), 4 days/week (2), 5 days/week (3), once a month (1); Frequency: 20-30 min/session (1), 30-60 min/session (10), 75 min/session (1), 90 min/session (2), 120 min/session (4), not reported (1)	Subjective: Functional Assessment of Cancer Therapy-Cognitive, the Rivermead Everyday Behavioural Memory Test, Everyday Problems Test-Revised, Judgment of Line Total Correct, Cognitive Failures Questionnaire, Frontal Systems Behavior Scale, Memory Self-Efficacy Questionnaire, Multifactorial Memory Questionnaire, Metamemory in Adulthood-Anxiety scale, Multiple Ability Self-Report Questionnaire, Brief Assessment of Prospective Memory, European Organization for Research and Treatment of Cancer Core Quality of Life Questionnaire. Objective: CNS Vital Signs Verbal Memory, CNS Vital Signs Visual Memory, Repeatable Battery for the Assessment of Neuropsychological Status, Mini Mental State Examination, Direct Assessment of Functional Status, Field of View Divided Attention and Selective Attention, CNS Vital Signs Continuous Performance Test, CNS Vital Signs Shifting Attention Test, CNS Vital Signs Stroop Test, CNS Vital Signs Symbol Digit Coding Test, CNS Vital Signs Finger Tapping Test, Rey Auditory Verbal Learning Test, Wechsler Adult Intelligence Scale-III Digit Span, Stroop Interference, Wechsler Adult Intelligence Scale-III Digit Symbol Coding, California Verbal Learning Test—Second Edition, Delis-Kaplan Executive Function System Trail Making Test, Wisconsin Card Sorting Test, Brief Assessment of Prospective Memory, Korean Controlled Oral Word Association Test, Cognitive Estimation Task, Letter Fluency, Trail Making Test, Hopkins Verbal Learning Test—Revised, Brief Visuospatial Memory Test-Revised, Cogstate Paired Associates, Cogstate One Card Learning, Cogstate Identification Speed, Cogstate One Back and Two Back Task Speed, Cogstate Groton Maze Learning, Cogstate Detection Task Speed, Wechsler Adult Intelligence Scale-IV Digit Span, Paced Auditory Serial Addition Test, D-KEFS 20 Questions Test, Wechsler Adult Intelligence Scale-IV Symbol Search, CNS Vital Signs Stroop Complex Reaction Time, Controlled Oral Word Association Test, The Symbol Digit Modalities Test, Wechsler Memory Scale-Revised Digit Span, Test Battery for Attentional Performance Working Memory and Sustained Attention, Test Battery for Attentional Performance Reaction Change, WebNeuro Verbal Memory, WebNeuro Attention/Concentration, WebNeuro Executive Functioning, WebNeuro Impulsivity, WebNeuro Working Memory Capacity, WebNeuro Information Processing Efficiency, and WebNeuro Response Speed.
He, F. et al. [57]	2022	Not provided.	Type: Cognitive training (6), cognitive rehabilitation (1), neurofeedback (1), mathematics intervention (1) Length: 5-9 weeks (3), 4-5 months (2), 6 months (3), not provided (1) Dose: Duration: Once a week (3), twice a week (1), 3 times/week (1), two hour weekly sessions (2), not provided (2); Frequency: 30-45 min/session (4), 1-2 hours/week (1), not provided (4),	Subjective: Child Behavior Checklist Objective: Behavior Rating Inventory of Executive Function, Wechsler Abbreviated Scale of Intelligence (Digit Span, Letter-Number Sequencing, Spatial Span), Intelligence Quotient, Conners' Parent Rating Scale-3

Kim, Y. et al. [63]	2019	Not provided.	Type: Computerized cognitive training vs. waitlist (4), computerized cognitive training vs. unclear comparator (2), computerized cognitive rehabilitation vs. unclear comparator (1). Length: 3-5 weeks (2), 6-8 weeks (3), 12 weeks (1), 15 weeks (1) Dose: Duration: Once a week (1), 3-4 sessions/week (4), 5 days/week (1), 10 sessions/week (1); Frequency: 20-30 min/session (2), 30-60 min/session (5)	Subjective: Patient Reported Outcomes Measurement Information System-Cognition, Functional Assessment of Cancer Therapy-Cognition, Cognitive Failures Questionnaire, European Organization for Research and Treatment of Cancer Quality of Life Questionnaire, Squire Subjective Memory Questionnaire, Behavioral Rating Inventory of Executive Function, Brief Assessment of Prospective Memory Objective: Ability to reason and solve everyday problems, Verbal learning & remembering, Verbal fluency & word finding, Complex scanning & tracking, Cogstate, Paced Auditorial Serial Addition Test, Rey Auditory Verbal Learning Test, Digit span, Letter Fluency Test, Cognitive Estimation Task, Wisconsin Card Sorting Test, Delis-Kaplan Executive Function System, Symbol Search, Hopkins Verbal Learning Test-Revised, WebNeuro Cognitive Testing Battery, Test Battery for Attentional Performance, Rivermead Questionnaire of Experienced Attention Deficits, Wechsler Memory Scale-Revised, Useful Field of View
Langenbahn, D.M. et al. [66]	2013	Not provided.	Type: Cognitive rehabilitation (11); APT, strategy use, cognitive behavioural therapy, attention and memory training. Length: 2 weeks (1), 3 weeks (1), 6 weeks (1), 4-5 months (2), 6 months (3), not provided (3) Dose: Duration: Once a week (4), 4 sessions/week (1), 20 sessions (1), 50 sessions (1), not reported (4); Frequency: 60 min/week (1), 5 hours/session (1), not reported (9)	Objective: Boston Diagnostic Aphasia Evaluation, Grade Level in Arithmetic Skills, Continuous Performance Test, Wechsler Adult Intelligence Scale-Revised, Wechsler Memory Scale-Revised, Trail Making Test, Stroop, Wisconsin Card Sorting Test <i>Measurement not reported for all studies, the majority describes cognitive domains assessed</i>
Pfeiffer, S.M. et al. [77]	2018	USA (10), Sweden (1)	Type: Cognitive rehabilitation program (4), maths (2), clinic based cognitive program (1), SMART/Amat-C program aimed at improving memory and attention (1), captain log computerised program aimed at improving executive function (1) cogmed RM computerised program aimed at period of improving attention and working memory (1), reading (1) Length: 6 weeks (1), 2 mths (1), 3mths (1), 5 mths (2), 6 mths (4), 12 mths (2) Dose: 12-13.5 hours (3), 20-22.5 hours (2), 40-50 hours (4), 59.5 hours (1), 40-100 hours (1).	BBDT D Beery-Buktenica Developmental Test of Visual-Motor Integration; BRIEF D Behavior Rating Inventory of Executive Function; CBCL D Child Behavior Checklist; CPRS: LV-R D Conners' Parent Rating Scale: Long version revised; CTRS: LV-R D Conners' Teacher Rating Scale: Long Version – revised; Conners CPT D Conners' Continuous Performance Test: CVLT-C D The California Verbal Learning Test for Children; GDS D Gordon Diagnostic System; MVPT-3 D Motor Free Test of Visual Perception – 3rd version; NEPSY-II D NEPSY: A Developmental Neuropsychological Assessment: 2nd version; PIAT-R D Peabody Individual Achievement Test – revised; RAVLT D Rey Auditory Verbal Learning Test; ROCF D Rey-Osterrieth Complex Figure Test; SBIS-4 D Stanford-Binet Intelligence Scale – 4th Version; SSRS D Social Skills Rating System; WASI D Wechsler Abbreviated Scale of Intelligence; WISC-III D Wechsler Intelligence Scale for Children: 3rd version; WISC-IV D Wechsler Intelligence Scale for Children: 4th version; WJ-R – Woodcock-Johnson Tests of Achievement – revised; WRAML-2 D Wide Range Assessment of Memory and Learning: 2nd version; WRAT-R D Wide Range Achievement Test – Revised; WRAT-3 D Wide Range Achievement Test, 3rd Version
Sciancalepore, F. et al. [79]	2022	Not provided.	Type: Computer-based cognitive training (9) Length: 5-9 weeks (6), 8-12 weeks (3) Dose: N/A	WISC: Wechsler Intelligence Scale for Children; CPT: Conners Continuous Performance Test; NTCB: National Institute of Health Toolbox Cognition Battery; CPRS: Conners' Parent Rating Scale; WRAML2: Wide Range Assessment of Memory and Learning 2; WMI: Working Memory Index.
