Does EasyShift™ increase pressure under the patient?

How does the EasyShift™ Overlay affect envelopment and pressure redistribution of the existing mattress?

HillRom™ Air Elite Synergy™ Mattress
Comparing With and Without EasyShift™
Using TekScan™ HMER3 Body Pressure Mapping System

May 17, 2021

By Sam Fox, Chief Engineer
Seneca Devices, Inc.

Healthy Patient Volunteer #1

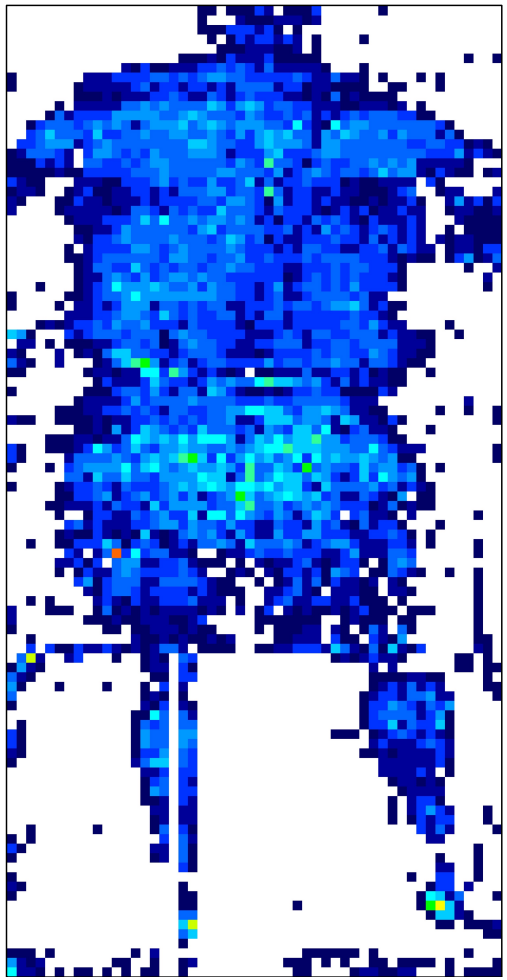
Weight: 375 lbs
Measurements taken with mattress at 4 different firmness levels (4, 6, 8, and Auto-Firm)

Patient Weight: 375 lbs
Mattress Firm Level 4

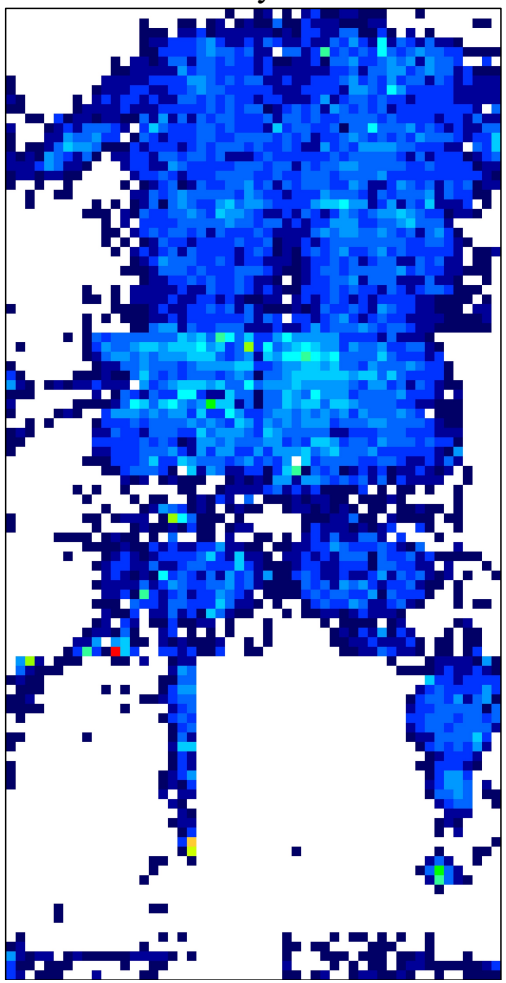
Darker colors represent lower pressure.

Lighter colors represent higher pressure.

