

# PPSGlide Lateral Air Transfer System TIP Averages Remain Consistent



Medical

## Situation

Recent Safe Patient Handling legislations have focused attention on reducing back injuries in the nursing industry. The **PPSGlide** offers an ergonomic solution to help with this problem while nurses laterally transfer patients. The Glide system includes a mat that is placed under the patient. Tissue interface pressure (TIP) readings were evaluated to aid healthcare facilities in determining whether or not to leave the mat under the patient.

## Methodology

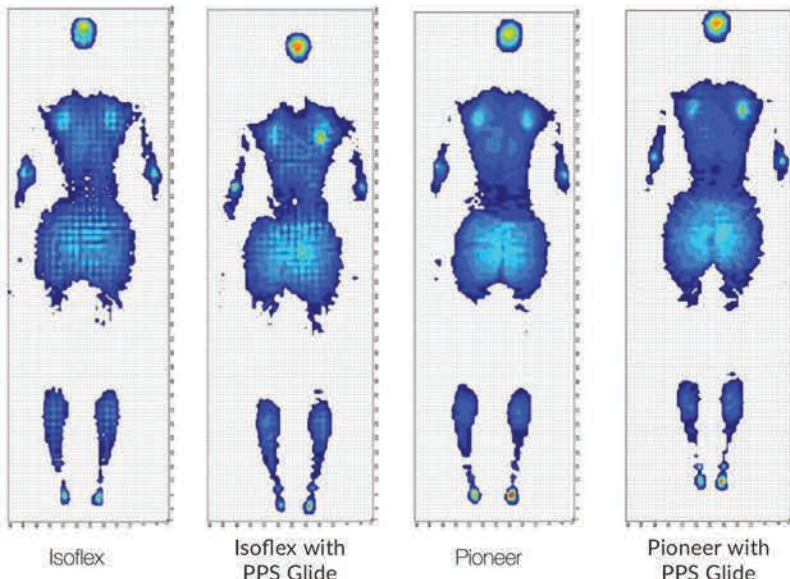
A third-party facility conducted tissue interface pressure mapping using XSENSOR™ pressure mapping system on one bed surface, Isoflex® Pressure Redistribution, and one stretcher surface, Pioneer® Pressure Redistribution. The surfaces were placed on a sturdy laboratory table. The first scan was completed with the subject lying directly on the surface. The second scan was completed by placing a deflated **PPSGlide** mat on the surface with the patient lying on top. An average size adult was used for the analysis examining three critical zones: scapula, sacrum and heel. The subject was dressed in an appropriate size cotton sweat suit and without shoes to ensure optimum contact with the full surface sensor matrix.

## Conclusion

No significant increases in TIP averages were seen when comparing the Isoflex to the Isoflex with **PPSGlide**, or when comparing the Pioneer stretcher mattress to the Pioneer with **PPSGlide**.

## Results

TIP averages are listed to the right; the pressure mappings are below.



**Surface Dimensions**

- Isoflex Pressure Redistribution/Shear Management  
84" x 35" x 6"
- Pioneer Pressure Redistribution Surface  
76" x 30" x 5"
- PPS Glide Lateral Air Transfer Mat  
78" x 32"

**Subject Description**  
Height: 5'6"  
Weight: 150 lbs.

Tissue Interface Pressure (TIP) Averages (in mmHg)

	Isoflex	Isoflex & PPS Glide	Pioneer	Pioneer & PPS Glide
Shoulder	21	20	18	18
Sacrum	24	19	28	28
Heel	21	21	21	21

Pressure Mapping Scale (in mmHg)



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