Von Ah, D. et al. [87]	2020	Not provided.	Type: Cognitive rehabilitation (11), cognitive training (14), combined cognitive training and compensatory training (1), combined cognitive training and cognitive rehabilitation (1) Length: Not provided (6), 2 wks (1), 4 wks (2), 5-6 wks (5), 8 wks (2), 3-4 months (5), 7-8 sessions (2), 48 sessions (1), 4-6 sessions (3), 5-16 sessions Dose: Duration: Not provided (3), 1.25 hrs (1), 20-30 mins (3), 30-50 mins (6), 60 mins (7), 2 hrs (6), 45-90 mins (1); Frequency: Not provided (8), once to twice per wk (7), 4-5 times/wk (6), 6 times/wk (1), bi-weekly (1), monthly (3)	Not Provided.

Vuori, O. et al. [89]	2023	Netherlands (1), Australia (1).	Type: Psychoeducation and strategy training (2) Length: 4-10 weeks (2) Dose: 6 sessions (1), not provided (1)	Objective: cognitive performance (CNS VS, WAIS-III digit span, verbal fluency), cognitive functioning (CFQ), executive functions (BRIEF-A) (1) Subjective: FACT-cog-3, BAPM, WebNeuro
Wolfe, K.R. et al. [91]	2012	Not provided.	Type: Cognitive training (2), computerised cognitive training (1) Length: 12 wks (1), 4-5 mths (1), not provided (1) Dose: 15-20 sessions (2), not provided (1)	Not Provided.
Yan, X. et al. [92]	2023	USA (5), China (1), France (1), Belgium (1), Denmark (1)	Type: Cognitive training (9) Length: Range: 5 to 12 weeks Dose: Duration: 20-60 min per session; Frequency: range: 3 to 5 times per week	Behavioral assessment of dysexecutive syndrome, Digit Symbol Coding Test, Digit Span Test-backwards, Digit Span Test- forward, Paced Auditory Serial Addition Task, Rey Auditory Verbal Learning Test, Trail Making Test-B, Trail Making Test-A, Useful Field of View, Wisconsin card sorting coding test, Cognitive Failure Questionnaire, Functional Assessment of Cancer Therapy-Cognitive Function, Patients Assessment of Own Functioning, Patient-Reported Outcomes Measurement Information System, Squire Subjective Memory Questionnaire
Zeng, Y. et al. [94]	2016	Not provided.	Type: EEG Neurofeedback (1), Cognitive rehabilitation (3) Psychoeducation (1), Cognitive training (2), Online home-based cognitive training (1), Memory intervention (2) Length: 4-weeks (2), 5-weeks (1), 7-weeks (1), 8-weeks (2), 10-weeks (1), 12-weeks (1), 6-months (1), 2-years (1). Dose: Not provided.	Not Provided.
Physical Activity/Exercise				
Akbari, P.S. et al. [37]	2023	Germany (6), Sweden (4), Denmark (2), Canada (2), USA (2), Japan (2), China (1), Iran (1) France (1), United Kingdom (1)	Type: Aerobic and resistance (13), aerobic (2), resistance (2), tracked physical activity (2), yoga (3) Length: Ranged 3 weeks - 26 weeks Dose: Not provided.	Subjective: EORTC-QLQ-30, perceived cognition questionnaire, cognitive failures questionnaire, PROMIS (unclear if it is PROMIS-Cog), Piper fatigue scale Objective: d2 test of attention, memo test, Wilde intelligence test, test of attentional performance, MOCA, CogState, WAIS-III (Stroop and digit span), sustained attention response to task, trail making test
Baydoun, M. et al. [39]	2020	USA (3), Canada (2), Belgium (1), Belgium (1), Germany (1), Iran (1), India (1)	Type: Hatha yoga (4), individualized yoga sessions (1), Iyengar yoga (2), hatha and restorative yoga (1), type of yoga not specified (2) Length: 4 weeks (2), 12 weeks (3), single session (1), 6 weeks (2), 8 weeks (1), 7 weeks (1) Dose: Duration: Twice weekly (4), three sessions weekly (1), once weekly (2), single session (1), not provided (2); Frequency: 90 min (2), 80 min (1), not reported (1), 70 min (3), 60 min (3)	Subjective: Unclear name (Breast Cancer Prevention Trial? measures of cognitive complaints), Cognitive Failures Questionnaire, MD Anderson Symptom Inventory, EORTC-QLQ-30, Symptom of Stress Inventory. Objective: Association/Dissociation Scale, Computerized Cognitive Testing Battery (tests not provided)
Bernal, J.D.K. et al. [41]	2023	Russia (1), Switzerland (2), Turkey (1), USA (3), Germany (3), Canada (1), Sweden (1), Netherlands (1),	Type: Coordinative exercise (1), mixed exercise (4), mixed exercise (8), mixed exercise (4), aerobic exercise (1), strenghtening exercise (1), aerobic exercise (3). Length: Median intervention period was 12 (IQR 10–24) weeks. Dose: Median session duration 45 mins (IQR 40–60); Physical activity intensity was reported in 18 (82%) studies. The median frequency of physical activity was 3 (IQR 2·5–5·0) days per week.	Subjective: EORTC-30-QOL, Pediatric Quality of Life Inventory, Checklist Individual Strength. Objective: Auditory Consonant Trigrams, Beery-Buktenica Developmental Test of Visual-Motor Integration, Bruininks-Oseretsky Test of Motor Proficiency second edition, Bruininks-Oseretsky Test of Motor Proficiency-Short Form, Cambridge Neuropsychological Test Automated Battery, Checklist Individual Strength, Controlled Oral Word Association Test, Conners’ Continuous Performance Test II, Delis-Kaplan Executive Function System,

		Spain (1), Saudi Arabia (1), Australia (1), China (2), Iran (1), Israel (1), Turkey (1), Taiwan (1)		Developmental Coordination Disorder Questionnaire 2007, European Organisation for Research and Treatment of Cancer Quality of Life Questionnaire Core 30, Kaufman Assessment Battery for Children second edition, Test for motor performance in oncology, Pediatric Quality of Life Inventory, Rey Auditory Verbal Learning Test, Rey Complex Figure Test, Test of Nonverbal Intelligence fourth edition, Wechsler Abbreviated Scale of Intelligence, Wechsler Intelligence Scale for Children fourth edition, Working Memory Test Battery for Children, and Wechsler Nonverbal Scale of Ability
Brunet, J. et al. [43]	2023	United States (24), Germany (11), Canada (10), Australia (6), Spain (5), Netherlands (3), Sweden (3), Switzerland (2), United Kingdom (2), Italy (2), Iran (1), Aus/New Zealand (1), South Korea (1), India (1), Finland (1), Japan (1), not reported (1)	Type: Aerobic endurance training (26), resistance/strength training (3), combined aerobic/endurance and resistance/strength training (24), yoga (7), Qigong/Tai Chi (5), exergaming (2), aquatic-based (1), unspecified PA (3) Length: Ranged from a single session to 18 months Dose: Frequency: 1-15 total sessions per week (when combining in-person and home-based sessions), Not reported (6); Duration: sessions ranged from five to 120 min (including warm-up and cool-down, where applicable), not specified (14).	Subjective: The Functional Assessment of Cancer Therapy—Cognitive Function, European Organization for Research and Treatment of Cancer Quality of Life Questionnaire—Core 30, Behavior Rating Inventory of Executive Function, Piper Fatigue Scale, Profile of Mood States, Symptoms of Stress Inventory, Breast Cancer Prevention Trial Symptom Checklist, Perceived Cognition Questionnaire, Medical Outcomes Study, Cognitive Failure Questionnaire, Patient-Reported Outcome Measurement Information System Applied Cognition, Wechsler Abbreviated Scale of Intelligence, MD Anderson Symptom Inventory, Social Problem-Solving Inventory, Perceived Cognitive Impairment, Multidimensional Fatigue Inventory, Multiple Abilities Self-Report Questionnaire, Mini-Mental State Exam, and Pediatric Quality of Life Inventory Multidimensional Fatigue Scale. Objective: NIH Toolbox, Block Recall Test, D- KEFS (Color-Word Interference subtest), KABC-II NU (Test of Nonverbal Intelligence, Number Recall, Word Order, Rover, Atlantis & Atlantis recall subtests), WISC-IV (Cancellation, Coding, & Symbol Search subtests), HVLT, TMT, COWA, Animal Naming Test, Stroop test, Go/No Go, CPT, WISC-IV (DS, LNS, Coding, & Symbols subtests), WISC-III (Mazes subtest) Verbal & Figurative Fluency Tests, Stroop Test, TMT, CogState Battery, ACT, TMT, Stroop Test, Letter Digit Substitution Test, WAIS (DS subtest), Test of Everyday Attention, Visual Verbal Learning Test, WMS-III (Verbal Paired Associates subtest), Concept Shifting Test, GIT Letter and Category Fluency, Stroop Test WAIS-IV (DS, BD subtests), SART, D-KEFS, WAIS-III (DS & LNS subtests), FAB, RAVLT, TMT, F-A-S Test of Verbal Fluency, BCOG, WAIS- IV (LNS, Coding, & BD subtests), TMT, WMS- IV (LM-I & LM-II subtests), COWAT, RAVLT, TMT, Stroop Test, COWAT, WAIS-III (DS & Digit Symbol subtests), CANTAB, WISC-IV (DS, Similarities, BD, & Coding subtests), CPT, Map Mission Test, Visual Scanning, D-KEFS, ACT, RAVLT, WNV, Rey Complex Figure Test, COWAT, TMT, Stroop Test, Letter Comparison Task Spatial Memory Task, Flanker Task, Spatial WM Test, Task Switching Test, Letter Comparison Test, D2 Test of Attention,
Campbell, K.L. et al. [44]	2020	Not provided.	Type: Aerobic and resistance training (12), aerobic only (7), resistance only (3), mind-body exercise (7). Length: Tirals ranged from 3 to 52 weeks, with the majority using interventions of 12 weeks duration. Dose: Frequency: 2 to 7 days per week, with the majority of prescribed sessions being 2 days per week (10), 3 days per week (6) or 5 days per week (5); Duration: 15 to 90 minutes per session, with the majority of aerobic exercise components being 20 (5) or 30 (6) minutes and mind-body exercise more commonly ranging from 45 to 60 (4) to 70 to 75 (n = 2) minutes.	Subjective: European Organization for Research and Treatment of Cancer Quality of Life Questionnaire—Core 30, Fatigue Assessment Questionnaire, MD Anderson Symptom Inventory, Multidimensional Fatigue Inventory, Modified Fatigue Impact Scale, Piper Fatigue Scale, Profile of Mood States, Patient-Reported Outcome Measurement Information System Applied Cognition and General Cognitive Concerns Objective: Controlled Oral Word Association, Functional Assessment of Cancer Therapy-Cognitive Function, Hopkins Verbal Learning Test, Trail Making Test A/B, Wechsler Adult Intelligence Scale-Third Edition (Digit Forwards/Backwards, Attention to Response, Block Design, Stroop, Letter/Number Sequencing & Coding), Wechsler Memory Scale-Fourth Edition (Brief Cognitive Status, Logical Memory), D2-Test of Attention, Auditory Consonant Trigram, Rey auditory verbal learning.

