Complete Summary

GUIDELINE TITLE

Chronic wounds of the lower extremity.

BIBLIOGRAPHIC SOURCE(S)

American Society of Plastic Surgeons. Evidence-based clinical practice guideline: chronic wounds of the lower extremity. Arlington Heights (IL): American Society of Plastic Surgeons; 2007 May. 21 p. [132 references]

GUIDELINE STATUS

This is the current release of the guideline.

COMPLETE SUMMARY CONTENT

SCOPE

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SCOPE

DISEASE/CONDITION(S)

Chronic wounds of the lower extremity, including vascular (e.g., arterial, venous, or mixed ulcers), pressure ulcers, and neuropathic (e.g., diabetic ulcers)

GUIDELINE CATEGORY

Evaluation Management Treatment

DISCLAIMER

CLINICAL SPECIALTY

Dermatology Family Practice Plastic Surgery Surgery

INTENDED USERS

Advanced Practice Nurses Health Care Providers Physician Assistants Physicians

GUIDELINE OBJECTIVE(S)

To conduct a systematic review of existing scientific literature addressing the assessment and treatment of chronic wounds of the lower extremity and to develop recommendations that fairly reflect current accepted medical standards

TARGET POPULATION

Patients with chronic wounds of the lower extremity

INTERVENTIONS AND PRACTICES CONSIDERED

Assessment

- 1. Medical history and physical exam
- 2. Assessment for venous insufficiency, using physical findings, Doppler ultrasonography, Duplex scanner plethysmography and venography
- 3. Assessment for arterial occlusive disease (history and ankle brachial index [ABI])
- 4. Assess for comorbidities of diabetes
- 5. Assess history and characteristics of wound, including evaluation for infection
- 6. Assess for confounding factors, allergies, osteomyelitis, remote or systemic infection, and comorbid risk factors
- 7. Assess pain, functional status, and quality of life
- 8. Regular follow-up

Treatment/Management

- 1. Debridement
- 2. Pressure relief
- 3. Infection control
- 4. Management of exudate
- 5. Management of complications, including osteomyelitis and infection
- 6. Measures to prevent recurrence, including patient education, therapeutic modalities, and exercise programs

MAJOR OUTCOMES CONSIDERED

Not stated

METHODOLOGY

METHODS USED TO COLLECT/SELECT EVIDENCE

Hand-searches of Published Literature (Primary Sources) Hand-searches of Published Literature (Secondary Sources) Searches of Electronic Databases

DESCRIPTION OF METHODS USED TO COLLECT/SELECT THE EVIDENCE

Literature Search and Admission of Evidence

This study was carried out using a prospective systematic method for identifying and evaluating current literature on the treatment of chronic wounds of the lower extremities. To identify relevant literature, a comprehensive search of the following databases was performed: OVID, Medline, CINAHL, Embase, the Cochrane Wounds Group database within the Cochrane Collaboration Library, the Agency for Healthcare Research and Quality (AHRQ) Clinical Practice Guidelines, and the National Guideline Clearinghouse.™ Additionally, the World Wide Web was searched using meta-search engines for national and international guidelines. The search term combination captured the concept "practice-guidelines AND wound" using a wide range of indexing terms, free text words and word variants. Search limits restricted results to English-language manuscripts.

Articles were selected if they met the following criteria: guideline, systematic review, consensus statement, care protocol, or healthcare technology assessment produced by national or international professional organizations and societies or governmental agencies; subject: comprehensive management of wounds of the lower extremity. From this list, key articles were identified and corresponding bibliographies hand searched for citations and manuscripts relevant to clinical questions about patient assessment, treatment, follow-up and prevention of wound recurrence.

Excluded from the search were articles that specifically addressed assessment and treatment of patients with burn wounds of the lower extremity, patients whose wounds were surgically closed, and patients with uncomplicated wounds that heal by primary intention (matrix deposition, contraction, and epithelialization).

