Remote Patient Pedal Monitoring for Foot Ulcer Prevention

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U.S. Department of Veterans Affairs
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Health Systems Research

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Appendices

SEARCH STRATEGIES

PRIMARY LITERATURE SEARCH

Primary Literature Search Summary

Database (Platform)	Records Identified
MEDLINE (Ovid)	673
Cochrane (Wiley)	355
CINAHL (EBSCO)	465
Scopus (Elsevier)	252
Total results across databases	**1745**
Total after deduplication	**1336**

MEDLINE (OVID) (EPUB AHEAD OF PRINT AND IN-PROCESS, IN-DATA-REVIEW & OTHER NON-INDEXED CITATIONS AND DAILY MAY 02, 2025)

#	Search Statement	Results
1	exp Foot Ulcer/ or (((diabet* or insensate or ulcer*) adj3 (feet or foot or forefoot or heel* or limb* or metatars* or pedal or plantar or toe*)) or dfu or dfus).ti,ab,kf.	23894
2	(Pressure Ulcer/ or (bedsore* or bed sore* or ((decubitus or deep tissue or pressure) adj3 (injur* or sore* or ulcer*))).ti,ab,kf.) and (exp Foot/ or (feet or foot or forefoot or heel* or limb* or metatars* or pedal or plantar or toe*).ti,ab,kf.)	2075
3	Peripheral Nervous System Disease/ or Polyneuropathies/ or (peripheral neuropath* or ((peripheral nervous system or pns) adj3 (disease* or disorder*)) or polyneuropath* or charcot foot).ti,ab,kf.	64182
4	Amputation, Surgical/ or ((histor* or past or previous or prior) adj3 amputat*).ti,ab,kf.	25739
5	exp Peripheral Arterial Disease/ or (peripheral arter* disease* or chronic limb-threatening ischemia or clti or critical limb ischemia or intermittent claudication).ti,ab,kf.	37557
6	exp Peripheral Vascular Diseases/ or (peripheral vascular disease* or peripheral angiopath* or blue toe syndrome).ti,ab,kf.	76274
7	or/1-6	193031
8	Monitoring, Ambulatory/ or Protective Devices/ or Remote Sensing Technology/ or Wearable Electronic Devices/ or (((in-home or wearable) adj3 (device* or sensor* or technolog* or system*)) or (remote adj3 (device* or foot or monitor* or pedal or plantar or pressure or sensing or system* or technolog* or temperature* or thermal or unit*)) or RTM or RFTM or (temperature adj3 (assess* or monitor*)) or (inflammation adj3 (detect* or monitor*)) or smartmat* or ((smart or temperature or wireless floor) adj3 mat*) or ((biomech* or biosensor* or diabetic or digital or health technolog* or intelligent or sensing or sens* or smart or system* or therap* technolog* or wearable) adj1 (boot* or footwear or in-shoe or insole* or shoe* or sock*)) or empo mat* or medilogic or motus or orpyx or pedar or podimetrics or siren or tekscan or trublue).ti,ab,kf.	100847
9	7 and 8	673
	Total	673

Search date: 05/05/25

COCHRANE DATABASE OF SYSTEMATIC REVIEWS AND COCHRANE CENTRAL REGISTER OF CONTROLLED TRIALS VIA COCHRANE LIBRARY (WILEY)