Dun, L. et al. [52]	2020	Not provided.	Type: Moderate intensity exercise (7), high intensity exercise (3). Length: 2-4 weeks (4), 4-6 months (6) <i>All interventions reported since it is unclear what studies measured cognition.</i>	Not Provided.
Fukushima, T. et al. [56]	2021	Germany (5), USA (2), Denmark (1), Brazil (1), South Korea (1), Australia (1), Finland (1), Ireland (1), Sweden (1), Latvia (1)	Type: Resistance exercise (5), aerobic exercise (3), resistance and aerobic exercise (7). Length: 3 weeks (1), 6 weeks (3), 8 weeks (2), 12 weeks (5), 16 weeks (2), 9 months (1), 12 months (1). Dose: Frequency: Daily (1), once a week (1), twice a week (4), three times/week (3), five times/week (2), 6 times/week (1), not provided (3); Duration: 150 min/week (1), 20-60 min/session (7), 70 min/session (1), not provided (6).	Subjective: European Organization for Research and Treatment of Cancer Quality of Life Questionnaire, Piper Fatigue Scale Objective: D2 Test
Hiensch, A. E. et al. [59]	2023	Netherlands (7), Australia (3), Germany (4), USA (1), Norway (1)	Type: Aerobic exercise (n= 186), resistance exercise (n= 112), aerobic + resistance exercise (n= 740), resistance exercise + impact training (n= 77) Length: Less or equal to 12 weeks (n= 471), 12-24 weeks (n= 348), more than 12 weeks (n= 256), not provided (n= 40) Dose: Frequency: Two times/week (n= 918), five or more times/week (n=197); 30 or less min/week (n= 243), 30-60 min/week (n= 786), more than 60 min/week (n= 86); Duration: Moderate intensity (n= 311), moderate/vigorous to vigorous (n= 732), not provided (n= 72)	Subjective: European Organization for Research and Treatment Quality of Life Questionnaire 30, Multidimensional Fatigue Inventory, Checklist Individual Strength, Fatigue Assessment Questionnaire
Jesus, O.J. et al. [61]	2023	Not provided.	Type: Moderate/ high intensity exercise (6) Length: 8 weeks (1), 12 weeks (2), 24 weeks (1), not provided (2) Dose: 3 sessions/week (2), not provided (4); 60 min/session (1), 90 min/session (1), 150 min/week (2), not provided (2)	Subjective: NIH Toolbox, Patient Reported Outcomes Measurement Information System, Functional Assessment of Cancer Therapy-Cognition, European Organization for the Research and Treatment of Cancer Quality of Life Questionnaire Objective: Hopkins Verbal Learning Test-Revised, Trial Making Tests, Stroop Test, CogState Battery (Delayed Recall, Groton Maze Learning Task, One-Back Test, International Shopping List), Letter Comparison, Spatial Working Memory, Flanker Task, Spatial Working Memory, Task Switching, Auditory Consonant Trigrams
Mikkelsen, M.K. et al. [69]	2020	France (1), Japan (1)	Type: Individualized phoned PA advice (on resistance and aerobic exercises) and booklet with exercises (1) Speed-feedback therapy on bicycle ergometers (1). Length: 12 months (1) and 4 weeks (1) Dose: Telephone advice; 2x a month for 6 months, and then 1x a month, Exercise: starting at 2x a week, hereafter adjusted to each participant; Duration; 12 months (1), 1X a week for 4 weeks; Time; 5 min. (1)	Objective: IQR, Frontal Assessment Battery
Myers, J.S. et al. [71]	2018	Not provided.	Type: Aerobic exercise (3), Resistance training (3), Combination of both aerobic exercise and resistance training (6), Aerobic exercise and psychoeducation (1), Mindfulness-based exercise - Yoga (5), tai chi (1), qigong (1), not reported (1) Length: Not reported (6), 4–6 months (1), 12 weeks (7), 4 weeks (2), 7 weeks (1), 6 weeks (2), 10 weeks (2). Dose: 3x/ week (1), 60 minutes, 2x/week (3), 60 mins (3), 2x/week (1), 5x/week (1), 60 mins PA, 30mins aqua aerobics and 2hrs psychoeducation for 7 sessions (1), 5 mins 1x/week (1), 75 mins (1), 3x/week yoga and 15 mins counselling 3-4x/week (1), 70 min 2x/week then 15 min 3x/week (1), 90 min 2x/week (1), 60 mins 2x/week (1), 90 mins 1-2x/week (1), not reported (3), multiple length options (1).	Memory loss and difficulty concentrating: 12-item URCC Symptom Inventory (1) Forgetfulness and concentration: BCPT Cognitive Problems (2) CNS Vital Signs software: psychomotor speed, reaction time, FACT-COG, MEMO-test-memory WIT-working memory d2-focused attention and concentration, Fatigue Assessment Questionnaire-cognitive fatigue, TMT, Revised Piper Fatigue Scale cognitive and mood, fatigue subscale, EORTC-QLQ-C30-cognitive function, MFIS-cognitive fatigue, Neurotrax Comprehensive Testing Suite, Frontal Assessment Battery, POMS confusion, bewilderment dimension, SOSI cognitive disorganization subscale, PCQ-self report, CogState, Japanese version of CFQ, CFS cognitive fatigue subscale , MDASI-memory item , RAVLT, COWA, WAIS-III Digit Span and Digit Symbol, MASQ-verbal and visual subscale

Persoon, S. et al. [76]	2013	USA (1), Germany (2), Denmark (1), Switzerland (1)	Type: Aerobic + strength (2), aerobic + ADLs (1), strength training (1), aerobic training (1) Length: 6-weeks (1), 12-weeks (1), not provided (3) Dose: Frequency: 2-5 times/week (5); Duration: 10-40 mins/session (5)	Subjective: EORTC-QLQ-30 Cognitive domain
Ren, X. et al. [78]	2022	United States (2), England (2), Sweden (1), Germany (2), Australia (1), Ireland (1), Spain (1), Iran (1), India (1), India (1)	Type: Aerobic (6), Yoga (2), Qigong (1), aerobic + resistance (2), resistance (1) Length: 6-weeks (1), 8-weeks (3), 10-weeks (1), 12-weeks (5), 16-weeks (1), 24-weeks (1) Dose: Frequency: 2 times/wk (3), 4 times/wk (1), 3 times/wk (5), 3-5 times/wk (1), 7 times/wk (12); Duration: 20-90 min per session	CFQ, Cognitive Failures Questionnaire; EORTC-QLQ, The European Organisation for Research and Treatment of Cancer quality of life questionnaire; FACT-Cog, Functional Assessment of Cancer Therapy-Cognitive Function; FAQ, Fatigue Assessment Questionnaire; PFS, Piper fatigue scale; PROMIS, Patient-Reported Outcomes Measurement Information System scales; TMT, Trail Making A/B test.
