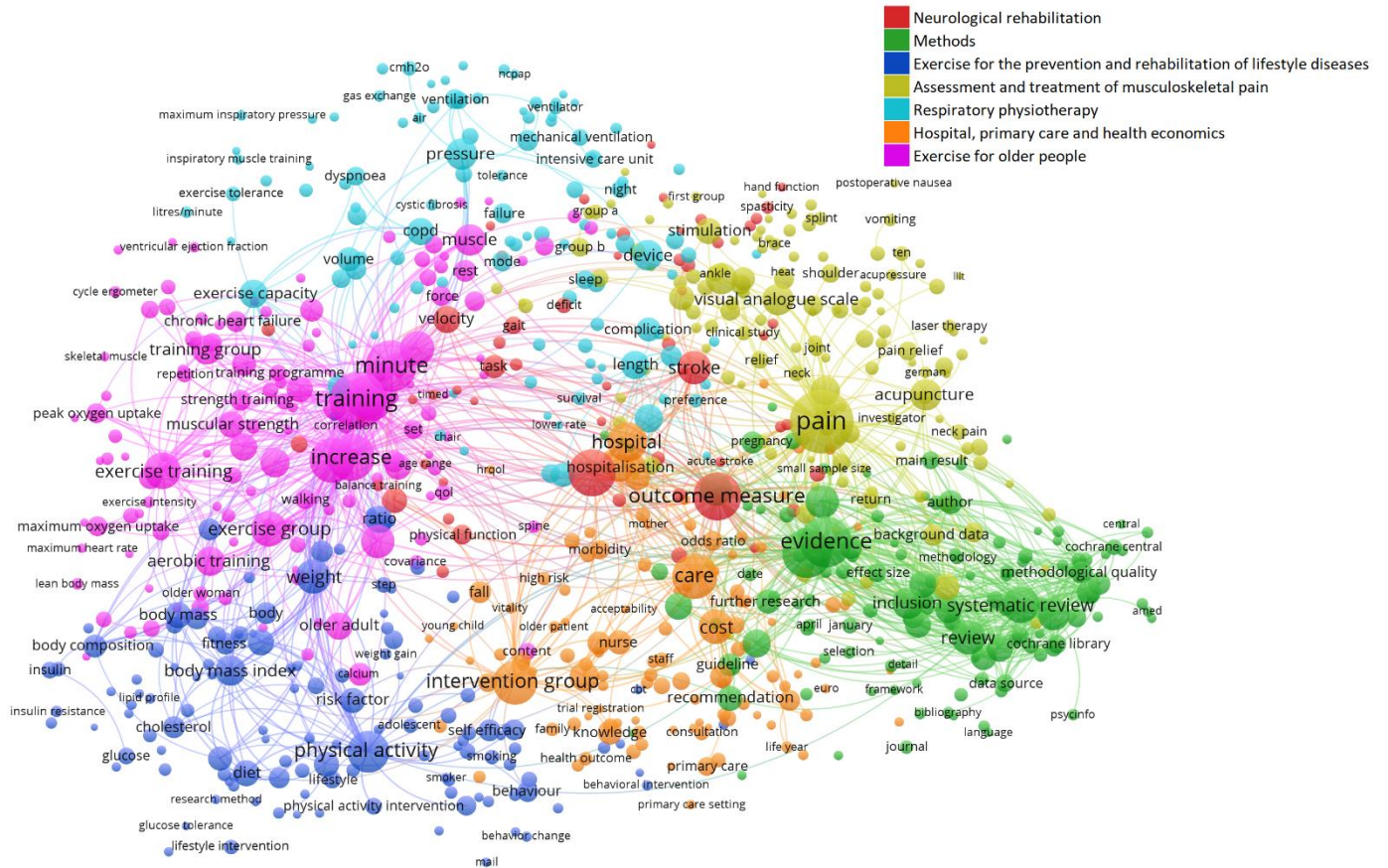


Figure 1B: The thematic structure of physiotherapy discipline for articles published in 1998 to 2007



