**Determining Sacral Tissue Thickness Using Piezoelectric Finger (PEF) Technology**

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**Clinical Need**

**Need:** Deep tissue injuries (DTI) affect over 2.5 million people per year, 95% in lower body

**Problem:** Need to know sacral tissue thickness in order to detect DTI

**Solution:** Use Piezoelectric Finger (PEF) technology to determine tissue thickness

**Objective:** Measure sacral tissue thickness using a set of different sized PEF probes

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**Approach**

PEF probes of different widths have different depth sensitivities.

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**Solution**

Use Piezoelectric Finger (PEF) technology to determine sacral tissue thickness.

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**Results & Impact**

**Result:** The device can indeed determine model sacrum thickness

**Impact:** Result of sacrum thickness measurement will finalize the design of DTI detector to help detect DTI