

BACK TO BASICS

PROBLEM

Pressure ulcers remain an ever-increasing problem.

UNDERSTANDING OF THE PROBLEM

Since the human body is 3-dimensional

then

Deliverance of gradient pressure and shear mechanical stresses by the support surface (solids, gels, and powered fluids)

will

Cause soft tissue distortion, change in velocity and flow pattern of the circulation, causing endothelial damage resulting in ischemia and possible infarction of the soft tissue at risk (pressure ulcer)

thus

Selection of these types of media must be evaluated by scientific facts and soft tissue strain visualization (CT or MRI scanning) since pressure mapping is 2-dimensional and unreliable in defining causation of soft tissue distortion.

SOLUTION TO THE PROBLEM

if the human body is 3-dimensional

then

Volumetric support (flotation) is needed to maintain proper tissue orientation

then

A static fluid media (gas, liquid, sol) is needed to *float* the body in a flexible container that is properly filled or inflated

and

Static air is preferred to liquid or sol because it has less density and no viscosity.

FLOTATION THERAPY

“Equalized distribution of the body’s weight”