Supplementary file. Figure 2. Temporal evolution of production for the 10 most productive countries in 1986 to 2017

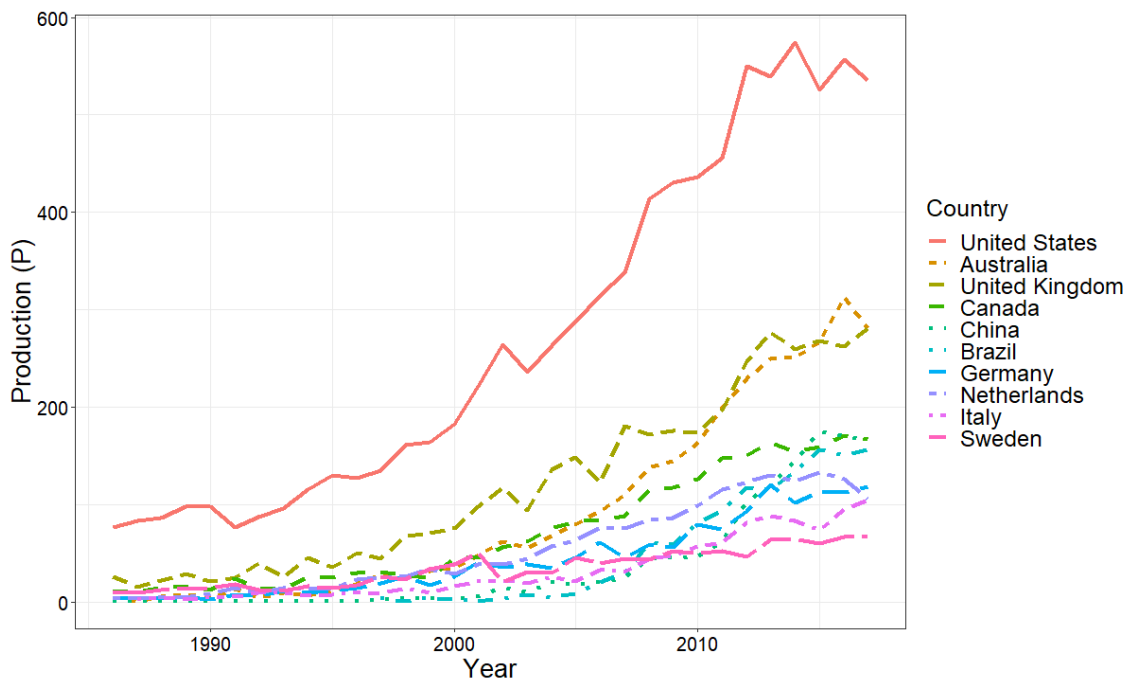


Table 1. Supplementary file. Data about production, impact, and ranking of countries producing more than 100 articles.

Country	P	logP	Citations	MCS	logMCS	Ranking P	Ranking MCS
United States	8,614	3.94	450,541	52.30	1.72	1	1
United Kingdom	3,772	3.58	160,840	42.64	1.63	2	7
Australia	2,937	3.47	102,491	34.90	1.54	3	15
Canada	2,273	3.36	112,515	49.50	1.69	4	4
Netherlands	1,733	3.24	74,677	43.09	1.63	5	6
Germany	1,385	3.14	51,171	36.95	1.57	6	14
Brazil	1,200	3.08	21,669	18.06	1.26	7	27
China	1,189	3.08	23,787	20.01	1.30	8	26
Sweden	1,086	3.04	40,390	37.19	1.57	9	12
Italy	1,003	3.00	40,413	40.29	1.61	10	10
Spain	948	2.98	26,928	28.41	1.45	11	20
Korea, Republic of	870	2.94	10,514	12.09	1.08	12	31
Denmark	742	2.87	23,621	31.83	1.50	13	19
Turkey	673	2.83	10,983	16.32	1.21	14	29
Norway	663	2.82	27,045	40.79	1.61	15	8
Taiwan	572	2.76	12,008	20.99	1.32	16	25
Finland	543	2.73	27,439	50.53	1.70	17	3
Japan	537	2.73	13,097	24.39	1.39	18	21
France	535	2.73	27,533	51.46	1.71	19	2
Belgium	529	2.72	21,483	40.61	1.61	20	9
Switzerland	525	2.72	22,787	43.40	1.64	21	5
New Zealand	387	2.59	15,135	39.11	1.59	22	11

