

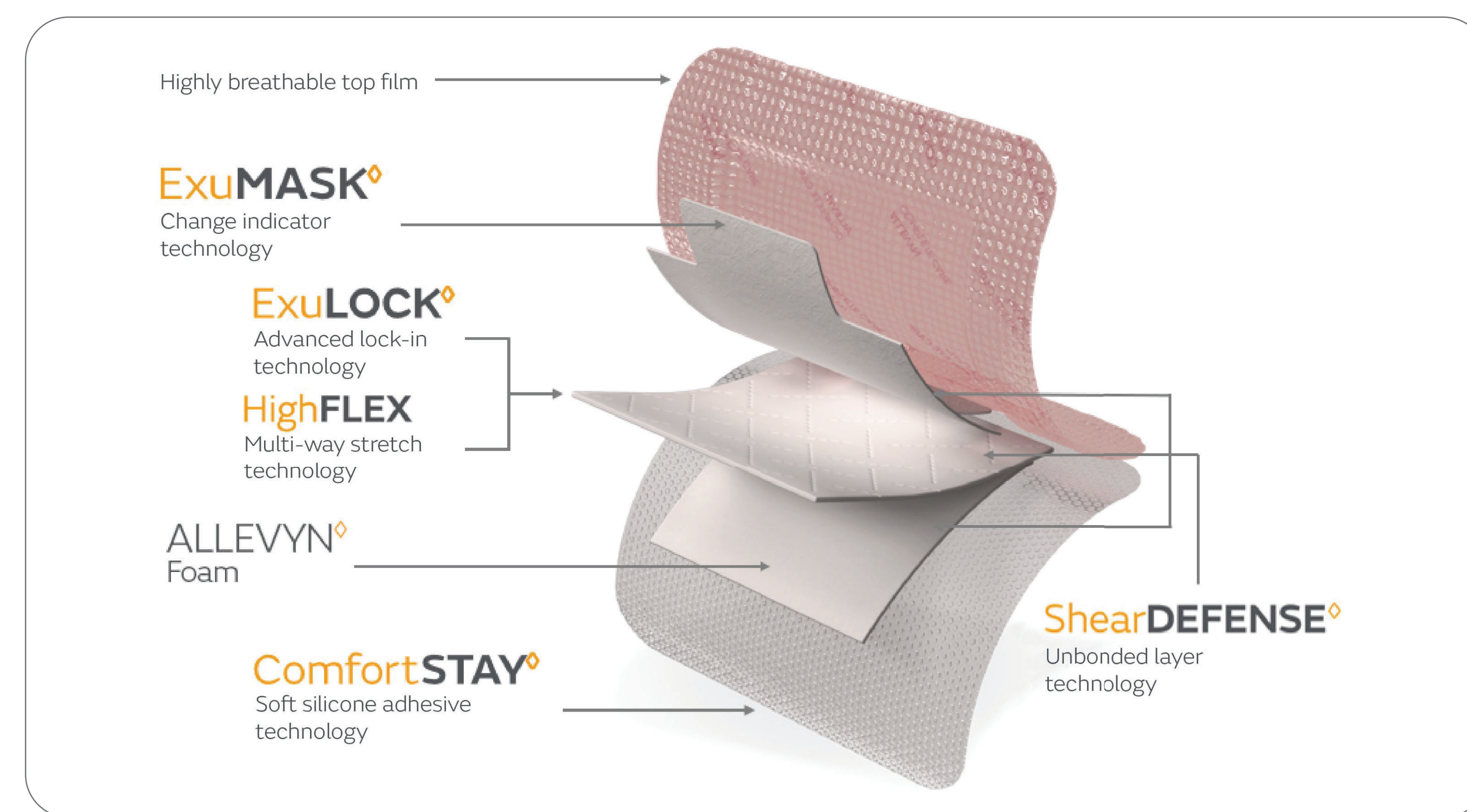
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Evaluation of a five-layer foam dressing for pressure injury prevention

