

A Clinical Evaluation of a Dynamic Replacement Mattress within a Health & Care NHS Trust

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Introduction

The National Pressure Ulcer Prevention Guidelines (NICE 2015) identify the need for the availability of appropriate equipment, including bed-bases, mattresses and cushions. Following a 10 patient pilot evaluation to determine the suitability and clinical effectiveness of a new Mattress replacement system (Shelden Healthcare Dual) (Stephen-Haynes et al 2014) a 100 patient evaluation was undertaken for patients at high risk and those with a pressure ulcers up to Category 4.

Method

The NHS Trust gained approval from clinical governance to undertake this evaluation using a bespoke evaluation form focusing on patient biographical data and outcome factors.

Discussion

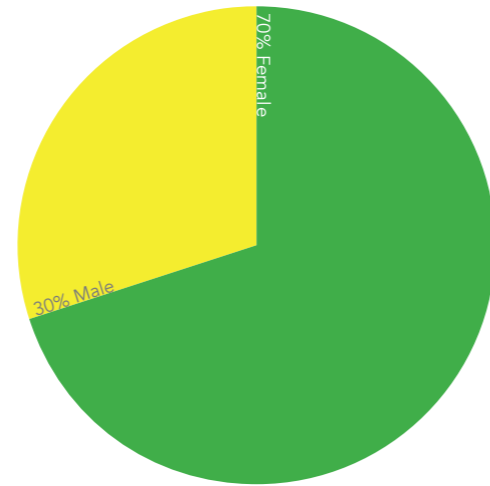
The Dual mattress replacement system was evaluated with clients that were deemed to be of very high risk of developing tissue damage, or with existing pressure damage. The results show the mattress system was quiet when in use, comfortable, easy to use and clean/decontaminate. The Dual system has a low purchase price combined with a 2 year extended service interval. The preliminary results suggest that there are clinical and financial advantages for using the Dual Mattress Replacement system for those patients in the community and care home setting.

References

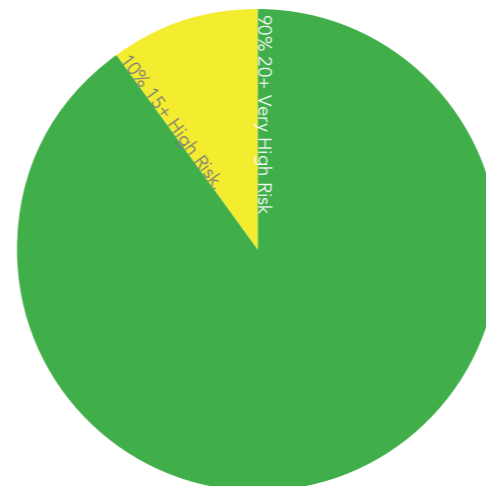
Stephen-Haynes J. Callaghan. Merrick,J. (2014) Evaluating the effectiveness of a dynamic mattress replacement system (Dual Community– Shelden Healthcare LTD) in a community and care home setting. Poster. Harrogate.

