

stryker

ProCuity™  
ZMX

Brilliance  
in the ICU



## We've listened...



**2,500,000**

acute care patients who develop a HAPI each year.<sup>1</sup>



**19.6%**

quarterly ICU HAPI rate increase from one RN voluntarily leaving.<sup>4</sup>



**\$20,000 to  
\$151,700**

cost of a single HAPI instance.<sup>3</sup>

Every year in the United States, approximately 2.5 million acute care patients develop a hospital-acquired pressure injury (HAPI).<sup>1</sup> Patients who are elderly, immobile, malnourished, have poor skin quality or have extended hospital stays are at particularly high risk.<sup>2</sup>

In addition to causing substantial patient harm, HAPIs are also responsible for considerable costs to the healthcare system. Estimates in the United States suggest a single instance of HAPI results in a cost ranging from \$20,000 to \$151,700 per stay.<sup>3</sup>

The challenge of preventing HAPIs is exacerbated by the nursing shortage, the continued exodus of nurses from the profession and short tenures. One study showed that on average per quarter in an ICU, a single RN voluntarily leaving leads to a 19.6% increase in the HAPI rate.<sup>4</sup>

With ongoing turnover and a less-experienced workforce,<sup>5</sup> hospital leaders can benefit from strategies beyond standard protocols and procedures to win against HAPIs. They can benefit from tools and support to optimize workflow practices and to train and mentor nurses.<sup>6</sup>

**Read on to learn how Stryker can help.**



...**And** we delivered

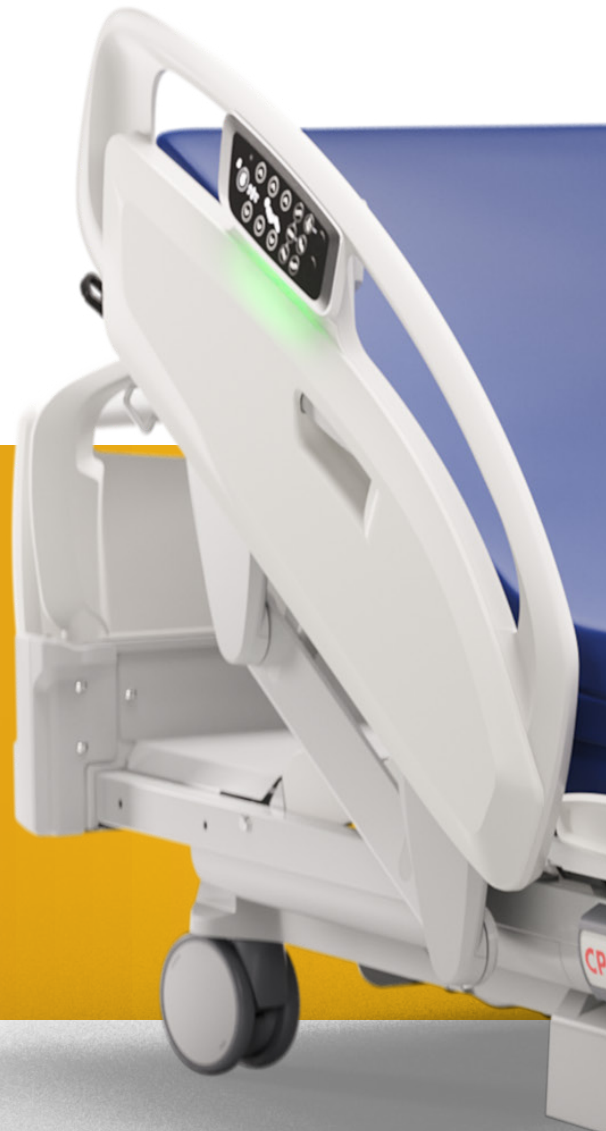
## Brilliance in the ICU

ProCuity ZMX is a smart, connected hospital bed designed to enhance safety and outcomes in the ICU while delivering a better experience for care teams. It integrates with our Isolibrium PE powered support surface to assist in the prevention and treatment of pressure injuries.

