



Continuous Skin Monitoring

Helping clinicians improve patient safety.

The problem of pressure injuries

Despite increased awareness and ongoing prevention efforts, pressure injuries in clinical settings remain a common problem¹. Medicare no longer covers the cost of hospital-acquired ulcers, so it's more important than ever to institute a diligent, and effective pressure ulcer prevention strategy.

One factor in an appropriate strategy for the prevention of pressure ulcers² is a knowledge-based patient turn regimen that effectively relieves the localized pressure **before** the skin's integrity is breached, and the wound begins to form. But without the ability to see where those pressures exist, there is no way to know for sure how best to adjust the patient's position, or whether the patient move has relieved the elevated pressure and allowed the tissue to re-oxygenate.

ForeSite PT

ForeSite PT is a continuous skin monitoring solution that is the key to proactive patient positioning and prevention of injury. Powered by XSENSOR's Intelligent Dynamic Sensing, with high-resolution pressure visualization, rich data and AI-powered analysis, ForeSite PT helps clinicians improve patient safety by:

- Continuously monitoring skin pressure exposure.
- Individualizing care using visual risk information and confirmation of safe offloading.
- Using AI-powered algorithms that inform advanced prevention strategies to maintain healthy skin for at-risk patients.

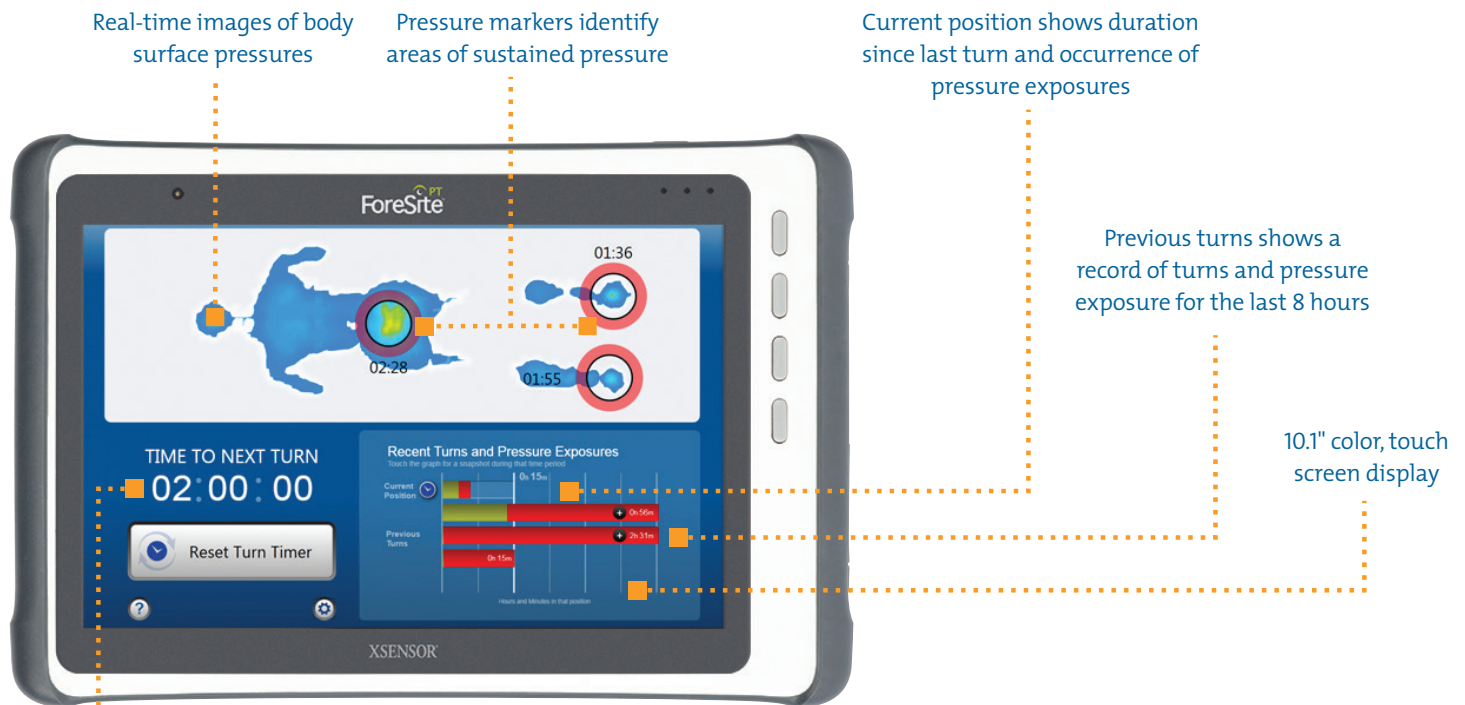
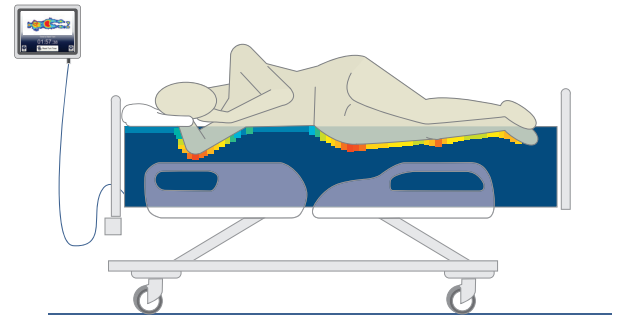
Visual, easy-to-understand pressure images generated by ForeSite PT identify areas that are experiencing elevated pressures, giving clinicians and patients information they need to make body position adjustments before pressure injuries occur.

