

Who are we?

TIG

Tissue Integrity Group

(AKA.....Dave²)





TIG 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
- ◆ Sub-group coordinators:
 - Preamble / Informative annex: Janet Cuddigan (KZ)
(intrinsic focus)
 - Keeper of the Variables: Karen Zulkowski
(Data, Statistics, Errata)
 - Pressure: Geoff Taylor
 - Resistance to envelopment: Charles Lachenbruch
 - Friction: Rick Fontaine
 - Shear: Charles Lachenbruch
 - Environment / Microclimate: Rick Fontaine



What impacts tissue integrity?

- ◆ Pressure
- ◆ Resistance to Envelopment
- ◆ Friction
- ◆ Shear
- ◆ Environment / Microclimate



Pressure (GT, CF, AMc)

- ◆ Interface Measurable
- ◆ Distribution Measurable
- ◆ Contact area Measurable
- ◆ Spatial gradient Measurable
- ◆ Weight support capacity Measurable
(the point surface is compromised due to weight/area ratio)



Resistance to envelopment

(CL, SS, RF, DMc)

- ◆ Ratio of increase

(pressure secondary to envelopment)

Measurable

- ◆ Bottoming out

- Physical

- Mechanical

Measurable



Friction (RF, SR)

- ◆ Coefficient
- ◆ Localization

Measurable

Investigate



Shear (CL, JP, JD, MK)

◆ Externally applied

Measurable

◆ Spatial*

Measurable

(rate change in pressure gradient)

◆ Sliding resistance

Measurable

(morphology)

(ops mode specific)

* Inclusion under debate



Environment / Microclimate

(RF, Graham Nicholson, KM)

- ◆ Heat dissipation / transfer Measurable
- ◆ Moisture vapor transmission Measurable
 - combined test *Investigate (JD, DM)*
- ◆ Temperature Measurable
 - temperature control Measurable
 - impact of temperature on surface Measurable
- ◆ Sanitization (JD) Measurable
 - cleaning Measurable
 - bacterial control Measurable