Without EasyShift™



With EasyShift™

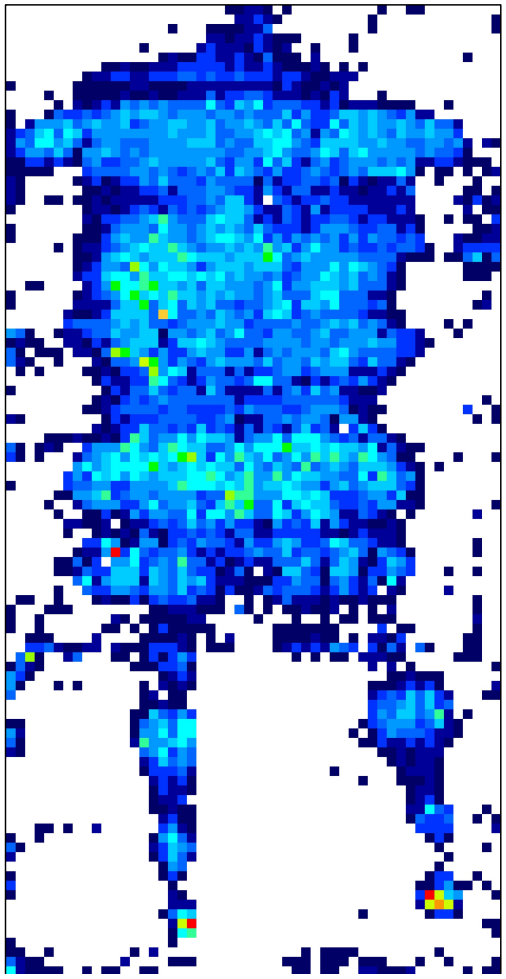


Patient Weight: 375 lbs
Mattress Firm Level 6

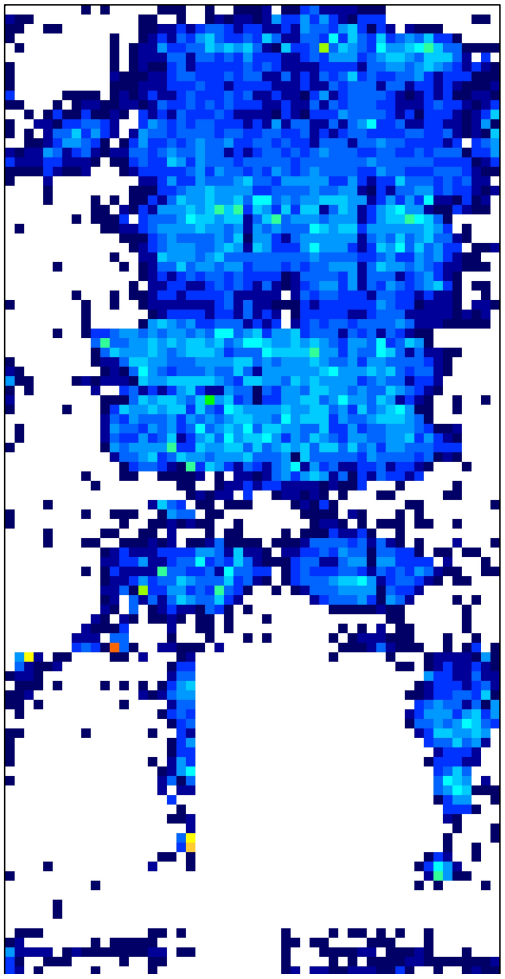
Darker colors represent lower pressure.

Lighter colors represent higher pressure.