Sharma, B. et al. [80]	2021	Not provided.	Type: Aerobic and muscle building exercises and games (1), Nintendo Wii Active Video Gaming aerobic and balance exercises (1) Length: 10-12 weeks (2) Dose: Frequency: 3-5 times/week (2); Duration: 30-90min/session (2)	Computerized cognitive testing suite Cambridge Neuropsychological Test Automated Battery [CANTAB], Conner Continuous Performance Test (a measure of sustained attention) and the Map-Mission test
Yang, H.Y. et al. [93]	2023	USA (3), United Kingdom (1), Sweeden (1)	Type: Walking (5) Length: 10-weeks (1), 12-weeks (2), Two sessions (2) Dose: 10000 steps per day (1), Individualised walking goals aiming for 10000 steps per day (1), Aiming for 30 minutes per day 5 days per week (1), 1 session of 30 minutes (1), 1 session of 10-30 mintes of walking (1)	Objective: - Stroop task - Sustained Attention to Response Task - Flanker task - Block Design from Wechsler Adult Intelligence Scale-III - Forward and Backward Digit Span from Wechsler Adult Intelligence Scale-III - 2-, 3-, and 4-item tasks - 1-, 2-, and 3-black dot tasks - Letter comparison task - Switching paradigm task Subjective: - Cognitive Failures Questionnaire - European Organization for Research and Treatment of Cancer–Core Quality of Life Questionnaire cognitive function subscale
<i>Mind-body and Psychological/Behavioural</i>				
Cifu, G. et al. [50]	2018	United States, Germany and Iran (N not reported)	Type: Mindfulness based stress reduction (3), mindfulness based stress reduction + other (yoga, metacognition treatment, self-care + Mediterranean diet (3). Length: 6-8 weeks (2), 11 weeks (1), not provided (3) Dose: Frequency: 2 sessions/week (1), not provided (4); Duration: 75 mins/session (1), not provided (4)	Subjective: Everyday Cognition, Cognitive and Affective Mindfulness Scale-Revised, European Organization for Research and Treatment of Cancer Quality of Life Questionnaire, Calgary Symptoms of Stress Inventory Objective: Attentional Function Index, Stroop Color and Word Test
Myers, J.S. et al. [72]	2015	Not provided.	Type: Meditation (3), Mindfulness-based music therapy (1), Yoga (3), Tai Chi (1), Qigong (1), Haptotherapy (1), Neurofeedback (2), Acupuncture (1), Restorative environment (2). Length: 6 weeks (2), 8 weeks (1), 4 weeks (1), 12 weeks (3), 10 weeks (3) Not reported (3), 15 weeks (1), 19 days (1) Dose: 60 mins 2 /wk (2), 90 mins 7 /wk (1), 2.25 hours/week and one 6 hour session	Digit span, Digit symbol, COWA, RAVLT, TMT -A, TMT-B, FACT-COG, POMS, SOSI, PCQ, Cogstate, BCPT cognitive problems scale, EORTC-QoL C30, MASQ IES-R, WAIS-III digit span and digit symbol, Qeeg ANT, Visual sequencing task, Wechsler digit span,

			in week 6 (1), 60 mins 1/wk (1), 2/wk (2), 60 min yoga sessions 7/wk (at least 3 per week in-person with instructor) (1), 90 mins 2/wk and 30 mins home practice 7/wk (1), 45 mins for 5 sessions (1), 33 mins, neurofeedback sessions (1), 33 mins 2/wk (1), 50 mins 4/wk education sessions and 50 mins 8 acupuncture sessions (1) , 20-30 min at least 3/wk (1), Exposure to a natural environment for 120 min/wk (1).	WISC-III/WAIS-III, Stop signal task, Tracking and pursuit task, SWAN, BRIEF parent and teacher version, AFL, Necker cube pattern control
Hines, S. et al. [60]	2014	USA(5), Germany (1)	Type: Cognitive behavioral therapy (5), neuropsychological training based on cognitive behavioral therapy (1). Type: Meditation (2), Qigong (1), Yoga (1) Length: 6-10 weeks (4) Dose: Mainly 1 session per week	Subjective: Multiple Ability Self-Report Questionnaire Objective: TAP Tonic Alertness test, RMBT Story Test, California Verbal Learning Test
Zhang, Y. et al. [96]	2017	Not provided.	Type: Meditation (2), Qigong (1), Yoga (1) Length: 6-10 weeks (4) Dose: Mainly 1 session per week	Subjective: FACT-Cog, EORTC-CF, and AFL. Objective: RAVLT, Digit Symbol, and Stroop test.
Supportive Care				
Zhao, G. et al. [97]	2021	China (5)	Type: Health Education (5)	Not Provided.
Zhao, K. et al. [98]	2020	Not provided.	Type: Rehabilitation (5)	Subjective: Functional Independence Measure (FIM) - Cognitive
Wang, X. et al. [90]	2015	China (3)	Type: Comprehensive nursing care (3)	Not Provided.
Cheng, X. et al. [49]	2018	Korea (1), UK (1), Sweden (1), China (1), Australia (1), Netherlands (2)	Type: Education + behavioral training + stress management + cognitive therapy + emotional support (1), telephone supportive care (2), in-hospital care + follow up support + caregivers' training (1), telephone follow up + in person end-of-treatment session (1), not provided (2) Length: 7 weeks (1), 6 months (2), 12 months (3), 18 months (1)	Subjective: European Organization for Research and Treatment of Cancer Quality of Life Questionnaire C30 version 3.0 core questionnaire
Mixed				
Binarelli, G. et al. [1]	2023	Not provided.	Type: Cognitive training (20), physical activity (11) , mind-body (11), and multi-modal (4). Length: 6-8 weeks (3), 12 weeks (8), 6 weeks (6), 15 weeks (1), 8 weeks (9), 3 months (1), 6 months (3), 4 weeks (5), 5 weeks (1), not reported (5), 16 weeks (1), 12 months (1), 10 weeks (1) Dose: 10 sessions (1), 48 sessions (1), 4 sessions/week (2), 5 days/week (4), 9 sessions (1), 3 sessions/week (5), 2 sessions/week (8), 1 session/week (12), 7 to 28 sessions (1), 12 sessions (1), not reported (4), 1 session (1), 8 sessions (1), daily (1), 4 sessions (1), 14 sessions (1); 60 min/session (15), 30 min/session (5), 40 min/session (1), 120 min/session (6), 45 min/session (4), 150 min/session (4), 90 min/session (5), 5 min/session (1), 12 min/session (1), 180 min/session (1), 75 min/session (1), not reported (1)	Not provided (Provides functions assessed, not the name of the instruments)
Binarelli, G. et al. [42]	2021	Not provided.	Type: Cognitive simulation (16), computerized physical activity (4) Length: 6 months (1), 6 weeks (2), 5 - 9 weeks (2); 15 weeks (1), 3 months (1); 12 weeks (1); no reported (1); 4 weeks (4); 10 weeks (1); 8 weeks (2); 3 - 5 weeks (1);	Objective: Alloway Working Memory Assessment, Rey Auditory Verbal Learning Test, Brief Assessment of Prospective Memory, Category Fluency, Controlled Oral Word Association Test, Conners' Continuous Performance Test, Concept Shifting Test, California Verbal Learning Test, Delis- Kaplan executive function

			24 weeks (1); 6 months (1) Dose: 3-4 times/week (1); 3 times/week (2); unclear (7); 25 sessions (1); 30 sessions (1); 9 sessions (1); 6 times/week (1); 48 sessions (1); once a week (2); five times/week (1); 4 times/week (1); 60 min/session (5); 20-45 min/session (6); 45-60 min/session (2); 120 min/session (2); 30-60 min/session (1); 90 min/session (1); unclear (1); 5 min/session (1)	system, Drie-Minuten Test, Esame neuropsicologico per l'afasia, Frontal assessment battery, Frontal Systems Behavior Scale, Hopkins Verbal Learning Test Revised, Letter Digit Substitution Test, Memory Scanning Test, Paced Auditory Serial Addition Test, Raven's Coloured Progressive Matrices, Rey-Osterrieth Complex Figure, Stroop Color-World Test, Symbol Digit Modalities Test, Telephone-based Assessment of Neuropsychological Status, Useful Field of View, Wechsler Abbreviated Scale of Intelligence, 2nd Edition, Wisconsin Card Sorting Test, Wechsler Intelligence Scale for Children, Woodcock-Johnson Tests of Cognitive Abilities, Wide Range Assessment of Memory and Learning. Subjective: Behavior Rating Inventory of Executive Function, Conner's Parent Rating Scale, Multifactorial Memory Questionnaire, Patient Assessment of Own Functioning Inventory, Beck Cognitive Insight Scale, Cognitive Failures Questionnaire, Cognitive Functioning Scale from the European Organisation for Research and Treatment of Cancer—Quality of Life Questionnaire, Functional Assessment of Cancer Therapy-Cognitive, Mental Fatigue, Perceived Cognitive Impairment, Perceived Cognitive Abilities Patient-Reported Outcomes Measurement Information System (unclear if PROMIS Cog), Side Effects Rating Scale, Squire Subjective Memory Questionnaire.
