

Diagnosis and Management of Peripheral Arterial Disease: Search strategy

Existing Guidelines and Systematic Reviews

1. Existing Guidelines

An Internet search for existing evidence-based guidelines for Peripheral Vascular Disease and Peripheral Arterial Disease was conducted on 26 August 2003.

Resources	Internet (see list of websites below)
Year Range	1998 - 2003
Search Results	6

Websites Used:

Clinical Standards Board for Scotland (CSBS)

<http://www.clinicalstandards.org/>

Health Technology Board for Scotland (HTBS)

<http://www.htbs.org.uk>

National Institute for Clinical Excellence (NICE)

<http://www.nice.org.uk/>

NHS Centre for Reviews and Dissemination

<http://www.york.ac.uk/inst/crd/welcome.htm>

Agency for Health Care Research and Quality (AHRQ)

<http://www.ahrq.gov/>

ASERNIP-S (for surgery)

<http://www.racs.edu.au/open/asernip-s.htm>

Canadian Medical Association

<http://mdm.ca/cpgsnew/cpgs/index.asp>

Centre for Clinical Effectiveness (Australia)

<http://www.med.monash.edu.au/healthservices/cce/>

Health Technology Assessment

<http://www.hta.nhsweb.nhs.uk/>

National Guideline Clearinghouse

<http://www.guidelines.gov/index.asp>

New Zealand Guidelines Group

<http://www.nzgg.org.nz/>

National Health and Medical Research Council (NHMRC) - Australia

<http://www.health.gov.au/nhmrc/publications/index.htm>

Swedish Council on Technology Assessment in Health Care (SBU)

<http://www.sbu.se/admin/index.asp>

US National Institutes of Health

<http://www.nih.gov/>

National Electronic Library for Health (NeLH)

<http://www.nelh.nhs.uk/>

TRIP Database

<http://www.tripdatabase.com>

Google

<http://www.google.com/>

2. Systematic Reviews

A search for systematic reviews was carried out using Embase, Medline, CINAHL and the Cochrane Library. A presift removed all items which were not relevant to PVD/PAD or were not systematic reviews.

The search used the main stem and the systematic review filter.

Year Range	1998 - 2003
Search Results	388, presifted to 55

Medline

- 1 exp Peripheral Vascular Diseases/ (2150)
- 2 peripheral arterial disease.tw. (717)
- 3 pvd.tw. (325)
- 4 pad.tw. (2579)
- 5 exp Intermittent Claudication/ (1129)
- 6 claudication.tw. (1536)
- 7 claudicant.tw. (30)
- 8 Arterial Occlusive Diseases/ (4171)
- 9 peripheral vascular disease.tw. (1508)
- 10 or/1-9 (10848)
- 11 Meta-Analysis/ (2918)
- 12 meta analy\$.tw. (6953)
- 13 metaanaly\$.tw. (261)
- 14 meta analysis.pt. (5767)
- 15 (systematic adj (review\$1 or overview\$1)).tw. (4055)
- 16 exp Review Literature/ (1302)
- 17 or/11-16 (14652)
- 18 cochrane.ab. (3168)
- 19 embase.ab. (2121)
- 20 (psyclit or psychlit).ab. (494)
- 21 (psycinfo or psychinfo).ab. (294)
- 22 (cinahl or cinhal).ab. (796)
- 23 science citation index.ab. (342)
- 24 bids.ab. (127)
- 25 cancerlit.ab. (185)
- 26 or/18-25 (4657)
- 27 reference list\$.ab. (1418)
- 28 bibliograph\$.ab. (2416)
- 29 hand-search\$.ab. (721)
- 30 relevant journals.ab. (121)
- 31 manual search\$.ab. (365)
- 32 or/27-31 (4490)
- 33 selection criteria.ab. (4001)
- 34 data extraction.ab. (1797)
- 35 33 or 34 (5468)
- 36 review.pt. (440610)
- 37 35 and 36 (3719)
- 38 comment.pt. (135508)
- 39 letter.pt. (178715)
- 40 editorial.pt. (71410)
- 41 animal/ (929238)
- 42 human/ (2421623)
- 43 41 not (41 and 42) (632686)
- 44 or/38-40,43 (892037)
- 45 17 or 26 or 32 or 37 (20171)

- 46 45 not 44 (18539)
- 47 10 and 46 (132)
- 48 limit 47 to yr= 1998-2003 (115)

Diagnosis and Management of Peripheral Arterial Disease Subgroup 1

Remit – diagnosis, investigation and management of symptomatic and asymptomatic adults with lower limb peripheral arterial disease. Management of symptoms and prevention of disease progression and major complications

Excluding: asymptomatic individuals with no evidence of vascular disease (general population), individuals with critical limb ischaemia

Search Strategy and Results:

Searches were carried out for randomised controlled trials in November 2003 and Observational Studies in February 2004. The search strategy was combined with the main stem (see below) and the RCT/Obs filters.