1. Lyder, C. Pressure Ulcer Prevention and Management, *JAMA* [serial online] 2003; 289(2):223-226

2. Reddy, M, Gill S, Rochon, P. Preventing Pressure Ulcers: A Systematic Review, *JAMA* [serial online] 2006; 296(8):974-984

How it works

The ForeSite PT system consists of a fitted mattress cover embedded with thousands of sensor cells that continuously measure the patient's body surface pressures, and a touch screen monitor that displays real-time images of elevated pressures. ForeSite PT's software displays pressure markers that clearly identify areas of the body that have been under sustained pressure. The patient turn clock tracks the time since the last repositioning, visually notifying the clinician that it's time to adjust the patient's body position. The recent turns and pressure exposure screen allows caregivers to see at a glance the history of the patient and if their turn strategy needs to be modified.



Real-time images of body surface pressures

Pressure markers identify areas of sustained pressure

Current position shows duration since last turn and occurrence of pressure exposures

Previous turns shows a record of turns and pressure exposure for the last 8 hours

10.1" color, touch screen display

Patient turn clock notifies caregiver that repositioning is due

Sensor has over 6,000 flexible pressure cells

Disinfectable sensor easily fits most hospital mattresses



SPECIFICATIONS

SENSOR

Sensor Array: 52 x 118
Sensing Area: 30" x 74"
Sensor Resolution: 0.625"
Pressure Range: 5 mmHg to 200 mmHg
Pressure Resolution: 1 mmHg
Accuracy: +/-2 mmHg
Hysteresis Error: 8%
Sampling Rate: 1 frame per second

DISPLAY TERMINAL

Display Size: 10.1" (26cm) display
Resolution: 1200 x 800 pixels
Weight: 2.6 lbs (1.2 kg)
Power Input: 12 VDC
Note: use only with approved power supply

SENSOR ELECTRONICS

Dimensions: 2.7" x 7" x 0.9"
Weight: 0.5 lbs
Input Power: USB, 5V +/-10%
Power Consumption: 2W
Operating Temperature: 50° to 104°F
Relative Humidity: 10- 80% @88°F decreasing linearly to 50% at 104°F

SYSTEM

Risk Management: EN ISO 14971
Electrical/Mechanical Safety: UL 60601-1:2003 CAN/CSA C22.2 No. 601.1-M90 including update No. 2-2003
Electromagnetic Compatibility: IEC 60601-1-2:2007 (Ed. 3.0) Biocompatibility: ISO 10993-1



About ForeSite

XSENSOR's ForeSite continuous skin monitoring systems assist clinicians in reducing risk of pressure injury for perioperative or hospital bed patients, and wheelchair users. ForeSite tracks persistent pressure to the precise location on patients body and analyzes data to allow clinicians to individualize care and reduce risk of pressure injury.



About XSENSOR

XSENSOR develops intelligent dynamic sensing technology to improve safety, performance, and comfort.

XSENSOR® Technology Corporation

XSENSOR Technology Corporation
133 12 AVE SE
Calgary, Alberta T2G 0Z9
Canada

www.xsensor.com
sales@xsensor.com
1-403-266-6612
Toll-Free: 1-866-927-5222