1	MeSH descriptor: [Pressure Ulcer] this term only	1121
2	(bedsore* or bed sore* or ((decubitus or deep tissue or pressure) NEAR/3 (injur* or sore* or ulcer*))):ti,ab,kw	6775
3	#1 or #2	6775
4	MeSH descriptor: [Foot] explode all trees	1867
5	(feet or foot or forefoot or heel* or limb* or metatars* or pedal or plantar or toe*):ti,ab,kw	70309
6	#4 or #5	70313
7	#3 and #6	910
8	MeSH descriptor: [Foot Ulcer] explode all trees	1703
9	MeSH descriptor: [Peripheral Nervous System Diseases] this term only	1506
10	MeSH descriptor: [Polyneuropathies] this term only	309
11	MeSH descriptor: [Amputation, Surgical] this term only	691
12	MeSH descriptor: [Peripheral Arterial Disease] explode all trees	2672
13	MeSH descriptor: [Peripheral Vascular Diseases] explode all trees	5088
14	(((diabet* or insensate or ulcer*) NEAR/3 (feet or foot or forefoot or heel* or limb* or metatars* or pedal or plantar or toe*)) or dfu or dfus or peripheral neuropath* or ((peripheral nervous system or pns) NEAR/3 (disease* or disorder*)) or polyneuropath* or charcot foot or ((histor* or past or previous or prior) NEAR/3 amputat*) or peripheral arter* disease* or chronic limb-threatening ischemia or clti or critical limb ischemia or intermittent claudication or peripheral vascular disease* or peripheral angiopath* or blue toe syndrome):ti,ab,kw	41306
15	or #7-#14	43959
16	MeSH descriptor: [Monitoring, Ambulatory] this term only	673
17	MeSH descriptor: [Protective Devices] this term only	285
18	MeSH descriptor: [Remote Sensing Technology] this term only	72
19	MeSH descriptor: [Wearable Electronic Devices] this term only	356
20	(((in-home or wearable) NEAR/3 (device* or sensor* or technolog* or system*)) or (remote NEAR/3 (device* or foot or monitor* or pedal or plantar or pressure or sensing or system* or technolog* or temperature* or thermal or unit*)) or RTM or RFTM or (temperature NEAR/3 (assess* or monitor*)) or (inflammation adj3 (detect* or monitor*)) or smartmat* or ((smart or temperature or wireless floor) NEAR/3 mat*) or ((biomech* or biosensor* or diabetic or digital or health technolog* or intelligent or sensing or sens* or smart or system* or therap* technolog* or wearable) NEAR/1 (boot* or footwear or in-shoe or insole* or shoe* or sock*)) or empo mat* or medilogic or motus or orpyx or pedar or podimetrics or siren or tekscan or trublue):ti,ab,kw	6491
21	or #16-#20	7399
22	#15 and #21	355
	Total	355

Search date: 05/05/25

CINAHL ULTIMATE (EBSCO)

#	Search Statement	Results
1	(MH "Foot Ulcer+") OR TI (((diabet* or insensate or ulcer*) N3 (feet or foot or forefoot or heel* or limb* or metatars* or pedal or plantar or toe*)) or dfu or dfus) OR AB (((diabet* or insensate or ulcer*) N3 (feet or foot or forefoot or heel* or limb* or metatars* or pedal or plantar or toe*)) or dfu or dfus)	15757
2	((MH "Foot+") OR TI ((feet or foot or forefoot or heel* or limb* or metatars* or pedal or plantar or toe*)) OR AB ((feet or foot or forefoot or heel* or limb* or metatars* or pedal or plantar or toe*))) AND ((MH "Pressure Ulcer+") OR TI ((bedsore* or bed sore* or ((decubitus or deep tissue or pressure) N3 (injur* or sore* or ulcer*)))) OR AB ((bedsore* or bed sore* or ((decubitus or deep tissue or pressure) N3 (injur* or sore* or ulcer*)))))	1638
3	(MH "Peripheral Nervous System Diseases") OR (MH "Polyneuropathies") OR TI ((peripheral neuropath* or ((peripheral nervous system or pns) N3 (disease* or disorder*)) or polyneuropath* or charcot foot)) OR AB ((peripheral neuropath* or ((peripheral nervous system or pns) N3 (disease* or disorder*)) or polyneuropath* or charcot foot))	15467
4	(MH "Amputation+") OR TI (((histor* or past or previous or prior) N3 amputat*)) OR AB (((histor* or past or previous or prior) N3 amputat*))	10202
5	(MH "Peripheral Vascular Diseases+") OR TI ((peripheral arter* disease* or chronic limb-threatening ischemia or clti or critical limb ischemia or intermittent claudication or peripheral vascular disease* or peripheral angiopath* or blue toe syndrome)) OR AB ((peripheral arter* disease* or chronic limb-threatening ischemia or clti or critical limb ischemia or intermittent claudication or peripheral vascular disease* or peripheral angiopath* or blue toe syndrome))	26599
6	S1 or S2 or S3 or S4 or S5	52948
7	(MH “Wearable Sensors”) OR (MH "Protective Devices") OR TI ((((in-home or wearable) N3 (device* or sensor* or technolog* or system*)) or (remote N3 (device* or foot or monitor* or pedal or plantar or pressure or sensing or system* or technolog* or temperature* or thermal or unit*)) or RTM or RFTM or (temperature N3 (assess* or monitor*)) or (inflammation N3 (detect* or monitor*)) or smartmat* or ((smart or temperature or wireless floor) N3 mat*) or ((biomech* or biosensor* or diabetic or digital or health technolog* or intelligent or sensing or sens* or smart or system* or therap* technolog* or wearable) N1 (boot* or footwear or in-shoe or insole* or shoe* or sock*)) or empo mat* or medilogic or motus or orpyx or pedar or podimetrics or siren or tekscan or trublue)) OR AB ((((in-home or wearable) N3 (device* or sensor* or technolog* or system*)) or (remote N3 (device* or foot or monitor* or pedal or plantar or pressure or sensing or system* or technolog* or temperature* or thermal or unit*)) or RTM or RFTM or (temperature N3 (assess* or monitor*)) or (inflammation N3 (detect* or monitor*)) or smartmat* or ((smart or temperature or wireless floor) N3 mat*) or ((biomech* or biosensor* or diabetic or digital or health technolog* or intelligent or sensing or sens* or smart or system* or therap* technolog* or wearable) N1 (boot* or footwear or in-shoe or insole* or shoe* or sock*)) or empo mat* or medilogic or motus or orpyx or pedar or podimetrics or siren or tekscan or trublue))	21472
8	S6 AND S7	465
	Total	465