Results

Gender

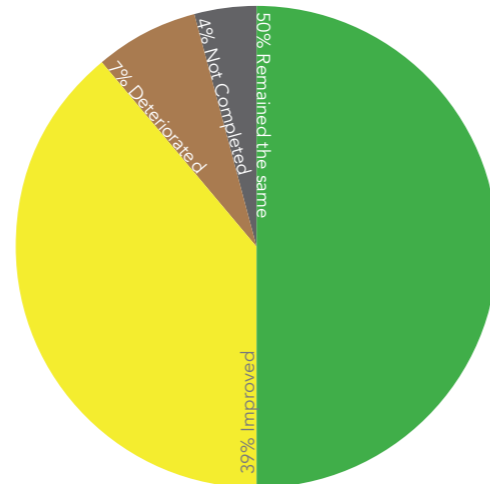


Waterlow Score

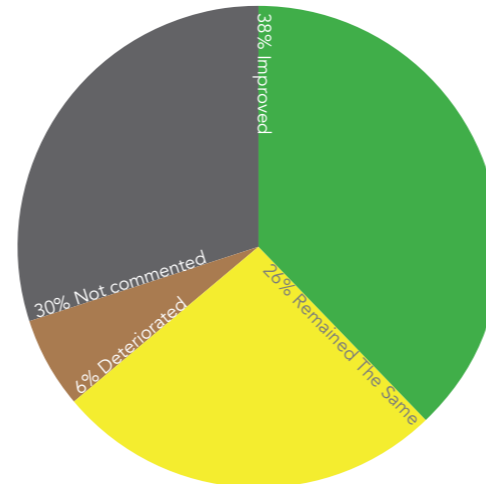


Patient Reported Outcomes

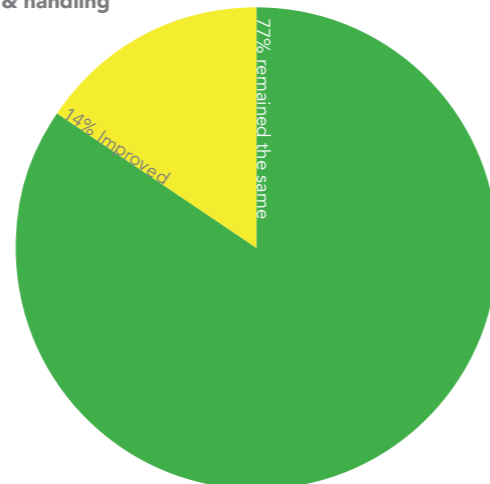
Outcome on skin condition



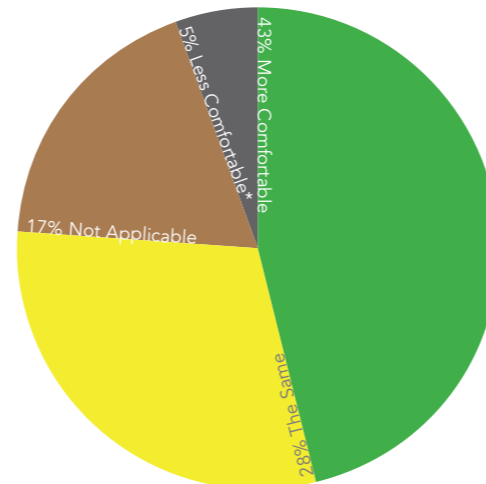
Outcome on ulcer condition



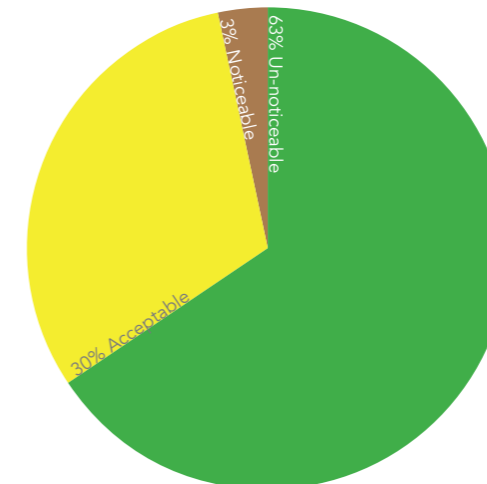
Outcome for carer in regard to moving & handling



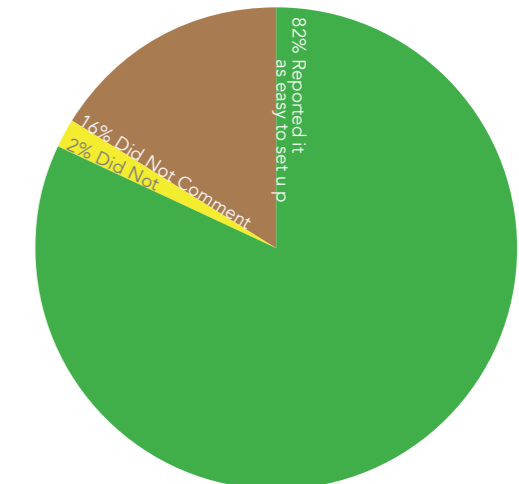
ComfortA



acceptability of the noise level



Staff Evaluation



*Than previous foam mattress.