

**stryker**

# The Prime difference

**Transforming patient handling with  
advanced mobility and electric  
functionality.**



# How does patient handling put **healthcare professionals** at risk of injury?

Healthcare workers in Australia account for the highest number of workers compensation claims of any profession - more than construction labourers, firefighters, and police officers.<sup>1</sup>

## The most common tasks that lead to injury in hospitals are<sup>1</sup>:

- 👤 Muscular stress while manual handling - 28%
- 👤 Muscular stress while lifting and carrying - 15%

## Risks on the rise...

Nurses can lift a cumulative weight of up to **1.6 tonnes** during an 8hr shift.<sup>7</sup>

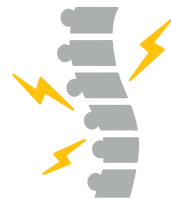


### Patient obesity

levels are projected to increase, increasing the difficulty of manual patient handling.<sup>2</sup>



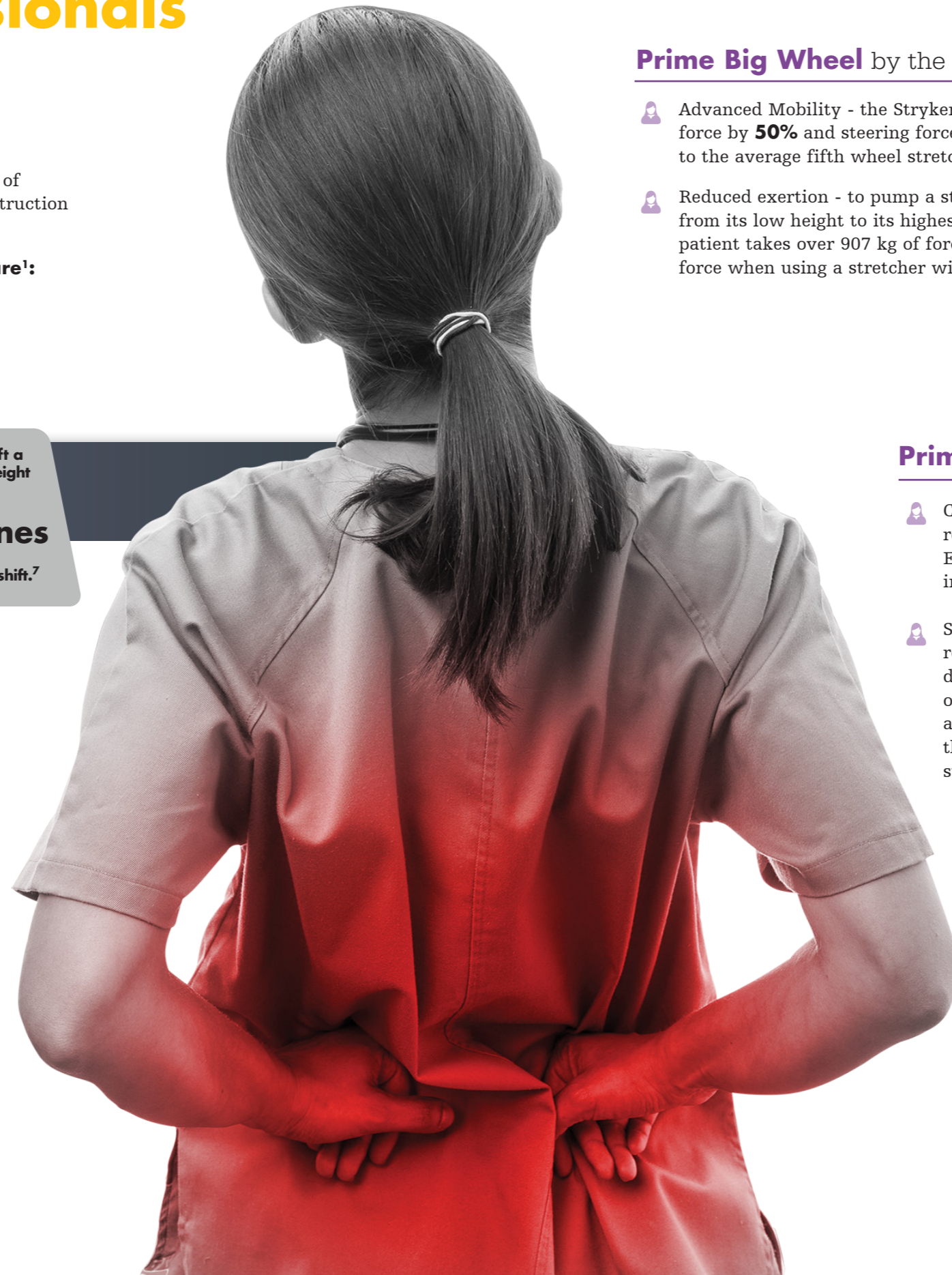
Proportion of nurses **aged 50 and over** has risen.<sup>3</sup>



