

Safari MR, Meier MR. Systematic review of effects of current transtibial prosthetic designs—Part 1: Qualitative outcomes. *J Rehabil Res Dev.* 2015;52(5):491–508.

Appendix 1. Search queries.

Search Queries in PubMed		
Search No.	Query	<i>n</i>
1	"Amputation"[Mesh] OR "Amputees"[Mesh] OR "Amputation Stumps"[Mesh] OR "limb loss" OR amput*	13,582,366
2	("Leg"[Mesh] OR "Lower Extremity"[Mesh] OR "Tibia"[Mesh] OR "lower limb")	11,233,118
3	(transtibial OR trans-tibial OR "below the knee" OR "below knee")	4,692,059
4	(#3) OR #2	419,391
5	(#4) AND #1	238,807
6	("Artificial Limbs"[Mesh] OR "Prostheses and Implants"[Mesh]) OR Prosth*)	156,207
7	("Patellar Tendon Bearing" OR PTB OR "silicone suction socket" OR IceCast OR IceRoss OR "Total Surface Bearing" OR TSB OR hydrocast OR hydro-cast OR pressure-cast OR Icx OR "hands off" OR "hands on" OR "Hands-on" OR "Hands-off" OR hydrostatic OR "hydrostatic socket" OR "pressure cast" OR VASS OR vacuum OR "Vacuum Assisted" OR sub-atmospheric OR "sub atmospheric" OR socket)	154,583
8	(#6) AND #7	140,010
9	("Prosthesis Fitting"[Mesh] OR "Prosthesis Retention"[Mesh] OR "Pressure"[Mesh] OR "Weight-Bearing"[Mesh])	104,482
10	("Quality of Life"[Mesh] OR "Quality of Health Care"[Mesh] OR "Questionnaires"[Mesh] OR "Rehabilitation"[Mesh] OR "Patient Satisfaction"[Mesh] OR "Patient Preference"[Mesh])	47,883
11	("Walking"[Mesh] OR "Gait"[Mesh] OR "Locomotion"[Mesh])	39,339
12	("Activities of Daily Living"[Mesh] OR "Motor Activity"[Mesh] OR "Task Performance and Analysis"[Mesh])	12,627
13	(gait OR walking OR ambulation OR kinetic OR kinematic OR spatio-temporal OR "spatial temporal" OR time-distance OR "time distance" OR suspension OR pistoning OR retention OR comfort OR "socket comfort" OR pain OR discomfort OR function OR performance OR "quality of life" OR QoL OR satisfaction OR preference OR "activity of daily living" OR pressure OR stress OR "interface pressure" OR "interface stress")	4,231
14	((((#9) OR #10) OR #11) OR #12) OR #13	3,899
15	((#5) AND #8) AND #14	328

Search Queries in Journals@Ovid

Search No.	Query	<i>n</i>
1	(transtibial or trans-tibial or "below the knee" or "below knee").mp.	8,458
2	(amputee or amputees or amput*).mp.	39,817
3	("Patellar Tendon Bearing" or PTB or silicon suction socket or IceCast or IceRoss or "Total Surface Bearing" or TSB or hydrocast or hydro-cast or pressure-cast or IceX or "hands off" or "hands on" or "Hands-on" or "Hands-off" or hydrostatic or "hydrostatic socket" or "pressure cast" or VASS or vacuum or "Vacuum Assisted" or sub-atmospheric or "sub atmospheric" or socket).mp.	224,929
4	#1 and #2	4,370
5	#3 and #4	766
6	("Prosthesis Fitting" or "Prosthesis Retention" or "Pressure" or "Weight-Bearing" or "Quality of Life" or "Quality of Health Care" or "Questionnaires" or "Rehabilitation" or "Patient Satisfaction" or "Patient Preference" or "Walking" or "Gait" or "Locomotion" or "Activities of Daily Living" or "Motor Activity" or "Task Performance and Analysis" or gait or walking or ambulation or kinetic or kinematic or spatio-temporal or "spatial temporal" or time-distance or "time distance" or suspension or pistoning or retention or comfort or "socket comfort" or pain or discomfort or function or performance or "quality of life" or QoL or satisfaction or preference or "activity of daily living" or pressure or stress or "interface pressure" or "interface stress").mp.	2,937,593
7	#5 and #6	732

mp = title, abstract, full text, caption text.

Search Queries in Embase

Search No.	Query	<i>n</i>
1	amputation/ or limb amputation/ or leg amputation/	28,403
2	amputation stump/	6,724
3	(amputee or amputees or amput*).mp	60,609
4	#1 or #2 or #3	60,609
5	leg/	75,594
6	tibia/	32,132
7	(transtibial or trans-tibial or "below the knee" or "below knee").mp	6,557
8	#5 or #6 or #7	111,236
9	#4 and #8	(9,920)
10	limb prosthesis/	3,365
11	prosth*.mp	241,505
12	#10 or #11	241,505
13	("Patellar Tendon Bearing" or PTB or silicon suction socket or IceCast or IceRoss or "Total Surface Bearing" or TSB or hydrocast or hydro-cast or pressure-cast or Icx or "hands off" or "hands on" or "Hands-on" or "Hands-off" or hydrostatic or "hydrostatic socket" or "pressure cast" or VASS or vacuum or "Vacuum Assisted" or sub-atmospheric or "sub atmospheric" or socket).mp.	55,743
14	#12 and #13	3,906
15	prosthesis fitting.mp.	152
16	prosthesis retention.mp.	86
17	interface pressure/ or pressure/	49,847
18	weight bearing/	19,901
19	"quality of life"/	222,944
20	health care quality/	174,213
21	questionnaire/	358,267
22	rehabilitation/	58,742
23	patient satisfaction/	79,874
24	patient preference/	3,229
25	walking/	36,806
26	gait/	26,081
27	locomotion/	46,827
28	daily life activity	52,733
29	motor activity/	40,247
30	performance/ or task performance/ or motor performance/	160,745
31	#15 or #16 or #17 or #18 or #19 or #20 or #21 or #22 or #23 or #24 or #25 or #26 or #27 or #28 or #29 or #30	1,166,550
32	(gait or walking or ambulation or kinetic or kinematic or spatio-temporal or "spatial temporal" or time-distance or "time distance" or suspension or pistoning or retention or comfort or "socket comfort" or pain or discomfort or function or performance or "quality of life" or QoL or satisfaction or preference or "activity of daily living" or pressure or stress or "interface pressure" or "interface stress").mp.	5,688,071
33	#31 or #32	6,130,957
34	#9 and #14 and #33	349

mp = title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword.