



## Automated turning at your finger tips Toto Case Study



## Background:

Mr. M is a 75 year old man who was referred for assessment by the Hospital Discharge Team following an acute admission to hospital for Urosepsis.

He presented with a past medical history of Parkinson's disease (end stage), Iron deficiency anemia, Jejunostomy, stoma, Urinary incontinence (long-term catheterisation) and a category 4 sacral pressure sore.

Mr. M and his family were keen for him to return home and following assessment the issues identified were;

- A full body hoist was required for all transfers.
- Assistance required with all activities of daily living – no package of care was in place prior to admission.
- On return home long periods of time would be spent in bed as Mr. M was only able to sit in a wheelchair for short periods (30 minutes maximum).
- To promote wound healing and prevent further deterioration in pressure areas regular 2 hourly turns in bed were required.
- Information on self directed support was supplied to the family for further investigation once Mr. M returned home.

## Assessment:

An extensive package of care was required with four times a day. Support with personal care, transfers and Nightlink twice a night for turning in bed was identified as necessary to facilitate discharge home. The family wanted to be an integral part of the care delivery and undertook to provide all support with feeding and nutrition, stoma and catheter care. They also engaged private Physiotherapy to maximize any remaining functional abilities for Mr. M.

Concerns were raised by the Tissue Viability team regarding the frequency of turns in bed and the need for this to be consistent to promote wound healing and prevent further tissue damage. The provision of a night service to turn and position Mr. M was likely to be disruptive to both him and his wife and affect the quality and duration of their sleep. The multidisciplinary team and the family agreed to trial a Toto Lateral Turning System supplied by Frontier Medical to facilitate regular repositioning.

## Toto Lateral Turning System:

Comprising of a lifting and turning platform with a control unit, the Toto system gently moves patients at regular intervals to assist with patient turning, pressure injury prevention plans and reducing the dependency on carers and nursing staff. The Toto once in situ is programmed to gently tilt from side to side to an angle of approximately 30 degrees.

The Toto system fits any hospital bed and can be used in conjunction with a high specification foam, hybrid or alternating mattress. The system is easy to roll and transport, allowing for short term use if required.

When fitted this equipment reduces the need for manual handling by carers and may be useful in cases where patients are;

- Non-compliant with a repositioning plan.
- Distressed when moved due to pain or dementia.
- Showing reduced quality and duration of sleep caused by frequent repositioning.



● Toto Lateral Turning System



● Toto Control Unit



● Toto Lateral Turning Platform - Rolled

## Outcome:

### Mr. M returned home in November 2016 with;

- The Toto fitted to an Ergo Medley hospital bed with Soft form Premier Active mattress. The bed and hoist were located in a downstairs room for discharge home.
- A four times daily package of care with two carers for support with personal care and transfers in and out of the wheelchair by mobile hoist was sourced.
- Mr. M's wife provided support and care for feeding, stoma and catheter care.
- The Nightlink service was not required due to the provision of the Toto Lateral Turning System.
- A long term catheter in situ to manage urinary issues.
- The District Nursing Service (DNS) planned daily visits for care and dressing of the pressure ulcer and catheter changes as required or planned.

### A review was undertaken in November 2017 to update on Mr. M's progress;

- Mr. M's wife reports that things are "back to our normal" and that without the Toto Mr. M "would not have returned home".
- The sacral pressure ulcer is completely healed. DNS service discontinued visits two months previously
- The urinary catheter has been removed. Continence is now well managed with pads.
- A stair lift has now been fitted allowing Mr. M to sleep upstairs with his wife. Mrs. M reports that the "Toto" is 'not noisy' and that the movement is 'very gentle allowing both of us a good sleep'.
- The hospital bed and air mattress have been returned and the Toto Lateral Turning System is fitted to his own Adjustamatic bed and Tempur mattress.
- The mobile hoist is also no longer in use and he is managing transfers with an Ablestand.
- Two carers now visit once daily for showering and dressing.
- Transfers in and out of the car are managed with a transfer board.
- With the ability to sit comfortably in a wheelchair for several hours Mr. M and his wife are able to go out and enjoy social and recreational activities.

## Costings

**Table 1: Toto Lateral turning System Costs** (Correct at time of writing)

Toto Lateral Turning System Costs	
Pre-Toto and Nimbus Professional Installation	
Initial Purchase Cost	£1845.00 +VAT
Extended Warranty (2 years)	£450.00 + VAT
Annual Service	£157.50 + VAT
<b>Total Cost</b>	<b>£2452.50 + VAT</b>

Provision of a Toto Lateral Turning System eliminated the need for a Nightlink Service on discharge from hospital. The initial costs of £2452.50 + VAT for the Toto Lateral Turning System were recovered in approximately five weeks and a potential saving of £21,474.00 was generated.

From the hospital discharge in 2016 to the 2017 review the frequency of Homecare visits has fallen from four to one and the costs of providing a daily Homecare Services have fallen by between £58,240.00 and £46,300.80 per year (dependent on care provider). This is a significant cost saving for the.

**Table 2: Toto Lateral turning System Costs** (Correct at time of writing)

Nightlink Service	2016	2017
Nightlink service		
Cost per hour/ carer	£32.00	
Cost per hour/ 2 carers	£64.00	
Nightlink Service Assessed Visits	2 visits nightly with 2 carers 1 hour/night	0 visits/0 carers 0 hour/night
Actual Nightlink Costs		
Hours/ cost per week	7 hrs = £448.00	0 hr = £0
Hours/ cost per year	364hrs = £23,296.00	0 hrs = £0
Homecare Service	2016	2017
Homecare Service		
Hours/ cost per week	£24.00 (Local Authority)/ £15.80 (Agency)	
Hours/ cost per year	£48.00 (Local Authority)/ £31.60 (Agency)	
Homecare Service Assessed	4 visits daily with 2 carers 3 hrs/day	1 visit daily with 2 carers 1 hr/day
Actual Care Package Costs		
Hours/ cost per week	21 hrs = £1,008.00/ £633.60	7 hrs = £336.00/ £221.20
Hours/ cost per year	1092 hrs = £52,416.00/ £34,507.20	364 hrs = £17,472/ £11,502.40
<b>Combined Total for Services</b>	<b>£75,712.00/ £57,803.20</b>	<b>£17,472.00/ £11,502.40</b>



## Conclusion:

The provision of the Toto Lateral Turning System in this particular case has been very successful with several positive outcomes identified:

- Complete healing of a category 4 sacral pressure ulcer and removal of indwelling catheter, eliminating the need for DNS visits.
- Reduction in Homecare visits (significant cost savings identified).
- Return of Community loan equipment (i.e. hoist, slings, mattress and hospital bed).
- High levels of patient and carer satisfaction.
- Improved Health and Wellbeing for Mr. M and his wife.
- Post sales support from the Frontier Medical.

In conclusion the cost of maintaining Mr. M at home has fallen substantially over the year since his discharge from hospital. On discharge from hospital he was assessed as requiring input from several services to maintain his health and well being at home i.e. Homecare, District Nursing, Equipment Service and Nightlink (assessed but not required due to provision of the Toto Lateral turning System). Mr. M has progressed physically and functionally this has reduced to only one visit daily from Homecare; freeing up time, resources and equipment for other clients to utilise.

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