Aging healthcare workers statistically become **more vulnerable** to musculoskeletal injuries.<sup>4</sup>



Number of **hospital admissions is growing faster** than the number of nurses and midwives.<sup>3, 5, 6</sup>



## Proven Results

### Prime Big Wheel by the numbers

- 👤 Advanced Mobility - the Stryker Big Wheel reduced push force by **50%** and steering force by **60%** when compared to the average fifth wheel stretcher.<sup>8</sup>
- 👤 Reduced exertion - to pump a stretcher with manual lift from its low height to its highest height with a 227 kg patient takes over 907 kg of force, compared to **23 kg** of force when using a stretcher with an electric lift.<sup>9</sup>



### Prime Zoom by the numbers

- 👤 Compared to fifth wheel, Zoom reduces Rate of Perceived Exertion (RPE), or physical intensity by **42%**.<sup>10</sup>
- 👤 Stryker's Zoom Stretcher reduced the mean L4/L5 spinal disc compression force by **42%** on incline transition, and an average of **39%** throughout the task when compared to the standard fifth wheel.<sup>11</sup>



### Prime TC by the numbers

- 👤 In a survey of 250 caregivers who had access to Prime TC, 98% of those surveyed agreed that Prime TC made their job easier, 88% agreed that Prime TC helped them become more efficient, 85% agreed that their on-the-job satisfaction improved with Prime TC, and 98% agreed that they were satisfied with Prime TC.<sup>12</sup>



# The standard of care for hospital stretchers

Stryker Prime is designed with security and efficiency in mind while enhancing the patient experience. Prime is BackSmart. Prime offers three mobility options and unprecedented patient comfort. Patients can adjust their own positions without calling a caregiver for assistance. With a variety of available support surfaces, advanced mobility and electric functionality, Prime has the versatility to meet your stretcher needs.

The Stryker Prime stretcher has a visual simplicity with smooth, rounded, continuous surfaces that feel friendly and touchable. Handles and siderails are curved and cushioned. Controls and icons are big and clear. The patient is in personal contact with the stretcher. The way it looks and the way it feels ... matter.

## Advanced mobility options

Prime Series Stretchers are the solution to various flooring and inclines, heavy patients and long transports. With various mobility options, you will find the solution that best meets your needs.



Prime with Fifth Wheel



Prime with Big Wheel Advanced Mobility



Prime with Zoom Motorised Drive



## Prime Big Wheel Electric Stretcher



### Recovery chair position

Recovery chair helps eliminate the need for unnecessary transfers by providing a comfortable seated position.

### 317.5 kg safe working load

Standard on all Prime Series Stretchers

### Glideaway siderails and patient controls

Glideaway siderails are completely out of the way when lowered for zero-gap transfers. Staggered patient controls allow patients to adjust their position.



### A Chaperone Stretcher Exit System

A two zone alarm helps reduce patient falls<sup>13</sup> by alerting caregivers when a patient attempts to leave the stretcher.

### B Integrated scale

An integrated scale helps reduce the need to move patients by providing an accurate\* weight in both kgs. and lbs<sup>14</sup>.

### C Electric caregiver controls

Powered foot-end controls allow caregivers to safely adjust a patient's position at the touch of a button.

### Electric-powered lift pedal

Electric lift eliminates manual pumping, allowing for quick patient access. Simply step on the hydraulic pedal to raise the litter.

### Big Wheel Advanced Mobility

Big Wheel technology allows caregivers to push and steer the stretcher more easily, compared to a manual fifth wheel stretcher.<sup>8</sup>

### Four-sided brake/steer pedal

Metal brakes on all casters allow for patient security and product longevity. Brake pedals are located on all four sides for quick and easy accessibility.

