

## ***One Less Worry: The Equipment Commitment to Families***

### ***Kaleidoscope Innovation Project 2016***

#### ***Request for Financial Support***

Challenges exist in sourcing equipment to care for children with palliative needs. These children are ineligible to access equipment through typical pathways, such as NDIS or EnableNSW. For children diagnosed with a life limiting condition (not at end of life), equipment provision through EnableNSW can take many months, or unfortunately if there is a sudden change in condition these children many die before receiving their equipment.

The current Kaleidoscope Innovation Project aims to establish an equipment loan pool that is the benchmark for tertiary paediatric palliative care equipment services, developed in consultation with families and partnering with multiple services to optimise use of charitable funds.

In 2010, the Paediatric Palliative Care team (PPAL) at John Hunter Children's Hospital (JHCH), was established with the support of the Nicholas Trust. This team provides a comprehensive service to children and families throughout Hunter New England Local Health District (HNELHD).

Charitable organisations support patients of PPAL by providing funding assistance for equipment and services. Challenges currently exist in sourcing suitable facilities to clean, store and service paediatric palliative equipment. There can be isolated occasions where equipment is not immediately available once funding is provided as suppliers may source equipment from overseas. Provision of equipment must be considered for families as lack of, or inappropriate equipment can increase stress and diminish quality of life in end stage (Department of Health and Children, 2005).

Hunter Equipment Service recently partnered with Calvary Mater Newcastle to develop an innovative model of equipment supply for palliative adult patients. It was recognised that this new model has the capacity to be transformed for paediatric clients who often have a prolonged and uncertain disease trajectory, requiring rapid and flexible access to equipment.

Collaboration with Hunter Equipment Service will support the establishment and maintenance of a loan pool of paediatric palliative equipment. This will provide families with items essential to caring for their children in a timely and transitory manner, with sensitive and responsive equipment collection. This service will be established in consultation with families and will optimise use of charitable funds. It is important to note that this will not negate the need for individualised requests to the Nicholas Trust Equipment Fund Committee that sit outside of what the loan pool could offer.

Suggested equipment items for this palliative care equipment loan pool and costing are included on the following pages. Items have been suggested by both clinical experts and bereaved families to support the needs of the majority of children.

We thank you for your kind consideration of this worthy project.

## Suggested Equipment for Palliative Care Equipment Loan Pool

### Pressure Care

| Equipment  | Cost     | Qty | Supplier                       | Total Cost             |
|--|----------|-----|--------------------------------|------------------------|
| Paediatric Quattro Acute mattress (cot)  | 8250     | 1   | Independent Living Specialists | Item already available |
| Quattro Plus mattress  | 6,450    | 1   | Astris Lifecare                | 6,450                  |
| <i>The Quattro mattress is an air alternating mattress that provides optimal level of pressure care. Its pressure relieving capabilities are significantly higher than others available. It has dual therapy modes and comfort control features. The entire mattress is fully launderable.</i> |          |     |                                |                        |
| Cirrus 2 alternating air mattress  | 6,563.75 | 1   | Astris Lifecare                | 6,563.75               |
| <i>The Cirrus mattress provides high user comfort as well as pressure relief. It has a soft memory foam top with alternating air mattress and is very well tolerated by lighter-weight children. Unlike other mattresses it has no minimum user weight.</i>                                    |          |     |                                |                        |
| ROHO adaptor pad 26x36cm   | 249      | 2   | Alphacare                      | 498                    |
| <i>The ROHO adaptor pad can be used as an interface on any surface to protect soft tissues, reducing shear and friction (Sides of wheelchairs, read and footrests, under head for ear protection).</i>   |          |     |                                |                        |
| ROHO Quadtro low profile cushion 380x380mm   | 798      | 2   | Alphacare                      | 1,596                  |
| ROHO Quadtro low profile cushion 410x410mm   | 798      | 2   | Alphacare                      | 1,596                  |
| <i>The ROHO Quadtro cushion provides high level of skin protection using air floatation. It provides stability in sitting by locking air into place in each of the four quadrants. It adjusts for different seating needs and unique body shapes.</i>  |          |     |                                |                        |
| Repose mattress overlay  | 435      | 5   | Macmed                         | 2,175                  |
| <i>The Repose mattress overlay has been designed to be used on a standard single mattress. It provides comfort and pressure redistribution, and comes packed inside an easy to use pump, ready for use in seconds.</i>   |          |     |                                |                        |
|  |          |     |                                | <b>18,878.75</b>       |