Chan, R.J. et al. [47]	2015	USA (4), Canada (1), France (1), Japan (1)	Type: Cognitive behavioural therapy (4), mindfulness (1), physical activity (2) Length: 4 weeks (1), 6 weeks (1), 7 weeks (1), 8 weeks (2), 10 weeks (1), 12 weeks (1) Dose: 2 times/week (1), 4 times/week (1), 10 sessions (1), 2 hours/session (1), not provided (3)	Subjective: Behaviour Rating Inventory of Executive Function Global Executive, Multiple Abilities Self-Report Questionnaire, Functional Assessment of Cancer Therapy-Cognitive Function, European Organisation for Research and Treatment of Cancer-Cognitive functioning subscale, Symptoms of stress inventory (SOSI) cognition subscale, Profile of moods scale (POMS) concentration subscale Objective: Wisconsin card sorting test Delis-kaplan (letter fluency), Digit span, Symbol search, Hopkins verbal learning test-revised, Trail Making Test-B Colour word trail, Colour word switching trail, Digit symbol-coding (subtest of wechsler adult intelligence scale), California verbal learning test, Rey auditory verbal learning test (AVLT), rey auditory verbal, Digit span learning test (AVLT), rivermead behavioural paragraph recall test, Frontal assessment battery
Cheng, A.S.K. et al. [48]	2022	Not provided.	Type: Virtual reality (1), cognitive training (9), cognitive rehabilitation (5), meditation (4), psychoeducation and cognitive exercises (1), cognitive behavioral therapy (3), yoga (1), psychoeducation (1), mixed (cognitive rehabilitation vs. aerobic exercise vs. cognitive training vs. cognitive rehabilitation + aerobic exercise; 1), psychological nursing intervention (1) Length: 4 weeks (3), 5 weeks (1), 6-8 weeks (14), 12 weeks (5), 15 weeks (1), 6 months (3) Dose: Duration: 60 sessions (1), 2 days/week (2), 5 days/week (2), not provided (22); Frequency: 40-60 min/session (3), 120 min/session (1), 120 min/week (1), 2.5 hours/session (1), not provided (21)	Subjective: Attentional Function Index, Cognitive Failure Questionnaire, Functional Assessment of Cancer Therapy-Cognitive Function, Multiple Ability Self-report Questionnaire, Memory Self-Efficacy Questionnaire, Patient's Assessment of Own Functioning InventoryI, Patient Reported Outcomes Measurement Information System-Applied Cognition Abilities and General Concerns Objective: Cogstate battery, Mini Mental State Examination, Montreal Cognitive Assessment, Useful Field of View Test, Brown Attention-Deficit Disorder Scale, Digit Span, Digit Symbol, Auditory-Verbal Learning Test, Brief Visuospatial Memory Test-Revised, CNS Vital Signs Verbal Memory, California Verbal Learning Test, Hopkins Verbal Learning Test-Revised, Rey Auditory Verbal Learning Test; Repeatable Battery for Neuropsychological Status; the 2nd Edition of Rivermead Behavioral Memory Test, Web-Neuro Verbal Memory, Behavioral Rating Inventory of Executive Function, Digit Span Backward, Stroop Trial, Trial Making Tests A and B, Controlled Oral Word Association Test, Verbal Fluency Test
Drijver, A.J. et al. [51]	2022	Not provided.	Type: Self-care + self-hypnosis (1), yoga (1), acupuncture (1), cognitive behavioral therapy for insomnia (1), progressive music relaxation vs. autogenic training (1) Length: 4 weeks (1), 8 weeks (1), not provided (3) Dose: 2 sessions/week, 75 mins/session (1), not provided (4)	Subjective: Functional Assessment of Cancer Therapy-Cognitive Function, MD Anderson Symptom Inventory, Brown Attention-Deficit Disorder Scale, Attentional Function Index, European Organisation for Research and Treatment for Cancer Quality of Life Questionnaire.

				Objective: Buschke Selective Reminding Test.
Egset, K.S. et al. [53]	2024	Not provided.	Type: Cognitive rehabilitation (4), cognitive training (8), neurofeedback (1), physical activity (2), active video-gaming (1), problem-solving therapy (1)	Subjective: Behavior Rating Inventory of Executive Function, Child Behavior Check List, Conners' Continuous Performance Test, Conners' Parent Rating Scale, Conners' Teacher Rating Scale, Inattention scale, Strengths and Weaknesses of ADHD-Symptoms and Normal Behavior, Objective: Auditory Consonant Trigrams, Automated Working Memory Assessment, Behavior Regulation Index, Brain Tumour, Cambridge Neuropsychological Test Automated Battery, California Verbal Learning Test, Central Nervous System, Color Word Interference Test, Controlled Oral Word Association Test, Developmental Neuropsychological Assessment 2nd version, Delis-Kaplan Executive Functioning System, Executive Functions, Rey Auditory Verbal Learning Test, Trail Making Test, Trail Making Test B, Wechsler Adult Intelligence Scale, Wechsler Intelligence Scale for Children, Wide Range Assessment of Memory and Learning, Wisconsin Card Sorting Test 4th edition, Woodcock-Johnson Tests of Achievement 3rd edition, and Working Memory Test Battery for Children.
Floyd, R. et al. [55]	2021	USA (6), China (1), Canada (1), UK (1), South Korea (1)	Type: Cognitive training (6), exercise (2), acupuncture (1), Tibetan sound meditation (1) Length: 2 weeks (1), 8 weeks (1), 12 weeks (1), 24 weeks (1), not provided (6) Dose: Duration: 30-60 min/session (4), not provided (6); Frequency: Once a week (1), four times/week (1), five times/week (1), not provided (7).	Subjective: Functional Assessment of Cancer-Therapy Cognitive Function, Squire Subjective Memory Questionnaire, Cognitive Failures Questionnaire, Behavioural Rating Inventory of Executive Function, Mood and Anxiety Symptom Questionnaire. Objective: Auditory-Verbal Learning Tests (1-3), California Verbal Learning Test, California Verbal Learning Test-2, Clock-Drawing Test, Color-Word-Interference, Controlled Oral Word Association Test, Delis Kaplan Executive Function (Color word condition), Delis-Kaplan Executive Function System, Delis-Kaplan-Colour-Word Interference Test (Color-Word and Switching Trials), Digit span test (Forwards and backwards), Digit Symbol-Coding subtest, Digit symbol test, Hopkin's Verbal Learning Test-Revised, Korean - Controlled Oral Word Association Test, Letter-Number sequencing test, Rey Auditory Verbal Learning Test, Rivermead Behavioral Paragraph Recall Test, Seoul Verbal Learning Test, Stroop test, Sustained Attention to Response Task, Symbol digit modality test, Symbol Digit Modalities Test, Telephone-Based Assessment of Neuropsychological Status, Trail Making Number-Letter Trial, Trial Making Test (Part A and B), Useful Field of View, Verbal Fluency Test, Wechsler Adult Intelligence Scale-III, Wechsler Adult Intelligence Scale 4th edition (letter number sequencing test and symbol search and coding test), Wisconsin Card Sorting Test.
He, K. et al. [58]	2023	Israel (1), Iran (1), Latvia (1), Netherlands (1)	Type: In-person sessions + tele-rehabilitation (1), neurofeedback (1), physical activity (2) Length: Less or equal to 12 weeks (n= 471), 12-24 weeks (n= 348), more than 12 weeks (n= 256), not provided (n= 40) Dose: Two times/week (n= 918), five or more times/week (n=197), 30 or less min/week (n= 243), 30-60 min/week (n= 786), more than 60 min/week (n= 86); Moderate intensity (n= 311), moderate/vigorous to vigorous (n= 732), not provided (n= 72)	Subjective: European Organization for Research and Treatment Quality of Life Quesitonnaire 30, European Organization for Research and Treatment Quality of Life Quesitonnaire Breast Cancer, Objective: Behavior Rating Inventory of Executive Function, Montreal Cognitive Assessment, Wechsler short memory scale
Kasteler, R. et al. [62]	2023	Not provided.	Type: Physical activity (3), online cognitive training (5), behavioral interventions (4) Length: 2 weeks (1), 5 weeks (1), 8-16 weeks (8), 4-8 months (1), not provided (1)	Objective: Automated Working Memory Assessment, Cambridge Neuropsychological Test Automated Battery, Children's Auditory Verbal Learning Test-2, List Sorting Working Memory, Rey Auditory Verbal Learning Test, Wechsler Intelligence Scale for Children, Wide Range Assessment of Memory and Learning, mean reaction time

			Dose: Frequency: Twice a week (1), 3 sessions/week (3), 5 days/week (2), not provided (6); Duration: 30-45 min/session (3), 90 min/session (3), not provided (6)	on correct answers on Attention Network Tasks, NIH toolbox, Conners Continuous Performance Test, Map Mission (14), visual scanning from Dellis-Kaplan Executive Function Test, Behavior Rating Inventory of Executive Function.