### BackSmart Lift Assist

BackSmart technology uses the patient's weight to raise the head of the stretcher while the drop seat design helps reduce boosting.<sup>9</sup> Also available as a fully electric option.

\*± 1.3 kg (3 lb.) for weights less than 45 kg (100 lb.) and ±3% for weights greater than or equal to 45 kg (100 lb.) To meet the scale accuracy claim, the patient surface must be in the flat position (Fowler backrest and gatch down), in the highest position, and the product cannot exceed 5 degrees of Trendelenburg/Reverse Trendelenburg.

# Prime Big Wheel with Zoom Motorised Drive

The Prime Series Stretcher with Zoom Motorised Drive System provides an innovative Motorised Drive System that helps reduce strenuous pushing and pulling which can result in caregiver injuries.<sup>10</sup> These features not only increase efficiency but more importantly, contribute to caregivers' back health.<sup>11</sup>



**Zoom Motorised Drive** allows the caregiver to adjust the speed of the stretcher using the drive handles. The maximum speed is 7.24 km/hour in reverse.



**Manual backup switch.** In this mode, the stretcher can still be used manually, functioning similarly to the Prime Big Wheel Stretcher.



**BackSmart Lift Assist**  
Also available as a fully electric option.

**Glideaway siderails**  
with patient controls.

### Advanced Mobility

Zoom Motorised Drive alongside Big Wheel technology helps provide a solution to transporting various sized patients, regardless of flooring or inclines.<sup>10, 15</sup>

### Electric footboard options

- Chaperone Stretcher Exit System
- Integrated Scale
- Caregiver controls

# The Prime solution with X-ray capability

The Prime X X-ray Stretcher is the next generation of Prime Series Stretchers, loaded with all of the features you already love - now, with X-ray capability. Prime X utilises Clearview Technology in a dual-deck design and offers a similar image quality to an x-ray table with the convenience of a mobile platform.<sup>16</sup>



**Easy to raise foot section** offers enhanced cleanability through convenient access to the cassette platform.



**Open cassette platform.** 360 degree access allows positioning of cassettes from head-end to foot-end.



**Clearview Technology Platform**  
Structural foam encased by two layers of ABS composite provides comparable image quality to x-ray tables.<sup>16</sup>

**Integrated scale**  
Provides an accurate\* patient weight in both kg and lb.<sup>14</sup>

### Electric lift

Provides a smooth transition for patients while raising and lowering the stretcher.

### Easy ID

Easily identify Prime X Stretchers by the red ID colour on the handles, siderails, bumpers and accent rings.

## The electric experience makes a difference

Zoom Motorised Drive reduces Rate of Perceived Exertion (RPE), or physical intensity by 42%.<sup>10</sup>

In the six months following the implementation of the Prime Big Wheel Electric Stretcher with Chaperone Stretcher Exit System and in conjunction with a hospital's revised patient fall protocol, **the emergency department experienced no falls.**<sup>13</sup>

According to a survey at a hospital, six months following the implementation of Prime Big Wheel Electric Stretchers, the facility's **staff partnership scores increased by 10%.**<sup>17</sup>

\*± 1.3 kg (3 lb.) for weights less than 45 kg (100 lb.) and ±3% for weights greater than or equal to 45 kg (100 lb.) To meet the scale accuracy claim, the patient surface must be in the flat position (Fowler backrest and gatch down), in the highest position, and the product cannot exceed 5 degrees of Trendelenburg/Reverse Trendelenburg.

# Prime Support Surfaces

Pressure injuries (PIs) can begin in as little as the first two hours<sup>18, 21</sup> of a patient's admittance into the clinical setting. With that in mind, we designed our stretcher surfaces with gel technology to aid in the treatment and prevention of pressure injuries.<sup>20\*</sup>

## The power of gel.

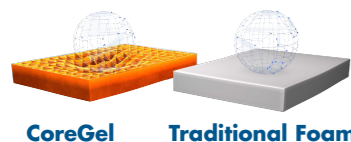
Transforming the standard of stretcher support surfaces.

