Mangar HEALTH

EMERGENCY SERVICES

HEALTHCARE SOLUTIONS DESIGNED FOR LIFE

BHTA British Healthcare Trades Association

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ABOUT US

Mangar Health designs, manufactures and supplies unique, inflatable manual handling devices. In 2006 Surrey Ambulance Service were the first to adopt the ELK lifting cushion to protect their workforce and patients from injury during a lift and are now used by every UK NHS Ambulance Trusts.

As specialists in post fall management our equipment is designed to protect healthcare workers from back injury sustained through repetitive lifting. Manufactured in the UK, our inflatable lifting cushions are found on every emergency ambulance in the UK, saving NHS Ambulance Trusts millions in sickness costs associated with musculoskeletal disorders.

We now sell our lifting cushions world-wide, including Australia, America, Canada and across Europe.

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INTRODUCTION

Falls account for more than 10% of all ambulance calls and rarely happen in easy to reach, accessible places. Mangar Health's inflatable devices are designed to fit in the tightest of spaces such as bathrooms, busy dining rooms and narrow bedrooms.

This guide gives an overview of the importance of;

- Post fall management care – highlighting the need for robust health assessments before lifting and finding solutions to support patients wherever they fall
- Avoiding injury – healthcare workers have one of the highest rates of musculoskeletal injury and the repetitive nature of lifting can cause long term pain
- Assistive equipment – using the right equipment to assist with a lift will reduce worker injury and ensure patients are moved safely and with dignity

CONTENTS

Not just a lifting cushion

The ELK and Camel lifting cushions are most often used to lift someone who has fallen on the floor to a sitting position. If it is necessary to lift someone in a supine position, this can be done by either using the Camel without inflating the back rest or the ELK in conjunction with a scoop stretcher.

On some occasions, the equipment is used in reverse to lower someone from sitting level to the floor. Physiotherapists may do this when they want to use a swimming pool for rehabilitation and we also know of athletes who need to be lowered to the riverside to access a boat or canoe.

Powered using an Airflo Compressor, the battery technology means the lifting cushions are portable and can be used indoors or outside. This flexibility is why the ELK and Camel are the lifting device of choice of many ambulance services around the world.

Ambulance crews encounter different emergency situations every day and are increasingly reporting new ways the flexible inflatable technology helps them, including;

- To gently move a patient who has fallen against a wall into a more manageable position for lifting
- As a bariatric seat for patients who can only walk a few steps
- To assist when lifting someone on a stretcher
- Moving someone who is stuck in bath

Avoiding musculoskeletal injury

There is a high prevalence of work related injury among healthcare workers, in multiple care settings, across many countries. Moving and handling injuries account for 40% of work-related sickness absence in health and social care services, with around 5,000 injuries reported each year in health services, and around 2,000 in social care. (HSE)

Factors that directly affect injury levels are;

- Appropriate training
- Availability of lifting devices
- Time available to deliver daily duties.

Research in 2011 found that the odds of an injury to a healthcare worker reduced by up to 41% when a lifting device was easily and readily available. There is significant evidence, from across the world that a strong relationship exists between manual handling and back disorders in healthcare workers.

The consequences of musculoskeletal injury for the employee are:

- Ongoing pain suffered through a musculoskeletal disorder picked up through manual handling
- The loss of their ability to perform duties
- Time off required to recover and recuperate, often resulting in reduced earnings
- No longer able to work in a healthcare or moving and handling environment and require new training
- May need to take early retirement

A case study from South West NHS Ambulance Service Trust saw a £300K reduction in sickness costs in the first year after the introduction of ELK lifting cushions across the fleet.

Consequences of a fall for patients

Most falls do not result in serious injury, but they can cause the person to lose confidence, become withdrawn, and feel as if they have lost their independence. The length of time it takes to help a patient into a safe and upright (standing or seated) position can have a significant impact on their recovery.

Lying on the floor for a long time following a fall is the one of the most serious consequences of the fall.

The results of a long lie or delayed initial recovery include:

- Skin damage resulting in pressure sores
- Reduced confidence
- Increased anxiety (post fall syndrome)
- Hypothermia
- Dehydration
- Pneumonia
- Kidney failure (through rhabdomyolysis)
- Death

It is therefore critical to maximise recovery from the fall that the fallen person is given the right care, at the right time, in the right place.