### Mobility

| Equipment   | Cost   | Qty | Supplier  | Total Cost    |
|---|--------|-----|-----------|---------------|
| Jazz Easys pushchair size 1   | 10,130 | 1   | PME Group | 10,130        |
| <i>The Jazz Easys combines an adjustable seating system with a lightweight aluminium chassis that can be safely used for vehicle transport. The multi-positional seat can be tilted in space, reclined to lay flat and positioned in either forward or rear-facing positions. Lockable spring suspension offers additional comfort when travelling on uneven terrain.</i> |        |     |           |               |
| Glide G2 Leisure Plus manual wheelchair 34cm  |        | 1   | Alphacare | 2,695         |
| Glide G2 Leisure Plus manual wheelchair 37cm  |        | 1   | Alphacare | 2,695         |
| <i>The Glide wheelchair is a lightweight manual chair that provides mobility for children who are experiencing fatigue, balance and coordination difficulties or reduced respiratory function during mobilisation. It is a folding wheelchair that can easily be transported in the rear of a family vehicle.</i>   |        |     |           |               |
|   |        |     |           | <b>15,520</b> |

### Bathing and Showering

| Equipment   | Cost | Qty | Supplier | Total Cost             |
|---|------|-----|----------|------------------------|
| Orca bathtub  | 2455 | 1   | R82      | Item already available |
| <i>The Orca bathtub is constructed of fibreglass and powder coated steel. It is larger than commercially available baby baths and is mounted on a frame which is height adjustable for the needs of different carers. It provides families who struggle to lift their child out of low baths with an appropriate option to enjoy bathing their child.</i> |      |     |          |                        |
| Pingvin (penguin) bath support  | 726  | 2   | R82      | 1,452                  |
| <i>The Penguin bath support supports a child in a semi-recline position within the Orca bath. It allows the child to move their</i>   |      |     |          |                        |

## Suggested Equipment for Palliative Care Equipment Loan Pool

|  |         |   |                |                  |
|--|---------|---|----------------|------------------|
| <i>arms and leg in the water and has an adjustable abduction block.</i>  |         |   |                |                  |
| Flamingo shower/toilet chair   | 4534.50 | 1 | R82            | 4,534.50         |
| <i>The Flamingo shower chair provides high level support and comfort for an older child when being showered or attending to toileting needs. It is adjustable in both tilt and recline functions, has swing-away side supports and a padded headrest. Its large castor wheels and push handle make it easy for a carer to manoeuvre the chair in the bathroom.</i> |         |   |                |                  |
| Otter bath chair (medium)  | 675     | 1 | PME Group      | 675              |
| <i>The Otter bath chair can be used within the bath (or outdoors). It has a lightweight plastic frame with mesh fabric and straps that can be adjusted along the length of the chair. The adjustable slip-resistant legs adjust the height and recline position of the seat.</i>   |         |   |                |                  |
| Seahorse Sanichair (size 1)  | 4390    | 1 | PME Group      | 4,390            |
| <i>The Seahorse shower and toilet chair provides ideal support for younger children. It has a tilt function for hair washing and to reduce postural demands. The smaller size in the range has been requested.</i>   |         |   |                |                  |
| ILS shower tray  | 620     | 2 | Local Mobility | 1,240            |
| <i>The shower tray has a vinyl base with soft sides that can be used over an existing drain hole for showering. A mobile shower chair can be wheeled over the soft edge of the tray for showering with a hand held shower hose.</i>  |         |   |                |                  |
|  |         |   |                | <b>12,291.50</b> |

### Manual handling

| Equipment  | Cost | Qty | Supplier                | Total Cost   |
|--|------|-----|-------------------------|--------------|
| General purpose mesh sling for patient lifting, standard yoke- extra small   | 200  | 1   | Active Mobility Systems | 200          |
| General purpose mesh sling for patient lifting, standard yoke- small   | 200  | 1   | Active Mobility Systems | 200          |
| <i>General purpose mesh slings are used with a hoist that has a standard yoke attachment. They can be used in the shower and dry quickly because of the open weave of the mesh fabric.</i> |      |     |                         |              |
| Mesh sling for patient lifting, pivot-extra small  | 305  | 1   | Active Mobility Systems | 305          |
| Mesh sling for patient lifting, pivot-small  | 305  | 1   | Active Mobility Systems | 305          |
| <i>Mesh slings are used with a hoist that has a pivot frame attachment (keyhole). They can be used in the shower and dry quickly because of the open weave of the mesh fabric.</i>         |      |     |                         |              |
|  |      |     |                         | <b>1,010</b> |
| <i>Currently HES has stock of patient lifters available for loan, therefore this item has not been included in this list</i>   |      |     |                         |              |