Introduction

Pressure injuries (PIs) are defined as localized damage to the skin and underlying soft tissue and usually occur over a bony prominence. A pressure injury normally results from prolonged or severe pressure in combination with shear and can present as intact skin or an open ulcer and may be painful.¹ PIs affect 1-3 million people in the US each year,² and cause pain, loss of mobility and reduced quality of life.^{3,4} Approximately 95% are preventable with appropriate protocols of care.⁵ There are 60,000 hospital acquired pressure injury (HAPIs) associated deaths in the US each year⁶ and there is a 4-6 x greater risk of in hospital mortality than in patients without a HAPI.⁷ International clinical guidelines recommend the use of soft silicone multi-layered foam dressings for pressure injury prevention (PIP).⁸ Foam dressings are applied as part of PIP to decrease strain on soft tissues and absorb shear forces, therefore lowering the risk of HAPIs.⁹ PIs represent a major economic burden for healthcare systems through increased length of hospital stay, readmission rates and associated costs of care. In the US, an estimated \$11.6 billion (USD) is spent on PI care annually, with the cost of individual care varying between \$500 and \$152,000 (USD in the period 2000 to 2012).⁸ The aim of this evaluation was to assess clinician satisfaction with a dressing designed to prevent pressure injuries.

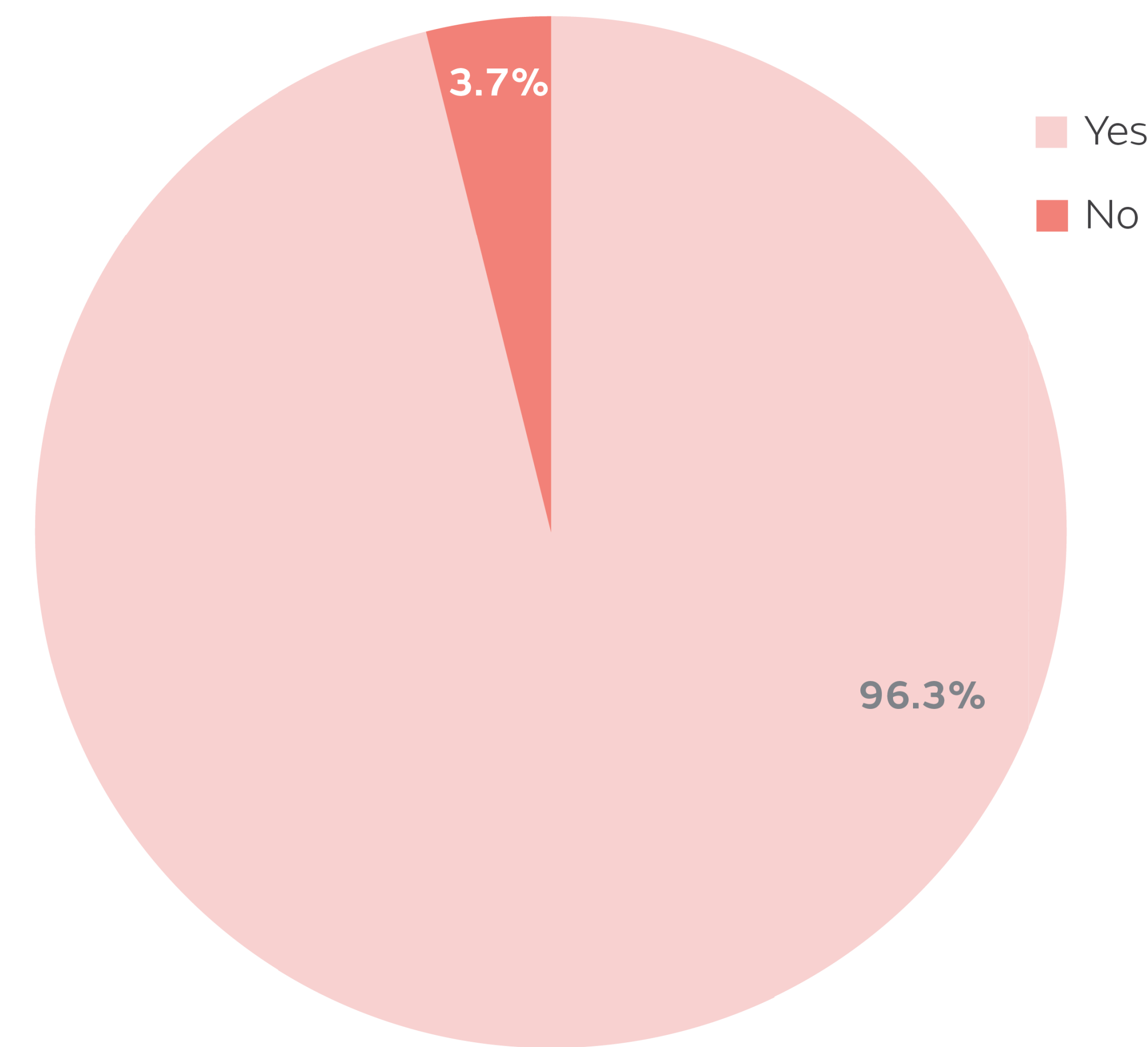
Image 1 – Five-layer foam Dressing



Method

Respondents in the US accessed the product evaluation form using a unique QR code to input data during a defined survey period. The survey was hosted on SNAP software and stored securely on a US-based server compliant to ISO27001.¹⁰ Clinicians were asked to follow their usual protocol for dressing examination and removal and trained on five-layer foam dressing* use in line with their clinical judgement. The evaluation captured ratings on comfortability as well as performance in other key areas, including how well the dressing stayed in place and wear time.