To evaluate whether interventions are 'at the right time' it is important that we acknowledge and understand the critical post-fall timescales:

A **delayed initial recovery** is when the faller remains on the floor for between 10 – 59 minutes. The impact of a delayed initial recovery is psychological and emotional trauma with increased post-fall anxiety and reduced functional independence or activity engagement.

A **long lie** is when the faller remains on the floor for 60+ minutes. The physical impact of the long lie is all of those stated within delayed initial recovery but with the addition physical and physiological elements. These includes body temperature and potassium serum levels for example.

Before implementing a lift, it is important to perform a health assessment and increasingly **ISTUMBLE** is used to check a patient's health and decide whether or not onward transportation to hospital is required.

Try the **ISTUMBLE App**

A post falls assessment tool called ISTUMBLE, used by UK ambulance teams, is supporting care home staff to assess fallen residents and make informed decisions around safe lifting.

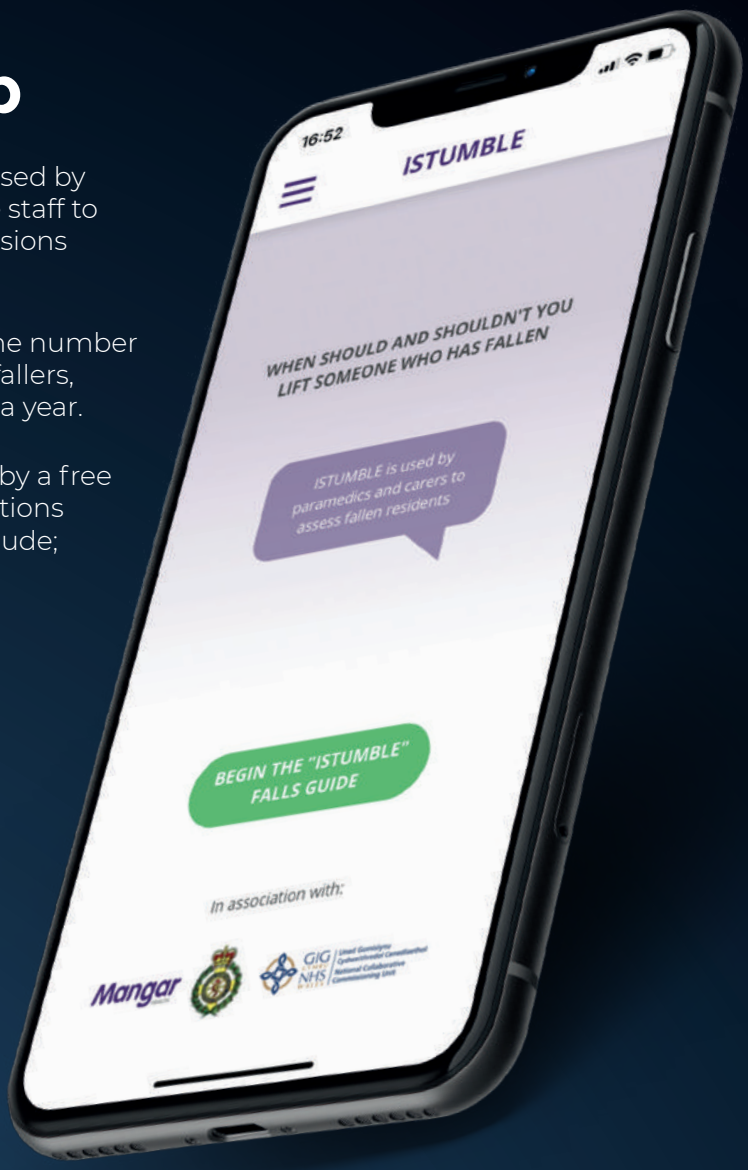
It is part of a continuing initiative to decrease the number of avoidable ambulance callouts to un-injured fallers, which currently costs the NHS over £50 million a year.

The health assessment algorithm is supported by a free App and takes users step by step through questions designed to inform decision making. These include;

- **I**ntense Pain
- **S**uspected Collapse
- **T**rauma to Neck/Back/Head
- **U**nusual Behaviour
- **M**arked Difficulty in Breathing / Chest Pain
- **B**leeding Freely
- **L**oss of Consciousness
- **E**vidence of Fracture(s)

It also takes the user through the FAST test, enabling the carer to make a judgment on whether an ambulance call out is appropriate.