Country	P	logP	Citations	MCS	logMCS	Ranking P	Ranking MCS
Iran (Islamic Republic of)	307	2.49	3,097	10.09	1.00	23	32
Austria	277	2.44	8,964	32.36	1.51	24	18
Israel	247	2.39	8,291	33.57	1.53	25	16
Ireland	231	2.36	5,556	24.05	1.38	26	22
India	221	2.34	5,092	23.04	1.36	27	23
Portugal	201	2.30	4,494	22.36	1.35	28	24
Greece	196	2.29	7,269	37.09	1.57	29	13
Poland	167	2.22	5,506	32.97	1.52	30	17
South Africa	124	2.09	2,196	17.71	1.25	31	28
Thailand	124	2.09	1,997	16.10	1.21	31	30
Egypt	106	2.03	816	7.70	0.89	32	33

P—publication output (i.e., number of articles per country); logP—logarithmic value of P; MCS—mean citation score (i.e. number of citations received by a particular country divided by the total number of articles assigned to it); logMCS—logarithmic value of MCS; Ranking P—position of the country within the list of most productive countries; Ranking MCS—position of the country ordered by MCS value within the total number of countries.

Table 2. Supplementary file. Data about production, and ranking of all countries.

Country	P	Ranking P
United States	8,614	1
United Kingdom	3,772	2
Australia	2,937	3
Canada	2,273	4
Netherlands	1,733	5
Germany	1,385	6
Brazil	1,200	7
China	1,189	8
Sweden	1,086	9
Italy	1,003	10
Spain	948	11
Korea, Republic of	870	12
Denmark	742	13
Turkey	673	14
Norway	663	15
Taiwan	572	16
Finland	543	17
Japan	537	18
France	535	19
Belgium	529	20
Switzerland	525	21
New Zealand	387	22
Iran (Islamic Republic of)	307	23
Austria	277	24
Israel	247	25
Ireland	231	26
India	221	27
Portugal	201	28
Greece	196	29
Poland	167	30

South Africa	124	31
Thailand	124	31
Egypt	106	33
Singapore	99	34
Saudi Arabia	88	35
Chile	76	36
Malaysia	66	37
Colombia	47	38
Mexico	46	39
Serbia	40	40
Hungary	39	41
Slovenia	36	42
Argentina	33	43
Pakistan	32	44
Iceland	30	45
Nigeria	30	45
Czech Republic	29	47
Qatar	25	48
Tunisia	23	49
Croatia	22	50
Romania	20	51
Russia	20	51
Cyprus	19	53
Jordan	18	54
Luxembourg	13	55
Lebanon	10	56
United Arab Emirates	8	57
Philippines	7	58
Cuba	7	58
Slovakia	7	58
Lithuania	7	58
Venezuela	6	62
Uruguay	6	62
Bangladesh	6	62
Peru	5	65
Ethiopia	5	65
Vietnam	5	65
Hong Kong	4	68
Brunei Darussalam	4	68
Nepal	4	68
Ghana	4	68
Sri Lanka	4	68
Estonia	3	73
Iraq	3	73
Jamaica	3	73
Rwanda	3	73
Ukraine	3	73
Reunion	3	73
Indonesia	3	73
Bulgaria	3	73

Zimbabwe	2	81
Costa Rica	2	81
Serbia	2	81
Kuwait	2	81
North Macedonia	2	81
Bosnia and Herzegovina	2	81
Bahrain	2	81
Dominican Republic	2	81
Trinidad and Tobago	2	81
Malawi	2	81
Bolivia	2	81
USSR	2	81
Malta	1	93
Gambia	1	93
Netherlands Antilles	1	93
Kenya	1	93
Guatemala	1	93
Paraguay	1	93
Myanmar	1	93
Uganda	1	93
Armenia	1	93
Namibia	1	93
Ecuador	1	93
Latvia	1	93
Czechoslovakia	1	93
Kazakhstan	1	93
Mozambique	1	93
Saint Lucia	1	93