**Z is for zoom.** Our Zoom Motorized Drive allows patients to be moved safely and with less staff.

**M is for mattress.** ProCuity ZMX is designed to work with Isolibrium PE, our powered hospital mattress.

**X is for extending** bed capabilities through wireless technology.





## Support protocols for **early mobility** and **pressure injury prevention**



Mobilizing patients in the ICU has been shown to result in decreased pressure injuries and length of stay.<sup>7</sup> ProCuity's frame and powered Isolibrium PE support surface work together to support protocols for early mobility and pressure injury prevention while helping to ease physical strain for the care team.

- Powered Isolibrium PE support surface provides continuous lateral rotation therapy up to 40 degrees\* to assist with early mobility and pulmonary rehabilitation.
- 14-inch low height allows firm footing.
- Stand-assist button helps put the patient in an optimal position to get up, while Isolibrium PE's Max Inflate feature creates a firm surface.
- Stand-assist button and intermediate three-position siderails help the patient get into and out of the bed safely while also supporting caregiver safety.
- Integrated bed extender can stretch 12 inches to maintain a therapeutic surface for taller patients' heels.

\* Depending on patient weight, position and morphology

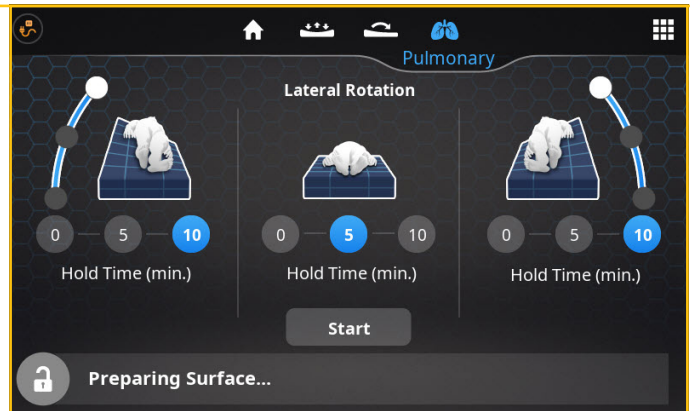


## Intuitive, integrated touch screen

Easily accessible controls on the eight-inch touch screen at the foot of the bed allow management of bed functions supporting early mobility protocols and Isolibrium PE surface functions like pulmonary therapies and skin therapies.

## Lateral rotation

Isolibrium PE provides lateral rotation therapy up to 40 degrees to assist with early mobility protocols and the prevention of pulmonary complications.



## Max inflate

Access the max inflate option within the Pressure screen and set the hold time to create a firm surface for a patient preparing to stand.

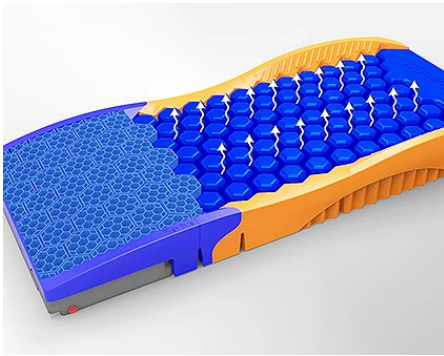
# Own your pressure injury prevention strategy in the ICU

Isolibrium PE is a powered hospital mattress designed to assist in the prevention and treatment of all pressure injuries – stages 1-4, unstageable and deep tissue injury (DTI).



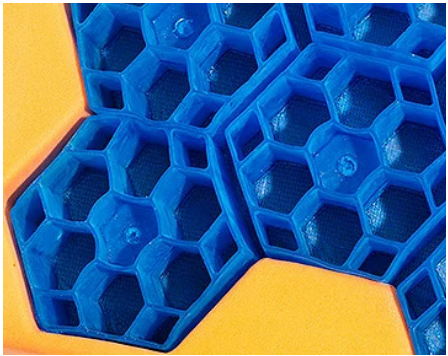
### A. Patient-specific immersion

Unique air pod and zoned sensor technologies automatically adjust pod pressure to help maximize pressure redistribution, taking into account the patient's weight range and frame articulation changes.



### B. Enhanced microclimate

Air channeling technology delivers air toward areas of the patient's skin most vulnerable to breakdown.