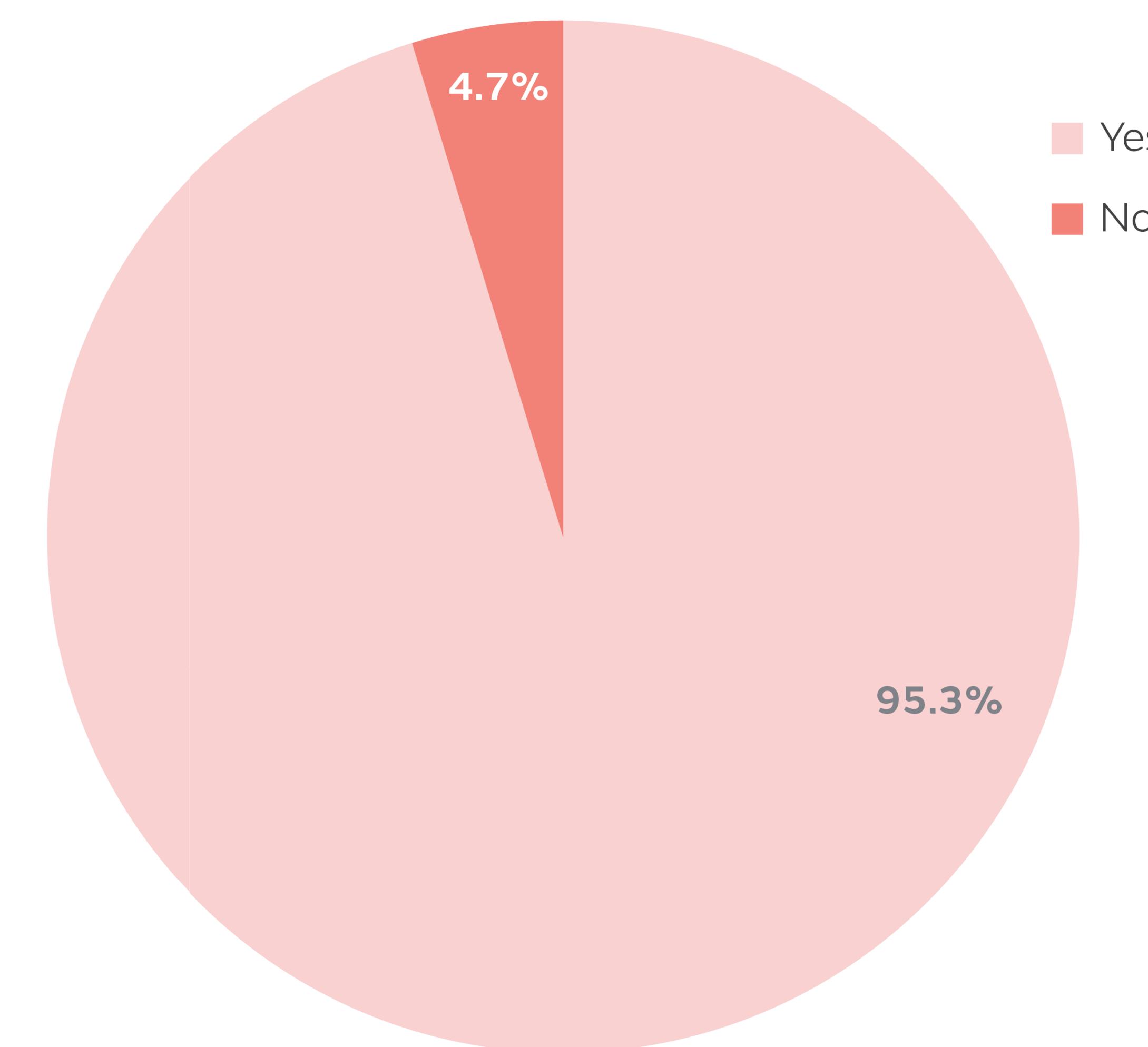
Figure 1 – Opinion on whether respondent was satisfied with wear time



Results

Between September and December 2025, 385 responses were received from 31 hospitals (questions were non-mandatory). 96.3% (362/376 responses) of respondents were satisfied with the wear time of the dressing (Figure 1) and 93.9% (339/361 responses) of respondents stated their expectations were met in terms of the dressings ability to be lifted and reapplied for skin inspection (Figure 3). Further to this, 97.8% (361/369 responses) of respondents stated their expectations were met with how the dressing conformed to body contours (Figure 3) and 95.3% (362/380 responses) of respondents would continue to use the dressing for PIP (Figure 2).

