

**Supplementary Material S2.** Search strategy

## 1. PubMed

No.	Query	Results
#1	"Gait"[Mesh]	38641
#2	"Gait Disorders, Neurologic"[Mesh]	8631
#3	Gait Disorder	31781
#4	"Walking"[Mesh]	69962
#5	"Lower Extremity"[Mesh]	190822
#6	"Leg"[Mesh]	66960
#7	lower extremity or foot or ankle or tibia or fibula or femur or thigh or leg or lower limb	661584
#8	"Paresis"[Mesh]	8944
#9	"Paralysis"[Mesh]	88953
#10	"Hemiplegia"[Mesh]	12098
#11	"Paraplegia"[Mesh]	13625
#12	"Amputation, Surgical"[Mesh]	24848
#13	hemipar* or hemipleg* or brain injur* or paresis	261839
#14	#1 or #2 or #3 or #4 or #5 or #6 or #7 or #8 or #9 or #10 or #11 or #12 or #13	1049015
#15	"Robotics"[Mesh]	43555
#16	"Automation"[Mesh]	66166
#17	"Therapy, Computer-Assisted"[Mesh]	46765
#18	robot* or automat* or (computer* near/2 assist*) or autoambulator* or (power near/2 assist*)	449603
#19	#15 or #16 or #17 or #18	492032
#20	(Locomat or Lokomat or LokoHelp or ReoAmbulator or ARTHuR or (POGO adj3 PAM) or ALEX or LOPES or ALTRACO or (RGR adj3 Trainer) or String-Man or (Gangtrainer adj3 GT1) or (Haptic adj3 walker) or GatemMaster5 or LLRR or (Gait adj3 trainer) or (Kine adj3 assist) or (Walk adj3 trainer) or ReWalk or HAL or (Motion adj3 maker) or Lambda or Walkbot_S or Walkbot_G or ReoAmbulator or (Morning adj3 Walk) or M181-1 or ErigoPro or Walkbot or GEO or ITT-3000 or Kinetron or Anklebot or LOPES or AutoAmbulator or Andago).mp.	560
#21	#19 or #20	492573
#22	"Rehabilitation"[Mesh]	361571
#23	"Physical Therapy Modalities"[Mesh]	183199
#24	"Exercise Therapy"[Mesh]	65614
#25	"Musculoskeletal Manipulations"[Mesh]	19021
#26	"Myofunctional Therapy"[Mesh]	385
#27	("physical therapy" or physiotherapy or kinesiotherapy or exercis* or train* or rehabilitat* or strengthen* or treadmill*).mp.	6260
#28	#22 or #23 or #24 or #25 or #26 or #27	375772
#29	"Spinal Cord Injuries"[Mesh]	56988
#30	#14 AND #21 AND #28	<b>309</b>

## 2. Embase

No.	Query	Results
#1	('gait'/exp OR 'gait' OR 'neurologic gait disorder'/exp OR 'neurologic gait disorder' OR 'walking'/exp OR 'lower limb'/exp OR 'leg' OR 'extremity'/exp OR extremity OR 'foot'/exp OR foot OR 'ankle'/exp OR ankle OR 'tibia'/exp OR tibia OR 'fibula'/exp OR fibula OR 'femur'/exp OR femur OR 'thigh'/exp OR thigh OR 'leg'/exp OR leg OR lower OR limb)	4774180
#2	('paresis'/exp OR 'paralysis'/exp OR 'hemiplegia'/exp OR hemipar\$ OR hemipleg\$)	404979
#3	('rehabilitation'/exp OR 'rehabilitation' OR habilitation OR 'physical therapy'/exp OR 'physical therapy' OR 'physiotherapy'/exp OR 'kinesiotherapy'/exp OR exercis* OR train* OR rehabilitat* OR strengthen* OR treadmill* OR physical OR therapy OR modalities OR electric OR stimulation OR exercise OR movement)	15160920
#4	('spinal cord injury'/exp OR 'spinal cord injry' OR sci)	2761356
#5	#1 AND #2 AND #3 AND #4 AND 'randomized controlled trial'/exp	<b>221</b>