Kirkman, M.A. et al. [64]	2022	Canada (1), Germany (1), not provided (1)	Type: Cognitive rehabilitation (1), diet (1), goal management training (1) Length: 2 weeks (1), not provided (2) Dose: 3 sessions/week (1), 8 sessions (1); 50 min/session (1), not provided (1); 3 days of ketogenic diet , followed by three days of fasting and then another three days of ketogenic diet. From day 10 onwards, no dietary restrictions were implemented	Subjective: European Organization for Research and Treatment of Cancer Quality of Life Questionnaire, Behavior Rating Inventory of Executive Function for Adults, General Self-Efficacy Scale, Frontal Systems Behavior Scale, Positive and Negative Affect Schedule Objective: Repeatable Battery for the Assessment of Neuropsychological Status, Trial Making Tests (Parts A and B), Test of Everyday Attention, Sustained Attention to Response Task, Behavioral Assessment of the Dysexecutive Syndrome Zoo Map Test, Hotel Test, Hopkins Verbal Learning Test-Revised, Mini Mental State Examination, d2 test of attention
Kirkman, M.A. et al. [65]	2023	Spain (1), Netherlands (5), USA (3), Canada (1), Multi-Country (2), Germany (1), Korea (3), Italy (2), Austria (1), Poland (1), Brazil (1)	Type: Cognitive rehabilitation (11), cognitive training (6), physical activity (1), hyperbaric oxygen therapy (2), ketogenic diet and intermittent fasting (1) Length: 2 weeks (1), 4-6 weeks (5), 6-8 weeks (1), 10 weeks (2), 12 weeks (2), 6 months (1), not provided (7) Dose: Frequency: Once a week (4), 3-4 times/week (2), 5-6 days/week (5), 25 sessions (1), not provided (9); Duration: 30-60 min/session (9), 90 min/session (1), 120-125 min/session (2), not provided (9)	Objective: Mini Mental State Examination, Addenbrooke's Cognitive Examination III, Repeatable Battery for the Assessment of Neuropsychological Status <i>Information reported for some but not all studies</i>
Liu, Y. et al. [67]	2023	USA (8), UK (1), China (3)	Type: Hatha yoga (1), walking intervention (1), Kirtan Kriya (1), cognitive training (1), Tibetan sound meditation (1), 6 healing sounds and gentle exercise (1), acupuncture therapy (1), Memory and Attention Adaptation Training (2), electroacupuncture (EA/TNS+BA- Electroacupuncture Trigeminal Nerve Stimulation and Body Acupuncture) (1), CALM, Managing Cancer and Living Meaningfully (1), QG/TCE, qigong and tai chi easy (1)	Subjective: BCPT - Breast Cancer Preven-tion Trial Cognitive Problems Scale, FACT-Cog - Functional assessment of Cancer Therapy–Cognitive Function (5), MMSE - Mini-Mental State Examination;; MASQ - Multiple Ability Self-report Questionnaire, CFQ - Cognitive Failures Questionnaire; BRIEF - Behavioral Rating Inventory of Executive Function; FACT-Cog PCI - Functional assessment of Cancer Therapy–Cognitive Function Perceived Cognitive Impairment (2), MoCA - Montreal Cognitive assessment. Objective: memory (via retrospective memory and prospective memory), verbal memory (via CVLT-II -California Verbal Learning (2)), processing speed (via digit symbol test); processing speed (via Trail Making Number-Letter Trial, Color Word Trial, DKEFS - The Delis-Kaplan Executive Function System; Digit Symbol Coding and WAIS-III), executive function (via a computerized version of the Stroop task), working memory (via digit span test (4)); attention (via SART); perceptual organization (via WAIS- III), Immediate and delayed verbal memory (via HVLT-R); verbal fluency (via COWA - controlled oral word association test); processing speed and executive attention (via Trail Making Test A and B); cognitive flexibility (via WCST - Wisconsin Card Sorting Test), verbal memory (via HVLT-R- Hopkins Verbal Learning Test–Revised), processing speed (via digit symbol test (2)); verbal fluency (via COWA); verbal memory (via RALVT - Rey Auditory Verbal Learning Test; RM, retrospective memory); memory (via RAVLT), processing speed, executive function (via Trail Making Test A and B); memory (via AVL T - Auditory-Verbal Learning Test), attention, cognitive processing speed, and visual working memory (via

				SDMT - Symbol Digit Modality Test); visual screening (via CDT -, clock-drawing test); executive functions (via TMT-B - trail-making test part B); attentional function and working memory (via forward and reverse digit span)
Mackenzie, L. et al. [68]	2022	USA (21), Australia (5), Belgium (1), France (2), South Korea (1), The Netherlands (2), Canada (1), UK (1), Japan (1) , Iran (2), Germany (2), India (1), Sweden (1), China (2), Denmark (2)	Type: cognitive training (15), cognitive behavioural therapy (4), physical activity (15), Supportive therapies (11) Length & Dose: <u>Cognitive training interventions</u> (1) each: 3 months, 3 x week for 60 min each session, 15-week, 7-week group, 30 training sessions over 6 weeks, 9 session over 3mths, 5-week (2 hrs per week), 48 sessions over 12 weeks, 4 weekly 2 hr sessions, 8 sessions, 10 hours within 6-8 weeks, 4 week web-based, 12 weeks face to face and 6 telephone health coaching sessions, Three sessions per week for 12 weeks, 10 x 1-hr sessions over 6–8 weeks, 1 h/day, 5 days/week for 8 weeks <u>CBT (1) each:</u> 4 x biweekly individual sessions, 8 x weekly sessions, 5 – 26 individual sessions, 12 weeks x 2 hr sessions. <u>Physical activity intervention</u> (1) each: 150 min/wk aerobic exercise with two 45 mins supervised sessions per week. x 2 30-min unsupervised home sessions, 3 weekly moderate intensity mixed aerobic and resistance exercise + 9 dietetic consultation s for 26 weeks, 30 mins x 5 times a week for 12 weeks, Per week for 12 weeks, 12 weekly sessions, 1 x week for 4 weeks, 8 w 3 x week for 12 weeks, weekly 60- min Sessions + 15 min at home twice a day, 10- week program of 2 x 90 mins per week. 8 weeks x 2 per week group setting and x 1 week home practice, Three sessions per week for 12 weeks, 6 weekly discussion groups, 12 individual supervised exercise sessions + home based exercise over 12 weeks, 2 x week over 12 weeks (3), 6 weeks daily sessions of 60 min three supervised. <u>Supportive therapy interventions (1) each:</u> One week + 4 days of follow-up after 2 months, 3 to 6 sessions each lasting 30 minutes, 5 x week for 4-hrs or telemedicine delivery, 12 phone calls over 6- months, 8 x weekly 2-hr classes, 4 x week education + 8 x 50- minute acupuncture weekly, 2 x week for 6 weeks x 8 sessions, 6 weeks and 2 hrs per week, 6 days, Two 4-week courses of acupuncture with a 3-day rest. Every week, patients were treated once a day for 5 days.	Subjective: Beck Cognitive Insight Scale (BCIS), FACT-Cog Cognitive Failures Questionnaire (CFQ) Patients Assessment of Own Functioning (PAOFI) FACT Cog Brief Assessment of Prospective Memory EORTC-QLQ-C30 (Cognitive function) Metamemory in Adulthood Questionnaire (MIA). Memory Self-Efficacy Questionnaire (MSEQ) FACT-Cog Brief Assessment of Prospective Memory FACT-Cog, Squire Subjective Memory Questionnaire (SSMQ) Patient Assessment of Own Functioning Inventory (PAOFI) Multiple Ability Self-Report Questionnaire (MASQ) Alertness Behaviour subscale EORTC QLQ-C30 (Cognitive function) EORTC QLQ C30 (Cognitive function) Breast Cancer Prevention Trial (BCPT) Symptom Checklist Cognitive Failures Questionnaire (CFQ) Patient Reported Outcomes Measurement Information System (PROMIS) EORTC QoL C30 (Cognitive function), FACT-Cog EORTC QoL C30 (Cognitive function) FACT-Cog Self-rated mental acuity, concentration, memory, verbal fluency. Fatigue Assessment Questionnaire (cognitive fatigue) Everyday Cognition (ECog) scale, FACT-Cog Objective: Cognitive Failure Questionnaire (CFQ) My CQ: Trail making tests, Simple, Choice, Go No Go reaction time, Visual and Verbal Memory Recognition, N-back Coding Cogstate online test battery Rey Auditory Verbal Learning Test (RAVLT), stroop test, digit symbol and span tests, Wechsler Adult Intelligence Scale (WAIS-III) Paced Auditory Serial Addition Test (PASAT), RAVLT. Grober and Buschke test for anterograde episodic memory, D2 test for attention and concentration , verbal fluency test, Trail Making tests, WAIS IV. Brief Visual Memory Test Revised, RAVLT, PASAT, Trail Making Tests Wisconsin card sorting test (WCST), Delis-Kaplan Executive Function System (D KEFS), Hopkins Verbal Learning Test Revised (HVLN-R), WAIS, Behavioral Rating Inventory of Executive Function (BRIEF) Repeatable Battery for the Assessment of Neuropsychological Status (RBANS) Trail making test