NUMBER OF SOURCE DOCUMENTS

Not stated

METHODS USED TO ASSESS THE QUALITY AND STRENGTH OF THE EVIDENCE

Weighting According to a Rating Scheme (Scheme Given)

RATING SCHEME FOR THE STRENGTH OF THE EVIDENCE

Evidence Rating Scale for Diagnostic Studies

Level of Evidence	Qualifying Studies
I	High-quality, multi-centered or single-centered, cohort study validating a diagnostic test (with "gold" standard as reference) in a series of consecutive patients; or a systematic review of these studies
II	Exploratory cohort study developing diagnostic criteria (with "gold" standard as reference) in a series of consecutive patients; or a systematic review of these studies
III	Diagnostic study in nonconsecutive patients (without consistently applied "gold" standard as reference); or a systematic review of these studies
IV	Case-control study; or any of the above diagnostic studies in the absence of a universally accepted "gold" standard
V	Expert opinion; case report or clinical example; or evidence based on physiology, bench research, or "first principles"

Evidence Rating Scale for Prognostic Studies

Level of Evidence	Qualifying Studies
I	High-quality, multi-centered or single-centered, prospective cohort study with adequate power; or a systematic review of these studies
II	Lesser-quality prospective cohort study; retrospective study; untreated controls from a randomized controlled trial; or a systematic review of these studies
III	Case-control study; or a systematic review of these studies
IV	Case series
V	Expert opinion; case report or clinical example; or evidence based on physiology, bench research, or "first principles"

Evidence Rating Scale for Therapeutic Studies

Level of Evidence	Qualifying Studies
I	High-quality, multi-centered or single-centered, randomized controlled trial with adequate power; or a systematic review of these studies
II	Lesser-quality, randomized controlled trial; prospective cohort study; or a systematic review of these studies
III	Retrospective comparative study; case-control study; or a systematic review of these studies
IV	Case series
V	Expert opinion; case report or clinical example; or evidence based on physiology, bench research, or "first principles"

METHODS USED TO ANALYZE THE EVIDENCE

Systematic Review

DESCRIPTION OF THE METHODS USED TO ANALYZE THE EVIDENCE

Critical Appraisal of the Literature

Relevant articles were categorized by study type: randomized controlled trial, systematic review, cohort study, and case-control study. Each article was critically appraised for study quality according to criteria referenced in key publications on evidence-based medicine. Depending on type (prognostic, diagnostic, or therapeutic) and quality of study, each article was assigned a corresponding level of evidence according to the American Society of Plastic Surgeons (ASPS) Evidence Rating Scales (see "Rating Scheme for the Strength of the Evidence" above), which were modified from scales developed by other surgical specialties and authorities on evidence-based medicine.

METHODS USED TO FORMULATE THE RECOMMENDATIONS

Expert Consensus

DESCRIPTION OF METHODS USED TO FORMULATE THE RECOMMENDATIONS

Development of Clinical Practice Recommendations

Practice recommendations were developed through critical appraisal of the literature and consensus of the American Society of Plastic Surgeons (ASPS) Health Policy Committee. Recommendations are based on the strength of supporting evidence and were graded according to the ASPS Grades of Recommendation Scale (see "Rating Scheme for the Strength of the Recommendations" below), which was modified from scales used by other surgical specialties and authorities in the practice of evidence-based medicine.

RATING SCHEME FOR THE STRENGTH OF THE RECOMMENDATIONS

Grade	Descriptor	Qualifying Evidence	Implications for Practice
Α	Strong Recommendation	consistent findings from multiple	Clinicians should follow a strong recommendation unless a clear and compelling rationale for an alternative approach is present.
В	Recommendation	Levels II, III, or IV evidence and findings are generally consistent	Generally, clinicians should follow a recommendation but should remain alert to new information and sensitive to patient preference.
С	Option	Levels II, III, or IV evidence, but findings are inconsistent	Clinicians should be flexible in their decision-making regarding appropriate practice, although they may set bounds on alternatives; patient preference should have a substantial influencing role.
D	Option	systematic	Clinicians should consider all options in their decision-making and be alert to new published evidence that clarifies

Grade	Descriptor	Qualifying Evidence	Implications for Practice
			the balance of benefit versus harm; patient preference should have a substantial influencing role.