### Immersion

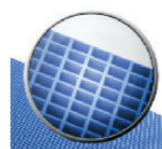
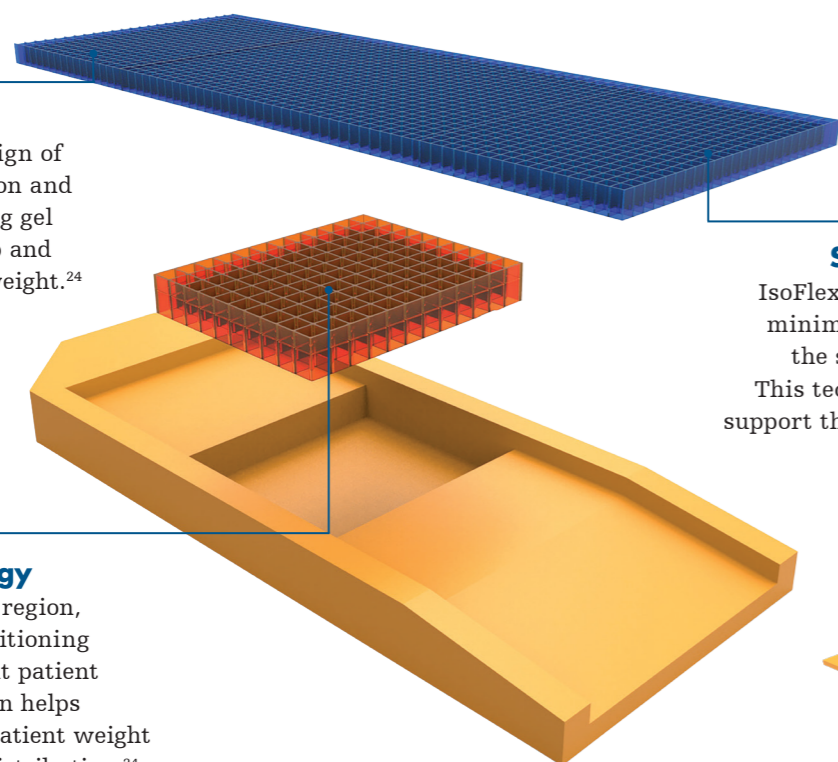
The open column design of gel provides immersion and envelopment, meaning gel can effectively absorb and redistribute patient weight.<sup>24</sup>

### CoreGel Technology

Located in the sacral region, CoreGel creates a positioning pocket to help prevent patient migration. This design helps absorb and disperse patient weight to aid in pressure redistribution.<sup>24</sup>

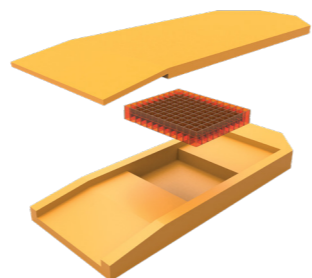


CoreGel Traditional Foam



### ShearGel Technology

IsoFlex SE was designed to help minimise shear forces between the surface and the patient.<sup>20</sup> This technology offers a layer of support that moves freely with the patients' movements.



ComfortGel SE CoreGel

## IsoFlex SE™ Support Surface

### Premium shear management

IsoFlex SE, addresses key risk factors of skin breakdown: pressure and shear.<sup>22</sup> Equipped with ShearGel throughout the entire surface and CoreGel in the sacral region, IsoFlex SE, enhances patient comfort and aids in the treatment and prevention of pressure injuries.<sup>20\*</sup>

- ShearGel Technology
- CoreGel Technology
- Slip resistant bottom
- Durable cover
- Welded seams
- Three sided zipper

## ComfortGel SE™ Support Surface

### Experience gel technology

ComfortGel SE was designed with a layer of CoreGel in the sacral region to help redistribute pressure<sup>24</sup> and enhance patient comfort.

- CoreGel Technology
- Slip resistant bottom
- Durable cover
- Welded seams
- Three sided zipper

## Ultra Comfort SE Support Surface

Ultra Comfort SE is a foam surface that was designed with durability and infection prevention in mind.

- Durable cover
- Welded seams
- Three-sided zipper

### Durability

Our surface cover is made with a polycarbonate/polyurethane material to resist degradation from chemical cleaners.<sup>24</sup>

## Our cover story.

Bringing preventative features to the surface.

### Welded seams

Our covers feature RF welded seams, instead of threads, to help prevent fluid ingress and infiltration.<sup>24</sup>



### Slip-resistant bottom

The surface stays put during patient movement and transfers. Also by removing Velcro, the surface is easier to clean.

