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.

RESULTS FOR GLOVE™ AIRFLOW (GAIR)

As with all our pressure mapping test results, the Polyair® cushion is the better performing cushion when a GLOVE™ in-chair style is added into the mix. However the high air permeability and pressure-reducing fabric benefits of the GLOVE™ Airflow sling is clearly evident in the test results for the Integrity® cushion too.

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]

In the two minute seating test [Fig. 3 & 4], the pressure performance on both cushions with the addition of the **GLOVE™ Airflow** sling return results that are either **the same or better average** than the baseline test results.

A ten minute seating test returns similar results [Fig. 5 & 6] but with the Polyair®/GAIR combination showing a **further enhanced pressure reduction** on both two minute and baseline results.

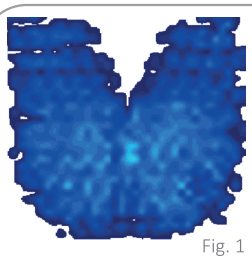

Fig. 1

BASELINE MAPPING

10 MINUTES

SUBJECT SAT DIRECT ONTO CUSHION WITHOUT SLING

PEAK	75 mmHg
AVERAGE	30 mmHg

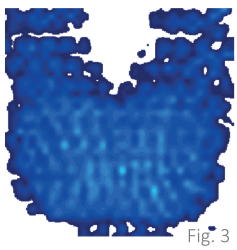

Fig. 3

POLYAIR® + GAIR

2 MINUTES

SUBJECT SAT DIRECT ONTO CUSHION WITH SLING

PEAK	↓1 mmHg 74 mmHg
AVERAGE	↓1 mmHg 29 mmHg

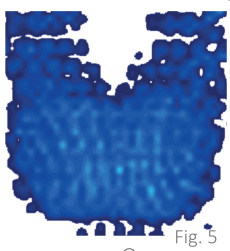

Fig. 5

POLYAIR®+ GAIR

10 MINUTES

SUBJECT SAT DIRECT ONTO CUSHION WITH SLING

PEAK	↓5 mmHg 70 mmHg
AVERAGE	↓2 mmHg 28 mmHg

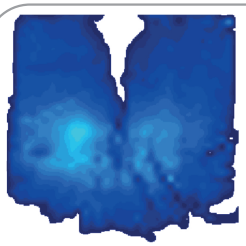

Fig. 2

BASELINE MAPPING

10 MINUTES

SUBJECT SAT DIRECT ONTO CUSHION WITHOUT SLING

PEAK	76 mmHg
AVERAGE	31 mmHg

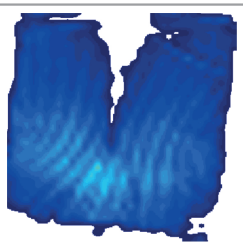

Fig.4

INTEGRITY® + GAIR

2 MINUTES

SUBJECT SAT DIRECT ONTO CUSHION WITH SLING

PEAK	↑5 mmHg 81 mmHg
AVERAGE	→ 31 mmHg

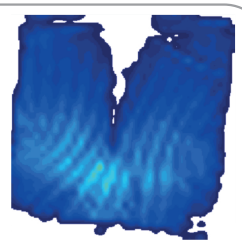

Fig. 6

INTEGRITY®+ GAIR

10 MINUTES

SUBJECT SAT DIRECT ONTO CUSHION WITH SLING

PEAK	↑11 mmHg 87 mmHg
AVERAGE	↑1 mmHg 32 mmHg

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*

MmHg* scale
151
115
78
42
5

FLY/PMAPGAIR-EN01