## 3. Cochrane

No.	Query	Results
#1	MeSH descriptor: [Gait] explode all trees	3248
#2	MeSH descriptor: [Gait Disorders, Neurologic] explode all trees	984
#3	Gait Disorder	1387
#4	MeSH descriptor: [Walking] explode all trees	8230
#5	MeSH descriptor: [Lower Extremity] explode all trees	10095
#6	MeSH descriptor: [Leg] explode all trees	3669
#7	lower extremity or foot or ankle or tibia or fibula or femur or thigh or leg or lower limb	79000
#8	MeSH descriptor: [Paresis] explode all trees	1113
#9	MeSH descriptor: [Paralysis] this term only	607
#10	MeSH descriptor: [Hemiplegia] this term only	976
#11	MeSH descriptor: [Paraplegia] this term only	278
#12	MeSH descriptor: [Amputation, Surgical] explode all trees	678
#13	hemipar* or hemipleg* or brain injur* or paresi	19012
#14	#1 or #2 or #3 or #4 or #5 or #6 or #7 or #8 or #9 or #10 or #11 or #12 or #13	104307
#15	MeSH descriptor: [Robotics] explode all trees	1962
#16	MeSH descriptor: [Automation] this term only	388
#17	MeSH descriptor: [Therapy, Computer-Assisted] this term only	1597
#18	robot* or automat* or (computer* near/2 (aid* or assist*)) or autoambulator* or (power near/2 assist*)	50527
#19	#15 or #16 or #17 or #18	50527
#20	Locomat or Lokomat or LokoHelp or ReoAmbulator or ARTHuR or (POGO near/3 PAM) or ALEX or LOPES or ALTRACO or (RGR near/3 Trainer)	4531
#21	String-Man or (Gangtrainer near/3 GT1) or (Haptic near/3 walker) or GatemMaster5 or LLRR or (Gait near/3 trainer) or (Kine near/3 assist) or (Walk near/3 trainer) or ReWalk or HAL or (Motion near/3 maker) or Lambda or Walkbot_S or Walkbot_G or ReoAmbulator or (Morning near/3 Walk)	1386
#22	M181 or ErigoPro or Walkbot or GEO or ITT-3000 or Kinetron or Anklebot or LOPES or AutoAmbulator or Andago	2537
#23	#20 or #21 or #22	6143
#24	#19 or #23	56122
#25	MeSH descriptor: [Rehabilitation] explode all trees	54294
#26	MeSH descriptor: [Physical Therapy Modalities] this term only	5384
#27	MeSH descriptor: [Exercise Therapy] this term only	15635
#28	MeSH descriptor: [Musculoskeletal Manipulations] this term only	730
#29	MeSH descriptor: [Myofunctional Therapy] this term only	57
#30	physical therapy or physiotherapy or kinesiotherapy or exercis* or train* or rehabilitat* or strengthen* or treadmill or Habilitat*	344973
#31	#25 or #26 or #27 or #28 or #29 or #30	3597796
#32	MeSH descriptor: [Spinal Cord Injuries] explode all trees	2453
#33	#14 and #24 and #31 and #32	<b>101</b>
	Trials	

## 4. Scopus

No.	Query	Results
#1	TITLE-ABS-KEY (( Gait OR "Gait disorder" OR walking OR "Lower Extremity" OR leg or foot or ankle or tibia or fibula or femur or thigh or lower limb ))	212436
#2	TITLE-ABS-KEY (( paresis OR paralysis OR hemiplegia OR paraplegia ))	230408
#3	TITLE-ABS-KEY (( Robotics OR automation OR computer-assisted ))	1909609
#4	TITLE-ABS-KEY (( rehabilitation OR "Physical Therapy Modalities" OR "Exercise Therapy" OR "physical therapy" OR physiotherapy OR kinesiotherapy OR exercise ))	1289951
#5	TITLE-ABS-KEY (( "spinal cord injury" OR sci ))	160217
#6	#1 AND #2 AND #3 AND #4 AND #5	<b>90</b>

## 5. Web of Science

No.	Query	Results
#1	ALL=((Gait OR Gait disorder OR walking OR Lower Extremity OR leg OR foot OR ankle OR tibia OR fibula OR femur OR thigh OR lower limb))	900021
#2	ALL=((paresis OR paralysis OR hemiplegia OR paraplegia))	79197
#3	ALL=((rehabilitation OR Physical Therapy Modalities OR Exercise Therapy OR physical therapy OR physiotherapy OR kine-siotherapy OR exercise))	714801
#4	ALL=((rehabilitation OR Physical Therapy Modalities OR Exercise Therapy OR physical therapy OR physiotherapy OR kine-siotherapy OR exercise))	1454063
#5	ALL=((spinal cord injury OR SCI))	23134651
#6	#1 AND #2 AND #3 AND #4 AND #5	<b>210</b>