Without EasyShift™



With EasyShift™

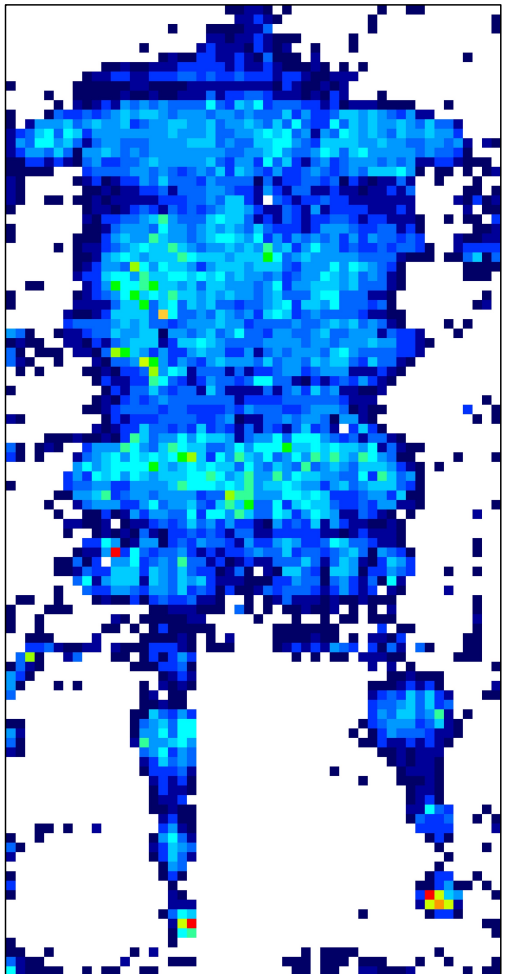


Patient Weight: 375 lbs
Mattress Firm Level 6

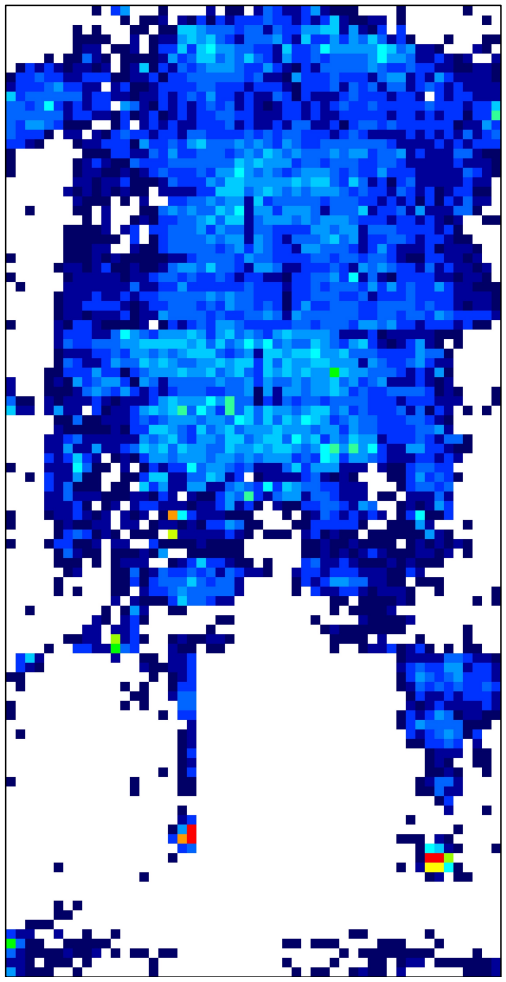
Darker colors represent lower pressure.

Lighter colors represent higher pressure.