Databases	Cochrane, Medline, Embase CINAHL				
Year Range	1994 - 2004				
Search Results		Refs found:	Sifted:	Reviewed:	Included:
	Syst Revs				
	RCTs	1909	354	50	
	Obs	1689	234		

Medline Generic Stem:

- 1 exp Peripheral Vascular Diseases/ (3365)
- 2 peripheral vascular disease.tw. (3882)
- 3 peripheral arterial disease.tw. (1417)
- 4 (pvd or pvod).tw. (731)
- 5 (pad or paod or poad).tw. (6625)
- 6 exp Intermittent Claudication/ (4747)
- 7 claudication.tw. (4412)
- 8 claudicant.tw. (58)
- 9 Arterial Occlusive Diseases/ (19233)
- 10 Femoral Artery/ (17438)
- 11 Popliteal Artery/ (5831)
- 12 Saphenous Vein/ (9631)
- 13 or/10-12 (27729)
- 14 occlus\$.tw. (86554)
- 15 stenosis.tw. (61236)
- 16 14 or 15 (141265)
- 17 13 and 16 (4955)
- 18 or/1-9,17 (38986)

Medline

- 19 exp Smoking Cessation/ (6681)

- 20 smoking/ (66140)
- 21 smoking.tw. (63363)
- 22 (stop\$ or cessation).tw. (70192)
- 23 (20 or 21) and 22 (8180)
- 24 or/19,23 (11045)
- 25 Cholesterol/ (72354)
- 26 exp lipids/ (585640)
- 27 cholesterol.tw. (93159)
- 28 lipid.tw. (138181)
- 29 diet, atherogenic/ (3079)
- 30 or/25-29 (648209)
- 31 Diet, Fat-Restricted/ (1228)
- 32 low fat diet.tw. (1449)
- 33 31 or 32 (2453)
- 34 Diabetes Mellitus/ (60175)
- 35 diabetes.tw. (126087)
- 36 34 or 35 (153240)
- 37 Obesity/ (47586)
- 38 Body Weight/ (113057)
- 39 weight.tw. (304740)
- 40 obese.tw. (26162)
- 41 or/37-40 (408369)
- 42 hypertension/ (123078)
- 43 hypertension.tw. (147578)
- 44 blood pressure/ (171458)
- 45 (high adj blood adj pressure).tw. (5227)
- 46 or/42-45 (321384)
- 47 Homocysteine/ (5564)
- 48 homocysteine.tw. (5967)
- 49 47 or 48 (7627)
- 50 THROMBOPHILIA/ (1589)
- 51 Thrombosis/ (34779)
- 52 thrombophilia.tw. (1393)
- 53 or/50-52 (36649)
- 54 exp Platelet Aggregation Inhibitors/ (63331)
- 55 aspirin.tw. (19700)
- 56 ticlopidine.tw. (1572)
- 57 dipyridamole.tw. (5656)
- 58 SULFINPYRAZONE/ (986)
- 59 sulfinpyrazone.tw. (431)
- 60 clopidogrel.tw. (775)
- 61 (glycoprotein and antagonist).tw. (803)
- 62 antiplatelet.tw. (5608)
- 63 or/54-62 (74266)

Diagnosis and Management of Peripheral Arterial Disease Subgroup 2

Searches were carried out for randomised controlled trials in November 2003. The search strategy was combined with the main stem (see below) and the RCT filter.