Search date: 05/05/25

SCOPUS (ELSEVIER)

#	Search Statement	Results
1	TITLE-ABS-KEY (((diabet* OR insensate OR ulcer*) W/3 (feet OR foot OR forefoot OR heel* OR limb* OR metatars* OR pedal OR plantar OR toe*)) OR dfu OR dfus)	38239
2	TITLE-ABS-KEY (bedsore* OR "bed sore" OR "bed sores" OR ((decubitus OR "deep tissue" OR pressure) W/3 (injur* OR sore* OR ulcer*))) AND (feet OR foot OR forefoot OR heel* OR limb* OR metatars* OR pedal OR plantar OR toe*)	6490
3	TITLE-ABS-KEY ((peripheral W/1 neuropath*) OR (("peripheral nervous system" OR pns) W/3 (disease* OR disorder*)) OR polyneuropath* OR "charcot foot")	105955
4	TITLE-ABS-KEY ((histor* OR past OR previous OR prior)W/3 amputat*)	1279
5	TITLE-ABS-KEY((peripheral W/1 arter* W/1 disease*) or "chronic limb-threatening ischemia" or clti or "critical limb ischemia" or "intermittent claudication")	80177
6	TITLE-ABS-KEY ((peripheral W/1 vascular W/1 disease*) OR (peripheral W/1 angiopath*) OR "blue toe syndrome")	42747
7	#1 or #2 or #3 or #4 or #5 or #6	186122
8	TITLE-ABS-KEY(((in-home or wearable) W/3 (device* OR sensor* OR technolog* OR system*)) OR (remote W/3 (device* OR foot OR monitor* OR pedal OR plantar OR pressure OR sensing OR system* OR technolog* OR temperature* OR thermal OR unit*)) OR rtm OR rftm OR (temperature W/3 (assess* OR monitor*)) OR (inflammation W/3 (detect* OR monitor*)) OR smartmat* OR ((smart OR temperature OR "wireless floor") W/3 mat*) OR ((biomech* OR biosensor* OR diabetic OR digital OR (health W/1 technolog*) OR intelligent OR sensing OR sens* OR smart OR system* OR (therap* W/1 technolog*) OR wearable) W/1 (boot* OR footwear OR in-shoe OR insole* OR shoe* OR sock*)) OR empo AND mat* OR medilogic OR motus OR orpyx OR pedar OR podimetrics OR siren OR tekscan OR trublue)	275302
9	#7 and #8	252
	Total	252

Search date: 05/05/25