Title	Author/Year	Objectives	Participants (Charac	cteristics/To	al No/Sex) N	euro Setting/Context/Stag		Search details	Sources searched	Range (yrs)	Number of	Types of studies	Country of origin	Appraisal/Appraisal	Method of analysis	Outcome assessed (relevant	Significance/direction	Heterogeneity
						sease e of disease	interventions/phenomena of interest			of included studies	included		studies	Instruments/Appraisal Rating		to study)		(1^2)
analysis of the Effect of Exercise and Motor Training		IMBM To examine if exercise has an effect on balance- related activity anglor fals in people with PD. Meta-regression used to evaluate what effect that total done of exercise and presence of highly challenging balance activity has.		747		moderate	Intervention:exercise (aerobic, resistance, Tal Chi, dance) Control: no intervention, TAU, education classes, flexibility exercise	Not available.	MEDUNE, EMBASE, AMED, PsyUNFO, Cochrane Central Register of Controlled Trials, CIMAHL Supplemented with searches of Physiotherapy Evidence Database and search of citations.			randomized controlled trials		Mod-high quality: 7 Insufficient info: 8 Eggers: 1.69 Funnel plot: evidence of publication bias	analysis Hedge's g (SMD) calculated using pre-/post mean and SD	tandem stance, TUG, sit to stand time, turning time, step: - length, cadence, galt time, gait velocity		Turning time: 0% Functional mobility: 0-37% Galt: 6% (Dependent on outcome measure)
Complementary physical therapies for movement disorders in Parkinson's disease: a systematic review		INNU Evaluate the effect that complementary physical therapy has on motor disabilities in people with PD.		NR I	NR PI	O NR	Intervention: dance Control: no intervention	Parkinson's disease, rehabilitation, non-conventional physical therapies, alternative therapies, complementary physical therapies, exercise therapy, socio environmental therapy	Medline, Embase, Cinahl, The Cochrane Library, Pedro	2006-2014	2	RCT	NR	PEDro scale Good: 1 Fair: 1	Descriptive analysis with interventions and variables Meta-analysis of RCTs conducted when possible	BBS, UPDRS III, 6mWT	Positive effect on for gait, balance and moto function	r Balance: NA Motor function: 97% Gait: 91%
Dance as an intervention for people with Parkinson's disease: A systematic review and meta-analysis	Sharp et al. #	IIIIIE Evaluate how effective dance is compared to no intervention and other exercise interventions.		NR I	NR P		Intervention: any form of dance Control: no intervention, other exercise interventions	Parkinson*, danc*, Random*	AMED, BNI, CINAHI, EMBASE, HBE, HMIC, MEDILNE, PENJINNO, Cochrane Central Register of Controlled Trials, Web of Knowledge, O'Esselve, PEDro, SpeechBiTE, Psychilter, Berbaddar, LIACS, IMMMR, MedCarib, DART, Electronic Thesis conine services where the controlled trials register, clinicalitation, and an accordance of the controlled trials register, clinicalitation, and an institute for health research, Trialsbournal controlled trials and the controlled trials	2007-2013	2		NR	of bias assessment tool Individual reports not available.	Mean difference w/95% CI were calculated Fixed effects invariance model		Significant positive effect on motor function, balance, gait velocity. No effect on functions mobility.	
incidence in neurological disorders? A systematic review and meta-analysis		#### Determine whether Tai Chi can improve balance and reduce fall rate in people with neurological disorders, comparing to no intervention and other active treatments.		96 1		O NR	Intervention: Tai Chi Control: no intervention, other active treatments	Specifics NR	AMED, Embase, Web of Science, SCOPUS, EBSCO, and Medline	2008-2015			Hong Kong, China, Republic of Korea, United States, Korea, Taipei, Taiwan	GRADE: high	treatment effect, 95% CI OR or WMD Random or fixed effects based on heterogeneity		Significant effect	NR
Drug and exercise treatment of Alzheimer's disease and mild cognitive impairment: a systematic review and meta-analysis of effects on cognition in randomized controlled trials	Ströhle et al. #	#### To directly compare drug therapy and exercise treatments for people with MCI or AD.	NR	119	NR A	D MMSE scores: 13-22	Intervention: exercise treatment Control: TAU, daily organized activities home safety assessment sessions	 cognitiv*, Alzheimer's disease, physical activity, (drug) 	The Cochrane Library, EBSCO, OVID, Web of Science, and FDA.	1996-2013	4	RCT	NR	Cochrane Collaboration's too for assessing risk of bias Synthesis NR	I SMCR, pooled ES	Cognitive function	Moderate to strong effect.	61.60%
Efficience Continued Controlled Continued Controlled Continued Controlled Continued Controlled Continued Controlled Cont	Cal et al. #	INNIII Assess the effect of exercise on cognitive function in people with chronic diseases.	n Age range: 72.4- 81.8	958	NR A	D MMSE scores: 5.8-2:	Intervention: exercise (aerobic, resistance, combined) Control: no exercise	Combinations of: Cognition, cognitive function, MMSE, exercise, mscule stretching exercises, resistance training, running or swimming, walking, cycling, physical activity, aerobic yoga, tai chi, qigong, RCT	PubMed, Web of Science, Embase, the Cochrane Lilbrary, CINAHL, PscyINFO, CNKI, WanFang Datam and VIP.	· NR	13	RCT		Downs and Black Quality Index: mean score 22.05 5: good 7: moderate 1: poor	SMD, 95% CI Random effects model	Global cognitive function	Positive overall random effect on cognitive function	AD: 77%