COST ANALYSIS

A formal cost analysis was not performed and published cost analyses were not reviewed.

METHOD OF GUIDELINE VALIDATION

Peer Review

DESCRIPTION OF METHOD OF GUIDELINE VALIDATION

Approved by the Executive Committee of the American Society of Plastic Surgeons, May 2007

RECOMMENDATIONS

MAJOR RECOMMENDATIONS

Definitions for the levels of evidence for diagnostic, prognostic, and therapeutic studies (I-V) and the strength of the recommendations (A-D) are provided at the end of the "Major Recommendations" field.

Recommendations for Patient Assessment	Supporting Evidence	
General	Expert Opinion	D
Medical History:		
 Assess comorbidities, medications, allergies, and family history 		
Physical exam:		
 Assess cardiovascular status (pulse, blood pressure) Perform focused examination of the legs 		
Venous I	nsufficiency	
Historical findings suggestive of venous insufficiency include:	(Baker et al., 1991; Berard et al., 2002; Blomgren et al., 2001; Labropoulos et al., "Patterns," 2007;	В

Recommendations for Patient Assessment	Supporting Evidence	Grade
 Prior history of thrombophlebitis, venous thromboembolism, and/or deep vein thrombosis History of symptomatic varicosities during pregnancy Surgical history of lower extremity trauma, vascular injury or previous varicose vein surgery Hypercoagulable states (e.g., cancer, infection, Factor VIII excess) 	Fink et al., 2002; Dajani et al., 1988)	
Physical findings suggestive of venous insufficiency include: • Edema • Wound presentation as shallow ulcer in the lower third of leg • Venous dermatitis • Lipodermatosclerosis • Varicose veins	(Blomgren et al., 2001; Labropoulos et al., "Patterns," 2007; Wong, Duncan, & Nichols, 2003)	В
Diagnostic Tests:Doppler ultrasonographyDuplex scanner plethysmography and venography	(Shami et al., 1993; Alguire & Mathes,1997; Wong, Duncan, & Nichols, 2003; Baxter & Polak, 1993)	В
Determine severity of venous insufficiency	Expert Opinion	D
	lusive Disease	
Assess for a history of arterial occlusive disease: • Arterial peripheral vascular disease • Ischemic complaints • Rest pain	(Wipke-Tevis et al., 2000; Dormandy & Murray, 1991; Jelnes et al., 1986; Criqui et al., 1985; Marston et al., 2006; Hiatt, Hoag, & Hamman, 1995; Khan et al., 2006; Wang et al., 2005; Henke et al., 2005)	В
Assess for factors suggestive of arterial compromise:	(Khan et al., 2006)	В
 Cold, pale feet (in warm environment) Shiny, taut skin Dependent rubor 		

Recommendations for Patient Assessment	Supporting Evidence	Grade
Punched out appearance of ulcer		
 Ankle brachial index (ABI) If <0.8, referral to specialist may be necessary to assess for arterial occlusive disease 	(Baxter & Polak, 1993; Dormandy & Murray, 1991; Jelnes et al., 1986; Stoffers et al., 1997; Marston et al., 2006; Hiatt, Hoag, & Hamman, 1995; Khan et al., 2006; de Vries et al., 2006; Ouwendijk et al., 2005)	В
Determine severity of arterial occlusive disease: ABI 0.6 to 0.8, suggestive of peripheral arterial occlusive disease ABI <0.5, suggestive of critical ischemia ABI >1.2, suggestive of calcification and noncompressibility of arterial wall Consider vascular intervention or reconstruction Contrast arteriography (or magnetic resonance angiography) Refer to vascular specialist, if needed Diabetes	(Marston et al., 2006; O'Meara et al., 2000) (Marston et al., 2006; Hiatt et al.,	В
 Assess for comorbidities (microangiopathy, neuropathy, impaired immune response) Assess for sensory derangement (e.g., Semmes-Weinstein) 	1995; Pham et al., 2000; Abbott et al., 1998; Yasuhara et al., 2002)	В
History and Charact	teristics of the Wound	
 Date and site(s) current ulceration began Date and site(s) of previous ulcers Prior duration to heal Length of prior disease-free interval(s) Prior treatments Past surgical history of venous operation 	Expert Opinion	D