P—publication output (i.e., number of articles per country); Ranking P—position of the country within the list of most productive countries

Table 3. Supplementary file. Signal words frequency

Id	Signal word	Frequency
70	baseline	6403
288	evidence	5305
1012	training	5240
972	subjects	5155
1096	woman	4953
805	randomised controlled trial	4554
992	test	4204
982	systematic review	3889
596	minute	3723
484	interval	3577
725	physical activity	3574
898	session	3527
487	intervention group	3380
855	risk	3064

582	medline	3023
459	increase	2936
952	strength	2749
849	review	2720
562	man	2635
584	meta analysis	2464
458	inclusion	2313
272	embase	1988
100	body mass index	1954
218	database	1954
306	exercise training	1922
300	exercise program	1909
558	main outcome measures	1870
808	ratio	1849
1081	weight	1848
297	exercise group	1844
55	article	1777
723	performance	1756
845	response	1750
958	stroke	1725
832	research	1703
142	cinahl	1662
201	criterium	1630
28	aerobic training	1617
66	balance	1589
311	experimental group	1546
634	muscle	1545
225	decrease	1510
539	literature	1480
735	pilot study	1464
676	older adult	1412
620	motion	1411
696	pain intensity	1407
25	adverse event	1405
196	cost	1386
1058	visual analogue scale	1382
1028	trial registration	1377
867	search	1317
575	mean difference	1306
12	acupuncture	1282
240	diet	1266
641	muscular strength	1252
360	further research	1222
237	diabetes	1211
1050	velocity	1200
772	pressure	1178
812	recommendation	1171
909	significant change	1170

629	movement	1163
296	exercise capacity	1142
93	blood pressure	1135
342	form	1132
1016	training program	1124
402	guideline	1097
1014	training group	1089
916	significant increase	1077
157	cochrane library	1074
856	risk factor	1065
590	methodological quality	1049
1084	weight loss	1048
82	bias	1034
62	author	1027
99	body mass	1027
771	present study	971
388	greater improvement	961
839	resistance training	954
512	lack	953
546	low back pain	934
168	complication	926
191	copd	917
97	body composition	907
668	obesity	878
951	stimulation	870
447	hospitalisation	866
504	knee	863
617	mortality	859
432	heterogeneity	846
1	6 minute walk test	844
559	main result	843
986	task	835
1061	volume	834
423	heart rate	828
860	safety	819
136	cholesterol	818
186	controlled trial background	817
830	report	810
497	january	809
884	self efficacy	804
96	body	802
155	cochrane central	799
362	gain	789
214	data collection	787
27	aerobic capacity	781
216	data source	781
336	fitness	774
77	behaviour	771

117	capacity	762
701	paper	760
716	pedro	757
993	testing	743
495	issue	740
1047	variance	738
1057	visual analog scale	738
246	distance	735
267	electronic database	729
821	rehabilitation program	723
245	discharge	718
1068	walking	706
1072	web	705
815	reference list	703
158	cochrane review	699
761	power	697
577	measures	695
790	psycinfo	694
854	reviewer	694
946	standardised mean difference	681
911	significant decrease	679
897	service	678
722	percentage	671
862	school	669
836	resistance	664
727	physical activity intervention	663
904	short term	662
882	selection criteria	659
144	class	655
193	coronary artery disease	654
953	strength training	652
846	rest	650
185	control patient	648
255	economic evaluation	648
653	none	646
248	double blind	644
900	sham	634
605	mmhg	624
659	nurse	624
363	gait	623
224	decline	620
170	concentration	619
138	chronic low back pain	616
206	current evidence	612
215	data extraction	607
491	interventions	606
782	profile	602
713	peak oxygen uptake	596

