A Prudent Pressure Ulcer Prevention Approach within Care Homes through a Co-production relationship between Direct Healthcare Services and Welsh Wound Innovation Centre



Nicola Ivins RGN, Wendy Davies RGN, Sue Hagelstein RGN, Nia Jones RGN, Neal Walkley PhD, Keith Harding CBE

Aim: To establish whether a 5-phased structured approach including audit, education and deployment of a new hybrid mattress has an impact on the overall care received by residents in 4 care home settings across South Wales.

Audit

- Determine the current prevalence of pressure ulcers, by skin inspection.
- Determine the risk status of the patients using a recognised risk assessment tool (Waterlow score 2007).
- Review the equipment including its appropriateness use and overall condition of the equipment.
- Identify the level of staff knowledge in relation to pressure ulcer prevention

Phase 1

· Identify staff attitudes to pressure ulcer prevention

Education

Phase 2

- An education programme was delivered to all registered and non-registered carers including:-
- •Identification of patients at risk, Management and documentation of risk
- ·Categorising skin damage and differential diagnosis
- •Use of pressure ulcer prevention equipment (Dyna-Form Static™ Air HZ mattress)

Deployment of new equipment and support

Phase 3

Replacement of existing mattresses with Dyna-Form™ Static HZ mattress by Direct Healthcare Services Dyna-Form™
 Static Air HZ is a mattress replacement system that combines the benefits of effective air displacement technology with the best of modern foams for a new standard of innovative pressure ulcer prevention and management

Re-audit 3 months after deployment of Dyna-Form™ Static HZ mattress

Phase 4

- •Re-check of current risk status
 - •Skin inspection of all residents on the new mattress
 - •Knowledge and attitudes of carers post education programme

Development of an e-learning digital platform

Phase 5

- Deployment of evidence based e-learning modules. These 4 modules include skin assessment, risk assessment. Pressure ulcer categorising, equipment usage and maintenance
- Ongoing learning through interactive platforms delivered via hand held technology

Results:

This is part of an ongoing project. One nursing home has completed the first four phases of the project. The tables below display the baseline and re-audit demographics of the residents and the results of the mattress check at the baseline audit.





	Baseline	Re-audit
Male	12	13
Female	23	21
Average age	90	89
Risk score (Waterlow)	19	18

Audit	Pass	Fail	N/A	Total
Mattresses (n=)	9	17	6	35
%	25.7	48.6	17.1	100.0

Discussion:

- Prevalence of pressure ulcers was low across all homes.
- · Equipment and mattress protocols on quality checks to be reviewed by nursing homes
- · Education well received at all homes
- High attendance at teaching sessions >90% of staff attended the training
- High return of knowledge and attitude questionnaires- >90% of staff completed the questionnaires
- No pressure damage recorded for any patients on the Dyna-Form Static HZ mattress on patients upon the re-audit
- · No Dyna-Form Static HZ mattresses failed the re-audit