The App can be downloaded from the Google and Apple Stores.



Download on the App Store

ANDROID APP ON Google play

"We are very proud to be involved in another project where we are having a direct impact on safeguarding the lives of care home residents and helping to reduce unnecessary ambulance callouts.

This is another great example of how the public and private sector can work hard together and strive to reach our joint goal of creating better healthcare outcomes for all involved."

Simon Claridge, CEO at Mangar Health

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ELK Lifting Cushion

The ELK is a lifting cushion designed to lift from the floor.

Easy to fit

- Lifting cushion is inflated using an Airflo Compressor with a simple hand control
- Simple to use, requiring very little training
- Suitable for use inside or out
- Can be used by one carer

Safe to use

- Lifts the frailest person up to 980 lbs from the floor
- Exceptionally rigid and stable
- Ideal for carers of individuals with neurological disorders who fall regularly

Simple to maintain

- Clean using a proprietary nonabrasive mild liquid cleaner.
- Easy to deflate, fold away and store
- The material is designed to exceptionally high standards with extraordinary durability, strength & performance in the toughest of environments

Improves well-being

- Provides a safe, dignified lift for a fallen person
- Reduces the risk of musculoskeletal injury for the carer
- Can be used in confined spaces where traditional lifting equipment may not fit

Technical Specifications

Max user weight	450 kg
Max height	56 cm
Min height	Flat
Seat depth	50 cm
Width	57”
Total product weight	3.6 kg
Airflo Compressor	24
Lifting performance per charge	Up to 8 lifts

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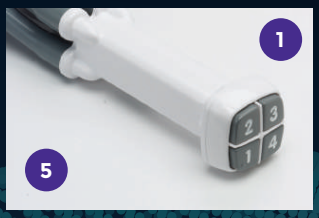


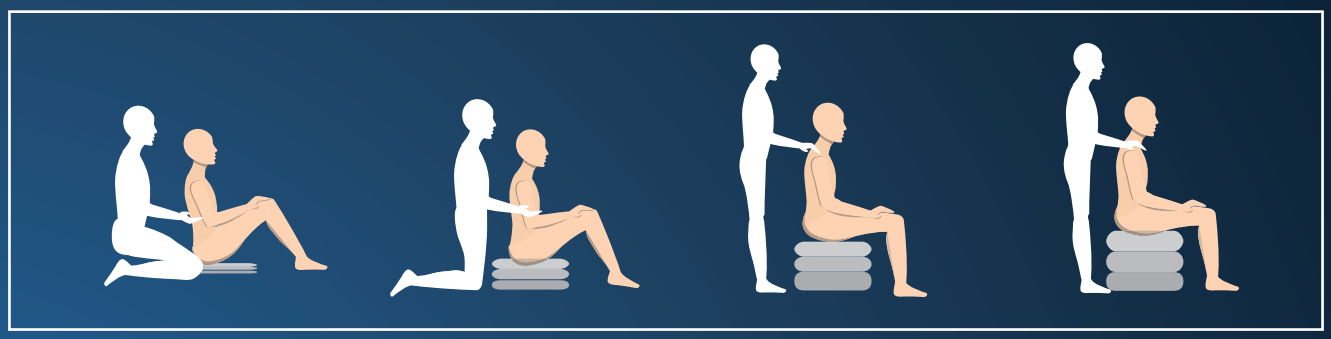
Product code: MPCA070400

Features

1. **4-Way Hand Control.**
2. **Made from very strong polyurethane** coated nylon material.
3. **Remove or keep stability bar** to provide extra comfort for the user.
4. **Can be used to lift a stretcher.**
5. **5. Easy to setup** - connect the four hoses from the hand control to the corresponding numbers and coloured connectors on the Camel.
6. **Powered by an Airflo 24 Compressor.**

Accessories

- **ELK Stretcher Bars**
- **Slidesheet**
- **ELK End Cap Set**



For more information visit

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Camel Lifting Cushion

The Camel Lifting Cushion will both sit up andlift a fallen person.

