

## DIMENSION 14 : Orthotic Intervention

<b>Generic Knowledge</b>				
<b>Competency</b>	<b>NOS Indicator</b>	<b>KSF Dimension</b>	<b>KSF Level</b>	
Ability to assess risk in accordance with the diabetic risk classification system in order to carry out appropriate orthotic intervention				
Ability to consider cosmesis of orthoses, without compromising function, and an understanding of its importance in achieving the best possible compliance.				
Ability to construct a care plan which will include regular review to identify wear of materials, the need for replacements, patient's level of use and compliance.				
Ability to provide relevant and accurate verbal and written patient information with any orthosis supplied.				
Demonstrate the ability to identify the need for plantar pressure redistribution and have an in-depth knowledge of the orthotic treatment options available to achieve this.				
Knowledge of tissue mechanics and the effect of shear forces				
Assesses the magnitude of the effects of the patient's diabetes and relates joint mobility, range of motion and connective tissue disorder to friction, shear and pressure risk.				
Knowledge of footwear adaptations and how they influence biomechanics in gait				
<b>Prevention and Protection</b>				
Is able to demonstrate biomechanical pressure relieving strategies to minimise the risk of foot ulceration				
demonstrate the use of gait analysis to assess total body biomechanics and to decide on the impact this may have on risk of ulceration				
Knowledge of principles of assessment for total contact insoles				
<b>Active Ulceration &amp; Temporary Pressure Relief</b>				
Can assess for and fit temporary pressure relief to offload active ulceration and optimise wound healing				
Knowledge of a wide range of pressure relieving devices and be able to choose the correct one based on patients needs, site of ulcer and mobility status.				

Can assess the patients mobility status and make decisions on ability to cope with different types of temporary pressure relief accordingly				
Can give basic gait training to make sure patient is stable on walking with temporary pressure relief orthosis and refer on for walking aid when required				
Give advice on the biomechanics of foot amputation, limb amputation, prosthetics and rehabilitation				
Contribute to the decision making process for elective amputation				
Demonstrates a practical ability to select appropriate pressure relieving orthoses, including the application of the varieties of total contact or wound healing casts.				
Apply practical techniques for the management of pressure and shear in wound healing such as total contact casting				
To demonstrate a knowledge and ability to use a matrix or algorithm for prescription of footwear in association with the patient's risk assessment.				
To demonstrate the ability to measure a foot according to the British standard and also measure pressure and shear.				
To demonstrate the ability to design footwear according to pressure measurement interpretation and utilisation of appropriate materials.				
To demonstrate an understanding of the components and materials associated with the manufacture of footwear and foot orthoses suitable for use in patients with diabetic foot disease.				
Demonstrate an understanding of the technology used in foot and pressure measurement.				
Demonstrate Pressure monitoring of temporary pressure relief and ability to alter the care plan for offloading as required				
<b>Post Ulcerative Management</b>				
Ability to develop a long term orthotic treatment plan considering all risk factors and be able to recognise when changes in condition require modification to the orthotic prescription.				
To establish the cause of previous ulceration and design a foot lifestyle plan to manage further trauma.				

Ability to observe wear and pressure on existing orthoses and change orthosis prescription accordingly				
Know when use of a pressure monitoring system is indicated to diagnose more complex biomechanical problems.				
<b>Management of Charcot Foot</b>				
Ability to apply a cast walker with a total contact insole, make this irremovable and explain the importance of compliance with this to the patient.				
Ability to apply a total contact cast to immobilise an active Charcot foot				
Ability to develop a care plan to prevent ulceration due to altered biomechanics of the foot after Charcot				
To have knowledge of and identify biomechanical changes associated with Charcot Neuro arthropathy. To design orthoses and demonstrate a practical ability to manage chronic Charcot foot disorders.				