

<b>Author Year</b> <b>Country</b> <b>Research Design</b> <b>PE德罗 Score</b> <b>Sample Size</b>	<b>Methods</b>	<b>Outcome</b>
Richard-Denis et al. (2017) Canada Cohort N=315	<p><b>Population:</b> <i>Gel Mattress Group (n=226):</i> Mean age=47.8yr; Gender: males=81, females=19; Level of Injury: Tetraplegic=56.2, Paraplegic=43.8; ASIA Classification: A=38.1, B=10.8, C=15.7, D=35. <i>Multi-layer Foam Dressing Group (n=89):</i> Mean age=50.7yr; Gender: males=73, females=27; Level of Injury: Tetraplegic=60.7, Paraplegic=39.3; ASIA Classification: A=24.7, B=11.2, C=16.9, D=47.2.</p> <p><b>Intervention:</b> Patients were given a preventative multi-layer foam dressing to their sacral-coccygeal area upon arrival to emergency room, compared to those who used a gel mattress pre-operatively.</p> <p><b>Outcome Measures:</b> Occurrence of sacral PU, Severity of PU, and comparators of age, gender, smoking status, obesity, co-morbidities and injury severity score.</p>	<ol style="list-style-type: none"> <li>1. 17.7% of participants in the gel mattress group developed PU, while 19.1% of participants with the Multi-layer dressing developed PU (p=0.77).</li> <li>2. There were no statistically significant differences between the gel mattress group or multi-layer dressing group for severity of PU (p=0.71)             <ol style="list-style-type: none"> <li>a. Grade 1: gel mattress=30% versus multi-layer dressing 29.4%</li> <li>b. Grade 2: gel mattress=62.5% versus multi-layer dressing 70.6%</li> <li>c. Grade 1: gel mattress=2.5% versus multi-layer dressing 0%</li> </ol> </li> </ol> <p>Grade 1: gel mattress=5% versus multi-layer dressing 0%</p> <p>Potential predictors of sacral pressure injury development during acute hospitalization: complete tetraplegia, older age, higher injury severity score.</p>