Supplemental material

Online Supplement Table S1. Summary of included studies.

Study	Design and sample size	Intervention received	Control	Outcomes	Significant differences
		by experimental	group		in favour of
		group(s) over and			intervention group
		above usual care			
Mundy	Randomised controlled trial in 458	Progressive movement.	'Usual care'.	Adverse events,	↓ hospital length of stay.
2003 ⁴	participants with community-		No further	healthcare utilisation,	
	acquired pneumonia. Intervention		detail	mortality.	
	group: 227 (50%) participants, age		provided.		
	~65 years, pneumonia severity index				
	grade ~3.				
Troosters	Randomised controlled trial in 36	Resistance training of	Standard drug	Adverse events, anabolic	↑ anabolic muscle status,
2010^{25}	participants with exacerbation of	quadriceps.	therapy,	muscle status, exercise	↑ exercise capacity at
	chronic obstructive pulmonary		airway	capacity, healthcare	discharge,
	disease. Intervention group: 17		clearance and	utilisation, inflammatory	↑ quadriceps strength at
	(47%) participants, age 67 (8) years,		breathing	markers, limitation due to	discharge and at 1 month.
	FEV ₁ 40 (12)%.		exercises.	dyspnoea, quadriceps	
				strength.	
Meglic	Single-group study in 19 participants	Neuromuscular	Nil control	Functional assessment of	N/A.
2011^{28}	with exacerbation of chronic	electrical stimulation of	group.	chronic illness therapy	
		quadriceps.			

	obstructive pulmonary disease; age			questionnaire, limitation	
	71 (6) years, FEV ₁ 29 (11)%.			due to dyspnoea,	
				patient satisfaction,	
				quality of life.	
Carratala	Randomised controlled trial in 378	Progressive movement.	'Usual care'.	Adverse events,	↓ hospital length of stay.
2012^2	participants with community-		No further	healthcare utilisation,	
	acquired pneumonia. Intervention		detail	patient satisfaction,	
	group: 187 (50%) participants, age		provided.	mortality.	
	72 (14) years and disease severity				
	using pneumonia severity index				
	score 100 (32).				
Giavedoni	Randomised controlled trial in 11	Neuromuscular	The other leg	Adverse events,	↑ quadriceps strength.
2012^{21}	participants with severe exacerbation	electrical stimulation of	was used as	quadriceps strength.	
	of chronic obstructive pulmonary	quadriceps.	the control.		
	disease; age 72 (3) years, FEV ₁ 41		Standard drug		
	(6)%.		and oxygen		
			therapy.		
Tang	Randomised controlled trial in 32	Walking and upper and	Mobility	Adherence adverse	Nil.
2012^{23}	participants with exacerbation of	lower limb resistance	assessment,	events, Barthel index,	
	chronic obstructive pulmonary	exercise at either 'low'	functional	exercise capacity, length	
	disease. Two intervention groups: 11	or 'moderate to high'	training for	of stay, lung function,	
	(34%) participants in the 'low'	intensity.	discharge and	muscle strength.	

	intensity group, age 68 (10) years,		airway		
	FEV ₁ 45 (19)% and 10 (31%)		clearance.		
	participants the 'moderate to high'				
	intensity group, age 74 (10) years,				
	FEV ₁ 46 (18)%.				
Tang	Qualitative analysis of 19 participant	Walking and upper and	Participants	Experience of exercise	N/A.
2013 ²⁷	responses from study 9, age 71 (11)	lower limb resistance	of the control	training during	
	years, FEV ₁ 48 (18)%.	exercise at either 'low'	group were	hospitalisation for an	
		or 'moderate to high'	not invited to	exacerbation.	
		intensity.	participate.		
Borges	Randomised controlled trial in 29	Upper and lower limb	Usual care,	Adverse events, exercise	↑ 'impact' domain of
2014^{20}	participants with exacerbation of	resistance training.	including	capacity, inflammatory	quality of life,
	chronic obstructive pulmonary		airway	markers, length of stay,	↑ exercise capacity,
	disease. Intervention group: 15		clearance.	lung function, muscle	↑ muscle strength.
	(52%) age 64 (12) years, FEV ₁ 42			strength, physical	
	(14)%.			activity, quality of life.	
Greening	Randomised controlled trial in 389	Walking, resistance	Airway	Exercise capacity,	↑ exercise capacity at 6
2014 ¹²	participants with exacerbation of	training of upper and	clearance,	healthcare utilisation,	weeks,
	chronic obstructive pulmonary	lower limbs and	mobilisation,	mortality, quadriceps	↓ survival at 12 months.
	disease. Intervention group: 196	neuromuscular	education,	strength, quality of life,	
	(50%), age 71 (9) years and FEV ₁ 52	electrical stimulation of	nutritional	spirometry.	
	(25)%.	quadriceps.	screening.		