Easy to fit

- Lifting cushion is inflated using an Airflo Compressor with a simple hand control
- Simple to use, requiring very little training
- Suitable for indoor and outdoor use
- Can be used independently or assisted

Simple to maintain

- Clean using a proprietary nonabrasive mild liquid cleaner.
- Easy to deflate, fold away and store in the carry bag provided
- Does not need a LOLER certificate
- The material is designed to exceptionally high standards with extraordinary durability, strength & performance in the toughest of environments

Safe to use

- Lifts the frailest person up to 320 kg from the floor
- Stable and supportive
- Ideal for carers of individuals with neurological disorders who fall regularly

Improves well-being

- Provides a safe, dignified lift for a fallen person
- Reduces the risk of musculoskeletal injury for the carer
- Individuals with a cognitive impairment are less distressed when lifted with a Camel
- The backrest gives additional support and is particularly suitable for bariatric patients

Technical Specifications

Max user weight	320 kg
Max height	56 cm
Min height	Flat
Seat depth	47 cm
Width	70 cm
Total product weight	6.5 kg
Back/ headrest length	81 cm
Airflo Compressor	24
Lifting performance per charge	Up to 4 lifts

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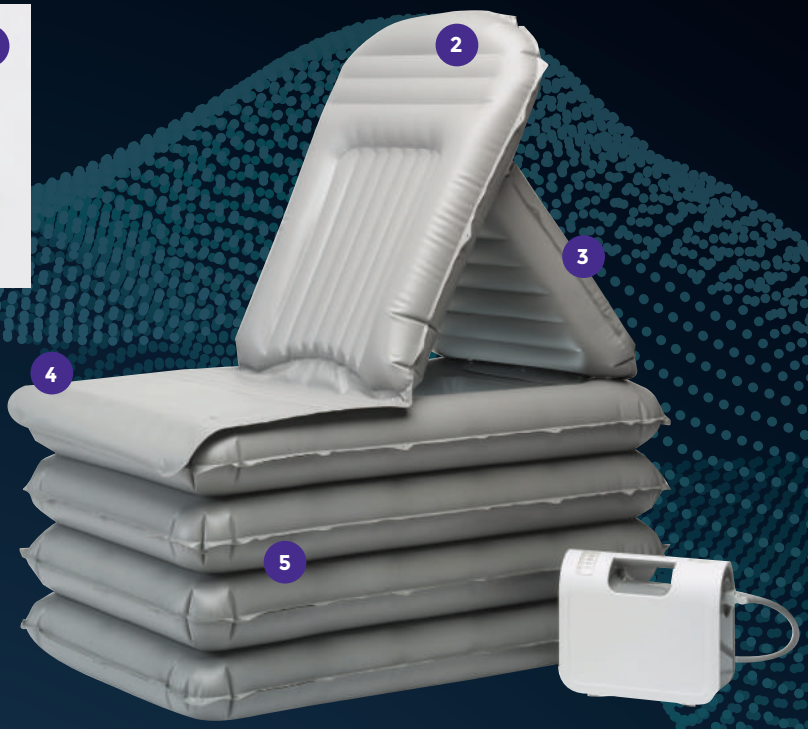


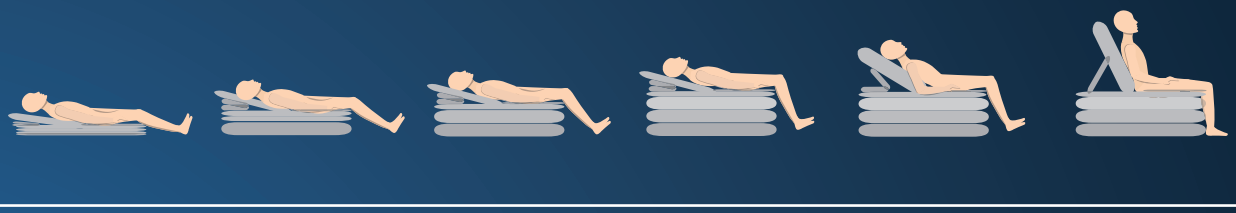
Product code: MPCA060400

Features

1. **Easy to setup** - connect the four hoses from the hand control to the corresponding numbers and coloured connectors on the Camel.
2. **The head should lie on the Camel badge** and the body should lie centrally.
3. **The backrest** may be partially inflated before the lower sections.
4. **Made from very strong polyurethane** coated nylon material.
5. **Each layer inflates individually** ideal for single-handed care.