### Positioning

| Equipment   | Cost | Qty | Supplier                     | Total Cost   |
|---|------|-----|------------------------------|--------------|
| Special Tomato soft touch sitter size 1   | 975  | 1   | Dejay Medical and Scientific | 975          |
| Special Tomato soft touch sitter size 2   | 1145 | 1   | Dejay Medical and Scientific | 1,145        |
| <i>Many children at end stage of life require an alternative position to lying in bed. The soft touch sitters provide support for head and trunk alignment, with a tilting base, harness and headrest. They are made from a soft anti-microbial material for maximal comfort and can be easily cleaned.</i> |      |     |                              |              |
| Paediatric Phoenix Chair  | 6344 | 1   | Alphacare                    | 6,344        |
| <i>The Phoenix chair is a mobile armchair that is able to tilt backwards and recline for ideal positioning. It contains cushions for comfort and pressure relief, with upper lateral supports for trunk support. Its full metal frame provides durability and castors allow for easy manoeuvrability.</i>   |      |     |                              |              |
|   |      |     |                              | <b>8,464</b> |

## Suggested Equipment for Palliative Care Equipment Loan Pool

### Transport

| Equipment   | Cost | Qty | Supplier            | Total Cost |
|---|------|-----|---------------------|------------|
| Infa Luxi Treo Ebony car seat   | 449  | 2   | Baby Savings Kotara | 898        |
| <i>This car seat is suitable for use up to eight years of age. It has rearward facing, forward facing and booster seat modes, with nine recline positions. The height-adjustable headrest and five shoulder harness slots ensure that each child is well supported for transport. The Luxi Trio is certified by Australian Standards unlike other specialised imported car seats.</i> |      |     |                     |            |
|   |      |     |                     | <b>898</b> |

### Beds

| Equipment  | Cost | Qty | Supplier                   | Total Cost   |
|--|------|-----|----------------------------|--------------|
| Oostwoud electric cot (1500 x 800)   | 6666 | 1   | Paragon Healthcare Pty Ltd | 6,666        |
| <i>The Oostwoud electric cot is height adjustable (with battery back-up), has tilt for children with respiratory compromise or reflux and safety rails that lock underneath the cot to allow for caregiving and access to the child. It is a larger size to accommodate the Quattro alternating air pressure mattress.</i> |      |     |                            |              |
|  |      |     |                            | <b>6,666</b> |

### Home Access

| Equipment   | Cost | Qty | Supplier  | Total Cost  |
|---|------|-----|-----------|-------------|
| Decpac portable ramps 1500mm  | 759  | 1   | Alphacare | 759         |
| Decpac portable ramps 2000mm  | 1065 | 1   | Alphacare | 1,065       |
| <i>The Decpac portable ramps are lightweight and extremely durable, with a non-slip surface to allow wheeled access over steps and other obstacles into a home.</i>   |      |     |           |             |
| Tyrex rubber wedge 15mm   | 36   | 2   | Tyrex     | 72          |
| Tyrex rubber wedge 30mm   | 53   | 2   | Tyrex     | 106         |
| <i>Tyrex rubber wedges allow for small differences in height in floor surfaces to be easily negotiated in a temporary manner (i.e. entrance to bathroom/bedroom).</i> |      |     |           |             |
|   |      |     |           | <b>2002</b> |

### Medical Support

| Equipment  | Cost  | Qty | Supplier               | Total Cost    |
|--|-------|-----|------------------------|---------------|
| Laerdal suction unit, reusable canister  | 2691  | 2   | Laerdal Pty Ltd        | 5,382         |
| <i>Suction device for removing secretions and mucous from a child's airways</i>                                    |       |     |                        |               |
| Phillips SimplyGo Mini Portable Oxygen concentrator  | 4,895 | 1   | Inspiration Healthcare | 4,895         |
| <i>A portable oxygen concentrator that allows a child to attend appointments and outings when requiring oxygen</i> |       |     |                        |               |
| Provita Smiley IV pole   | 256   | 2   | Paragon Care           | 512           |
| <i>Telescoping one-hand operation IV pole for fluids</i>   |       |     |                        |               |
| Masimo pulse oximeter  | 4,031 | 1   | Masimo                 | 4,031         |
| <i>Portable bedside unit to monitor oxygen saturation, pulse rate and respiratory rate</i>                         |       |     |                        |               |
|  |       |     |                        | <b>14,820</b> |

|                   |  |  |  |                  |
|-------------------|--|--|--|------------------|
| Total cost of ELP |  |  |  | <b>80,550.25</b> |
|-------------------|--|--|--|------------------|