Reco	ommendations for Patient Assessment	Supporting Evidence	Grade
• Us	se of compression garments		
• Si	nt characteristics of the wound: ze ature of wound base tissue mount of drainage	(Marston et al., 2006; O'Meara et al., 2000)	В
• Ne • Pu • Oo • In	wound for evidence of infection ecrotic tissue urulent drainage dor iduration ellulitis	(Cutting, 1998; Gardner et al., 2001)	В
rule out culceration Rt Si Py Tu	cal and/or recalcitrant wounds, other, less common causes of n (biopsy may be necessary) neumatoid arthritis ckle cell disease yogenic gangrenosum umors (squamous cell and basalell carcinomas)	(Labropoulos et al., "Uncommon leg ulcers," 2007)	В
	Additional C	onsiderations:	
In dis Tis Mo ne In In In In No	pr confounding factors: mpaired tissue perfusion (heart sease, obesity) ssue hypoxia etabolic disturbances (diabetes, ephropathy) mpaired healing mmunosuppression obacco use afection (systemic and local) utrition and overall state of ealth	(Wipke-Tevis et al., 2000; Jelnes et al., 1986; Khan et al., 2006; O'Meara et al., 2000)	В
Assess ar	nd document allergies	(Saap et al., 2004; Lim et al., 2007; Tavadia et al., 2003; Machet et al., 2004)	В
• Bo	or the presence of osteomyelitis: one exposed (or easily probed) ssue necrosis overlying bone	(Shih, Shih, & Wong, 2005; Senneville et al., 2006)	В

Recommendations for Patient Assessment	Supporting Evidence	Grade
 Gangrene Persistent sinus tract Underlying open fracture Underlying internal fixation Wound recurrence 		
Osteomyelitis evaluation:		
 Radiographic studies (plain radiographs, nuclear bone scan and/or magnetic resonance imaging) If radiographic findings suggestive osteomyelitis, consider histologic evaluation and bone biopsy culture 		
Determine the presence of remote site or systemic infection (septicemia, endocarditis, prosthesis infection):	(El-Ahdab et al., 2005)	В
Anatomic risk factors include:		
 Prosthetic heart valve Acquired cardiac valvular dysfunction Cardiac malformation Hypertrophic cardiomyopathy Orthopedic prosthesis Central nervous system (CNS) shunts Nearby arteriovenous fistula 		
Comorbid risk factors:	(El-Ahdab et al., 2005)	В
 History of bacterial endocarditis Immune compromised or suppressed host Colonization, multi-drug resistant organisms 		
Pain, Functional Status, and Quality of Life	Expert Opinion	D
 Assess pain level (Visual Analog Scale) Validated questionnaires can assess functional status and 		

Recommendations for Patient Assessment	Supporting Evidence	Grade
quality of life		

Recommendations for Treatment	Supporting Evidence	Grade
 Excise all necrotic, infected, and poorly vascularized soft tissue May be necessary to perform serially Contraindicated in cases of gangrene or stable, dry, ischemic wound (evaluation of vascular status needed) Sharp debridement not recommended if vasculitis or pyoderma gangrenosum is suspected Following debridement, consider irrigation with saline If tissue is suspect for malignancy, perform biopsy and submit for histopathologic analysis 	(Thow & Smith, 2003; Smith, 2002; Granick et al., 2007)	В
 Implement established repositioning schedule Head of the bed should be maintained at lowest possible level consistent with medical condition Use pressure-reducing devices 	(Duby et al., 1993; Cullum et al., 2001; Cullum et al., 2004)	В
 Determine presence of invasive pathogens (culture and susceptibility testing of deep tissue sample; clinical presentation of induration, erythema, warmth, suppuration, and pain or tenderness) If infection is confirmed or highly suspect, prescribe appropriate antimicrobial intervention (oral cephalosporins, amoxicillinclavulanic acid, macrolides, antistaphylococcal penicillins, and fluoroquinolones can be used; however, no evidence supports superiority of one over the others) When determining the need for antibiotic treatment, consider risk of antibiotic 		В