Greulich	Randomised controlled trial in 40	Whole body vibration.	5 min	Anabolic muscle status,	↑ chair rising test,
2014 ²²	participants with exacerbation of		mobilisation,	adverse events, chair	↑ exercise capacity,
	chronic obstructive pulmonary		5 min of	rising test, exercise	↓ inflammatory markers.
	disease. Intervention group: 20		passive	capacity, health status,	
	(50%) age 66 (10) years, FEV ₁ 33		movement,	inflammatory markers,	
	(13)%.		and 10 min of	muscle area, length of	
			respiratory	stay, lung function,	
			exercises.	quality of life.	
Не	Randomised controlled trial in 94	Walking, upper limb	'Usual care'.	Activities of daily living	Unclear.
2015 ¹⁹	participants with exacerbation of	endurance and strength	No further	dyspnoea scale, adverse	
	chronic obstructive pulmonary	training, breathing	detail	events, exercise capacity,	
	disease. Intervention group: 66	retraining, education,	provided.	health status, limitation	
	(70%), age 74 (2) years, FEV ₁ 38	stretches.		due to dyspnoea, quality	
	(3)%.			of life.	
Liao	Randomised controlled trial in 61	Rehabilitation package,	Usual care.	Cough severity, dyspnoea	↓ cough severity,
2015^{26}	participants with exacerbation of	which included airway		on completion of 6-miute	↓ dyspnoea,
	chronic obstructive pulmonary	clearance techniques,		walk test, ease of	↑ ease of expectoration,
	disease. Intervention group: 30	pursed lip breathing,		expectoration, exercise	↑ exercise capacity.
	(49%), age 68 [range 44 to 89] years,	walking and upper limb		capacity.	
	peak expiratory flow 140 [range 50	endurance training.			
	to 240] L/s.				

Tahirah	Randomised controlled trial in 38	Walking and functional	Airway	Exercise capacity,	↑ exercise capacity,
2015^{34}	participants with exacerbation of	resistance exercises.	clearance,	physical activity,	↑ physical activity,
	chronic obstructive pulmonary		advice to	quadriceps strength,	↑ quadriceps strength.
	disease. Intervention group: 20		mobilise.	sit to stand test,	
	(53%) age 62 (7) years, FEV ₁ 34			Timed Up and Go.	
	(14)%.				
Jose	Randomised controlled trial in 49	Stretching, resistance	Airway	Adverse events, exercise	↑ exercise capacity,
2016^3	participants with community-	training of upper and	clearance,	capacity, Glittre test,	↑ Glittre test,
	acquired pneumonia. Intervention	lower limbs and	breathing	inflammatory markers,	↓ limitation due to
	group 32 (63%), age 51 (21) years,	walking.	exercises and	length of stay, limitation	dyspnoea,
	CURB-65 score median [IQR] 1 [0].		walking.	due to dyspnoea, muscle	↑ muscle strength,
				strength, quality of life.	† 'physical functioning'
					domain of quality of life.
Torres-	Randomised controlled trial in 49	Deep breathing	Usual care.	Adverse events,	↓ feelings of depression
Sanchez	obese participants with exacerbation	exercises, active range		dyspnoea, exercise	↑ exercise capacity,
2016 ²⁹	of chronic obstructive pulmonary	of motion of the upper		capacity, feelings of	↑ muscle strength,
	disease. Intervention group: 24	and lower limbs, single		anxiety, depression,	↑ 'self-care, usual
	(49%), age 72 (9) years, FEV ₁ 39%	leg stance and sit to		muscle strength, quality	activities, mood' domains
	[SD not reported].	stand.		of life, spirometry.	of quality of life.
Torres-	Randomised controlled trial in 58	Seated lower limb	'Usual care'	Adverse events, balance,	↑ balance,
Sanchez	participants with exacerbation of	pedalling exercise.	with standard	exercise capacity, length	↑ physical activity,
2017 ²⁴	chronic obstructive pulmonary		drug therapy.	of stay, physical activity,	