Without EasyShift™



With EasyShift™ Support Hold

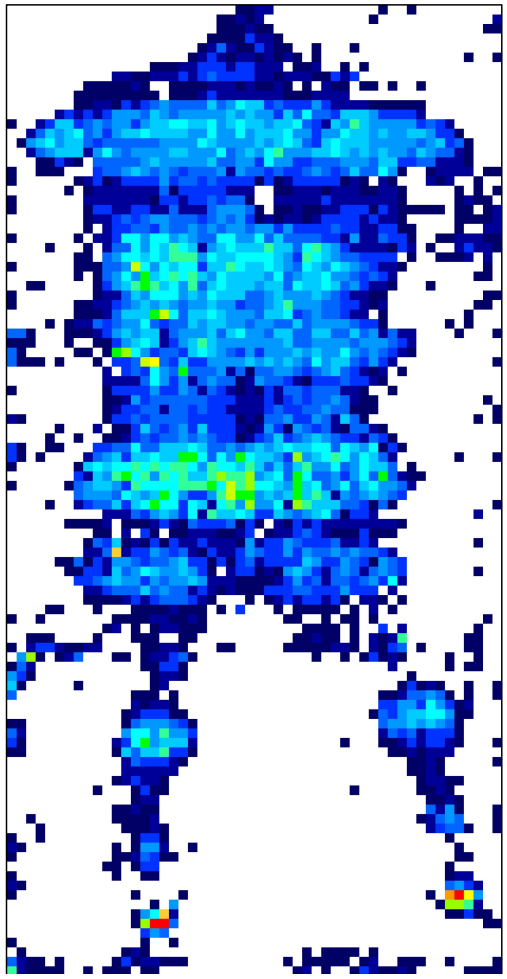


Patient Weight: 375 lbs
Mattress Firm Level 8

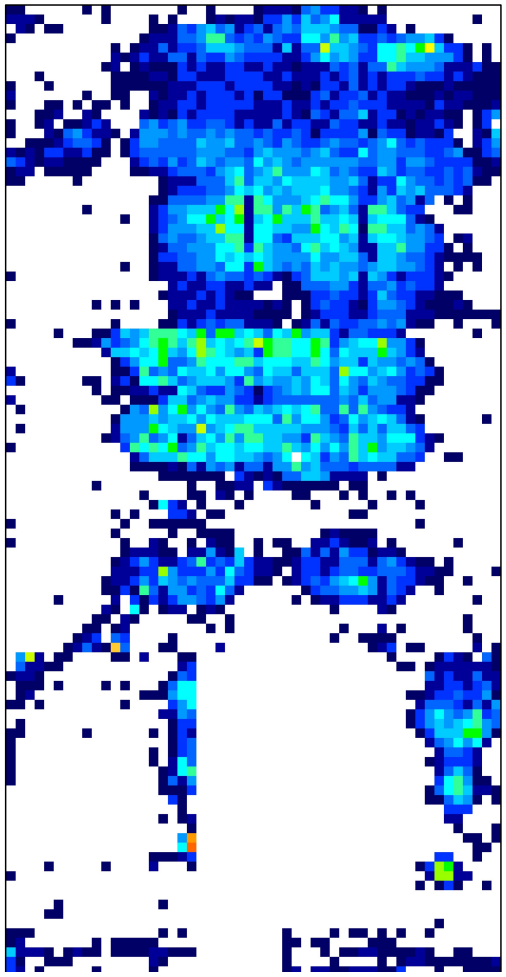
Darker colors represent lower pressure.

Lighter colors represent higher pressure.

Without EasyShift™



With EasyShift™

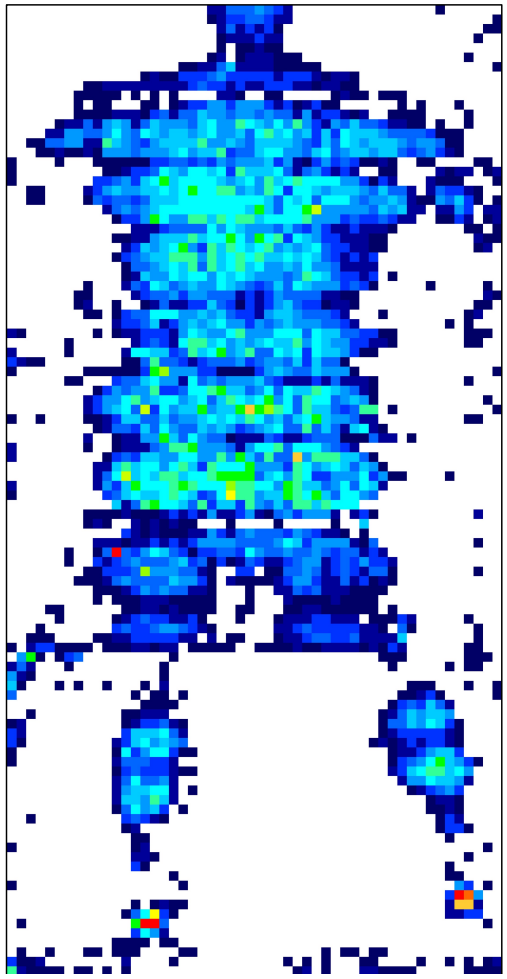


Patient Weight: 375 lbs
Mattress Firm Level Auto Firm

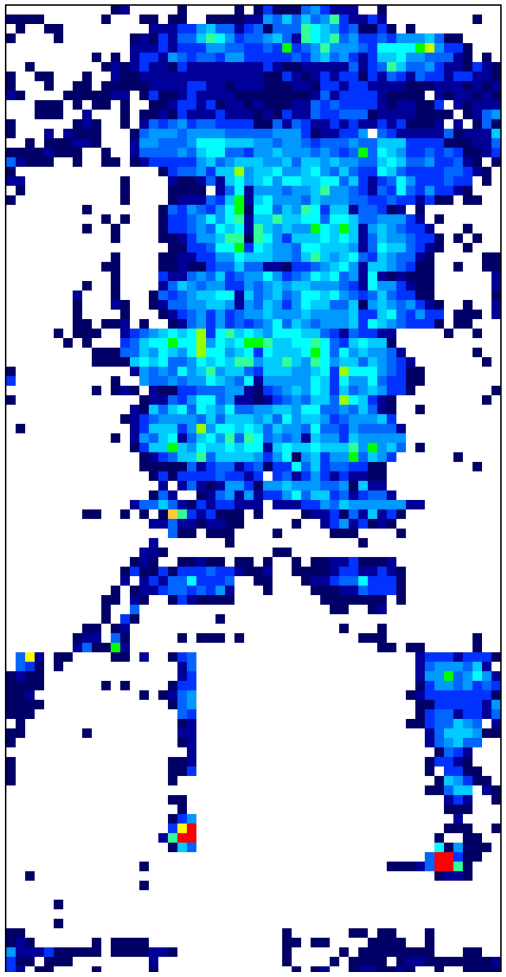
Darker colors represent lower pressure.