Recommendations for Treatment	Supporting Evidence	Grade
 resistance For mild to moderate infections, consider surgical debridement and narrow-spectrum antibacterials Wound infections that are severe and/or complicated by critical limb ischemia often necessitate hospitalization, parenteral broadspectrum antibiosis, and surgical intervention 		
 Maintain moist environment Remove soluble factors detrimental to wound healing 	(Embil et al., 2000; Vermeulen et al., 2005; O'Meara et al., 2000; Vermeulen et al., 2007; Bergin & Wraight, 2006; Jones & Nelson, 2007)	В

Recommendations for Management of Complications	Supporting Evidence	Grade
 Consider aggressive resection of infected bone Implement culture-directed antibiotic therapy Use well-perfused tissue (typically muscle) for coverage 	(Henke et al., 2005; Bach et al., 2007; Eren, Ghofrani, & Reifenrath, 2001; Embil et al., 2006; Freeman et al., 2007)	В
 Routine use of systemic antimicrobials not recommended for prevention of osteomyelitis, bacterial endocarditis, or prosthesis infection Endocarditis prophylaxis is indicated for high risk patients undergoing dermatologic procedures on visibly inflamed or infected wounds 	(Henke et al., 2005)	В

	Recommendations for Follow-up	Supporting Evidence	Grade
Patie	nt with Chronic Wounds:	Expert Opinion	D
•	Perform follow-up every month during wound healing Assess for systemic infection Assess pain, discuss pain reduction methods, and adjust pain medication accordingly		
Patie	nts with Venous Insufficiency:	(Baker et al., 1991; Berard et al., 2002;	В
•	During wound healing, weekly follow-up may be necessary After wound healing, follow-up can be performed every 3 to 6 months, depending on patient, comorbidities, and patient's ability for self care Patients with worsening symptoms may require more aggressive follow-up regimen Perform physical exam of lower extremities (note changes in condition, skin color, temperature, tone, and hair, and presence of swelling; note new areas of skin breakdown or maceration) Order additional diagnostic studies (venous duplex, venography) as indicated		
Patie	nts with Peripheral Arterial Disease:	(Stoffers et al., 1997; Stein et al., 2006)	В
•	Assess activity level, pain, changes in skin temperature and color; inspect skin, pulses and capillary refill of the toes Obtain ABI, which may indicate angiography If necessary, refer to vascular surgeon or interventional radiologist		
Patie	nts with Diabetes:	(Dormandy & Murray, 1991; Jelnes et al.,	В
•	Physical exam should include assessment of comorbidities (presence of bone infections, peripheral vascular disease, neuropathy, and multiple recurrences) Evaluate patient's blood sugars, diet, and exercise Assess skin for pressure points, ischemic changes, and skin maceration Check prosthetics or shoes for abnormal wear	1986; Pham et al., 2000; Dolan et al., 2002)	
•	Assess for peripheral vascular disease (ABI		

Recommendations for Follow-up	Supporting Evidence	Grade
 <0.08) Assess for osteomyelitis Order laboratory studies (glycated hemoglobin [HbA1c], fasting glucose, lipid profile) If patients have increase risk for or have diabetic neuropathy, assess for friction or pressure injuries Patients with diabetic neuropathy should be seen every 3 months for assessment of skin trauma and early breakdown Assess for chronic pain and consider referral to pain specialist 		
 Perform follow-up every month during wound healing Perform follow-up every 3-6 months to evaluate for recurrence of osteomyelitis Evaluate lower extremities to determine need for further tests Consider laboratory studies (erythrocyte sedimentation rate [ESR], C-reactive protein [CRP]) Consider x-rays, magnetic resonance imaging (MRI), or bone scans, depending on symptoms 	Expert Opinion	D

