

# **A High HEEL Initiative**

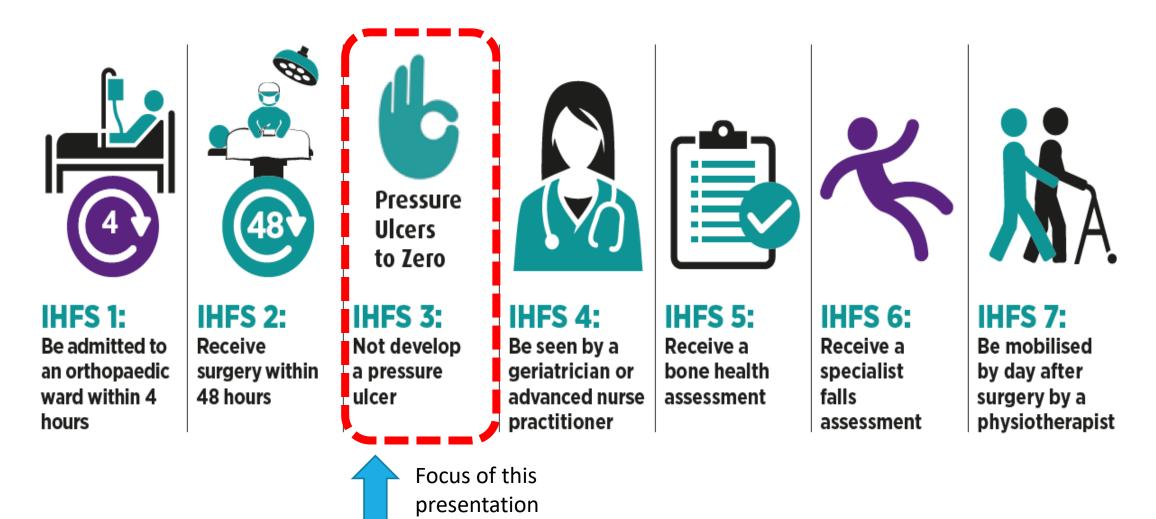
Presented by: Gráinne Sheehan CNS Tissue Viability Co-authors: Mary Mullen ANP Ortho-Geriatrics Ruth Buckley Quality Manager Hip Fracture Governance Committee



Mater Misericordiae University Hospital 20/04/2022



#### Irish Hip Fracture Standards





#### IHFS 3 – Pressure Ulcers to Zero

Upon review of our internal quality systems and 2020 NOCA data we saw a <u>concerning increase</u> in post-operative patients developing heel pressure ulcers

Pressure ulcers are associated with severe pain, <u>poorer</u> <u>patient outcomes</u>, increased length of stay and have increasing monetary implications

They are <u>largely avoidable</u> and are due to a failure to risk assess, implement appropriate prevention strategies and revision of those strategies

HFGC set an aim to reduce the incidence of heel pressure sores to <u>zero</u>

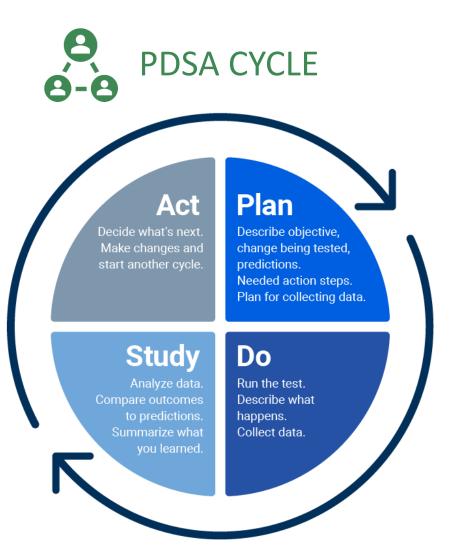




#### **Heel Pressure Ulcers**



## Creating a Sense of Urgency



FORM ACTIVE SUB-GROUP

TVN invited onto the local HFGC

Focused sub-group created with Ortho-Geriatric ANP, TVN and CNM on Orthopaedic Ward

Regular progress review and update meetings held

SSKIN document learnings incorporated

Evolution of the HEEL Intervention



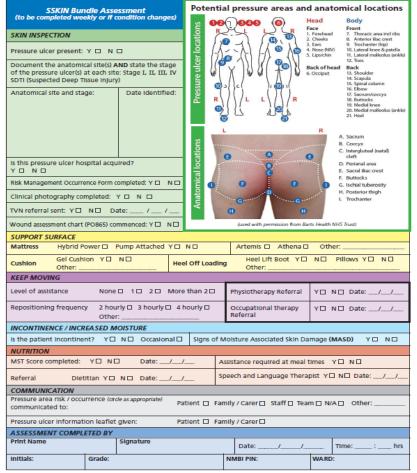
# Background

- >HSE Wound Care Guidelines 2019
- Hospital Pressure Ulcer Prevalence Audit
- ► HSE Inspection 2019
- Part A form Incident Management Framework
- Nursing Quality Forum-"share the learning"
- SSKIN Chart 2020
- Quality Care Metrics 2021