				HVLT-R, Brief Visuospatial Memory Test— Revised, Rivermead Everyday Behavioural Memory Test Useful field of view (UFOV®) test. NIH Toolbox Cognition Battery (NIHTB CB) Online test battery WebNeuro: Digit and Spatial Span (Wechsler Memory Scale WMS), California Verbal Learning Test (CVLT), Trail Making, Stroop, Finger Tapping, and Rey Complex Figure Test. Digit span, K-COWAT Korean Controlled Oral Word Association Test; K WAIS, SVLT Seoul Verbal Learning Test, Trail Making Tests WMS (IV), General Cognitive Screener (BCOG), Trail Making Tests, WAIS IV, Logical Memory I and II (LMI, LMII), COWAT, Block Design (BD) RAVLT, Rivermead Everyday Behavioural Memory Test, Useful Field of View (UFOV) Online CNS Vital Signs test battery CVLT-II, DKEFS CVLT SDMT SDMT, reaction time task HVLT-R, Trail making Tests, COWAT, Stroop test (with fMRI) Test of Attentional Performance Stroop test, forwards/back digit span and WAIS Block Design, Sustained Attention to Response Task (SART). WAIS-III (digit span and letter number sequencing) NIH Cognitive Toolbox Frontal Assessment Battery (FAB) RAVLT 1-5 total, F-A-S test of verbal fluency, Trail making test Cogstate online test battery WMS (IV), General Cognitive Screener (BCOG), Trail Making Tests, WAIS-IV, Logical Memory I and II (LMI, LMII), COWAT, Block Design (BD) Trail making tests (2) Prospective and Retrospective Memory Questionnaire (PRMQ). Online NeuroTrax test battery Digit span test, SDMT, COWAT, RAVLT. AVLT, Verbal fluency test, symbol digit modality test, clock drawing test, TMT-B. Attentional Function Stroop test Index (AFI)
Morean, D.F. et al. [70]	2015	Not provided.	Type: Classic resistance (device-based) strength-training (1), Restorative experiences (1), Cognitive rehabilitation and computerised cognitive training program (2), MAAT (Memory and Attention Adaptation Training) (2), Neuropsychological Therapy (1), Techniques of stress management (1) Length: 12 weeks (2), 4 weeks (1), 6 weeks (2), 3-5 weeks (1), 8 weeks (1), variable (1) Dose: 60 mins, 2x per week; 20-30 mins, 3x per week; 2hrs in class and 20min at home, 1-4x per week, 30-50 mins, monthly with phone contact in between; 20-30 mins, 4x per week; 60 mins, 2x per week; 60 mins, 4x per week.	d2 Test of Attention, Stress Test, Memo-Test, Wild-Intelligenz-Test, TAS, WAIS, TMT-A, TMT-B, CNS, Symbol Digit Test, HVLT-R, Brief Visuospatial Memory Test, Paced Auditory Serial Addition Test, Benton Judgment of Line Orientation, CVLT-II, WMS-III, Logical Memory I, WMS-III, Logical Memory II, WAIS-III, Digit Symbol Coding, Stroop Color-Word Test, D-KEFS
Oh, P.J. et al. [73]	2016	USA (8), Netherlands (2), Australia (1), Italy (1), Germany (2).	Type: Tibetan sound meditation (1), Qigong (1), Neuropsychological and computerised training (2), ACTIVE (Advanced Cognitive Training for Independent and Vital Elderly trial)(1), Cognitive rehabilitation (4), Executive function training program (1), CBT (1), Memory and attention adaptation training (1), Attention-	Digit span, Trail Making Test, R-BANS Necker Cube Pattern Control Stroop Color and Word Test, Test of Everyday Attention Letter Digit Substitution Test, Rey Auditory Verbal Learning Test,

			restoring/based training (2). Length: 7 weeks (1), 3 months (1), Not reported (1), 8 weeks (1), 6 weeks (2), 6 months (1), 12 weeks (1), 4 weeks (3), 10 weeks (1), 3-5 weeks (1), 6-8 weeks (1). Dose: Duration: 60 mins 1/wk (2), 20 to 30 mins 3/wk (1), 30 mins/session, total not reported (1), 30 to 50 mins /session (1), 120 mins 1/wk (1) , 60 mins; Frquency: 5–26 sessions plus two booster sessions/6 months (1), 100 mins 3wk (1), 60 mins 2/wk (1), 90 mins 1/wk (1), 60 mins 4/wk (2) 60 mins; 10 sessions for 6–8 weeks (1)	Visual Verbal Learning Test, Digit symbol,Memory Scanning Test, Corsi Test, Category fluency, BRIEF, BADS, HVLT-R, WAIS-III, R-BANS MMSE
Oldacres, L. et al. [74]	2023	USA (12), Belgium (2), Canada (2), Denmark (1), China (3), UK (1), Australia (1), Malaysia (1)	Type: Psychoeducational/psychosocial (7), Cognitive behavioural therapy/compensatory strategies (6), Accupunture (3), Music listening and meditation (1), Brain-training (5), Exercise (4) Length: 3 months (3), 15 weeks (1), 8 weeks (6), 3-6 months (1), 6 months (2), Not clearly included (4), 12 weeks (5), 2 years (1), 24 weeks (1), 4 weeks (1), 6-8 weeks (1) Dose: Frequency: 4 sessions (1), 40 mins 4 x/wk (1), 30 mins 2 x/wk(1), Between 3 and 6 individualised sessions (1), 45-60 minutes 9 sessions (1), 9 sessions, 8 group sessions + a six-hour retreat day (1), Not clearly included (12); Duration: 30-45 mins 1x/wk (1), 12 mins of listening 7x/wk (1), 20-30 mins 1x/wk (1), 60 mins 1x/month (1), 5x /wk (1), 60 mins 10 sessions (1), 30 mins 5x/wk (1), 45-60 mins 1x /wk (1), 2 x/wk (1)	EORTC-QLQ-C30, FACT-Cog, CogState, MoCA, MMSE, PRMQ, Grober and Buschke test, D2 test, TMT-A&B, WAIS-IV, CNS Vital Signs Battery, CVLT2, D-KEFS, DSC, MASQ, TBANS, SDT, Stroop Test, WAIS-III, SART, WAIS, CFQ, COWA, HVLT, CPR, GWT, ACS, WCST, FACIT, RBMT, AVL T, VFT, SDMT, CDT, Rey Auditory Verbal Learning Test (RAVLT, UFOV,, SSMQ, DS-T
Park J.H. et al. [75]	2023	USA (2), Japan (1), Denmark (1)	Type: <u>Cognitive rehabilitation</u> (8): Web-based cognitive training (1), web-based brain training (1), cognitive rehab program (1), CBT Memory and Attention Adaptation Training (2), Computerized Executive Function training (1), Speed of processing-Double Decision program (1), Cognitive training focused on memory or processing speed (1).; <u>CBT</u> (6): psychotherapy (2), mindfulness-based stress reduction (1), imagery-based behavioral intervention (1), Tibetan Sound Meditation program (1), mindfulness- based stress reduction and mindfulness-based cognitive therapy (1); <u>Exercise</u> (7): walking (1), mod-vigorous (1), Qigong (2), gentle (1), mod or high interval (2) Other: acupuncture (1) Length: Less than 8 weels (7), 8–12 weeks (13), more than 12 weeks (3)	AVLT, Audi-tory-Verbal Learning Test; BRIEF, behavioral rating inventory of executive function; CFQ, Cognitive Failures Questionnaire; COWA, Controlled Oral Word Association; CVLT-II, California Verbal Learning Test-II; D-KEFS, Delis-Kaplan Executive Function System; FACT-Cog, Functional Assessment of Cancer Therapy–Cognitive; HVLT-R, Hopkins Verbal Learning Test-Revised; MASQ, Multiple Ability Self-Report Questionnaire; RAVLT, Rey’s Auditory Verbal Learning Test; TMT, trail making test; UFOV, Useful Field of View test; WCST, Wisconsin card sorting test.