### C. HeelGel technology

HeelGel has been designed to specifically address pressure redistribution in the vulnerable heel area by buckling when heel pressure is applied.



# The powered surface **eases patient positioning workflows** with the touch of a screen

## Pressure redistribution

Set the firmness of the surface to soft, medium or firm. Pressure redistribution is customized to the patient's unique weight and positioning. Isolibrium's air pods automatically inflate or deflate to provide maximum pressure distribution and patient comfort.



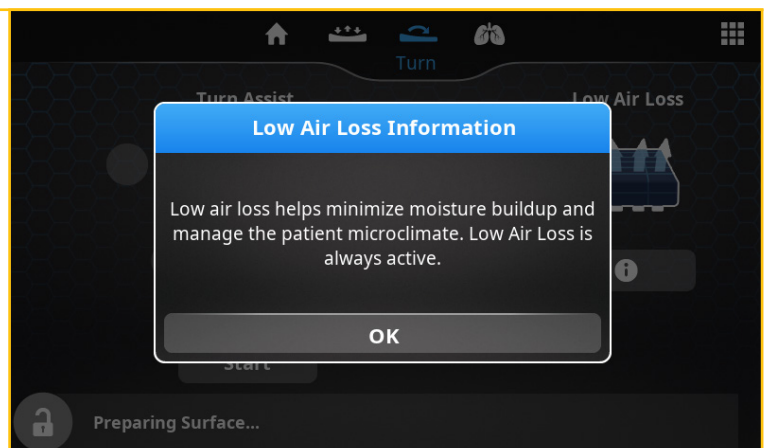
## Turn assist

The turn assist feature rotates up to 30 degrees in both directions to aid nurses performing routine turns and skin checks or assisting a patient out of bed. Air bladders beneath the mattress inflate, allowing the patient to remain on a therapeutic surface throughout the duration of their turn.



## Microclimate management

The low air loss feature circulates air throughout the surface to help manage patient microclimate and reduce risk of skin injury.



# Extend ProCuity ZMX's capabilities through **wireless technology**

Patient care in the ICU can change minute to minute. With smart monitoring of the bed configuration and sharing of bed and surface data, ProCuity helps care teams keep pace.

Through iBed Watch, ProCuity ZMX monitors bed height, head-of-bed angle and siderail configuration. Visual indicators on the footboard and siderail change color when the bed's configuration is out of compliance with parameters set at the bedside.

ProCuity ZMX can send bed and Isolibrium PE surface data via our wireless system to your electronic health record, clinical communication devices, dashboards and more.



**iBed Watch indicators will show if the bed configuration is out of compliance.**



**Visual indicator on siderail will show if a patient is above recommended 30-degree angle.**

## **Bring care teams together** around the patient in the ICU

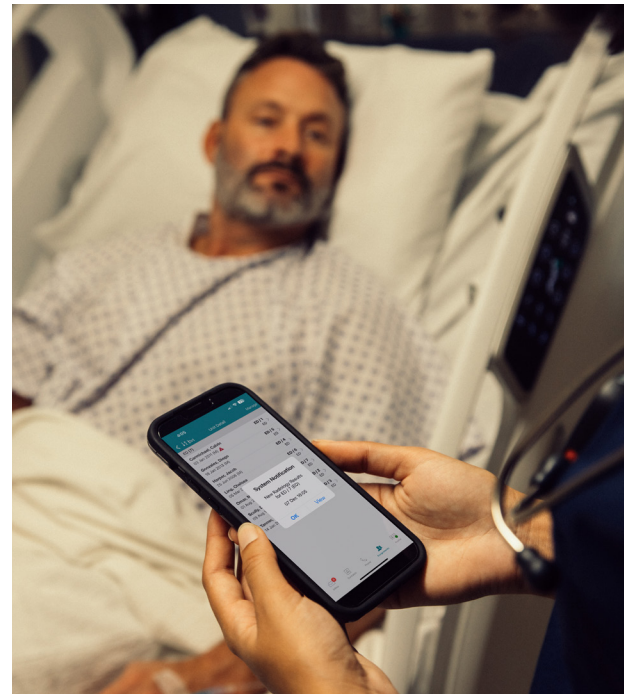
In the complex and dynamic ICU environment, effective interdisciplinary communication is critical.<sup>8</sup>

As you work to drive quality patient care in an environment where almost nothing stands still, we're right there with you.