## 6. Google Scholar

No.	Query	Results
#1	( Gait OR "Gait disorder" OR walking OR "Lower Extremity" OR leg or foot or ankle or tibia or fibula or femur or thigh or lower limb )	20000
#2	( paresis OR paralysis or hemiplegia or paraplegia )	18200
#3	( Robotics OR automation OR computer-assisted	5740
#4	("rehabilitation" OR "Physical Therapy Modalities" OR "Exercise Therapy" OR "physical therapy" OR "physiotherapy" OR "kinesiotherapy" OR "exercise")	3980000
#5	( "spinal cord injury" OR SCI )	7040000
#6	#1 AND #2 AND #3 AND #4 AND #5	<b>49</b>

## 7. KoreaMed

No.	Query	Results
#1	""lower limb" or "lower extremity" or "gait" or "walk" or "leg"[ALL]	4617
#2	""robot" or "Automation" or "computer""[ALL]	143
#3	""rehabilitation" OR "Physical Therapy Modalities" OR "Exercise Therapy" OR "physical therapy" OR "physiotherapy" OR "kinesiotherapy" OR "exercise""[ALL]	1504
#4	"spinal cord injury"[ALL]	974
#5	#1 AND #2 AND #3 AND #4	<b>4</b>
	("lower limb" or "lower extremity" or "gait" or "walk" or "leg"[ALL]) AND ("robot" or "Automation" or "computer"[ALL]) AND ("rehabilitation" OR "Physical Therapy Modalities" OR "Exercise Therapy" OR "physical therapy" OR "physiotherapy" OR "kinesiotherapy" OR "exercise"[ALL]) AND ("spinal cord injury"[ALL])	

8. KMBase

No.	Query	Results
#1	((((((하지 keyword) OR (다리 keyword)) OR (보행 keyword)) OR (걸기 keyword)) OR (walk keyword)) OR (lower limb keyword)) OR (lower extremity keyword)) OR (gait keyword) 국내발표논문	7409
#2	(((robot keyword) OR (automation keyword)) OR (computer keyword)) OR (로봇 keyword)) OR (자동 keyword)) OR (컴퓨터 keyword) 국내발표논문	10289
#3	(spinal cord keyword) OR (척수 keyword) 국내발표논문	3836
#4	#1 AND #2 AND #3	
	((하지 keyword) OR (다리 keyword) OR (보행 keyword) OR (걸기 keyword) OR (walk keyword) OR (lower limb keyword) OR (lower extremity keyword) OR (gait keyword)) AND ((robot keyword) OR (automation keyword) OR (computer keyword) OR (로봇 keyword) OR (자동 keyword) OR (컴퓨터 keyword)) AND ((spinal cord keyword) OR (척수 keyword))	<b>3416</b>

9. KISS

No.	Query	Results
#1	전체 = "robot" and 전체 = "lower limb"	31
#2	전체 = "robot" and 전체 = "lower extremity"	18
#3	전체 = "robot" and 전체 = "walk"	350
#4	전체 = "robot" and 전체 = "leg"	221
#5	전체 = "로봇" and 전체 = "재활" and 전체 = "하지"	10
#6	전체 = "로봇" and 전체 = "보행"	329
Total		<b>959</b>

10. RISS

No.	Query	Results
#1	전체 : robot <AND> 전체 : lower <AND> 전체 : limb 국내학술논문	193
#2	전체 : robot <AND> 전체 : lower <AND> 전체 : extremity 국내학술논문	101
#3	전체 : robot <AND> 전체 : rehabilitation <AND> 전체 : walk 국내학술논문	152
#4	전체 : robot <AND> 전체 : rehabilitation <AND> 전체 : gait 국내학술논문	180
#5	전체 : 하지 <AND> 전체 : 재활 <AND> 전체 : 로봇 국내학술논문	73
#6	전체 : 로봇 <AND> 전체 : 보행 <AND> 전체 : 재활 국내학술논문	137
Total		<b>836</b>

11. NDSL

No.	Query	Results
#1	“전체=robot AND 전체=lower AND 전체=limb” 국내논문	52
#2	“전체=robot AND 전체=lower AND 전체=extremity” 국내논문	35
#3	“전체=robot AND 전체=rehabilitation AND 전체=walk” 국내논문	24
#4	“전체=robot AND 전체=rehabilitation AND 전체=gait” 국내논문	80
#5	“전체=하지 AND 전체=재활 AND 전체=로봇” 국내논문	9
#6	“전체=로봇 AND 전체=보행 AND 전체=재활” 국내논문	70
Total		<b>270</b>