Simone, A. et al. [81]	2023	Not provided.	Type: Aerobic exercise (2), computer training program Brain HQ (1), group memory training (1) Length: 4 weeks (1), 7-8 weeks (2), 12-months (1) Dose: Frequency: once/wk (1), 4 times/wk (1), 5 times/wk (2); Duration: 20-30mins/wk (1), 60 mins/session (2), 90 mins/session (1)	CNSVS, EORTC QLQ-C30, FAB
Singh, N. et al. [82]	2022	USA (4), Canada (1)	Type: Exercise (6): Yoga (1), aerobic + resistance training (1), walking (1), moderate intensity physical activity (1), mod or high intensity cycling (1), internet-based tailored exercise program (1); <u>Exercise combined with other</u> (2): social cognitive theory + physical activity (1), exercise + nutrition (1); <u>Cognitive training</u> (2): Nintendo Wii game cognitive training (1), mindfulness-based stress reduction training (1). Length: 8 weeks (3), 10-12 weeks (1),12-weeks (4), Not provided (2) Dose: Frequency: once/wk (1), twice/wk (2), 3 times/wk (2), 5 times/wk (1), not provided (4); Duration: 30mins per session (1), 90mins per session (2), 120mins per session (2), not provided (5)	Breast Cancer Prevention Trial (BCPT) Cognitive Problems scale, AFI, Stroop test, AMPS, Improvement Oral Symbol Digit

Treanor, C.J. et al. [83]	2016	USA (2), Netherlands (1), Australia (1), Brazil (2), Canada (1), Korea (2), Italy (2), Sweden (1)	Type: Aerobic exercise (1), Tibetan sound meditation (1), Memory Attention Adaption Training (1), Computerised cognitive training (1), "Insight" cognitive intervention (1), "ACTIVE" cognitive intervention (1) Length: 6-8wks (3), 12 wks (1), 24 wks (1) Dose: Frequency: once-twice/wk (3), 4 times/wk (2); Duration: 20-30mins per session (1), 30-50min/session (2), 1-hour per session (2)	FACT-Cog, Squire Subjective Memory Questionnaire, Behavioral Rating Inventory of Executive Functioning, Multiple Abilities Subjective Questionnaire, Delis-Kaplan Executive Function System (D-KEFS), Delis-Kaplan letter fluency test
Van Lonkhuizen, P. J. C. et al. [84]	2019	Not provided.	Type: <u>Exercise</u> (2): Combined physical, aerobic, and occupational therapy (1), Home based aerobic exercise (1); <u>Cognitive strategy training</u> (5): Cognitive strategy + problem-solving intervention (1), Holistic mnemonic training (1), Semantic organisation training (2), Goal Management Training (combining mindfulness and strategy training) (1); <u>Cognitive re-training</u> (2): Cognitive training (RehabTr) (1), VR training and computer-assisted retraining (1); <u>Combined cognitive strategy and re-training</u> (3): Strategy training and computerised re-training (1), iPad-based strategy training (ReMIND) (1), Therapist-guided cognitive retraining and strategy training (1) Length: 1 wk (2), 2 wks (1), 4 wks (3), 6 wks (1), 8 wks (1), 10 wks (3), 12 wks (1) Dose: Frequency: once/wk (4), 3 times/wk (1), 4 times/wk (1), not provided (4)	Not reported.
Vance, D.E. et al. [85]	2017	USA (3), Germany (2), Spain (2), Netherlands (1), Brazil (1), Sweden (1), China (1)	Type: <u>Cognitive training</u> (2):Memory training or speed of processing training (1), Cognitive training (1); <u>Compensatory Strategies With Cognitive Training Interventions</u> (5): Psychoeducation group intervention (1), Cognitive Rehabilitation Group intervention (1), Rehabilitation Intervention Program (1), Cognitive-Behavioral Management (1), CBT (1); <u>Exercise</u> (6): Yoga (3), Tai Chi (1), Qigong (1), Aerobic exercise with speed feedback (1); <u>Mindfulness-based</u> (1):Tibetan sound meditation (1); <u>Other</u> (1): Electroencephalographic (EEG) biofeedback (1) Length: 4 wks (3), 5 wks (2), 6 wks (1), 6-8 wks (1), 7 wks (1), 8 wks (1), 10 wks (3), 12 wks (3) Dose: Frequency: once/wk (7), twice/wk (4), not provided (4); Duration: 20-30mins/session (1), 60 mins/session (3), 90 mins/session (2), 75mins/session (1), 2 hrs/session (1), not provided (7)	Functional Assessment of Cancer Therapy-Cognitive Function; Frontal Assessment Battery; Profile of Mood States.
Vannorsdall, T.D. et al. [86]	2021	USA (12), Belgium (2), Canada (2), Denmark (1), China (3), UK (1), Australia (1), Malaysia (1)	Type: <u>Exercise</u> (n=7): Aerobic + resistance (2), aquatic exercise (1), yoga (2), resistance training (1), aerobic training only (1); <u>Psychotherapy</u> (2); <u>Alternative therapies</u> (2): Acupressure (1), Bright light (1)	Piper Fatigue Scale - Cognitive domain, Fatigue Assessment Questionnaire - Cognitive domain, Multidimensional Fatigue Inventory - Cognitive domain, Multidimensional Fatigue Inventory Short Form - Cognitive domain
Von Ah, D. et al. [88]	2014	Not provided.	Type: Cognitive training (16), Qigong (1), Tibetan Sound Meditation (1), Biofeedback (1), Tai Chi (1), resistance training (1), aerobic + resistance training (1), mindfulness based stress reduction (1), cognitive rehabilitation (1), natural resorative environment (2).	Not provided.
Zeng, Y. et al. [95]	2020	Not provided.	Type: Computerised cognitive training (3), Cognitive rehabilitation (3), Psychoeducation (1), Home based cognitive training (1), Speed of processing training (1), Cognitive health program (1), Group based memory training (1), BrainHQ (1), Memory and adaption attention training (2), Aerobic exercise (5), Cognitive behavioural training (1), Tai Chi/Qigong (3), Meditation /Mindfulness based stressed reduction (2) Yoga (2), Speed feedback therapy on bicycle (1), Accupuncture (1), Supportive	Not provided.

			therapy (1) Length:6-weeks (3), 8-weeks (6), 6-month (1), 10-weeks (10), 15-weeks (1), 7-weeks (1), 5-weeks (1), 4-weeks (3), 12-weeks (6), 6-8 weeks (1), 24-weeks (1), 2 sessions (1), Not reported (1) Dose: 2 session per week of 90 minutes (2), 2 session per week of 60 minutes (1), 1 session per week for 120 minutes (1), Not reported (12), 1 session per week (2), 2 sessions of 30 minutes (1), 5 session a week of 30 minutes (1), 5 session per week (2), 45-60 minutes per session 2 times per week (1), 2 hours per week (1), 5 sessions per week (1), 40 minutes per session for 60 session (1).	
Zimmer, P. et al. [99]	2016	Not provided.	Type: <u>Animals</u>: running wheel (5); <u>Humans</u>: walking and resistance bands (1), Yoga (2), breathing, yoga, and meditation (1), bicycle ergometer (1), Qigong (1), physical activity program (1), strength training (1), aerobic treadmill training (1), Tai chi (1). Length: <u>Animals</u>: 3-4 weeks (2), 6 weeks (1), 11 weeks (1), 16 weeks (1); <u>Humans</u>: 4 weeks (2), 6 weeks (1), 10 weeks (2), 12 weeks (4), 6 months (1) Dose: <u>Animals</u>: access to running wheel overnight (1), 30min twice daily (1), 8/12 hours per day (1), and timeframe not provided (2); <u>Humans</u>: Frequency: 1 session per week (1), 2 sessions per week (6), 3 sessions per week (1), not provided (2); Duration: 5 mins (1), 10-45 mins (1), 60-75 mins (4), 90 mins (2), not provided (2)	Animals: NMTS: Non-Matching to Sample Task, DNMTS: Delayed Non-Matching to Sample task, NOR: Novel Object Recognition; MWM: Morris Water Maze, Open-field test, Hippocampal neurogenesis, Barnes Maze. Humans: EORTC QLQ-C30: European Organization for Research and Treatment of Cancer, Quality of Life Questionnaire; FACT-Cog: Functional Assessment of Cancer Therapy-Cognitive Function; CRP: C-Reactive Protein; WIT: Wilde Intelligence Subtest, Modified MD Anderson Symptom Inventory, Frontal assessment battery, attention d2 test.