Resources	Cochrane, Medline, Embase CINAHL
Year Range	1994 - 2003
Search Results	377

Medline Generic Stem:

- 1 exp Peripheral Vascular Diseases/ (3342)
- 2 peripheral vascular disease.tw. (3860)
- 3 peripheral arterial disease.tw. (1402)
- 4 pvd.tw. (671)
- 5 pad.tw. (6196)
- 6 exp Intermittent Claudication/ (4734)
- 7 claudication.tw. (4398)
- 8 claudicant.tw. (52)
- 9 Arterial Occlusive Diseases/ (18993)
- 10 Femoral Artery/ (17316)
- 11 Popliteal Artery/ (5784)
- 12 Saphenous Vein/ (9554)
- 13 or/10-12 (27528)
- 14 occlus\$.tw. (86050)
- 15 stenosis.tw. (60083)
- 16 14 or 15 (139686)
- 17 13 and 16 (4896)
- 18 or/1-9,17 (38562)

Medline strategy:

- 19 "Referral and Consultation"/ (31999)
- 20 Gatekeeping/ (276)
- 21 (refer\$ not reference).tw. (101679)
- 22 or/19-21 (123824)
- 23 patient history.tw. (2740)
- 24 Pain Measurement/ (19920)
- 25 (pain adj assessment).tw. (1115)
- 26 (assessment adj2 pain).tw. (2417)
- 27 "pain at rest".tw. (712)
- 28 exercise test.tw. (6416)
- 29 Exercise Test/ (31518)
- 30 WALKING/ (4963)
- 31 ABPI.tw. (131)
- 32 ankle brachial index.tw. (544)
- 33 low pressure index.tw. (0)
- 34 systolic blood pressure.tw. (17759)
- 35 or/23-34 (79108)
- 36 ULTRASONOGRAPHY, DOPPLER, DUPLEX/ (2117)
- 37 doppler.tw. (46088)
- 38 duplex.tw. (15607)
- 39 ultrasound.tw. (66099)
- 40 ANGIOGRAPHY/ (36545)
- 41 ANGIOGRAPHY, DIGITAL SUBTRACTION/ (3909)
- 42 Magnetic Resonance Angiography/ (5589)
- 43 angiogr\$.tw. (83434)
- 44 Tomography, X-Ray Computed/ (144667)
- 45 comput\$ tomograph\$.tw. (79454)
- 46 ((CT or cat) adj scan).tw. (18284)
- 47 Magnetic Resonance Imaging/ (109851)
- 48 (magnetic adj resonance).tw. (81157)
- 49 mri.tw. (45060)
- 50 or/36-49 (475960)

Diagnosis and Management of Peripheral Arterial Disease Subgroup 3

Searches were carried out for randomised controlled trials in November 2003. The search strategy was combined with the main stem (see below) and the RCT filter.

Resources	Cochrane, Medline, Embase CINAHL
Year Range	1994 - 2003
Search Results	560

Medline Generic Stem:

- 1 exp Peripheral Vascular Diseases/ (3342)
- 2 peripheral vascular disease.tw. (3860)
- 3 peripheral arterial disease.tw. (1402)
- 4 (pvd or povd).tw. (671)
- 5 (pad or paod or poad).tw. (6196)
- 6 exp Intermittent Claudication/ (4734)
- 7 claudication.tw. (4398)
- 8 claudicant.tw. (52)
- 9 Arterial Occlusive Diseases/ (18993)
- 10 Graft Occlusion, Vascular/ (5154)
- 11 Saphenous Vein/ (9554)
- 12 Femoral Artery/ (17316)
- 13 Popliteal Artery/ (5784)
- 14 or/11-13 (27528)
- 15 occlus\$.tw. (86050)
- 16 stenosis.tw. (60083)
- 17 15 or 16 (139686)
- 18 14 and 17 (4896)
- 19 or/1-10,18 (42581)

Medline strategy:

- 20 exp Anticoagulants/ (110386)
- 21 exp Antilipemic Agents/ (25952)
- 22 exp Vasodilator Agents/ (242783)
- 23 exp Platelet Aggregation Inhibitors/ (63619)
- 24 exp Fibrinolytic Agents/ (109086)
- 25 exp Adrenergic beta-Antagonists/ (62350)
- 26 exp CARNITINE/ (5341)
- 27 Thrombolytic Therapy/ (10767)
- 28 Vitamin E/ (16368)
- 29 Ginkgo biloba/ (520)
- 30 pentoxifylline.tw. (2417)
- 31 acetylcarnitine.tw. (404)
- 32 naftidrofuryl.tw. (362)
- 33 aspirin.tw. (20025)
- 34 pravastatin.tw. (1517)
- 35 simvastatin.tw. (1906)
- 36 beraprost.tw. (192)
- 37 indobufen.tw. (133)
- 38 defibrotide.tw. (269)
- 39 cilostazol.tw. (269)
- 40 heparin.tw. (41857)
- 41 dipyridamole.tw. (5638)

