

Sedens 500

Seat Cushion with Battery Power

Pressure Mapping



Pressure Mapping of Sedens 500

“Use a pressure redistribution cushion for preventing pressure injuries in people at high risk who are seated in a chair/wheelchair for prolonged periods, particularly if the individual is unable to perform pressure relieving maneuvers”¹

Pressure Area Index (PAI) is used as an indicator to evaluate the performance of Sedens 500 under different therapy modes. The index is generated from the pressure mapping system.

Equipment Used: The XSENSOR X3 Display Medical Mattress System

Software Used: Xsensor X3 medical V6

User Weight: 60 Kg

Method: Each test is conducted over a 20-minute period during which the average, peak and minimum pressures are recorded.

Pressure Area Index (PAI): This is a method used to measure the interface pressure of the surface. The PAI is calculated as the proportion of sensors that register interface pressures values.²

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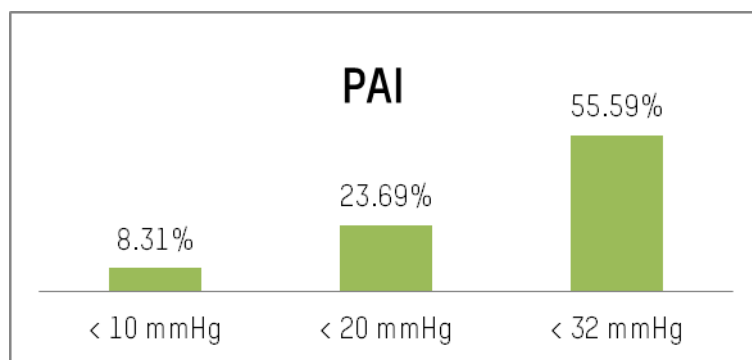
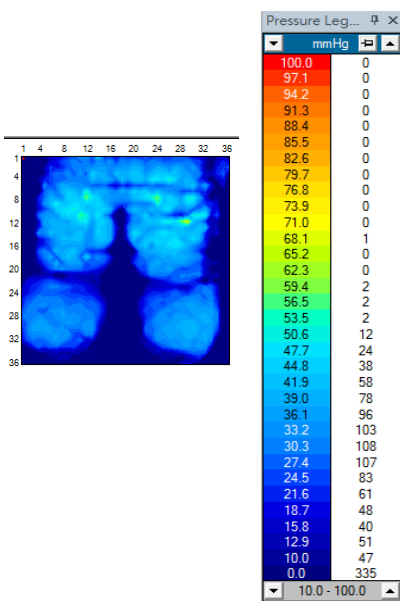


Product therapy modes

Alternating Mode

“Assess the relative benefits of using an alternating pressure air cushion for supporting pressure injury healing in individuals who are seated in a chair/wheelchair for prolonged periods, particularly if the individual is unable to perform pressure relieving maneuvers.”³

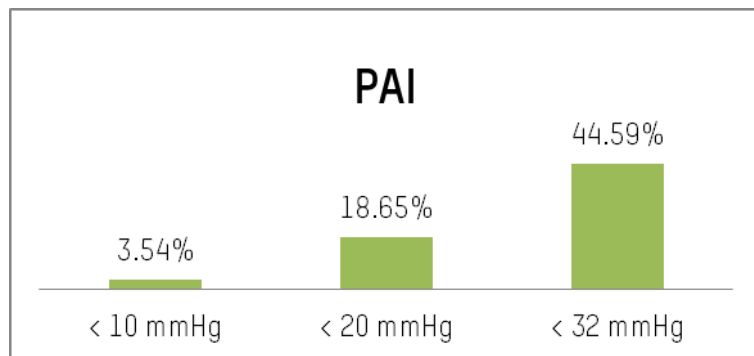
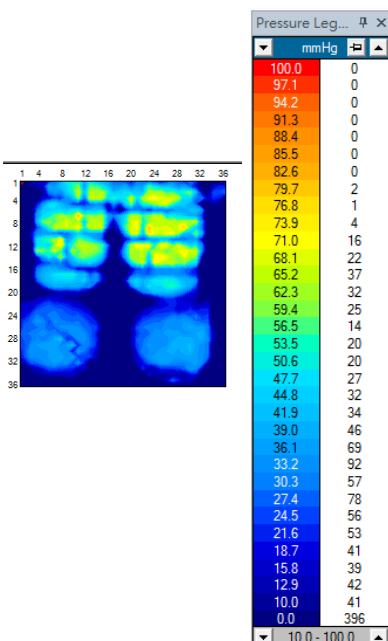
Sedens 500 offers an alternating mode (1-in-2 alternating) and alternately inflates and deflates air cells allowing pressure redistribution and encourage tissue reperfusion.



PAI: Almost 10% of the surface area is lower than 10 mmHg, more than 20% of that is under 20 mmHg and nearly 55% of which is below 32 mmHg.

Continuous Low Pressure (CLP)

Sedens 500 provides a constant static surface in lower pressure with a greater contact area for patients to be immersed and enveloped better.



PAI: Almost 20% of the surface area is under 20 mmHg and nearly 45% of which is below 32 mmHg.

References:

1. National Pressure Ulcer Advisory Panel, European Pressure Ulcer Advisory Panel and Pan Pacific Pressure Injury Alliance: Prevention and Treatment of Pressure Ulcers: Clinical Practice Guideline. (2019). Perth, Australia: Cambridge Media. Section 10:Support Surfaces: Recommendation 7.12. Page 173.
2. Kenney L , Rithalia SVS . 1999. Mattress & bed resource file: assessment of support surfaces. J Wound Care (Suppl) ;Part 2: 1-8.
3. National Pressure Ulcer Advisory Panel, European Pressure Ulcer Advisory Panel and Pan Pacific Pressure Injury Alliance: Prevention and Treatment of Pressure Ulcers: Clinical Practice Guideline. (2019). Perth, Australia: Cambridge Media. Section 10 : Support Surfaces: Recommendation 7.13. Page 173

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