Effects of dance practice on functional mobility, motor symptoms, and quality of life in people with Parkinson's disease: a systematic review with meta- analysis	Santos # Delebary et al.	IIIIII Deteremine the effects that dance classes have on mobility, motor symptoms, and QoL in people with PD when compared to other interventions or no intervention.	Age range: 66.5+/- 2.8 to 69.3+/-1.9	83	NR P	D H&Y stage range 1-4	Intervention: dance classes Control: no dance classes, no intervention	Parkinson's disease, dancing, an specific filter for randomized controlled trials	d MEDLINE, LILACS, SciELO, Cochrane and PsychINFO.	2007-2015	2	RCT	NR	Cochrane criteria Synthesis NR	SD Fixed or random effects depending on heterogeneity	velocity – forward, backward	Significant positive effect on motor function. Non-significant positive effect on gait and functional mobility.	included)
Effects of mind-body exercises on the physiological and psychosocial web-leng of endividuals with Partinizan's disease: A systematic review and meta-analysis	Kwok et al. A	Imme Evaluate the effect of mind-body exercises on the physiological and psychological outcomes for people with PD.		NR I	NR P	O Mild - moderate	Intervention: mind-body exercise treatment treatment Control: no intervention, placebo, waitlist, usual care, non-exercise control waitlist, usual care, non-exercise control treatment of the control treatment of the control waitlist was a control treatment of the control treatment of treatment of the control treatment of treatment	Qigong, Yoga, Dance, Pilates	EMBASE, Ovid Medline, Psych Info, Cochrane Library	NR	10 RCT: 6 CCT: 4	RCT, CCT	United States, Aisa, Europe		Means & std dev for absolute change Random effects if high heterogeneity	BBS, UPDRS III, TUG, 6mWT	Lage significant effect on motor symptoms, balance and postural instability. Moderate significant effect on functional mobility	89%
Home-based prescribed exercise improves balance- related activities in people with Parkinson's disease and has benefits similar to centre-based exercise: a systematic review	Flynn et al. A	IMBBD Determine if home-based exercise can improve balance and QoL in people with PD, and determine if the effects are comparable to centre-based exercise programs.	Mean age: 60-72	1496	NR P	O Mild-moderate	Intervention: home-based exercise Control: TAU, placebo	Parkinson's disease, physiotherapy, exercise home- based therapy, group-based therapy, supervision, galt, mobility, balance, quality of life, randomised and quasi- randomised	CINAHL, CENTRAL, EMBASE, Physiotherapy Evidence Database	2005-2018	12	RCT, qRCT	NR	PEDro 10: good 2: fair	g Fixed or random effects	: SPPB, BBS, miniBESTest, time taken to walk, preferred gait speed, fast gait speed, TUG, FGA, 180 deg. turn test	Positive effect on balance and galt speed	Balance: 0% Gait speed: 0%
	al.	physiotherapy has on people with PD.		1570		2.6	Intervention: physiotherapy, exercise, treadmil, dance, martial arts Control: no intervention, placebo	exercise, rehabilitation, Parkinson, Parkinson's disease, parkinsonism	Medline, Embase, Cumulative Index to Nursing, and Allied Health Literature, Web of Science, Allied and Complementary Medicine Database, REHABDATA, REHADAT, GEROUIT, Latin American and Carbbean Health Sciences Literature, Medicarib, Index medicus for the Eastern Mediterranean region, conference databases, and trial registries. Specific journals were also hand searched.			RCT	NR	Synthesis NR	WMD, 95% CI	TUG	Significant positive effect on balance, galt and motor function.	Balance: NA- 75% Motor function: 0%-87% Functional mobility: 0%- 48% Gait: 0%-34% (Dependent on intervention mode)
Balance, and Galt in Parkinson's Disease: A Systematic Review and Meta-Analysis		Evaluate the efficacy of Tal Chi on people with PD.		190	NR P	O Range of H&Y: 1.5-4	Intervention: Tai Chi Control: placebo, no intervention, othe therapies	Parkinson's disease, Parkinson, r Tai Chi, taiji, shadowboxing	PubMed, EMBASE, Cochane Library, China Knowledge Integrated Database, Wejpu Database for Chinese Technical Periodicals, Wa Fang Data. ProQuest Dissertations and Clinese dissertation database, WHO International Clinical Trials Registry Platform	1	5 RCT: 4 NRCT: 1	RCT, NRCT	China, Korea, US	Cochrane Collaboration tools Synthesis NR	Pooled estimate of efficacy, SMD, 95% CI	BBS, 1 leg stance, tandem stance, UPDRS III, TUG, gait velocity, 6mWT	Significant positive effect on balance, motor function and mobility. Insufficient evidence of effect on gait.	Balance: 0-68% Motor function: 57% Functional mobility: 0% Gait: 0% (Dependent on outcome measure)
The effect of exercise interventions on cognitive outcome in Alzheimer's disease: a systematic review	Farina et al. #	INITIN To assess how effective exercise is in attenuating cognitive decline in people with AD.	NR	NR :	171 A	D MMSE range: 5-29	Intervention: exercise Control: no exercise, home safety assessment, daily activity, organized conversation, TAU, support group		PubMed, Science Direct, Web of Knowledge, PsychINFO	2004-2012	6	RCT	NR	Quality Assessment tool for Quantitative Studies: moderate-strong Funnel plot for publication bias: none found	Effect size, 95% CI	ERFC, MMSE, ADAS-cog, ADS 6, BNT, HVLT, CANTAB- Expedio	- Significant positive effect	69%