

Pressure Mapping



Pressure mapping is a specialised measurement technology used to measure and visualize the contact pressure distribution between the human body and a supporting surface and equipment interface, e.g. person, chair or sling. Care & Independence commission independent pressure mapping experts to conduct such trials to ascertain sling performance and help identify areas of risk. The subsequent scientific data insight has enabled Care & Independence to develop solutions and vastly improve upon the areas which indicate tissue viability risks, pain or other health concerns to the equipment user.

115

RESULTS FOR GLOVE™ POWERSILK (GPS)

The GLOVE™ Powersilk is purposely designed for use with a moulded chair wherein pressure-relieving cushions are often additionally used for added comfort. The data demonstrates there is no detrimental effect to the user when the GLOVE™ Powersilk is used in conjunction.

78

In the baseline mapping tests where the subject was sat clothed direct upon both cushion types, a clear low pressure result was returned as indicated by the expanse of blue colouring. [Fig. 1 & 2]

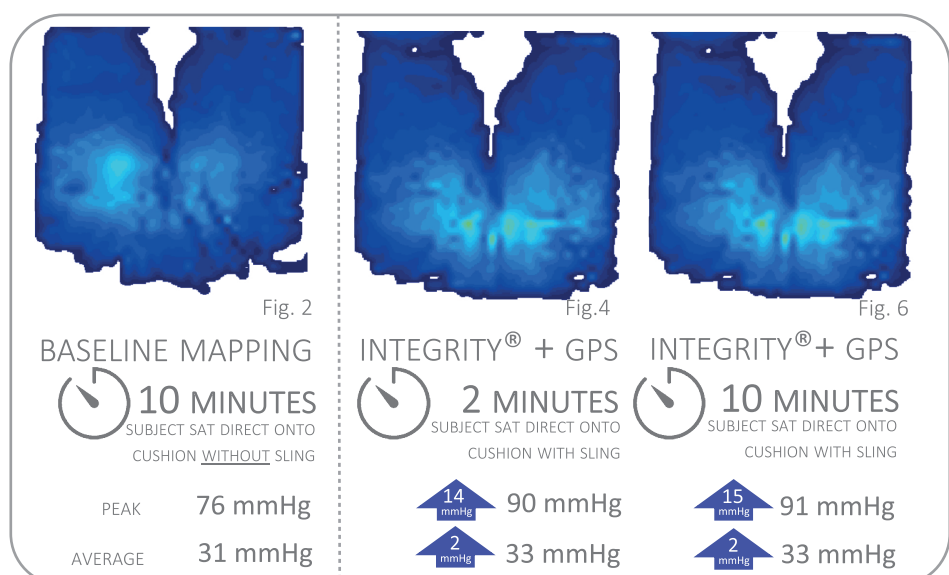
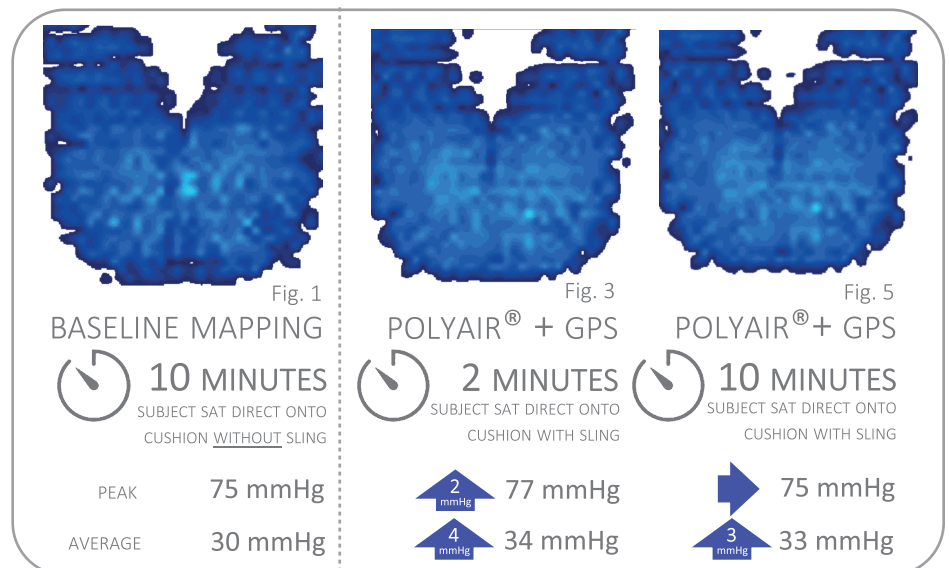
For both cushion types, the two minute test shows a slight increase in mmHg pressure but as can be clearly seen from the colour maps, this still **remains comfortably in the blue low pressure zone**. [Fig. 3 & 4]

After the ten minute seating test with the Polyair®/GPS combination, the **peak pressure recorded is the same as the baseline pressure result**. The ten minute GPS/Integrity® combination results [Fig. 6] show **peak pressure has only increased by just 1mmHg** compared to the GPS/Integrity® combination two minute result. [Fig. 5]

42

MmHg* scale

5



MEDICAL CUSHION TYPE:

1. PolyAir® comfort cushion
2. Sumed Integrity® Static High Risk

SUBJECT: Male, 5'6", 82.5kg

DATE OF TEST: April 2021

TESTER: Sumed International (UK) Ltd

*mmHg stands for millimetres of mercury and is used as a pressure measurement