Lighter colors represent higher pressure.

Without EasyShift™



With EasyShift™

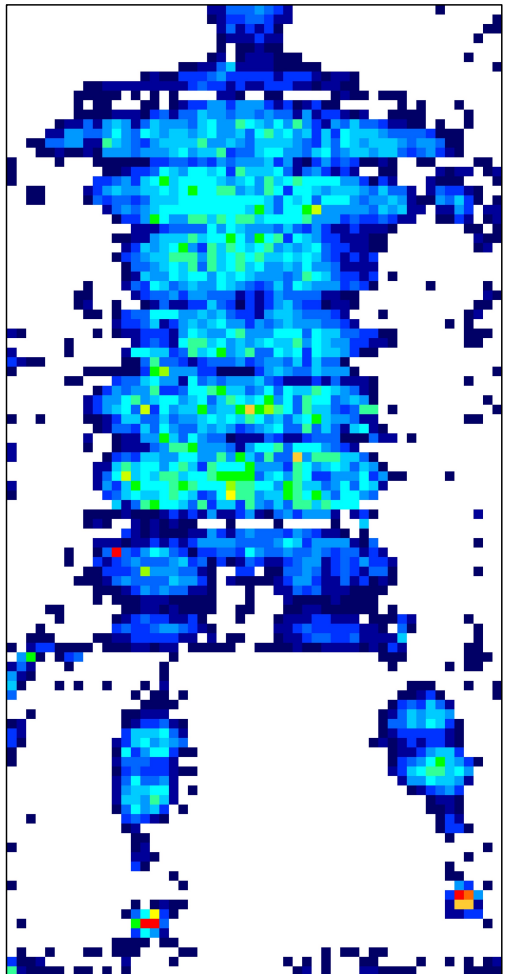


Patient Weight: 375 lbs
Mattress Firm Level Auto Firm

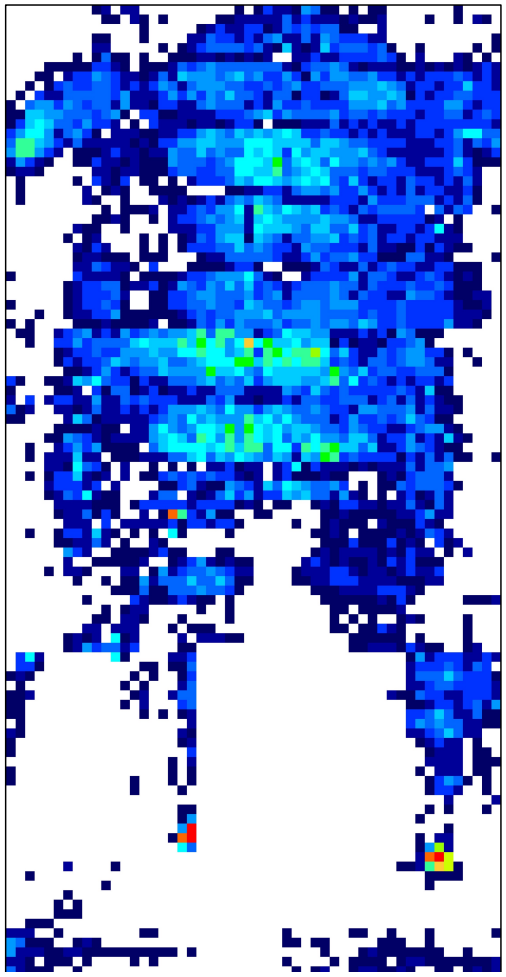
Darker colors represent lower pressure.

Lighter colors represent higher pressure.