	disease. Intervention group: 29			quadriceps strength.	↑ quadriceps strength.
	(50%), age 76 (6) years, FEV ₁ 42				
	(11)%.				
Vincent	Qualitative analysis and sub-study of	Walking, resistance	Those in the	Benefit of exercise	N/A.
2017 ³²	the trial by Greening 2014. 12 Data	training of upper and	control group	healthcare use, family	
	reported on 100 participants from	lower limbs and	in trial were	influence, participant	
	intervention group, age 71 (9) years,	neuromuscular	not invited to	confidence, perceptions	
	FEV ₁ 1.14 (0.6) L.	electrical stimulation of p		of recovery.	
		quadriceps.			
Cox	Randomised trial in 57 participants	Inpatient exercise:	Usual care.	Adverse events, exercise	Nil.
2018 ³¹	with exacerbation of chronic	upper and lower limb		capacity, healthcare	
	obstructive pulmonary disease	cycling.		utilisation, health status,	
	(sample age 68 (11) years). Three	Home exercise:		limitation due to	
	intervention groups: inpatient	walking, marching on		dyspnoea, London Chest	
	exercise 13 (23%), FEV ₁ 44 (15)%;	spot, sit-to-stand, wall		Activity scale, quality of	
	home exercise 15 (25%), FEV ₁ 36	push ups, step exercise,		life, physical activity.	
	(15)%; inpatient + home exercise	squats, bicep curls, arm			
	and 14 (24%), FEV ₁ 49 (18)%.	lifts, shoulder punches			
		with weights,			
		education.			
Torres-	Randomised controlled trial in 90	Breathing and ROM	Usual care.	Health status.	In favour of breathing
Sanchez	participants with exacerbation of	group: deep breathing,			and ROM group (vs

2018 ³⁰	chronic obstructive pulmonary	active range of motion			control):↑ 'mobility, self-
	disease. Two intervention groups: 30	exercises.			care, usual activities'
	(33%) in 'breathing and ROM'	Resistance training			domains of health status.
	group, age 75 (9) years, FEV ₁ 31	group: upper and lower			In favour of resistance
	(5%) and 30 (33%) in resistance	limb resistance training			training group (vs
	training group, age 70 (11) years,	using elastic bands.			control): ↑ domains
	FEV ₁ 30 (8)%.				(except pain) of health
					status.
Clausen	Single-group in 10 participants with	'Fast-track pneumonia	N/A.	Barthel Index, physical	Nil.
2019 ³³	community-acquired pneumonia.	pathway' which		activity, quality of life,	
	Age 74 years (SD not reported),	included a mobilisation		sedentary time.	
	CURB-65 score 2 (SD not reported).	within the first 24 hours			
		of admission.			

CURB-65: Confusion Urea, Respiratory rate, Blood pressure, $Age \ge 65$ score. FEV₁: Forced expiratory volume in one second. IQR: Interquartile range. N/A: Not Applicable. ROM: Range of movement.SD: Standard deviation. Data are reported as mean (SD) unless otherwise stated.

Online Supplement Table S2. Description of initial exercise prescription, progression and uptake of exercise.

Study	Initial exercise prescription	Method used to progress exercise	Uptake / adherence
Mundy	Daily 'movement out of bed with change from	'Progressive movement each	166 (73%) participants achieved early
2003 ⁴	horizontal to upright position for at least 20 min during	subsequent day'; no other details	mobilisation goal.
	the first 24 hr of hospitalisation'.	reported.	
Troosters	Seated double leg extension, 3 sets of 8 repetitions at	'Adjustments in the load were made	6 (1) sessions completed out of 7
2010^{25}	70% of 1RM, performed daily for 7 days.	based on symptoms'.	prescribed sessions. 41% of
			participants performed single leg
			extension due to dyspnoea.
Meglic	Neuromuscular electrical stimulation of quadriceps for	Details not reported.	All prescribed sessions were
2011 ²⁸	25 min, twice daily, 6 days/week (no other details).		performed.
Carratala	Daily 'movement out of bed with change from	'Progressive movement each	370 (98%) participants achieved early
2012^2	horizontal to upright position for at least 20 min during	subsequent day'; no other details	mobilisation goal.
	the first 24 hr of hospitalisation'.	reported.	
Giavedoni	Neuromuscular electrical stimulation of quadriceps for	Intensity \(\preceq \) according to tolerance.	All prescribed sessions were
2012^{21}	30 min daily for 14 days. Biphasic pulse 50 Hz, pulse		performed.
	duration of 400ms, 8s on: 20s off. Current increased to		
	maximum tolerated.		
Tang	'Low intensity' group: walking at 40% of average 3-	10% ↑ walking distance once	'Low intensity' group completed 78
2012^{23}	min walk test speed for 7.5 min and 2 sets of 20 to 25	participant achieved distance with a	(17)% of prescribed sessions, range
	repetitions at 40% of 1RM.	change in Borg score of 1 to 2.	59% to 100%.

