## UNDERSTANDING CHRONIC OEDEMA

## KEY PRINCIPLES FOR MANAGING CHRONIC OEDEMA WITH VENOUS LEG ULCERATION

# *QUICK* **GUIDE**

#### RISK FACTORS

#### Venous causes:

- Hypertension
- History of deep vein thrombosis/ post-thrombotic syndrome

## st-thrombotic syndrome Chronic venous insufficiency

#### Primary and secondary lymphatic causes:

Congenital abnormalitiesTrauma (e.g. surgery)

#### Other causes:

- Cardiac disease
- Renal disease
- Obesity

Changes caused by chronic venous insufficiency
Cancer/cancer treatment

Trauma (e.g. damage to veins)

Immobility/limb dependency
Lipoedema

Phlebitis

Varicose veins

#### HOW CHRONIC OEDEMA PROGRESSES

- **Early stages:** oedema usually presents as 'pitting' (indenting after pressure) that reduces overnight or with elevation
- Without appropriate treatment: tissues become hard as waste products accumulate due to lympthatic system's inability to drain excess fluid; oedema does not reduce with elevation or rest
- Long-term: affected tissues become hard, fibrosed and non-pitting; oedema does not reduce with elevation or rest; pronounced limb-shape changes develop and skin folds become evident; risk of cellulitis increases

#### WHY SKIN IS AT RISK OF BREAKING DOWN

- Decreased bloodflow results in skin changes due to lack of nutrients to the skin
- Patient health status can result in inability/lack of motivation to carry out basic skin care (e.g. keeping skin clean, dry and well-hydrated)
- Due to lack of mobility, an increase in oedema, combined with fragile, taut skin, results in a risk of trauma from external devices (e.g. beds, chairs), which in turn increases the risk of cellulitis

- ✓ Undertake a complete, holistic assessment of the patient and limb
- Perform an ABPI (or consider TBPI or pulse oximetry) to determine any underlying causes of the condition and venous leg ulcer status
- Treat or refer the patient for specialist diagnosis (e.g. duplex ultrasound, if ABPI not available) or care for underlying medical condition(s)
- Initiate appropriate skin care to prevent skin breakdown

#### Assess limb shape and level of oedema

- Seek to reduce oedema and reshape the limb with appropriate compression therapy (e.g. bandaging, circular-knit or flat-knit, ready-to-wear or customfit), depending on the level of oedema and limb-shape distortion
- Select appropriate compression and ensure the dressing is suitable for managing exudate volume (including use under compression) and the ulcer (see Pathway for Choosing Appropriate Compression and Wound Dressings)
- Keep in mind there may be more than one appropriate compression choice, so it is important to become familiar with the range of options
- Frequent reapplication of leg ulcer dressings and compression may be needed to monitor the skin and leg ulcer, and for appropriate absorption of exudate and reshaping of the limb
- To ensure patient concordance and optimise treatment outcomes, correct application of compression therapy is required. Compression bandaging should be applied only by trained practitioners
- A chronic oedema management plan must also include exercise and movement to enhance lymphatic and venous flows, plus long-term maintenance using compression hosiery to prevent further complications

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