

**Registered Nurses' Association of Ontario – Nursing Best Practice
Guidelines Program
Assessment and Management of Foot Ulcers for People with
Diabetes-Second Edition- March 2013**

Guideline Search Strategy

1. Structured Website Search

A member of the RNAO guideline development team (project coordinator) searched an established list of websites for guidelines.

Guidelines were selected based on the following criteria:

- Focus on topic of diabetic foot ulcer care which includes:
 - Assessment
 - Prevention & Management
 - Education/Training programs
 - Organizational Responsibilities
 - Supportive Infrastructures
- Published between January 2004 to December 2012
- Published in English
- Accessible for retrieval

Websites Searched:

Abstracts for Cochrane Reviews
AHRQ: Agency for Healthcare Research and Quality
AHFMR Health Technology Assessment Publications
Alberta Medical Association Clinical Practice Guidelines
American College of Chest Physicians
American College of foot and ankle surgeons
American Medical Association
Bandolier Journal
BC Office of Health Technology Assessment
British Columbia Council on Clinical Practice Guidelines
British Medical Journal
Canadian Coordinating Office for Health Technology Assessment (CCOHTA)
Canadian Institute for Health Information
Canadian Task Force on Preventive Healthcare
Centers for Disease Control and Prevention
Centre for Evidence-Based Mental Health
Centre for Evidence-Based Pharmacotherapy
Centre for Health Evidence

Centre for Health Services and Policy Research
Clinical Evidence
CMA Infobase: Clinical Practice Guidelines
CREST
EBOC: Evidence-based On-Call:
Guideline Advisory Committee
Guidelines International Network
Health Evidence
Institute of Child Health
Institute for Clinical Systems Improvement
Joanna Briggs Institute for Evidence-Based Nursing & Midwifery (Australia)
Medic8.com
Medscape Women's Health
Ministry of Malaysia
Monash University Centre for Clinical Effectiveness
National Guideline Clearinghouse
National Institute for Clinical Evidence (NICE)
New Zealand Guidelines Group
NHS Centre for Reviews and Dissemination
NHS R & D Health Technology Assessment Programme
NIH Consensus Development Program
NLM Health Services/Technology Assessment
PEDro: The Physiotherapy Evidence Database
Queen's University
Royal College of General Practitioners
Royal College of Nursing
Royal College of Physicians
Royal Melbourne Hospital
Sarah Cole Hirsh Institute
Scottish Intercollegiate Guidelines Network (SIGN)
Society of Obstetricians and Gynecologists of Canada
SUMSearch
The Canadian Cochrane Network and Centre
The Qualitative Report
TRIP Database
University of California, San Francisco
University of York- Center for Evidence based Nursing
U.S. Preventive Service Task Force (USPSTF)
Virginia Henderson International Nursing Library

2. Hand Search:

RNAO expert panel members were asked to review personal libraries to identify and submit potentially relevant guidelines. Guidelines submitted for consideration by RNAO expert panel members were integrated into the retrieved list of guidelines if they had not been identified by the on-line guideline search and met the inclusion criteria.

Systematic Review Search Strategy

Concurrent with the review of existing guidelines, a systematic review for recent literature relevant to the scope of the guideline was conducted by a health sciences librarian.

Databases Searched: Cumulative Index to Nursing and Allied Health (CINAHL), Cochrane Controlled Trials (CT), Cochrane Systematic Reviews (SR), Database of Abstracts of Reviews of Effectiveness (DARE), Embase and Medline.

Inclusion Criteria:

- Focus on the topic of diabetic foot ulcer care which includes:
 - Assessment
 - Prevention & Management
 - Education/Training Programs
 - Organizational Responsibilities
 - Supportive Infrastructures
- Published between January 2004 to June 2012
- Age range:
 - >15 years old
- Published in English
- Accessible for Retrieval
- Any health setting or sector
- Interdisciplinary relevance
- Systematic reviews, RCTs, meta-analysis, higher quality qualitative and quantitative research studies.

Exclusion Criteria:

- Dissertations, research protocols, commentaries / letters to the editor, narrative/descriptive papers, lab/pre-clinical studies, incidence/prevalence papers
- Unpublished (grey literature)

Search Terms

Below are condensed search strategies used for each research question in MEDLINE. Comparable terms were used in all other databases searched.

Question 1: What are the most effective methods for the assessment of foot ulcer in clients with diabetes?

Population	Intervention	Limits
Diabetic Foot, Foot Ulcer, diabet* adj3 ulcer*, diabet* adj3 wound*, diabet* adj3 (foot or feet), DFU	Outcome and Process Assessment (Health Care), Needs Assessment, Risk Assessment, Self-Assessment, Nursing Assessment, Geriatric Assessment, Mass Screening, Severity of Illness Index, Risk Factors, Disability Evaluation, Patient Education, Caregivers, assess*, measur*, screen*, evaluat*, symptom*	Humans, English Language and yr="2004 – June 2012"

Question 2: What are the most effective interventions to manage foot ulcers and prevent re-ulceration in clients with diabetes?

Population	Intervention	Limits
Diabetic Foot, Foot Ulcer, diabet* adj3 ulcer*, diabet* adj3 wound*, diabet* adj3 (foot or feet), DFU	Disease Management, Primary Prevention, Secondary Prevention, Tertiary Prevention, Rehabilitation, Early Medical Intervention, Hyperbaric Oxygenation, Bandages, Debridement, Negative-Pressure Wound Therapy, Vascular Surgical Procedures, Limb Salvage, Patient Education, Caregivers, Costs and Cost Analysis, Infection Control, Equipment and Supplies, Wound Healing, pressur* adj2 (off-load* or offload*, pressur* adj2 re-distribut*, (skin adj2 equivalent*, adjunct* adj2 therap*, patient? adj2 empower*, manag*, prevent*, cost*	Humans, English Language and yr="January 2004 -June 2012"

Question 3: What health-care professional education and training is required to ensure the provision of effective diabetic foot ulcer care?

Population	Intervention	Limits
Diabetic Foot, Foot Ulcer, diabet* adj3 ulcer*, diabet* adj3 wound*, diabet* adj3 (foot or feet), DFU	Professional Education, Continuing Education, Distance Education, Curriculum, Teaching, Education Department, Hospital, Inservice Training, Preceptorship, workshop?, train*, profession* adj2 develop*, educat*	English Language and yr=" January 2004 -June 2012"

Question 4: How do health-care organizations support and promote optimal assessment and management of foot ulcers in clients with diabetes?

population	Intervention	Limits
Diabetic Foot, Foot Ulcer, diabet* adj3 ulcer*, diabet* adj3 wound*, diabet* adj3 (foot or feet), DFU	Policy, Organizational Policy, Health Policy, Policy Making, Health Planning, Decision Making, Organizational, Decision Support Systems, Clinical, Decision Support Techniques, Financial Support, Costs and Cost Analysis, Health Services Accessibility, Patient Care Team, organization* adj2 support*	English Language and yr=" January 2004 -June 2012"

Hand Search

RNAO expert panel members were asked to review personal libraries to identify key articles not found through the above search strategies. Articles identified by RNAO expert panel members were included in the search results if two nursing research associates independently determined the articles had not been identified by the literature search and met the inclusion criteria.