

## Search strategy

Database	#	Search strategy
Pubmed	#1	“breast neoplasm*”[Title/Abstract] OR “breast carcinoma*”[Title/Abstract] OR “breast malignan*” [Title/ Abstract] OR “breast tumor*”[Title/Abstract] OR “breast tumour*”[Title/Abstract] OR “breast cancer”[Title/Abstract]OR “mammary cancer” [Title/Abstract]
	#2	“Breast Neoplasms”[Mesh Terms]
	#3	#1 OR #2
	#4	“exercise”[Title/Abstract] OR “physical activity”[Title/Abstract] OR “training”[Title/Abstract] OR “aerobic exercise” [Title/Abstract]OR “strength training”[Title/Abstract] OR “resistance training”[Title/Abstract] OR “endurance exercise” [Title/Abstract]OR “running”[Title/Abstract] OR “walking” [Title/Abstract] OR “cycling” [Title/Abstract]OR “yoga” [Title/Abstract] OR “Tai Chi” [Title/Abstract] OR “Qigong”[Title/Abstract] OR “pilates” [Title/Abstract] OR “swimming”[Title/Abstract] OR “Baduanjin” [Title/Abstract]
	#5	“Chemotherapy-Related Cognitive Impairment”[Mesh Terms]
	#6	“cognitive function”[Title/Abstract] OR “cognition disorders”[Title/Abstract] OR “cognitive dysfunction”[Title/Abstract] OR “learning”[Title/Abstract] OR “memory”[Title/Abstract] OR “attention”[Title/Abstract] OR “executive function”[Title/Abstract]
	#7	#5 OR #6
	#8	“Randomized Controlled Trials”[Title/Abstract]OR”Controlled Trials”[Title/Abstract] OR “ramdomized”[Title/Abstract] OR “clinical trial”[Title/Abstract] OR “clinical study”[Title/Abstract]
	#9	#3 AND #4 AND #5 AND #7 AND #8
EMBASE	#1	breast neoplasm:ab,ti OR breast carcinoma:ab,ti OR breast malignan:ab,ti OR breast tumor*:ab,ti OR breast tumour*:ab,ti OR breast cancer:ab,ti OR mammary cancer:ab,ti
	#2	‘Breast Neoplasms’/exp
	#3	#1 OR #2
	#4	exercise:ab,ti OR physical activity:ab,ti OR training:ab,ti OR aerobic exercise:ab,ti OR strength training:ab,ti OR resistance training:ab,ti OR endurance exercise:ab,ti OR running:ab,ti OR walking:ab,ti OR cycling:ab,ti OR yoga:ab,ti OR Tai Chi:ab,ti OR Qigong:ab,ti OR pilates:ab,ti OR swimming:ab,ti OR Baduanjin: ab,ti
	#5	‘Chemotherapy-Related Cognitive Impairment’/exp
	#6	cognitive function:ab,ti OR cognition disorders:ab,ti OR cognitive dysfunction:ab,ti OR learning:ab,ti OR “memory:ab,ti OR attention:ab,ti OR executive function:ab,ti
	#7	#5 OR #6
	#8	‘randomized controlled trial’/exp OR ‘controlled clinical trial’/exp