	'Moderate to high intensity' group: walking at 70% of	↑ load once 2 sets of the prescribed	'Moderate to high intensity' group
	average 3-min walk test speed for 7.5 min and 2 sets of	number of repetitions were	completed 71 (19)% of prescribed
	8 to 10 repetitions at 70% of 1RM. Exercise performed	completed.	sessions, range 50% to 100%.
	for 15 min twice daily.		
Borges	2 sets of 8 repetitions at 80% of 1RM performed daily.	↑ load according to tolerance.	Completed 5.6 sessions (adherence
2014^{20}	Muscle actions targeted were shoulder flexion,		95%, SD not reported).
	abduction, elbow flexion, knee extension, flexion and		
	hip flexion.		
Greening	Walking at speed equal to 85% of VO ₂ peak estimated	Walking time ↑ to maintain Borg	Walking training: 2.7 (2.6) sessions.
2014 ¹²	from ISWD. Resistance exercise using free weights: 3	dyspnoea score between 3 and 5 and	Resistance training: 2.5 (1.9) sessions.
	sets of 8 repetitions 'based on 1RM'. Neuromuscular	exertion score < 13. Resistance load	Electrical stimulation: 3.6 (3.2)
	electrical stimulation of bilateral quadriceps, 30 min,	\uparrow to maintain exertion score ≥ 13 .	sessions.
	symmetrical biphasic pulse at 50 Hz, pulse duration of	Intensity of electrical stimulation ↑	
	300ms, 15s on, 5s off. Exercises performed once daily.	according to tolerance.	
Greulich	3 × 2 min on the vibrating platform performed daily.	Details not reported.	Details not reported.
2014 ²²			
Не	Walking for 5 to 10 min at 60% of 'peak work rate	↑ to 20 min of continuous walking as	Completed 9 (1) sessions.
2015 ¹⁹	achieved in the 6-min walk test'. 2 min of bilateral	symptoms permitted. ↑ to 3 sets of	
	shoulder flexion and abduction using light free weight.	10 repetitions when exercises	
	1 set of 10 repetitions against body weight or free	performed 'without any difficulty'.	
	weights (muscle groups not described). Exercises		
	performed daily.		

Liao	Upper limb exercise (overhead activity) and walking.	Details not reported.	Details not reported.
2015^{26}	Exercises performed twice daily, for 10 min each. No		
	other details reported.		
Tahirah	Walking training set at the distance achieved on 2-min	↑ walk distance by 20% every	4 (1) supervised sessions and 4 (1)
2015 ³⁴	walk test. Resistance training comprised sit-to-stand,	second day, if symptoms permitted. ↑	unsupervised sessions were
	step ups, half squats. Number of repetitions was based	number of repetitions of each	completed. Percentage of scheduled
	performance on the Sit to Stand Test. Exercise	resistance exercise by 1 set, if	supervised and unsupervised sessions
	performed twice daily.	symptoms permitted.	were performed were 96 (9)% and 92
			(13)%, respectively.
Jose	Warm up and stretches. Walking at 70% peak speed	Walking speed titrated ↑ to maintain	8 sessions prescribed. Number of
2016 ³	achieved during incremental shuttle walk test.	dyspnoea score ≥ 4 and ≤ 6 and heart	competed sessions not reported.
	Resistance exercise for 25 min, 3 sets of 8 repetitions at	rate equal to rate established by	
	70% of 1RM using resistance band. Exercise	Karvonen's equation. Resistance	
	performed daily for eight days.	training load titrated to maintain	
		fatigue ≥ 4 on Borg scale.	
Torres-	Breathing exercises, active movement of upper and	Progressed according to time, such	Details not reported.
Sanchez	lower limbs, and muscle strengthening (no other details	that by the fifth day they were also	
2016 ²⁹	reported). Exercise performed twice daily for 30 to 45	completing sit-to-stands and single	
	min per session.	leg stance. Number of repetitions	
		based on dyspnoea and fatigue	
		(targets not reported).	