Recommendations for Prevention of Recurrence	Supporting Evidence	Grade
 Long-term nature of condition Signs/symptoms of recurrence Skin care (soaps, moisturizers, protective measures) 	Expert Opinion	D
 For patients with venous hypertension or risk for venous insufficiency, consider Graduated Compression Stockings For patients with wounds in pressure point areas, consider 	(Duby et al., 1993; Cullum et al., 2001; Cullum et al., 2004; Cullum et al., "Compression for venous leg ulcers," 2000; Nelson, Bell-Syer, & Cullum, 2000; Cullum et al., "Compression bandages," 2000; Ibegbuna et al., 2003; Zajkowski et al., 2002)	В

Recommendations for Prevention of Recurrence	Supporting Evidence	Grade
 off-loading devices, pressure dispersing surfaces For patients with wounds secondary to abnormal sensitivity or mobility, consider repositioning and support surfaces 		
Exercise Programs Improve:	Expert Opinion	D
Patient mobilityJoint movement		

Definitions:

Scale for Grading Recommendations

Grade	Descriptor	Qualifying Evidence	Implications for Practice
A	Strong Recommendation	consistent findings from multiple	Clinicians should follow a strong recommendation unless a clear and compelling rationale for an alternative approach is present.
В	Recommendation	Levels II, III, or IV evidence and findings are generally consistent	Generally, clinicians should follow a recommendation but should remain alert to new information and sensitive to patient preference.
С	Option	Levels II, III, or IV evidence, but findings are inconsistent	Clinicians should be flexible in their decision-making regarding appropriate practice, although they may set bounds on alternatives; patient preference should have a substantial influencing role.
D	Option	Level V; little or no systematic empirical evidence	Clinicians should consider all options in their decision-making and be alert to new published evidence that clarifies the balance of benefit versus harm; patient preference should have a substantial influencing role.

Evidence Rating Scale for Diagnostic Studies

Level of Evidence	Qualifying Studies
	High-quality, multi-centered or single-centered, cohort study validating a diagnostic test (with "gold" standard as reference) in a series of

Level of Evidence	Qualifying Studies
	consecutive patients; or a systematic review of these studies
II	Exploratory cohort study developing diagnostic criteria (with "gold" standard as reference) in a series of consecutive patients; or a systematic review of these studies
III	Diagnostic study in nonconsecutive patients (without consistently applied "gold" standard as reference); or a systematic review of these studies
IV	Case-control study; or any of the above diagnostic studies in the absence of a universally accepted "gold" standard
V	Expert opinion; case report or clinical example; or evidence based on physiology, bench research, or "first principles"

Evidence Rating Scale for Prognostic Studies

Level of Evidence	Qualifying Studies
I	High-quality, multi-centered or single-centered, prospective cohort study with adequate power; or a systematic review of these studies
II	Lesser-quality prospective cohort study; retrospective study; untreated controls from a randomized controlled trial; or a systematic review of these studies
III	Case-control study; or a systematic review of these studies
IV	Case series
V	Expert opinion; case report or clinical example; or evidence based on physiology, bench research, or "first principles"

Evidence Rating Scale for Therapeutic Studies

Level of Evidence	Qualifying Studies
I	High-quality, multi-centered or single-centered, randomized controlled trial with adequate power; or a systematic review of these studies
II	Lesser-quality, randomized controlled trial; prospective cohort study; or a systematic review of these studies
III	Retrospective comparative study; case-control study; or a systematic review of these studies
IV	Case series
V	Expert opinion; case report or clinical example; or evidence based on physiology, bench research, or "first principles"

CLINICAL ALGORITHM(S)

None provided

EVIDENCE SUPPORTING THE RECOMMENDATIONS

References open in a new window

TYPE OF EVIDENCE SUPPORTING THE RECOMMENDATIONS

The type of supporting evidence is identified and graded for each recommendation.