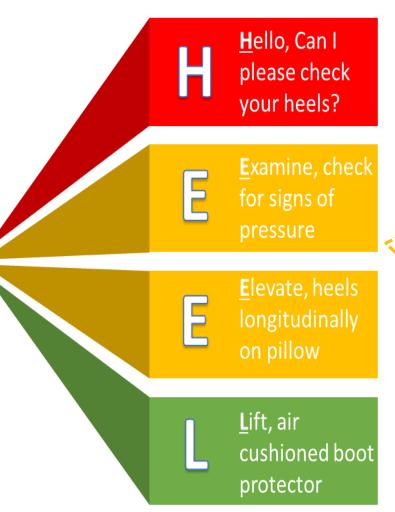


#### **HEEL Assessment**



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#### **SSKIN Bundle Assessment**



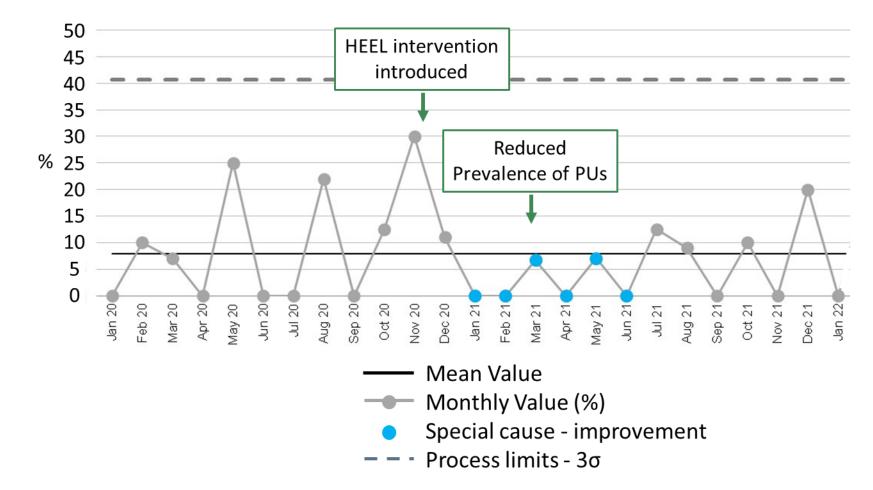


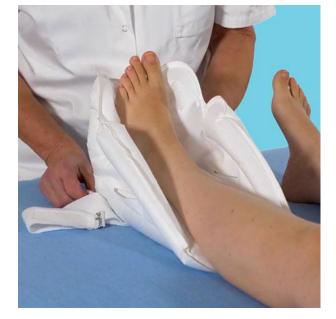
If heels at risk, off loading must be implemented regardless of mattress



#### **Effect of HEEL Intervention**

Hip Fracture % Hosp Acquired Grade 2 Pressure Ulcers - Hip Fracture Pathway starting 01/01/20





# Boot applied when deemed necessary



# MDT Engagement



- >Multidisciplinary approach essential
- Early mobilisation (IHFS 7) Day 1 Post operatively
- Routine dietetic review for each patient-Snack bags
- Ward tissue viability link nurse, CNM, ANP, care assistants, allied health professionals-education



TVN- clinical presence and visibility brings change



- Regular meetings with subgroup to evaluate progress and impact of HEEL intervention
- Expected sustained reduction in prevalence of heel pressure ulcers due to these actions taken



### The Patient's Experience

Motivating the patient to become an active participant in their paradigm of care-SSKIN

Strategies to overcome the covid-related lack of visitors which had prevented the opportunity to mobilise and advocate for patients

Visualisation strategies used

Improved patient experience and outcomes





### **Cost Benefit Analysis**

Heel ulcers prolong hospitalisationlead to osteomyelitis/sepsis

Treating one grade IV pressure ulcer costs the Irish Health Service <u>€119,000</u>
(2009)

Nursing time accounts for 41% of these costs-easy to apply

If purchased in packs of ten the unit price of an air-filled off-loading device was <u>€13</u> Table 2. Treatment cost per patient per day and treatment cost per patient per episode of care, by category of ulcer and by health state

	Normal healing	With critical colonisation		With osteomyelitis
Category I				
Cost per day Cost per episode* Probability† Category II	£42.73 £1213.58 100%			=
Cost per day Cost per episode* Probability† Category III	£46.90 £4398.79 90%	£62.24 £4834.46 5%	£138.05 £5779.32 2.5%	£374.42 £35849.90 2.5%
Cost per day Cost per episode* Probability† Category IV	£56.77 £7232.93 80%	£70.70 £7727.82 10%	£372.26 £10955.51 5%	£374.42 £38684.04 5%
Cost per day Cost per episode* Probability†	£56.77 £8782.85 60%	£70.70 £9277.74 10%	£372.26 £12505.42 15%	£374.42 £40233.96 15%

\*An episode is the length of treatment required to heal and ulcer;

† Probability is the proportion of patients with a particular category of ulcer expected to be in a particular health state;

Dealey et al., 2012



# Sustainability

Mandatory tissue viability education and training for nurses and staff-ongoing local education

The MMUH tissue viability link nurse continues to provide feedback on this intervention

Documentation of the SSKIN bundle assessment and HEEL offloading boot is a compulsory MMUH requirement within six hours of admission and 7/7

HFGC will continue to use NOCA data to drive quality improvements





## Acknowledgements

Many thanks to all involved in identifying and addressing this issue, and those who have assisted with implementing the solution and preparing the report and presentations



Many thanks to the Mater Misericordiae University Hospital and NOCA



NOCA National Office of Clinical Audit