Accessories

- **Slidesheet**
- **Camel Carry Bag**



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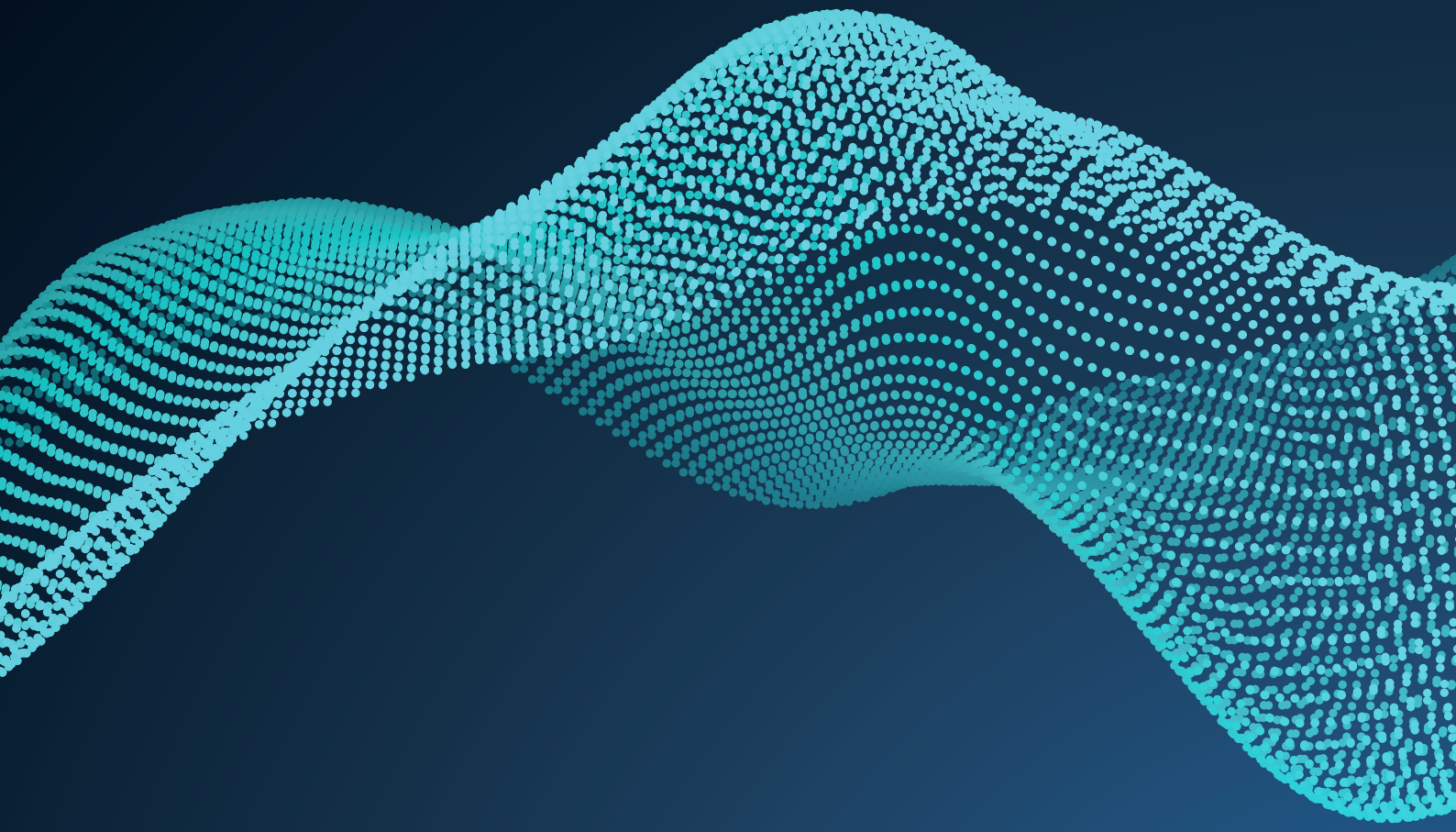

Contact us today

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