Without EasyShift™



With EasyShift™ Support Hold



Healthy Patient Volunteer #2

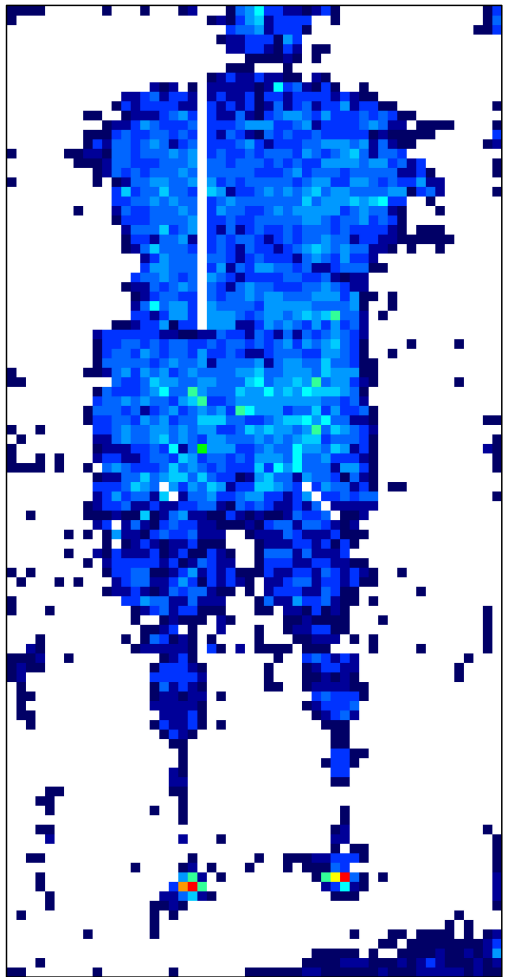
Weight: 275 lbs
Measurements taken with mattress at 3 different firmness levels (3, 4, and 5)

Patient Weight: 275 lbs
Mattress Firm Level 3

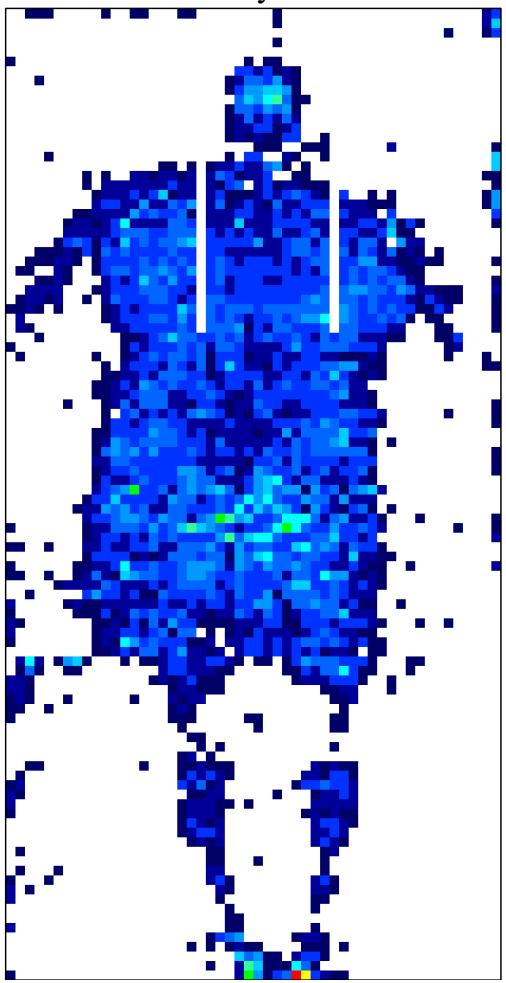
Darker colors represent lower pressure.

Lighter colors represent higher pressure.