320	failure	591
503	kg/m ²	588
128	central	587
902	short form	584
152	cluster	580
561	majority	579
572	maximum oxygen uptake	577
441	high risk	571
381	grade	569
863	science	566
528	lifestyle intervention	565
475	intake	555
899	set	554
197	counseling	552
984	systolic blood pressure	550
137	chronic heart failure	549
519	leg	546
281	english language	541
1065	waist circumference	533
23	adolescent	532
338	flexion	530
949	step	525
560	maintenance	524
1051	ventilation	522
239	diastolic blood pressure	515
230	department	514
568	marker	511
699	pain relief	509
262	elderly patient	508
339	force	501
63	authors conclusions	499
837	resistance exercise	496
905	shoulder	495
56	asthma	494
541	literature search	491
969	study selection	491
120	cardiovascular disease	490
219	date	490
861	sample size	490
747	position	485
948	stay	484
337	flexibility	479
876	secondary outcome measure	477
222	december	476
973	subscale	474
252	dyspnoea	469
238	diary	468
349	functional capacity	464

777	primary care	456
264	electrical stimulation	454
868	search methods	451
498	joint	446
314	extension	445
180	consumption	443
755	postmenopausal woman	443
1019	training session	443
463	infant	442
22	admission	441
221	death	437
285	estimate	436
327	favour	436
184	contraction	435
824	relevant study	435
451	hypertension	434
766	predictor	434
767	pregnancy	431
985	t test	430
456	inception	428
479	interest	428
1077	week period	428
567	march	426
457	included study	424
1039	university	424
340	forced expiratory volume in 1 second	423
737	placebo group	423
472	insulin	422
526	lifestyle	418
607	mobilization	418
1048	variety	418
331	field	416
501	june	416
581	medicine	414
848	return	414
730	physical fitness	413
850	review author	413
610	moderate quality evidence	411
303	exercise session	406
490	intervention study	406
791	publication	404
1002	timed	404
129	cerebral palsy	403
220	days/week	403
648	neck pain	403
427	height	402
489	intervention program	402
694	oxygen uptake	400

103	bone mineral density	399
702	parent	399
269	eligibility	397
994	theory	397
500	july	396
803	random effects model	395
148	clinical practice	393
626	motor function	393
907	side	393
965	study period	393
563	manipulation	392
869	search strategy	392
971	subgroup analysis	392
17	adaptation	391
376	glucose	391
573	may	391
414	health outcome	390
549	low quality evidence	390
591	methodology	387
728	physical activity level	387
754	post-treatment	386
806	randomised trial	386
467	injection	385
828	repetition	384
194	correlation	381
183	continuous positive airway pressure	380
544	load	380
1021	treadmill	380
39	amed	379
176	conservative treatment	377
486	intervention effect	377
885	self management	377
834	researcher	376
823	relative risk	373
3	abstract	371
326	fat mass	371
609	moderate intensity exercise	371
988	telephone	371
394	group b	369
8	activation	368
53	april	368
1062	volunteer	364
74	beginning	362
121	cardiovascular risk factor	361
328	february	359
476	intensive care unit	359
492	interview	359
511	laboratory	357

813	reference	353
921	single blind	353
46	ankle	351
1017	training programme	350
48	anova	347
851	review background	347
156	cochrane collaboration	346
366	gait velocity	346
1020	transcutaneous electrical nerve stimulation	346
391	grip strength	345
533	limited evidence	344
42	analgesia	343
892	september	342
65	background data	340
1045	usual care group	340
675	october	339
111	breathing	337
438	high quality evidence	336
499	journal	335
693	oxygen saturation	335
59	athlete	334
789	provider	334
857	risk ratio	334
61	august	332
199	covariance	332
703	parkinson	331
807	range of motion	330
78	berg balance scale	329
324	family	329
464	inflammation	326
1083	weight gain	326
825	relief	325
942	stability	325
579	mechanical ventilation	323
217	data synthesis	322
232	depression scale	322
67	balance training	321
204	crossover study	320
141	chronic stroke	319
657	november	318
1075	week intervention	318
614	month period	317
935	source	317
471	insufficient evidence	316
343	forty	315
45	angle	314
698	pain reduction	314
692	oxygen	313