- 42 clopidogrel.tw. (766)
- 43 nafronyl.tw. (12)
- 44 levocarnitine.tw. (26)
- 45 ginkgo.tw. (1014)
- 46 antiplatelet.tw. (5601)
- 47 (lipid adj lowering).tw. (3951)
- 48 cholesterol reduc\$.tw. (1552)
- 49 Drug Therapy/ (14820)
- 50 or/20-49 (529377)
- 51 Exercise Therapy/ (12156)
- 52 EXERCISE/ (27648)
- 53 WALKING/ (4963)
- 54 exercis\$.tw. (100646)
- 55 polestrid\$.tw. (3)
- 56 treadmill.tw. (12699)
- 57 walk\$.tw. (26332)
- 58 (leg adj exercis\$.tw. (568)
- 59 or/51-58 (140626)
- 60 exp ANGIOPLASTY/ (26560)
- 61 angioplas\$.tw. (23237)
- 62 balloon.tw. (26519)
- 63 PTA.tw. (2911)
- 64 transluminal.tw. (10417)
- 65 Vascular Surgical Procedures/ (10343)
- 66 segment.tw. (78457)
- 67 aortoiliac.tw. (1476)
- 68 infrainguinal.tw. (902)
- 69 66 and (67 or 68) (196)
- 70 SURGERY/ (20785)
- 71 surg\$.tw. (653865)
- 72 graft.tw. (80385)
- 73 bypass.tw. (55428)
- 74 AMPUTATION/ (10188)
- 75 amput\$.tw. (16796)
- 76 or/60-65,69-75 (798497)

PVD SG3 Economics search strategy

Medline Generic Stem:

- 1 exp Peripheral Vascular Diseases/ (3342)
- 2 peripheral vascular disease.tw. (3860)
- 3 peripheral arterial disease.tw. (1402)
- 4 (pvd or povd).tw. (671)
- 5 (pad or paod or poad).tw. (6196)
- 6 exp Intermittent Claudication/ (4734)
- 7 claudication.tw. (4398)
- 8 claudicant.tw. (52)
- 9 Arterial Occlusive Diseases/ (18993)
- 10 Graft Occlusion, Vascular/ (5154)
- 11 Saphenous Vein/ (9554)
- 12 Femoral Artery/ (17316)
- 13 Popliteal Artery/ (5784)
- 14 or/11-13 (27528)
- 15 occlus\$.tw. (86050)

- 16 stenosis.tw. (60083)
- 17 15 or 16 (139686)
- 18 14 and 17 (4896)
- 20 or/1-10,18 (42581)

Medline strategy:

- 20 exp Anticoagulants/ (110386)
- 21 exp Antilipemic Agents/ (25952)
- 22 exp Vasodilator Agents/ (242783)
- 23 exp Platelet Aggregation Inhibitors/ (63619)
- 24 exp Fibrinolytic Agents/ (109086)
- 25 exp Adrenergic beta-Antagonists/ (62350)
- 26 exp CARNITINE/ (5341)
- 27 Thrombolytic Therapy/ (10767)
- 28 Vitamin E/ (16368)
- 29 Ginkgo biloba/ (520)
- 30 pentoxifylline.tw. (2417)
- 31 acetylcarnitine.tw. (404)
- 32 naftidrofuryl.tw. (362)
- 33 aspirin.tw. (20025)
- 34 pravastatin.tw. (1517)
- 35 simvastatin.tw. (1906)
- 36 beraprost.tw. (192)
- 37 indobufen.tw. (133)
- 38 defibrotide.tw. (269)
- 39 cilostazol.tw. (269)
- 40 heparin.tw. (41857)
- 41 dipyridamole.tw. (5638)
- 42 clopidogrel.tw. (766)
- 43 nafrotyl.tw. (12)
- 44 levocarnitine.tw. (26)
- 45 ginkgo.tw. (1014)
- 46 antiplatelet.tw. (5601)
- 47 (lipid adj lowering).tw. (3951)
- 48 cholesterol reduc\$.tw. (1552)
- 49 Drug Therapy/ (14820)
- 50 or/20-49 (529377)
- 51 Exercise Therapy/ (12156)
- 52 EXERCISE/ (27648)
- 53 WALKING/ (4963)
- 54 exercis\$.tw. (100646)
- 55 polestrid\$.tw. (3)
- 56 treadmill.tw. (12699)
- 57 walk\$.tw. (26332)
- 58 (leg adj exercis\$.tw. (568)
- 59 or/51-58 (140626)
- 60 exp ANGIOPLASTY/ (26560)
- 61 angioplas\$.tw. (23237)
- 62 balloon.tw. (26519)
- 63 PTA.tw. (2911)
- 64 transluminal.tw. (10417)
- 65 Vascular Surgical Procedures/ (10343)
- 66 segment.tw. (78457)
- 67 aortoiliac.tw. (1476)