	#9	#3 AND #4 AND #5 AND #7 AND #8
Web of science	#1	TOPIC:(“Breast Neoplasm*”) OR TOPIC:(“breast cancer*”) OR TOPIC:(“breast tumor*”) OR TOPIC:(“breast tumour*”) OR TOPIC:(“breast carcinoma*”) OR TOPIC:(“breast malignan*”) OR TOPIC:(“mammary cancer”)
	#2	TOPIC:(exercise) OR TOPIC:(“physical activity”) OR TOPIC:(training) OR TOPIC:(“aerobic exercise”) OR TOPIC:(“strength training”) OR TOPIC:(“resistance training”) OR TOPIC:(“endurance exercise”) OR TOPIC:(running) OR TOPIC:(walking) OR TOPIC:(cycling) OR TOPIC:(yoga) OR TOPIC:(“Tai Chi”) OR TOPIC:(Qigong) OR TOPIC:(pilates) OR TOPIC:(swimming) OR TOPIC:(Baduanjin)
	#3	TOPIC:(“Chemotherapy-Related Cognitive Impairment “) OR TOPIC:(“cognitive function”) OR TOPIC:(“cognition disorders”) OR TOPIC:(“cognitive dysfunction”) OR TOPIC:(learning) OR TOPIC:(memory) OR TOPIC:(attention) OR TOPIC:(“executive function”)
	#4	TOPIC:(“Randomized controlled trial”) OR TOPIC:(“Controlled trial”) OR TOPIC:(Randomized)
	#5	#1 AND #2 AND #3 AND #4
Cochrane	#1	MeSH descriptor: [Breast Neoplasms] explode all trees
	#2	(“breast neoplasm*”):ti,ab,kw OR (“breast carcinoma*”):ti,ab,kw OR (“breast malignan*”):ti,ab,kw OR (“breast tumor*”):ti,ab,kw OR (“breast tumour*”):ti,ab,kw OR (“breast cancer”): ti,ab,kw OR (“mammary cancer”):ti,ab,kw
	#3	#1 OR #2
	#4	(exercise):ti,ab,kw OR (“physical activity”):ti,ab,kw OR (training):ti,ab,kw OR (“aerobic exercise”):ti,ab,kw OR (“strength training”):ti,ab,kw OR (“resistance training”):ti,ab,kw OR (“endurance exercise”):ti,ab,kw OR (running):ti,ab,kw OR (walking) :ti,ab,kw OR (cycling):ti,ab,kw OR (yoga):ti,ab,kw OR (“Tai Chi”):ti,ab,kw OR (Qigong):ti,ab,kw OR (pilates):ti,ab,kw OR (swimming):ti,ab,kw OR (Baduanjin):ti,ab,kw
	#5	(“cognitive function”):ti,ab,kw OR (Chemotherapy-Related Cognitive Impairment):ti,ab,kw OR (“cognition disorders”):ti,ab,kw OR (“cognitive dysfunction”):ti,ab,kw OR (learning):ti,ab,kw OR (“memory”:ti,ab,kw OR (attention):ti,ab,kw OR (“executive function”):ti,ab,kw
	#6	(“Randomized Controlled Trial”):ti,ab,kw OR (Randomized):ti,ab,kw OR (Controlled):ti,ab,kw
	#7	MeSH descriptor: [Randomized Controlled Trials as Topic] explode all trees
	#8	#6 OR #7
	#9	#3 AND #4 AND #5 AND #8
CBM	#1	“breast neoplasm*”[common fields: intelligent] OR “breast carcinoma*”[common fields: intelligent] OR “breast malignan*” [common