493	investigator	312
753	post-test	311
983	systematic search	311
250	dual energy x-ray absorptiometry	309
304	exercise test	309
962	student	309
1024	treatment period	306
1088	western ontario and mcmaster osteoarthritis index	306
118	cardiac rehabilitation	305
1040	university hospital	305
906	shoulder pain	304
566	manual therapy	303
175	consensus	302
271	eligible trial	302
578	measures analysis	302
646	neck	302
623	motor	301
847	retention	299
43	analysis background	298
276	energy	298
516	laser therapy	297
990	ten	297
105	bout	296
710	patient satisfaction	296
651	night	295
864	scopus	294
733	physical performance	293
1067	walk	293
1025	treatment session	292
871	second	291
531	limb	290
1001	time interaction	290
266	electromyography	289
90	blinding	285
198	country	285
256	education program	284
662	nutrition	283
305	exercise tolerance	282
940	sportdiscus	282
113	c reactive protein	281
140	chronic pain	281
460	independent reviewer	281
678	older woman	281
981	synthesis	279
407	healing	278
934	society	278
1035	ultrasound therapy	277
555	lung function	276

660	nursing	276
473	insulin resistance	275
881	selection	275
1042	upper extremity	275
431	hemoglobin a1c	274
604	ml/kg/min	274
793	pulmonary function	274
208	cycle	272
1069	walking distance	272
4	accelerometry	271
829	repetition maximum	271
835	resident	271
831	reporting	269
927	small number	269
1015	training period	268
621	motivation	267
68	barrier	265
169	compression	265
371	general practitioner	265
292	exclusion	264
406	headache	263
488	intervention patient	263
995	therapeutic effect	263
290	exacerbation	261
1026	trial purpose	260
1041	update	260
1087	weighted mean difference	260
277	energy expenditure	259
715	pedometer	258
936	spasticity	258
967	study quality	258
313	expiratory volume	257
355	functional performance	257
552	lower limb	257
768	pregnant woman	257
550	low risk	256
69	barthel index	255
674	occupational therapy	255
833	research design	253
5	access	251
389	greater increase	250
101	bone	249
173	consecutive patient	247
1070	ward	245
928	small sample size	242
312	expert	241
375	girl	240
482	internet	240

525	life year	240
378	glycaemic control	239
134	chest physiotherapy	238
318	face	238
685	outpatient clinic	238
933	social support	238
551	lower extremity	237
961	strong evidence	237
1044	upper limb function	237
518	lean body mass	236
930	smoking	236
257	educational intervention	235
979	survival	235
243	disability index	234
636	muscle function	234
461	indication	233
717	pedro scale	233
764	pre-test	232
796	quadricep	232
370	general practice	231
409	health benefit	231
210	cycling	230
644	nature	229
680	operation	229
888	self report	229
1043	upper limb	229
1029	trials register	226
247	distribution	225
637	muscle mass	225
513	language	224
794	pulmonary rehabilitation	224
344	framework	223
1098	wrist	223
86	biomarker	222
274	employee	222
893	serious adverse event	222
76	behavioral intervention	221
681	orthosis	220
587	metabolic syndrome	219
682	osteoporosis	219
763	practitioner	219
787	protein	219
901	sham acupuncture	219
1031	triglyceride	219
645	nausea	217
741	player	217
392	group a	216
1022	treadmill training	216