### Three-sided zipper

The surface cover opens on three sides to allow the caregiver to inspect the internal components of the surface. This also allows the cover to be easily replaced if needed.

**\$1.8B**

PIs cost the Australian economy approximately **\$1.8 billion** in public healthcare costs and bed days lost annually.<sup>19</sup>

**121K**

Australian public hospitals encounter **over 121 000 pressure injuries** of various stages per year.<sup>19</sup>

**2 hours**

Pressure injuries can rapidly develop in immobile patients in **less than 2 hours**.<sup>18, 21</sup>

**\$938M**

The average extra costs of stay for patients with **hospital-acquired** pressure injuries.<sup>19</sup>

**40%**

PIs are most common in the sacral region, accounting for **40%** of all pressure injuries.<sup>23</sup>

# Prime TC Transport Chair

When it comes to the patient experience, details matter. That is why every touch-point of Prime TC was designed to create a comfortable and welcoming environment that speaks volumes to caregivers, patients and their family members. This investment in the well-being of patients and caregivers tells them you care about their comfort — it tells them that they matter.



### Chrome-plated IV pole

prevents rust. Rather than sharp, exposed hooks, enclosed hooks are located in the circular topper and are available in six colours for department identification.

### Chart holder

allows caregivers to completely focus on the patient and their transport, instead of trying to juggle paperwork and other items. An open concept makes the chart holder easy to clean.

### Upright O<sub>2</sub> tank holder

is in a permanent position that minimises the bending and lifting required to place a heavy O<sub>2</sub> tank underneath the chair.

### Big Wheel manoeuvrability

utilises innovation from Stryker stretchers to help ease cornering and steering of patients.

### One-touch central break

enhances caregiver efficiency and is foot-operated to help reduce bending and reaching. Enclosed mechanics protect the braking system from varying climates.

### BackSmart push handles

allow caregivers to position their elbows at an ergonomic 90-degree angle during transport and accommodate caregivers of virtually any height.

### Stand assist armrests

have a raised and extended touchpoint to encourage nose-over-toes positioning during ingress and egress. Armrests fold back easily for better patient access.

### Flip-up footrests

can be controlled by a foot-operated button which swings footrests back and out of the way to provide closer access to beds, cars or tables.

### Yellow activation points

intuitively indicate which components are actionable for caregivers and family members. In addition, parts are movable, but not removable, to help reduce the likelihood of lost or stolen components.

# Prime Series Accessories

## Flexibility through options.

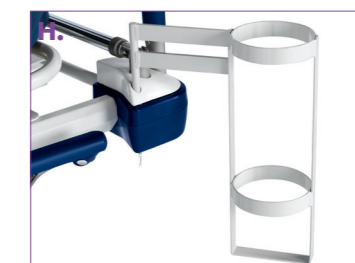
Multiple accessories are available to best configure Stryker Prime Series stretchers to your facility's needs.

### Prime Series accessories

- A.** Defibrillator tray
- B.** Footboard/chartholder
- C.** Defibrillator tray/footboard extender
- D.** Serving tray holder/footboard
- E.** IV caddy
- F.** Serving tray
- G.** Siderail pads
- H.** Upright oxygen bottle holder
- I.** Foot supports
- J.** Patient restraint

### Exclusive to Prime X accessories

- K.** Upright x-ray cassette holder
- L.** Lateral x-ray cassette holder



## Customer support services

### Technical support

Stryker technical support comprises a team of professionals available to help with your Prime needs. Contact via phone at 1 800 667 558 or email at [ssptechservices@stryker.com](mailto:ssptechservices@stryker.com)

### ProCare service from Stryker

Product reliability is just the beginning of the Stryker commitment to lifetime customer satisfaction. Stryker utilises advanced metrics to ensure equipment uptime and assist customers in achieving their patient and caregiver goals.

ProCare service solutions are customisable and scalable to any budget. All ProCare offerings are supported by our talented factory-trained Stryker technicians, ensuring all equipment and documentation is maintained to the highest standards.

All ProCare agreements provide:

- Stryker-authorized service representative
- Stryker-direct factory parts
- Two-hour callback response time
- Fixed service costs up front
- Increased uptime
- 24-72 hour equipment turnaround time\*

\*Based on the provisions of the Service Agreement and the location of the product.