This is why we created Dynamic Clinical Workflow. It's an adaptable, scalable way to bring together the people and information you need to deliver quality patient care.

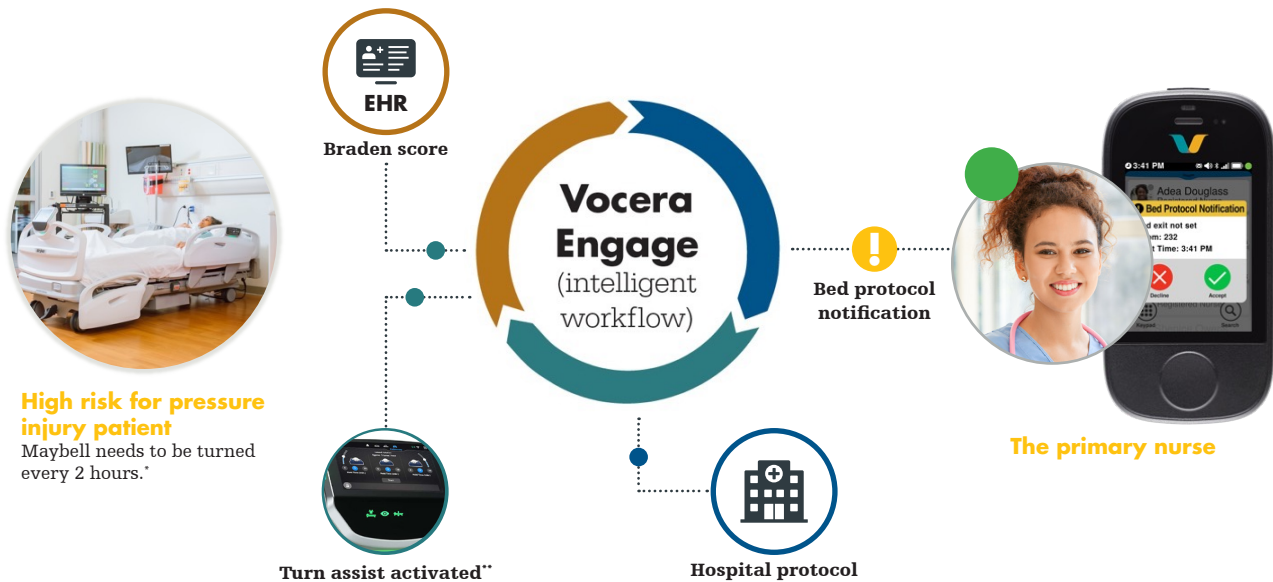
Leveraging the power of our enterprise workflow platform, Dynamic Clinical Workflow enables care teams to manage workflow around the patient, bring patient and event context into conversations and workflows, and collaborate quickly and effectively.

When Vocera Engage, our intelligent middleware, is integrated with ProCuity ZMX via our wireless system, bed protocol notifications can be sent to the right care team member almost instantly on the communication device that fits their workflow.\*



\*Capabilities are based on your facility's protocols and technology configuration.