1046	validity	216
107	boy	215
718	peer	215
478	interaction effect	214
631	multicenter	214
891	sensitivity analysis	213
1059	vital capacity	213
60	attitude	211
154	cmh2o	211
234	detail	211
298	exercise intensity	211
536	lipid	211
367	game	210
452	immediate effect	209
667	obese woman	209
873	secondary endpoint	209
939	splint	209
1090	whole body vibration	209
890	sensation	208
308	exertion	206
405	harm	205
410	health care	205
773	pressure pain threshold	205
474	insulin sensitivity	204
1009	total knee replacement	204
177	consideration	203
40	amplitude	202
75	behavior change	202
108	brace	202
430	hemoglobin	202
712	peak	202
1097	workload	202
671	obstructive sleep apnea	201
816	referral	201
817	regular exercise	201
553	lumbar spine	200
580	mediator	199
527	lifestyle change	198
537	lipid profile	197
556	magnetic resonance image	196
765	pre-treatment	196
133	change score	195
586	metabolic equivalent	195
663	obese	194
683	oswestry disability index	194
1007	topic	194
658	numerical rating scale	193
153	cm2	192

357	functional recovery	192
365	gait training	192
434	high intensity	192
1060	vitality	192
151	clinical trial background	191
200	covariate	191
619	mother	191
116	cancer treatment	190
959	stroke rehabilitation	190
190	conventional therapy	188
301	exercise protocol	188
400	group session	188
11	acupressure	187
189	conventional physiotherapy	187
273	emergency department	187
514	language restriction	187
937	spinal manipulation	187
1005	title	187
413	health education	186
666	obese patient	186
798	quality assessment	186
720	pelvic floor muscle training	185
774	pressure ulcer	185
779	primary end point	185
34	alteration	184
557	main effect	184
697	pain management	184
938	spirometry	184
36	alternative treatment	183
91	blood	183
147	clinical effectiveness	183
470	inspiratory muscle training	182
684	outcome data	182
87	birth	181
261	elbow	181
307	exerciser	181
418	health survey	181
734	physiotherapy intervention	181
865	screening	181
917	significant interaction	181
1013	training effect	180
92	blood glucose	179
263	elderly woman	179
583	memory	179
606	mmol/l	179
670	observer	179
802	random effect	179
162	cohort study	178

397	group comparison	178
505	knee extension	178
689	overweight	178
784	promotion	178
883	selection criterium	178
94	blood sample	177
187	controlled trial objective	177
251	dynamic balance	177
781	probability	177
1006	tolerance	177
127	caution	176
310	experiment	176
445	hospital anxiety	176
446	hospital discharge	176
664	obese adult	176
669	observational study	176
966	study population	176
235	determinant	175
775	preterm infant	175
799	quality-adjusted life year	175
282	enhancement	174
548	low intensity	174
783	progressive resistance training	174
299	exercise performance	173
1055	vigorous physical activity	173
33	alpha	172
346	fugl meyer assessment	172
20	adiposity	171
351	functional electrical stimulation	171
571	maximum inspiratory pressure	171
71	beck depression inventory	170
202	cross sectional area	170
283	enrollment	170
485	intervention arm	170
428	hemiparesis	169
597	minute session	169
758	postural control	169
1063	vomiting	169
453	immobilization	168
1004	times/week	168
341	forced vital capacity	167
442	home exercise program	167
542	litres/minute	167
1054	vibration	167
143	citation	166
289	evidence base	166
650	neuromuscular electrical stimulation	166
709	patient outcome	166

80	beta	165
809	reach	165
1085	weight loss intervention	164
2	abduction	163
688	overview	163
1018	training protocol	163
601	minutes/session	162
613	month intervention	162
630	movement therapy	162
843	respiratory questionnaire	162
104	booklet	161
260	ejection fraction	161
353	functional independence measure	161
570	maximum heart rate	161
628	motor recovery	161
996	therapeutic exercise	161
270	eligible patient	160
661	nursing home	160
10	acupoint	159
233	description	159
745	pooling	159
165	communication	158
161	cognitive performance	157
569	massage therapy	157
593	middle	157
826	removal	157
887	self monitoring	157
1082	weight change	157
368	gap	156
374	gestational age	156
530	lilacs	156
665	obese child	156
672	occasion	156
52	apnea hypopnea index	155
139	chronic neck pain	155
179	constraint induced movement therapy	155
211	cystic fibrosis	155
443	home visit	155
1032	trunk	155
38	ambulation	154
352	functional improvement	154
742	pneumonia	154
125	cast	153
592	mg/dl	153
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