### Flex financial program

Our financial programs provide a range of smart alternatives designed to fit your organisation's needs. We offer flexibility beyond a cash purchase with payment structures that can be customised to meet budgetary needs and help to build long-term financial stability. Contact your account manager for more information.

### References

- % Safe Work Australia, Priority industry snapshot: Health care and social assistance, June 2018
- & Australian Institute of Health and Welfare (2016). Healthy Communities: Overweight and obesity rates across Australia, 2014-15. [online] Australian Institute of Health and Welfare. Available at: <https://www.aihw.gov.au/getmedia/762dea8d-07fb-47c7-8f40-83a3933f66c7/aihw-mhc-hpf-27-Overweight-Obesity-December-2016.pdf.aspx?inline=true>.
- ' " Australian Institute of Health and Welfare, Nursing and midwifery workforce 2015, June 2016
- (" Occupational Safety and Health Administration (OSHA), Worker Safety in Your Hospital brochure.
- ) " Australian Institute of Health and Welfare 2015. Admitted patient care 2013-14: Australian hospital statistics. Health services series no. 60. Cat. no. HSE 156. Canberra: AIHW. \* " Australian Institute of Health and Welfare 2019. Admitted patient care 2017-18: Australian hospital statistics. Health services series no. 90. Cat. no. HSE 225. Canberra: AIHW.
- + " American Nurses Association, Position Statement: Safe Patient Handling Movement. Available at <http://nursingworld.org/DocumentVault/GOVA/Federal/Federal-Issues/SPHM.html>. Accessed July 19, 2017.
- ." Hospital Focuses on Mobility with Big Wheel, 2005
- " Stryker Prime Series Stretcher with Big Wheel and electric lift reduces exertion when lifting the stretcher litter, 2015.
- %&" Zoom Motorized Drive Reduces Perceived Exertion when Transporting Up an Incline, 2013.
- %&" Zoom Motorized Drive Reduces Spinal Loading while Transporting on Carpet, 2013.
- %&" Caregivers Agree that Stryker's Prime TC Transport Chair Increases Staff Satisfaction, 2015.
- % " Penrose hospital reduces patient falls and increases staff satisfaction with Stryker Stretchers, 2013.
- % " Stryker Prime Series Stretchers with scales can provide an accurate and efficient patient weight, 2015.
- % " Stryker Prime Series Stretcher Push Force Test, 2014.
- % " Prime X case study.
- % " Florida Hospital Orlando Increases Patient Satisfaction, 2013.
- % " Stop them at the Door; Should a Pressure Injury Prevention Protocol be Implemented in the Emergency Department, J WOCN, 2010.
- % " Nguyen, K., Chaboyer, W. and Whitty, J. (2015). Pressure injury in Australian public hospitals: a cost-of-illness study. Australian Health Review, 39(3).
- &&" IsoFlex SE Premium Shear Management, 2016.
- &&" Gefen, A. (2008). How Much Time Does it Take to Get a Pressure Ulcer? Integrated Evidence from Human, Animal, and In Vitro Studies. Ostomy Wound Manage,[online] 54(10), pp.26-35. Available at: <https://www.o-wm.com/content/how-much-time-does-it-take-get-a-pressure-ulcer-integrated-evidence-human-animal-and-in-vitro>
- 22. National Pressure Ulcer Advisory Panel and Pan Pacific Pressure Injury Alliance. Prevention and Treatment for Pressure Ulcers: Quick Reference Guide. Emily Haesler (Ed.). Cambridge Media: Osborne Park, Western Australia; 2014.
- &3. Clinical Excellence Commission, 2018, 2017 NSW Pressure Injury Point Prevalence Survey Report (2018), Sydney: Clinical Excellence Commission.
- 24. Data held on file.

A healthcare professional must always rely on his or her own professional clinical judgment when deciding whether to use a particular product when treating a particular patient. Stryker does not dispense medical advice and recommends that healthcare professionals be trained in the use of any particular product before using it.

The information presented is intended to demonstrate the breadth of Stryker product offerings. A healthcare professional must always refer to the package insert, product label and/or instructions for use before using any Stryker product.

Products may not be available in all markets because product availability is subject to the regulatory and/or medical practices in individual markets. Please contact your Stryker representative if you have questions about the availability of Stryker products in your area.

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