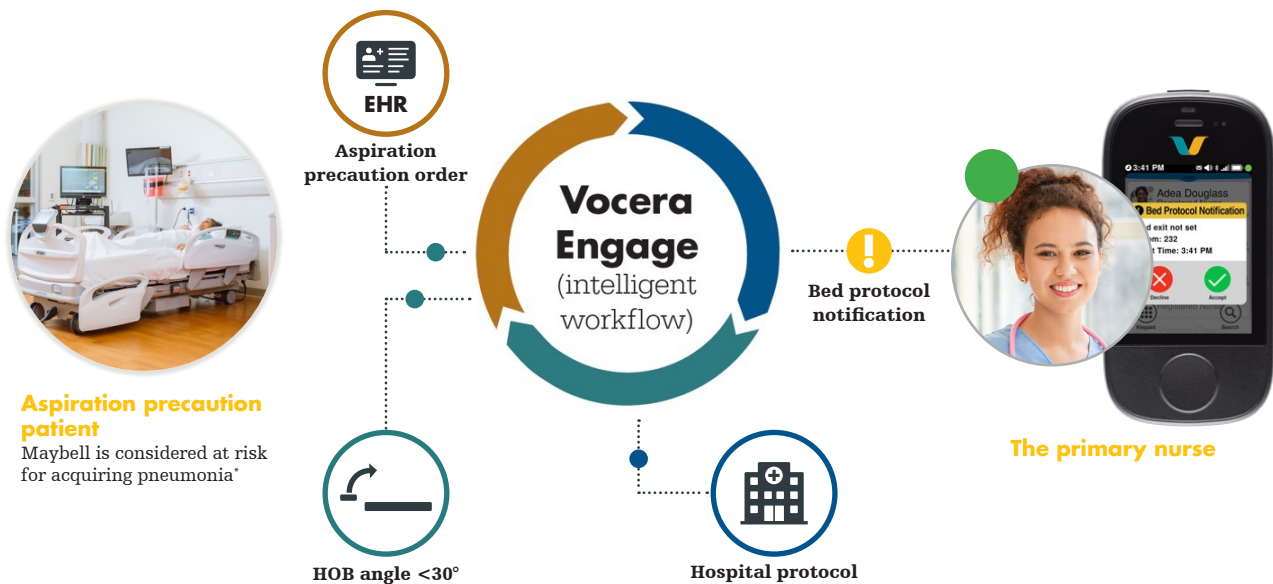
## Bed protocol notification for turn therapy workflow example



Notifications reminding the nurse to turn the patient or to address a mattress that's not fully inflated help support protocol management for pressure injury prevention.

\*Patient is in a ProCuity bed with Isolobrium PE surface. \*\*Patient presence must be detected. Available in US and Canada.

## Bed protocol notification about aspiration precautions workflow example



Notifications about a change to the head-of-bed angle help support protocols for to aspiration precautions.

\*Patient presence must be detected. Available in US and Canada.



# Receive ongoing clinical support and insights through **data-driven partnership**

As today's healthcare landscape continues to evolve, frontline healthcare professionals are taking on more responsibilities amid ongoing turnover and a less-experienced workforce.<sup>4,5</sup> At Stryker, we recognize the strain these challenges place on care teams and their potential impact on patient outcomes.

ProClinical provides clinical experts that help prioritize your people, elevate your products, optimize your processes and leverage timely data for a comprehensive approach to drive better patient outcomes.

If you have challenges with hospital-acquired pressure injuries (or other measurable aspects of clinical process) in your environment, we can help.

## Here's how it works:



### **Collaborate to develop goals**

First, we work together to understand your unique challenges, share successful strategies and best practices for your consideration and establish measurable goals.



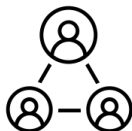
### **Review protocols and practices**

Next, we execute our scheduled visits and perform ongoing comprehensive assessments of your facility and workflow practices.



### **Analyze data and identify insights**

Then, we generate customized reports with key insights for action planning using our advanced analytics and comprehensive dashboard.



### **Implement an action plan**

In partnership with key stakeholders, we deliver targeted, data-driven interventions to areas with the greatest opportunity.



### **Support long-term success**

Our goal is to create sustainable changes that improve patient care and create a tangible culture of quality and safety.

Our financial guarantee

# Reduce HAPIs by 30%. Guaranteed.\*



Stryker's HAPI Financial Guarantee: Stryker guarantees participating facilities a 30% reduction of HAPIs (Stages 3, 4, unstageable, DTI) for patients using the Stryker IsoTour, IsoFlex LAL, Stryker IsoAir or Stryker Isolibrium support surface, for a guaranteed period.\*

\*Facility must meet eligibility requirements as outlined in the HAPI Reduction contract. Must include advanced clinical hours. The guarantee is subject to the terms and conditions set forth in the HAPI guarantee contract.

