

Case Review

Clinical Case Studies using the PRO2000XT from Meditec Medical

August 2011

ABSTRACT

Objective: To evaluate the effectiveness of the PRO2000XT in the prevention and treatment of pressure ulcers through a retrospective analysis of individual case studies.

Method: A total of 139 patients with 151 recorded pressure ulcers were placed on the PRO2000XT over a 10 year period. Patients were aged between 4 years and 102 years. Following an initial assessment, an evaluation was carried out during weeks 2-4 and a final assessment at weeks 4-8.

Results: A total of 118 wounds were correctly documented for the purposes of the retrospective analysis. During the evaluation process, a total of 53 pressure ulcers were documented to have healed completely; 52 were documented to have improved; 11 remained static and 2 deteriorated.

Conclusion: The documented wounds showed a significant rate of improvement demonstrating the effectiveness of the PRO2000XT in the prevention and treatment of pressure ulcers.

Declaration of interest: This study was sponsored by Meditec Medical Ltd

Introduction

The European Pressure Advisory Panel has defined a pressure ulcer as an area of localized damage to skin and underlying tissue caused by pressure, friction, shear and/or a combination of these.¹

European figures suggest that approximately 18% of hospitalized patients have a pressure ulcer at any given time.² In the U.K., treatment costs are approximately £1.4 to £2.1 billion per annum.³

Pressure ulcers cause great pain and suffering. They impose unnecessary psychological and physical strain on nursing staff and carers.

Healthcare professionals are increasingly being asked to provide greater quality of patient care with fewer resources and with an increasing threat of litigation

The selection of equipment, although secondary to the delivery of essential nursing care, significantly contributes to the prevention and treatment of pressure ulcers.

Legood & McInnes⁴ are uncompromising on the use of high specification mattresses as a minimum provision for patients vulnerable to pressure ulcers. High specification pressure relieving surfaces are likely to be highly effective and cost less overall because of savings gained by prevention and subsequent treatment of fewer pressure ulcers.⁴

The PRO2000XT from Meditec Medical has been designed by healthcare professionals to manage all extrinsic risk factors for pressure ulcer prevention. It features the latest technology to help reduce the risk of reperfusion injury and brings the latest innovative technology to patients.

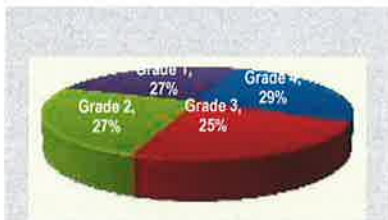


Methods of Data Collection

Only candidates with an existing pressure ulcer were selected. Following initial assessment, which included clinical history, candidates were placed on the PRO2000XT.

Clinicians were asked, where possible, to continue existing care plans. Assessments were completed at weeks 2-4 and at weeks 4-8 documenting any changes to patients risk status and wounds.

The grading of the 151 pressure ulcers was confirmed using the EPUAP calculator tool as follows – Grade 1: 38; Grade 2: 38; Grade 3: 35; Grade 4: 40.



Evaluation forms were completed by clinicians and passed to Meditec Medical for analysis.

Results of Pressure Ulcer Evaluations

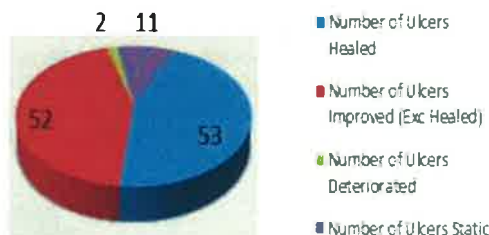
Of the 124 wounds treated, 118 were deemed to have been correctly and completely documented.

Of these 118 wounds,

- 53 (45%) healed during the study,
- 52 (44%) improved,
- 11 (9%) remained static with the remaining
- 2 (2%) deteriorating.

A total of 89% were deemed to have either healed or improved.

118 Patient's Wounds



Results of PRO2000XT assessment

Each assessment form contained a mattress assessment comment box which was completed by **130** clinicians.

122 clinicians commented that the PRO2000XT unit was user friendly;

120 considered that it helped to enhance patient care

121 considered that their patient was comfortable.

	YES	NO
User Friendly unit	122	1
Professional staff	123	0
Adequate training	119	2
Response Time	107	2
Acceptable Results	123	3
Help Enhance Care	120	7
Perform as Expected	122	1
Patient was Comfortable	121	0
Reduce Pain	37	6
Reduce length of stay	3	0
Like Overlay	13	1

Conclusion

The PRO2000XT has been shown to contribute to a significant rate of healing/improvement.

In October 2011, the prevention of pressure ulcers was declared a universal human right⁵. Pressure ulcers were stated to be an adverse event and must be considered as a major threat for the safety of patients in health-care settings.

The Declaration states that it is necessary to guarantee the inclusion of quality and scientific evidence-based criteria, not just economic criteria, when selecting preventative and therapy resources.

The availability and selection of the PRO2000XT allows clinicians to comply with the Declaration and significantly contributes to reducing the risk of patients developing pressure ulcers.

References

1. European Pressure Ulcer Advisory Panel (1999). Guidelines on treatment of pressure ulcers. EPUAP Review. 2, 31-33
2. European Pressure Ulcer Advisory Panel (2002). Summary Report on the Prevalence of Pressure Ulcers. EPUAP Review. 4, 2, 49-57
3. Bennet G., Dealey C., Posnett J. (1994) The Cost of Pressure Ulcers in the UK. Age & Aging; 33, 3, 230-235
4. Legood, R & McInnes, E. Pressure ulcers: guideline development and economic modelling. Journal of Advanced Nursing 2005; 50:3, 307-314
5. Declaration of Rio de Janeiro on Pressure Ulcers Prevention as a Universal Human Right 2012 <http://www.epuap.org/wp-content/uploads/2012/02/Declaracion-de-Rio-Ingles.pdf>