LOWER LIMB AND COMPRESSION THERAPY PATHWAY

Version 3 September 2023

Any concerns at all, please contact your local **Sirona** wound care service **Email** - sirona.wcs@nhs.net

FIRST STEP TOWARDS HEALING

Immediate care for patient with a wound on the lower limb

On first identifying a patient with **a lower limb wound** follow this immediate care pathway until a lower limb assessment has been completed. This is a **temporary pathway** to support wound healing, and should only be used for up **to 28 days**.





ALWAYS ASSESS BOTH LEGS For non-ulcerated legs follow PATHWAY D, if venous disease present

COMPRESSION THERAPY SELECTION GUIDE

Photograph wound on assessment and then every 4 weeks.

Commence UrgoKTwo bandaging for 2 weeks -Assess suitability for supported self-care alternative using the guide below



DRESSING SELECTION PATHWAY



PATHWAY A: FOR WOUNDS WITH SUSPECTED INFECTION



Minimum requirement is to take wound dimensions and photograph every 4 weeks

PATHWAY B: FOR SIMPLE WOUNDS



Minimum requirement is to take wound dimensions and photograph every 4 weeks

PATHWAY C: FOR COMPLEX WOUNDS WITH CO-MORBIDITY



Reassess and complete holistic review of patient. Consider other potential factors which may delay healing and review by WCS

Minimum requirement is to take wound dimensions and photograph every 4 weeks

PATHWAY D: FOR A HEALED LEG ULCER



DIFFERENTIAL DIAGNOSES FOR DIFFERENT LEG ULCER TYPES

Leg ulcer	Typical location	Important factors in patient assessment	Important factors in leg assessment	Important factors in wound assessment	Further investigations	Treatment
Venous	Lower gaiter/ malleolus	 Deep vein thrombosis (DVT) Varicose veins Previous surgery or trauma Obesity 	 Previous ulceration Skin staining Inverted 'champagne bottle' shaped leg Lipodermatosclerosis Eczema Oedema Suboptimal ankle movement 	Tissue may be granulating or sloughy, usually with shallow, sloping edges	Referral to vascular team Duplex scan of venous system	Compression Radiofrequency ablation of superficial varicose veins
Arterial	Foot or ankle / lower shin	 History of cardiac disease, intermittent claudication, diabetes, rest pain, smoking, hypertension 	 Reduced ankle brachial pressure (ABPI) Pale, poorly perfused limb Limb may be hairless 	Sloughy and necrotic or pale wound base Minimal exudate from ulcer Punched-out appearance with deep wound edges	Urgent referral to vascular team Duplex scan of arterial system CT angiogram	 Angioplasty with stenting Bypass surgery Antiplatelet therapy Statin therapy
Pyoderma gangrenosum	Anywhere on body	 Inflammatory bowel disease Rheumatoid arthritis 	 Significant pain Spreads rapidly 	May have purple halo around ulcer Necrotic tissue may be evident	Often a diagnosis by elimination	 Referral to dermatology Steroid therapy, topical and/or systemic
Small vessel vasculitis	Lower legs	Recent infection Antineutrophil cytoplasmic antibody (ANCA)-associated vasculitis (a group of conditions associated with the destruction of small blood vessels	Painful, non-blanching palpable purpura	Multiple purpura, which may ulcerate	Ulcer biopsy Blood tests as per specialists	Referral to dermatology/ rheumatology Reduced compression Steroid therapy

Reference - Wound Care Today Nov 2019 Understanding the differential diagnosis of leg ulcers: focus on atypical ulcers By: Jane Todhunter

DIFFERENTIAL DIAGNOSES FOR DIFFERENT LEG ULCER TYPES

Leg ulcer	Typical location	Important factors in patient assessment	Important factors in leg assessment	Important factors in wound assessment	Further investigations	Treatment
Rheumatoid	Lower gaiter/ ankle	 Rheumatoid arthritis Immunosuppressant medication 	 Multifactorial aetiology Foot deformity 	 Tissue may be sloughy or granulating Ulcers may be deep or shallow 	Depends on underlying aetiology	 Reduced compression Liaise with rheumatology regarding medication
Calciphylaxis	Distal: lower gaiter Proximal: inner thighs	 Renal failure on dialysis Warfarin 	Extremely painful Rapid spread	 Necrotic tissue Prone to infection 	Ulcer biopsy Bone metabolism bloods coagulation	 Pain relief Debridement of necrosis Wound care
Calcinosis cutis	Any site on legs	 Varicose veins with ulceration 	 May have venous skin changes 	• Sharp pieces of calcium can be felt in the ulcer		Removal of calciumCompression
Drug-induced ulcers	Usually lower leg	 Medication, such as nicorandil Hydroxurea 	 Oedema Pain Exclude vascular cause Ulcer does not respond to wound care and compression alone 	May resemble a venous ulcer		 Reduction in dose of offending drug, or alternative medication
Basal cell carcinoma (BCC)	Sun-exposed lower leg, often front of shin	 History of sun exposure Usually in fair complexions 	 Duration: slow growth Lack or response to standard wound treatment 	 Ulcer may resemble overgranulation tissue Rolled edges 	Ulcer biopsy	 Surgical excision with wide margin plus skin graft Compression
Squamus cell carcinoma (SCC)	Lower leg	 History of chronic venous leg ulcers History of trauma burns to site of ulcer Immunosupression Actinic keratosis 	 Scar tissue Venous skin changes 	 Rapid changes in appearance of ulcer Raised edges Uneven wound base Sloughy Malodorous Friable 	Ulcer biopsy	 Surgical excision Compression Radiation Possible amputation

Reference - Wound Care Today Nov 2019 Understanding the differential diagnosis of leg ulcers: focus on atypical ulcers By: Jane Todhunter

MEASURING WOUNDS



Document all measurements in centimetres, as L x W x D. Remember—sometimes length is smaller than width.

When measuring length, keep in mind that:

the head is always at 12 o'clock

the feet are always at 6 o'clock

your ruler should be placed over the wound on the longest length using the clock face.

WHEN MEASURING WIDTH:

measure perpendicular to the length, using the widest width place your ruler over the widest aspect of the wound and measure from 9 o'clock to 3 o'clock.

WHEN MEASURING DEPTH:

Place a probe into the deepest part of the wound bed.

We also need to measure undermining and tunneling. Measure undermining using the face of a clock as well, and measure depth and direction. Tunneling will measure depth and direction.

TO MEASURE UNDERMINING:

Check for undermining at each "hour" of the clock.

Measure by inserting a probe into the area of undermining back to the wound edge.

TO MEASURE TUNNELLING:

Insert a probe into the tunnel. Grasp the probe at the wound edge (not the wound bed) and measure.

Document tunnelling using the clock as a reference for the location as well.

On the feet, the heels are always at 6 o'clock and the toes are always 12 o'clock.

Supported by