## Supporting pressure injury prevention while easing the work of the care team

ProCuity ZMX is a smart, connected hospital bed system designed to enhance safety and outcomes in the ICU while delivering a better experience for care teams. It's packed with features that support early mobility and pressure injury prevention protocols.

Isolibrium PE is a powered hospital mattress designed to assist in the prevention and treatment of all pressure injuries. It integrates into our ProCuity ZMX frame to provide powered support for turning patients, pressure redistribution, lateral rotation and more.

Through our wireless system, ProCuity ZMX can send bed and surface data to your electronic health record, clinical communication devices, dashboards and more. When Vocera Engage, our intelligent middleware, is integrated with ProCuity ZMX, bed protocol notifications can be sent to the right care team member almost instantly as part of Dynamic Clinical Workflow.

Our ProClinical outcome based solutions help you set goals and implement an action plan to get the most from state-of-the-art products, optimize processes and be positioned for long-term success.

To learn more about Stryker's products and solutions for preventing and treating hospital-acquired pressure injuries, contact your account manager or visit [stryker.com/us/en/acute-care/products/procuity-icu](https://stryker.com/us/en/acute-care/products/procuity-icu).



## Customer Support Services

### Technical Support

Our Technical Support comprises a team of professionals available to help with your ProCuity needs. Contact via phone at 1 800 STRYKER or email at [medicaltechnicalsupport@stryker.com](mailto:medicaltechnicalsupport@stryker.com)

### Stryker's ProCare Services

Every day, you count on your medical equipment to perform at its best. With ProCare Services, our people help to ensure your equipment is ready to perform when it's needed and make it easier to get the most from your investment. When an issue arises, we promise that we'll solve it — performing repairs quickly and correctly. ProCare isn't just a service program. It's a partnership you can count on to give you one less thing to worry about, and one more reason to feel confident you're doing all you can for your clinicians, staff and patients.

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 organization's needs. We offer flexibility beyond a cash purchase with payment structures that can be customized to meet budgetary needs and help to build long-term financial stability. Contact your account manager for more information.

**References** 1. Padula WV, Delarmente BA. The national cost of hospital-acquired pressure injuries in the United States. *International wound journal*. 2019 Jun;16(3):634- 40. Retrieved May 16, 2024. 2. Kayser SA, VanGilder CA, Lachenbruch C. Predictors of superficial and severe hospital-acquired pressure injuries: A cross-sectional study using the International Pressure Ulcer Prevalence™ survey. *International journal of nursing studies*. 2019 Jan 1;89:46-52. Retrieved May 16, 2024. 3. Agency for Healthcare Research and Quality, Rockville, MD. Are we ready for this change? Last reviewed October 2014. Retrieved May 16, 2024. 4. Peng D, Ye Y, et al. *Journal of Operations Management*. The impact of nurse staffing on turnover and quality: An empirical examination of nursing care within hospital units. March 26, 2023. Retrieved May 16, 2024. 5. Intensive care unit nurse demographics and statistics in the US. [www.zippia.com](http://www.zippia.com). Retrieved May 16, 2024. 6. Maass A, Dundalow JL. Case study: Quality Improvement Using Support Surfaces Effectively Decreases the Incidence of Hospital-Acquired Pressure Injuries. <https://view.stryker.com/viewer/664646c192d58daa8e14d558>. Retrieved May 17, 2024. 7. Vollman KM, Correll-Yoder N, et al. Early and Progressive Mobility in the ICU: A Balanced Approach to Improve Outcomes for Both Patients and Staff. *J Nurs Care Qual*. 2024 Jan-Mar 01;39(1):7-9. doi: 10.1097/NCQ.0000000000000722. Epub 2023 Jun 2. PMID: 37267114; PMCID: PMC10655907. Retrieved May 17, 2024. 8. Diaz CM, Egide A, Berry A, et al. Defining conditions for effective interdisciplinary care team communication in an open surgical intensive care unit: a qualitative study. *BMJ Open* 2023;13:e075470. doi: 10.1136/bmjopen-2023-075470. Retrieved May 17, 2024.

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