

Person-Centred Care: The MMO 8000 Bed and P.R.O. Matt Extra Wide Surface Provided Protection and Comfort for a Bed Bound Patient

- ↑ Easy upright positioning for improved respiratory management
- ↓ Reduced moving and handling risks for staff
- ↑ Skin condition improved and integrity maintained

Introduction

Diana* (age 53) was admitted to hospital due to increased breathlessness and was commenced on non-invasive ventilation on admission to address this. She weighed 154kg and had the following co-morbidities:

- Chronic obstructive pulmonary disease, requiring long-term, continuous oxygen therapy at home
- Sleep apnoea
- Type 2 diabetes
- Rheumatoid arthritis
- Acute kidney infection
- Hypercholesterolemia

Prior to admission Diana could stand with the assistance of one carer but could only walk a few steps due to shortness of breath.

On admission, Diana's skin was intact, but she had been incontinent of urine. Her skin was vulnerable due to this. She was initially nursed on a standard width bed and mattress.

Clinical Challenges

Diana was initially extremely short of breath and understandably very anxious. Keeping her upright and well supported was vital to improving her respiratory function and well-being.

Diana was too unwell to get out of bed and, since admission, doubly incontinent. Her skin integrity was therefore at risk and the skin around her sacrum and buttocks became red. Because she was bed bound, it was important that she was kept as mobile as possible within the bed to prevent complications of immobility and prevent worsening of existing acute and chronic co-morbidities.

She needed a bed and surface that could safely accommodate her in an upright position and preserve her skin integrity. It was important for the staff that the equipment could help them care for Diana safely from a manual handling perspective.

Medstrom's Clinical Advisor commented:

"I assessed Diana on the day she was admitted. **The equipment she was on wasn't suitable** for her needs – she told me the mattress felt uncomfortable and the bed wasn't wide enough. I got her **new bed and mattress** into the hospital and **in use that same day**. Because she was so unwell there was a **real urgency** to get this done."



Patient Objectives

- **Treat shortness of breath**
- **Maintain mobility within the bed to prevent complications of immobility and existing acute and chronic co-morbidities becoming worse**
- **Prevent skin damage**
- **Maximise comfort**
- **Improve patient's condition sufficiently to allow discharge home**

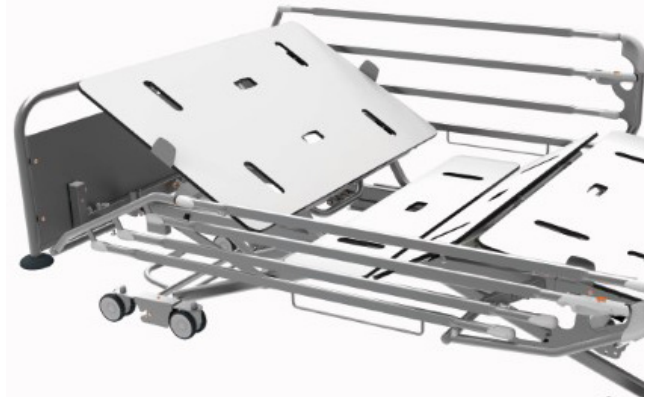
Introduction of Medstrom's Bariatric Equipment Package

A bariatric bed and surface were provided to help maintain Diana in an upright position and prevent skin breakdown, complications of immobility and exacerbation of co-morbidities:

MMO 8000 Bed: This bed has a platform width of 110cm (compared to approximately 90cm for a standard bed). Its unique elliptical backrest articulation mimics spine elongation as a person goes from a supine to sitting position. A cardiac chair position is achieved with one button, with the backrest and knee section rising simultaneously.

The nett result of this is that the patient isn't pushed down the bed as they sit up. The benefits are an excellent upright position, achieved with no abdominal crunching, and zero heel travel for reduced pressure ulcer risk.

In addition, the high height of the platform (83cm) provides a safe height for 98% of UK adults to work from without twisting or stooping, reducing manual handling risks.



P.R.O. Matt Plus Extra-Wide Surface: This support surface was selected as it gave Diana the much-needed stability to be nursed upright, whilst still providing effective pressure ulcer prevention. Uniquely, the P.R.O. Matt Extra-Wide can be utilised in non-powered semi-dynamic mode, or stepped up to a dynamic system with the addition of a control unit. This was of great benefit to staff as Diana's clinical condition was likely to change throughout her admission and it meant staff could 'step up' and 'step down' easily in conjunction with Diana's clinical need.

Following the equipment installation and training from Medstrom, maintaining Diana in an upright position became a lot easier. The one button cardiac chair and elliptical backrest movement provided ease of movement and comfort for Diana and reduced moving and handling risks for staff.

With ongoing treatment Diana's condition improved, and she was medically fit for discharge 18 days after admission. She had remained in bed due to breathlessness, and she was no longer incontinent of urine or faeces. The skin around her sacrum and buttocks had become red at the start of her hospital stay due to incontinence but had greatly improved by the time she was ready for discharge. She no longer needed non-invasive ventilation but would continue with long-term oxygen therapy at home.



Breathlessness Reduced



Skin Intact



Complications Prevented

Summary

Early provision of the bariatric bed and surface was very important for both Diana's treatment and well-being. It gave her the ability to sit upright, move and turn more easily, which helped with respiratory management and prevention of complications of immobility. The powered mattress helped to prevent skin damage and provided comfort.

Diana had stayed in bed throughout her hospital stay as she had been too short of breath to get up. However, her condition had improved enough to allow her to go home. A package of care was arranged which included involvement of community physiotherapy and occupational therapy teams so she could continue her rehabilitation at home.

Shortly before discharge, Diana commented to Medstrom's Clinical Advisor:

"I was uncomfortable on the bed and mattress I was on before these ones. **This bed is much better**, it has enough space for me to **move and feel safe**, and I can **move myself** using the control. I **really like this mattress too, it's so comfortable**. I'm looking forward to going home but I **wish I could take the mattress with me!**"



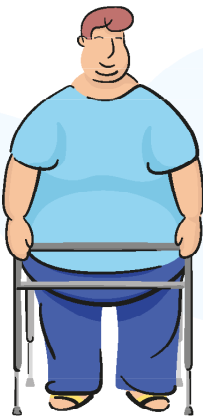
Well-Being



Comfort



Independence



To discover more about Medstrom's range of solutions for dignified plus-size patient care and enhanced support for caregivers, contact Medstrom's Bariatric Product Specialists 24/7/365 on:

UK: 0845 371 1717 or info@medstrom.co.uk IRE: 01 686 9487 or info@medstrom.ie