Without EasyShift™



With EasyShift™

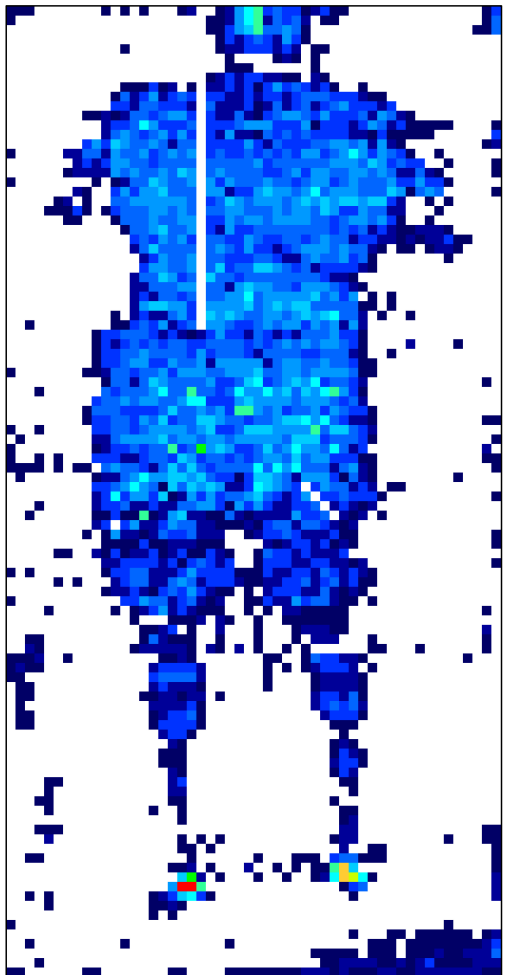


Patient Weight: 275 lbs
Mattress Firm Level 4

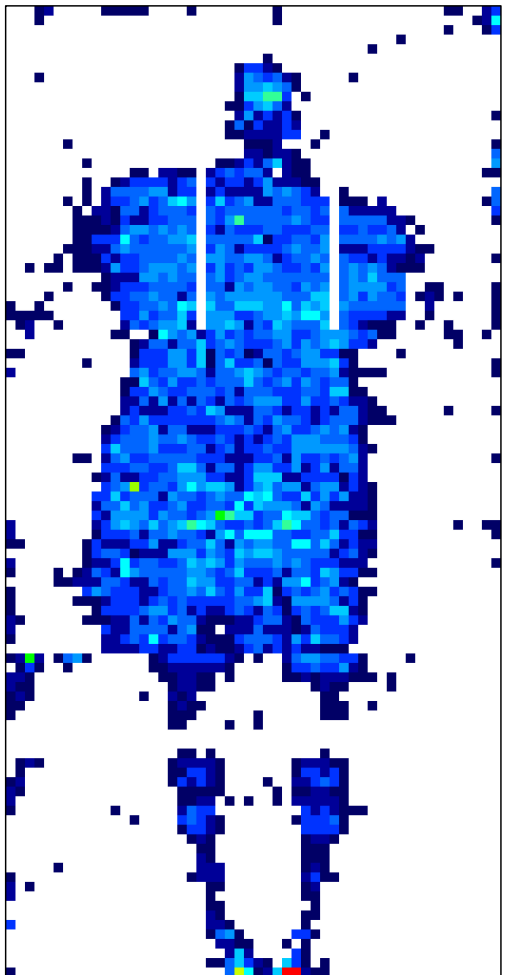
Darker colors represent lower pressure.

Lighter colors represent higher pressure.

