

## **Who are we?**

### ***Tissue Integrity Group (TIG) (Dave<sup>2</sup>)***

#### ***Mission statement:***

Define test methods of support surface characteristics that impact tissue integrity.

## **What is tissue integrity?**

#### **Skin integrity:**

Maintenance or promotion of tissue viability

## **Workgroup:**

Chair: David Brienza

Vice Chair: David McCausland

Preamble / Informative annex: JC, KZ  
(intrinsic)

Keeper of the Variables: KZ

# What impacts tissue integrity?

## Pressure

interface (GT, CF, AMc)	<u>Measurable</u>
distribution	<u>Measurable</u>
contact area	<u>Measurable</u>
spatial gradient	<u>Measurable</u>
weight support capacity (what point surface compromised due to weight/area ratio)	<u>Measurable</u>

## Resistance to envelopment (CL, SS, RF, DMc, AD)

ratio of increase (pressure secondary to envelopment)	<u>Measurable</u>
bottoming out physical mechanical	<u>Measurable</u>

## Friction (RF, SR)

coefficient	<u>Measurable</u>
localization	

## Shear (CL, JP, JD, MK)

externally applied	<u>Measurable</u>
spatial* (rate change in pressure gradient)	<u>Measurable</u>
sliding resistance (morphology) (ops mode specific)	<u>Measurable</u>

Environment / microclimate (RF, Graham Nicholson, KM, AD)

heat dissipation / transfer

Measurable

moisture vapor transmission

Measurable

combined test

Investigate

(JD, DM)

temperature

Measurable

temp. control

impact of temp. on surface

sanitization

Measurable

cleaning

(JD)

bacterial control