		fields: intelligent] OR “breast tumor*”[common fields: intelligent] OR “breast tumour*”[common fields: intelligent]OR “breast cancer”[common fields: intelligent]OR “mammary cancer” [common fields: intelligent]
	#2	“Breast Neoplasms” [Unweighted: Extended]
	#3	#1 OR #2
	#4	“exercise”[common fields: intelligent] OR “physical activity”[common fields: intelligent] OR “training”[common fields: intelligent] OR “aerobic exercise”[common fields: intelligent] OR “strength training”[common fields: intelligent] OR “resistance training”[common fields: intelligent] OR “endurance exercise” [common fields: intelligent]OR “running”[common fields: intelligent] OR “walking” [common fields: intelligent]OR “cycling” [common fields: intelligent] OR “yoga” [common fields: intelligent]OR “Tai Chi” [common fields: intelligent]OR “Qigong”[common fields: intelligent] OR “Pilates”[common fields: intelligent] OR “swimming”[common fields: intelligent] OR “Baduanjin”[common fields: intelligent]
	#5	Chemotherapy-Related Cognitive Impairment [Unweighted: Extended]
	#6	“cognitive function”[common fields: intelligent][Title/Abstract] OR “cognition disorders”[common fields: intelligent][Title/Abstract] OR “cognitive dysfunction”[common fields: intelligent] OR “learning”[common fields: intelligent] OR “memory”[common fields: intelligent] OR “attention”[common fields: intelligent] OR “executive function”[common fields: intelligent]
	#7	#5 OR #6
	#8	“randomized controlled trial”[common fields: intelligent] OR “clinical trial”[common fields: intelligent] OR “clinical observation”[common field s: intelligent]
	#9	#3 AND #4 AND #5 AND #7 AND #8
CNKI		((SU%='Breast cancer' OR SU%='breast tumor' ) AND (SU%='Chemotherapy-related cognitive impairment' OR SU%='cognitive function' OR SU%='learning' OR SU%='Cognitive impairment' OR SU%='memory' OR SU%='attention' OR SU%='executive function' )) AND ((SU%='exercise' OR SU%='physical activity' OR SU%='training' OR SU%='aerobic exercise' OR SU%='strength training' OR SU%='resistance training' OR SU%='endurance exercise' OR SU%='running' OR SU%='yoga' OR SU%='Qigong' OR SU%='Pilates' OR SU%='swimming' OR SU%='Baduanjin' OR SU%='Tai Chi' )) ((SU%='乳腺癌' OR SU%='乳腺肿瘤') AND (SU%='化疗相关认知障碍' OR SU%='认知功能' OR SU%='学习' OR SU%='认知障碍' OR SU%='记忆' OR SU%='注意力' OR SU%='执行功能' )) AND ((SU%='运动' OR SU%='体育活动' OR SU%='训练' OR SU%='有氧运动' OR SU%='力量训练' OR SU%='阻力训练' OR SU%='耐力运动' OR SU%='跑步' OR SU%='瑜伽' OR SU%='气功' OR SU%='普拉提' OR SU%='游泳' OR SU%='八段锦' OR SU%='太

		极' ))
Wanfang		<p>TOPIC: (("Breast cancer" or "breast tumor") and ("chemotherapy related cognitive impairment" or "cognitive function" or "cognitive impairment" or memory or learning or attention or executive function)) and ("exercise" or "physical activity" or "training" or "or" or "or" aerobic exercise "strength training" or "resistance training" or "or" endurance exercise "or" running or "yoga" or "Qigong" or "Pilates" or "swimming" or "Baduanjin" or "Tai chi")</p> <p>主题: ("乳腺癌" or "乳腺肿瘤") and ("化疗相关认知障碍" or "认知功能" or "认知障碍" or "记忆" or "学习" or "注意力" or "执行功能")) and ("运动" or "体育活动" or "训练" or "有氧运动" or "力量训练" or "阻力训练" or "耐力运动" or "跑步" or "瑜伽" or "气功" or "普拉提" or "游泳" or "八段锦" or "太极")</p>
VIP		<p>((M=("breast cancer" OR "breast tumor") AND M=(" chemotherapy-related cognitive impairment" OR "cognitive function" OR "cognitive impairment" OR "memory" OR "learning" OR attention" OR "executive function")) AND (M= ("exercise" OR "physical activity" OR "training" OR "aerobic exercise" OR "strength training" OR "resistance training" OR "endurance exercise" OR "running" OR "yoga" OR "Qigong" OR "Pilates" OR "swimming" OR "Baduanjin" OR "Tai chi") AND (M= "randomized controlled trial" OR "Clinical trial" OR "clinical observation")</p> <p>((M=(乳腺癌 OR 乳腺肿瘤) AND M=化疗相关认知障碍 OR 认知功能 OR 认知障碍 OR 记忆 OR 学习 OR 注意力 OR 执行功能)) AND (M=(运动 OR 体育活动 OR 训练 OR 有氧运动 OR 力量训练 OR 阻力训练 OR 耐力运动 OR 跑步 OR 瑜伽 OR 气功 OR 普拉提 OR 游泳 OR 八段锦 OR 太极 ) AND (M=随机对照试验 OR 临床试验 OR 临床观察)</p>