Torres-	Daily seated pedalling exercise. No other details	Cycling time, velocity and intensity	Details not reported.
Sanchez	provided.	were titrated to maintain dyspnoea	
2017 ²⁴		and fatigue at score 6 on the Borg	
		scale.	
Cox	Inpatient exercise only group: 16 revolutions of upper	Inpatient group: 'workload could be	Inpatient exercise: Of 384 prescribed
2018 ³¹	and lower limb cycling at 80% of maximal resistance	increased'; no other details reported.	sessions, 131 (34%) sessions were
	to complete two revolutions 3 times a day for 5 days.	Home exercise: details not reported.	completed across group.
	Home exercise only group: walking and 8 functional		Home exercise: Of 92 prescribed
	exercises (e.g. squats). Sets and repetitions not		sessions, 72 (78%) sessions were
	reported. Completed 4 sessions over 2 weeks. Sessions		completed.
	were 20 to 60 min. Inpatient and home exercise group:		
	received both interventions.		
Torres-	'Breathing and ROM' group: daily relaxation	'Breathing and ROM' group: details	Details not reported.
Sanchez	exercises, pursed lip breathing, active expiration and	not reported.	
2018^{30}	active range of motion exercises for 30 to 40 min.	'Resistance training' group:	
	'Resistance training' group: daily upper and lower limb	progressed according to dyspnoea	
	training with an elastic band for 30 to 40 min.	and fatigue (targets not reported).	
		Load reduced muscle if soreness	
		persisted > a few hours.	
Clausen	Mobilisation for at least 20 min within the first 24	Details not reported.	Details not reported.
2019 ³³	hours of admission. Frequency not described.		

ISWD: Incremental shuttle walk distance. RM: Repetition maximum. ROM: Range of movement. SD: standard deviation. VO₂: rate of oxygen uptake. Data are reported as mean (SD) unless otherwise stated.

Online Supplement S3: Initial search strategy used for MEDLINE

MEDLINE

Date: 05/03/2017

- 1. hospital*
- 2. exacerbat*
- 3. exp. infection
- 4. exp. symptom flare up
- 5. deteriorate mp.
- 6. decline mp.
- 7. Combine #1 OR #2 OR #3 OR #4 OR #5 OR #6
- 8. exp. chronic obstructive pulmonary disease
- 9. exp. cystic fibrosis
- 10. exp. asthma
- 11. exp. pneumonia
- 12. exp. bronchiectasis
- 13. exp. interstitial lung disease
- 14. exp. lung
- 15. respiratory mp.
- 16. pulmonary mp.
- 17. Combine #8 OR #9 OR #10 OR #11 OR #12 OR #13 OR #14 OR #15 OR #16
- 18. exp. exercise
- 19. exp. exercise therapy
- 20. exp. resistance training
- 21. exp. walking
- 22. exp. bicycling
- 23. exp. early ambulation
- 24. early mobili*
- 25. aerobic mp.
- 26. exp. muscle strength
- 27. strength mp.
- 28. ambulation mp.

- 29. mobility mp.
- 30. Combine #18 OR #19 OR #20 OR #21 OR #22 OR #23 OR #24 OR #25 OR #26 OR #27 OR #28 OR #29
- 31. Combine #7 AND #19 AND #30
- 32. Limits: Humans, adults, English and Portuguese, publication date: 1990- current
- 33. **Results**: 2121

Details of complete search strategies for all databases available on request.

Online Supplement Table S4. Scoring for the Consensus on Exercise Reporting Template.