68 infrainguinal.tw. (902)
 69 66 and (67 or 68) (196)
 70 SURGERY/ (20785)
 71 surg\$.tw. (653865)
 72 graft.tw. (80385)
 73 bypass.tw. (55428)
 74 AMPUTATION/ (10188)
 75 amput\$.tw. (16796)
 or/60-65,69-75 (798497)

Economics filter:

1. ECONOMICS/
2. "Costs and Cost Analysis"/
3. Cost Allocation/
4. Cost-Benefit Analysis/
5. Cost Control/
6. Cost Savings/
7. Cost of Illness/
8. Cost Sharing/
9. "Deductibles and Coinsurance"/
10. Medical Savings Accounts/
11. Health Care Costs/
12. Direct Service Costs/
13. Drug Costs/
14. Employer Health Costs/
15. Hospital Costs/
16. Health Expenditures/
17. Capital Expenditures/
18. Value of Life/
19. exp Economics, Hospital/
20. exp Economics, Medical/
21. Economics, Nursing/
22. Economics, Pharmaceutical/
23. exp "Fees and Charges"/
24. exp BUDGETS/
25. (low adj cost).mp.
26. (high adj cost).mp.
27. (health?care adj cost\$).mp.
28. (fiscal or funding or financial or finance).tw.
29. (cost adj estimate\$).mp.
30. (cost adj variable).mp.
31. (unit adj cost\$).mp.
32. (economic\$ or pharmaco-economic\$ or price\$ or pricing).tw.
33. or/1-32

Diagnosis and Management of Peripheral Arterial Disease Subgroup 4

Searches were carried out for randomised controlled trials in November 2003. The search strategy was combined with the main stem (see below) and the RCT filter.

Resources	Cochrane, Medline, Embase CINAHL
Year Range	1994 - 2003
Search Results	350

Medline Generic Stem:

- 1 exp Peripheral Vascular Diseases/ (3311)
- 2 peripheral vascular disease.tw. (3831)
- 3 peripheral arterial disease.tw. (1385)
- 4 pvd.tw. (668)
- 5 pad.tw. (6156)
- 6 exp Intermittent Claudication/ (4719)
- 7 claudication.tw. (4382)
- 8 claudicant.tw. (52)
- 9 Arterial Occlusive Diseases/ (18935)
- 10 or/1-9 (35694)

Medline strategy:

- 11 ("follow up" or followup).tw. (290454)
- 12 surveillance.tw. (36435)
- 13 Aftercare/ (4652)
- 14 post-discharge care.tw. (28)
- 15 Rehabilitation/ (9195)
- 16 or/11-15 (336024)
- 17 Pain Measurement/ (19663)
- 18 Exercise Test/ (31364)
- 19 WALKING/ (4918)
- 20 walking.tw. (15451)
- 21 (pain adj2 onset).tw. (2382)
- 22 claudication distance.tw. (134)
- 23 corridor.tw. (485)
- 24 treadmill.tw. (12638)
- 25 ABPI.tw. (130)
- 26 ankle brachial index.tw. (536)
- 27 systolic blood pressure.tw. (17612)
- 28 (maximum adj2 distance).tw. (697)
- 29 ULTRASONOGRAPHY, DOPPLER, DUPLEX/ (2097)
- 30 doppler.tw. (45864)
- 31 duplex scan.tw. (527)
- 32 ANGIOGRAPHY/ (36478)
- 33 Magnetic Resonance Angiography/ (5541)
- 34 angiogr\$.tw. (83061)
- 35 TOMOGRAPHY, X-RAY COMPUTED/ (143986)
- 36 comput\$ tomograph\$.tw. (79024)
- 37 ((CT or cat) adj scan).tw. (18187)
- 38 Magnetic Resonance Imaging/ (109153)
- 39 MRI.tw. (44772)
- 40 magnetic resonance imaging.tw. (44112)
- 41 (MR adj (imag\$ or exam\$)).tw. (21505)
- 42 or/18-41 (466221)
- 43 Disease Progression/ (26326)
- 44 RECURRENCE/ (96699)
- 45 43 or 44 (122174)