BENEFITS/HARMS OF IMPLEMENTING THE GUIDELINE RECOMMENDATIONS

POTENTIAL BENEFITS

Appropriate treatment and management of chronic wounds of the lower extremity

POTENTIAL HARMS

- Overuse of antibiotics for uncomplicated soft tissue infections risks tangible harm by promoting antimicrobial resistance.
- There is a risk of contact dermatitis following the use of topical antibiotics.

CONTRAINDICATIONS

CONTRAINDICATIONS

Debridement is contraindicated in the presence of dry gangrene or a stable, dry ischemic wound until vascular status is evaluated. If vasculitis or pyoderma gangrenosum is suspected, sharp debridement is not recommended.

QUALIFYING STATEMENTS

QUALIFYING STATEMENTS

- Clinical practice guidelines are strategies for patient management and are
 developed to assist physicians in clinical decision making. This guideline,
 based on a thorough evaluation of the scientific literature and relevant clinical
 experience, describes a range of generally acceptable approaches to
 diagnosis, management, or prevention of specific diseases or conditions. This
 guideline attempts to define principles of practice that should generally meet
 the needs of most patients in most circumstances.
- However, this guideline should not be construed as a rule, nor should it be
 deemed inclusive of all proper methods of care or exclusive of other methods
 of care reasonably directed at obtaining the appropriate results. It is
 anticipated that it will be necessary to approach some patients' needs in
 different ways. The ultimate judgment regarding the care of a particular
 patient must be made by the physician in light of all circumstances presented
 by the patient, the available diagnostic and treatment options, and other
 available resources.
- This guideline is not intended to define or serve as the standard of medical care. Standards of medical care are determined on the basis of all facts or circumstances involved in an individual case and are subject to change as scientific knowledge and technology advance, and as practice patterns evolve.

This guideline reflects the state of knowledge current at the time of publication. Given the inevitable changes in the state of scientific information and technology, periodic review, updating and revision will be done.

IMPLEMENTATION OF THE GUIDELINE

DESCRIPTION OF IMPLEMENTATION STRATEGY

An implementation strategy was not provided.

INSTITUTE OF MEDICINE (IOM) NATIONAL HEALTHCARE QUALITY REPORT CATEGORIES

IOM CARE NEED

Getting Better Living with Illness

IOM DOMAIN

Effectiveness Patient-centeredness

IDENTIFYING INFORMATION AND AVAILABILITY

BIBLIOGRAPHIC SOURCE(S)

American Society of Plastic Surgeons. Evidence-based clinical practice guideline: chronic wounds of the lower extremity. Arlington Heights (IL): American Society of Plastic Surgeons; 2007 May. 21 p. [132 references]

ADAPTATION

Not applicable: The guideline was not adapted from another source.

DATE RELEASED

2007 May

GUIDELINE DEVELOPER(S)

American Society of Plastic Surgeons - Medical Specialty Society

SOURCE(S) OF FUNDING

American Society of Plastic Surgeons

GUIDELINE COMMITTEE

Health Policy Committee of the American Society of Plastic Surgeons

COMPOSITION OF GROUP THAT AUTHORED THE GUIDELINE

Not stated

FINANCIAL DISCLOSURES/CONFLICTS OF INTEREST

Not stated

GUIDELINE STATUS

This is the current release of the guideline.

GUIDELINE AVAILABILITY

Electronic copies: Available in Portable Document Format (PDF) from the American Society of Plastic Surgeons Web site.

Print copies: Available from the American Society of Plastic Surgeons, 444 East Algonquin Road, Arlington Heights, IL 6005-4664

AVAILABILITY OF COMPANION DOCUMENTS

The following is available:

 Description and development of evidence-based practice guidelines. American Society for Plastic Surgeons. Electronic copies: Available from the <u>American</u> Society of Plastic Surgeons Web site.

Print copies: Available from the American Society of Plastic Surgeons, 444 East Algonquin Road, Arlington Heights, IL 6005-4664

PATIENT RESOURCES

None available

NGC STATUS

This NGC summary was completed by ECRI Institute on October 15, 2007. The information was verified by the guideline developer on October 23, 2007.

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