					Nu	mbers r	epresen	t the or	der of s	tudies a	s they a	ppear i	n the re	ference	list			
Item	Description of:	2	3	4	14	19	20	21	22	23	24	25	26	28	29	30	31	33
1	Exercise equipment	0	1	0	1	1	1	1	1	1	1	1	1	1	0	1	1	1
2	Qualification expertise and/or training	1	0	0	1	0	1	0	0	1	1	1	1	0	1	1	1	0
3	Individual or group	0	0	0	0	0	1	1	0	0	0	1	0	0	0	1	1	0
4	Supervision	0	0	0	1	1	1	1	1	1	1	1	0	0	1	1	1	0
5	Adherence to exercise	1	0	1	1	0	1	1	0	1	0	1	0	1	0	0	1	0
6	Motivation strategies	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0
7	Method for exercise progression	0	1	0	1	1	1	1	0	1	0	1	0	0	0	0	0	0
8	Each exercise to enable replication	0	1	0	1	0	1	1	0	1	0	1	0	1	1	0	1	0
9	Any home programme component	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	1	0
10	Non-exercise components	1	1	0	1	1	1	0	1	1	0	1	1	0	1	1	1	1
11	Type/ number of adverse events	0	1	0	0	1	1	1	1	1	1	1	0	1	1	0	0	0
12	Setting	1	1	1	1	1	1	0	0	0	1	1	1	1	1	1	1	1
13	Exercise (sets, repetition, duration, intensity)	0	1	0	1	1	1	1	1	1	0	1	0	0	0	0	1	0
14	Whether the exercises were generic or tailored	0	1	0	1	1	1	1	0	1	1	1	0	0	1	1	1	0
15	Decision rule for initial prescription	0	1	0	1	1	1	1	0	1	0	1	0	0	0	0	1	0
16	Adherence or intervention fidelity	0	0	1	1	0	1	1	0	1	0	1	0	0	0	0	1	0
	TOTAL	4	9	4	14	10	14	12	5	12	6	14	4	5	7	7	13	3

^{0:} The minimum detail was not provided to gain a 'Yes' for this item, 1: The minimum detail was provided to gain a 'Yes' for this item.

Online Supplement Table S5. Scoring for the Template for Intervention Description and Replication.

		Numbers represent the order of studies as they appear in the reference list																
Item	Detail	2	3	4	14	19	20	21	22	23	24	25	26	28	29	30	31	33
1	Description of intervention	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2	Rationale for intervention	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
3	Materials used in the intervention	0	1	0	1	1	1	1	1	1	1	1	1	1	0	1	1	1
4	Procedures used in the intervention	0	1	0	1	0	1	1	0	0	0	1	0	1	1	1	1	0
5	Intervention provider expertise	0	0	0	1	0	1	0	0	1	1	1	1	0	1	1	1	0
6	Modes of delivery: individual or group	0	0	0	0	0	1	1	0	0	0	1	0	0	1	1	1	0
7	Location(s)	1	1	1	1	1	1	0	0	0	1	1	1	1	1	1	1	1
8	Details of delivered intervention	0	1	0	1	1	1	1	1	1	0	1	0	0	0	0	1	0
9	Details of titration etc	0	1	0	1	1	1	1	0	1	0	1	0	0	0	0	1	0
10	Details of modifications	0	0	0	0	0	1	1	0	0	0	1	0	0	0	0	1	0
11	Methods for assessing/improving adherence or fidelity	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0
12	Assessment of adherence or fidelity	0	0	1	1	0	1	1	0	1	0	1	0	1	0	0	1	0
TOTAL		3	7	4	9	6	11	10	4	8	4	11	5	6	6	7	11	4

^{0:} The minimum detail was not provided to gain a 'Yes' for this item, 1: The minimum detail was provided to gain a 'Yes' for this item.

Online Supplement S6. Risk of bias for 15 RCTs.

	Random sequence generation	Allocation concealment	Blinding of participants and personnel	Blinding of outcome assessment	Incomplete outcome data	Selective reporting	Other bias
Mundy 2003				0	0	0	0
Troosters 2010	0	0			0	0	0
Carratala 2012	0	0			0	0	0
Giavedoni 2012					0		0
Tang 2012	0	0			0	0	0
Borges 2014	0	0		0		0	0
Greening 2014				0	0		0
Greulich 2014	0	0	0	0		0	0
He 2015					0	0	0
Liao 2015	0			0	0	0	0
Jose 2016		0				0	0
Torres-Sanchez 2016	0	0			0	0	0
Torres-Sanchez 2017	0	0		0	0		0
Cox 2018	0	0		○		0	0
Torres-Sanchez 2018	0	0			0	0	0
High risk of bias	O Lo	w risk of	bias	₩ Un	clear		