Without EasyShift™



With EasyShift™

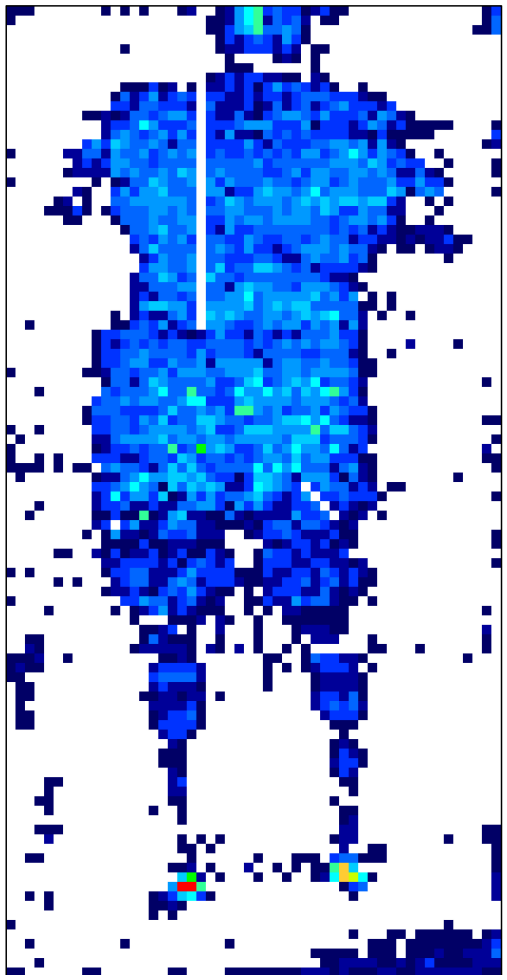


Patient Weight: 275 lbs
Mattress Firm Level 4

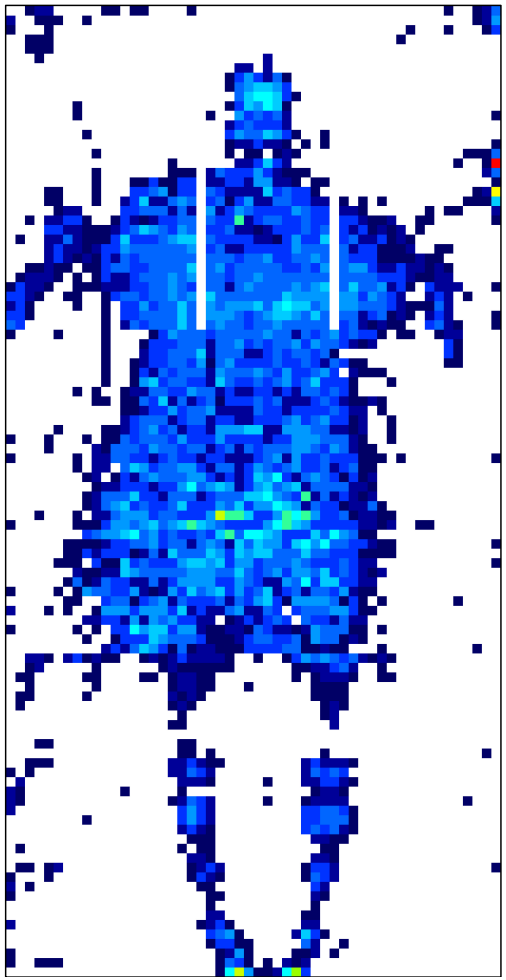
Darker colors represent lower pressure.

Lighter colors represent higher pressure.

Without EasyShift™



With EasyShift™ Support Hold

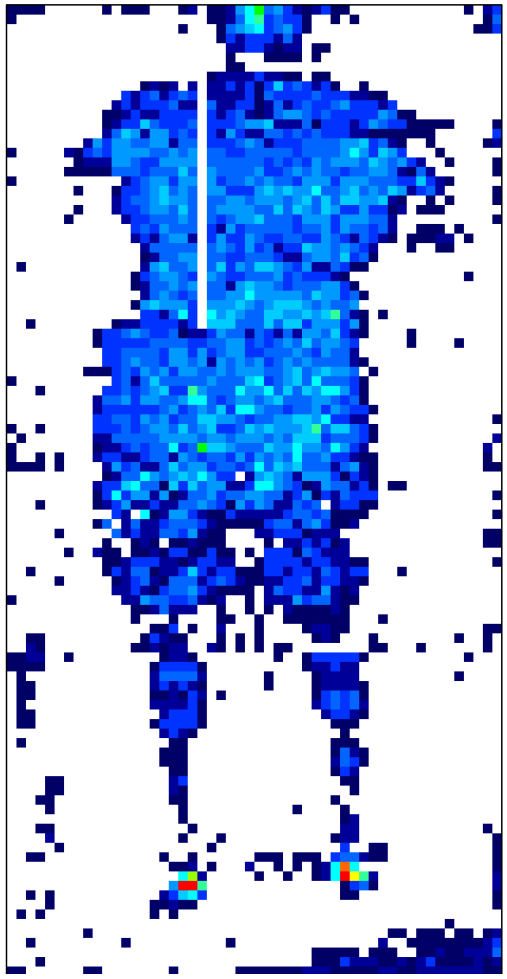
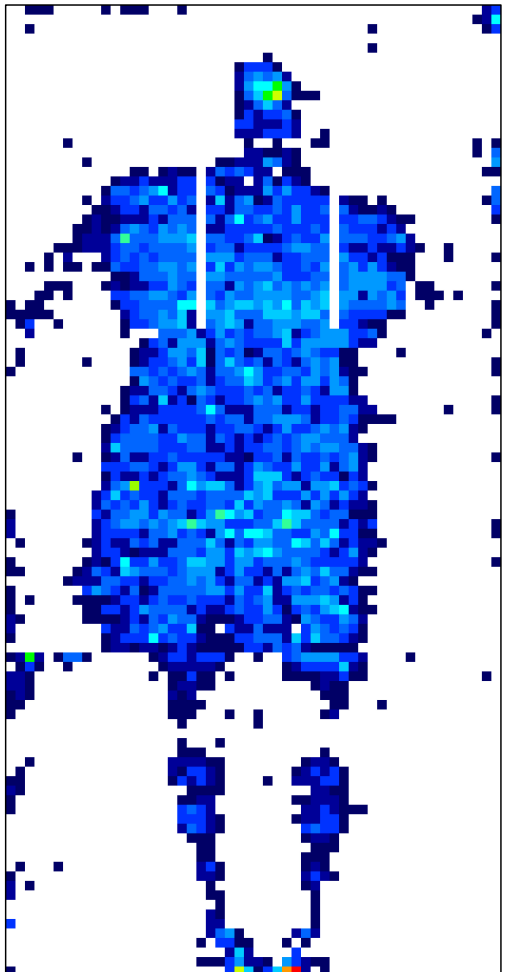


Patient Weight: 275 lbs
Mattress Firm Level 5

Darker colors represent lower pressure.

Lighter colors represent higher pressure.

Without EasyShift™



With EasyShift™