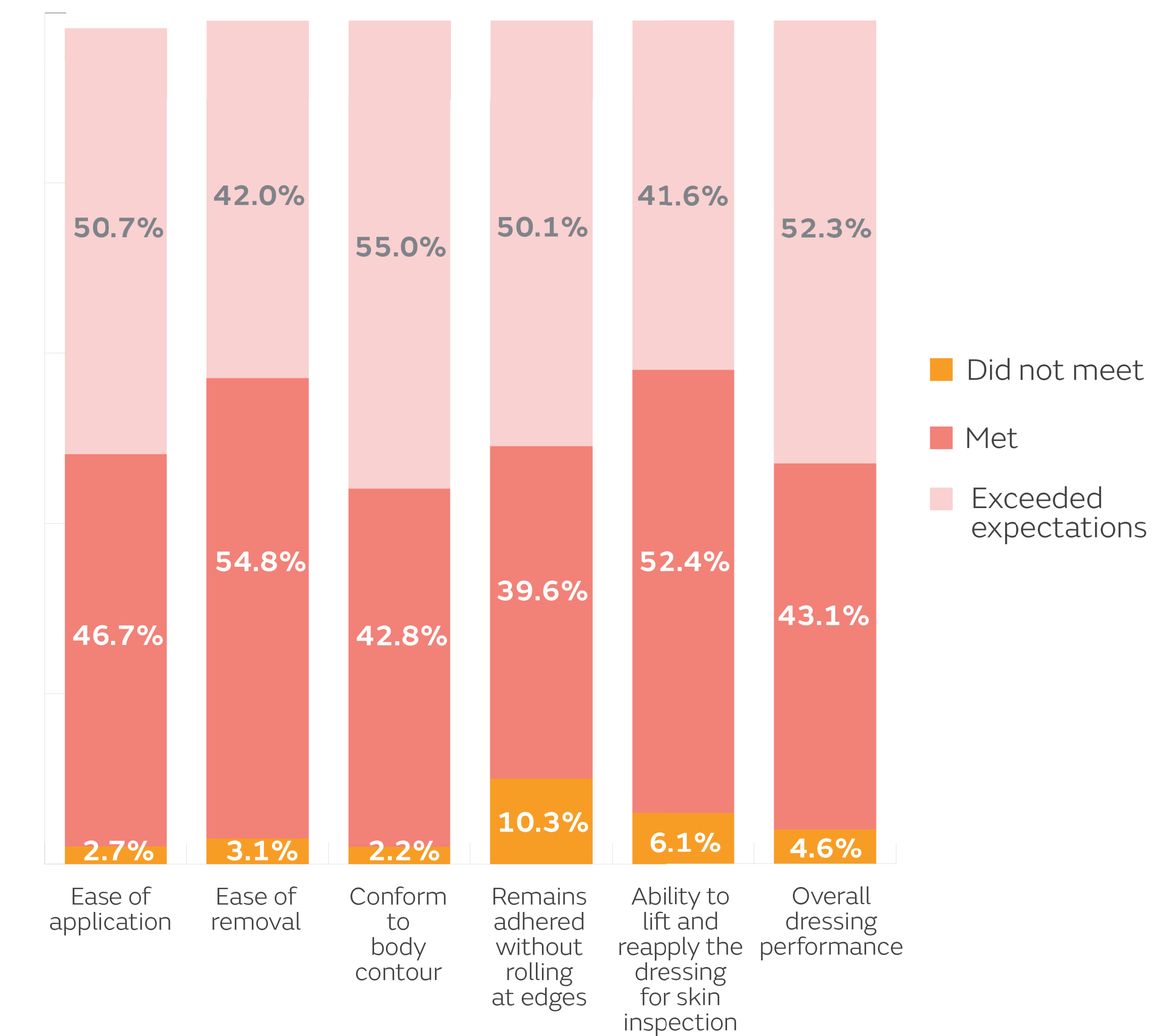
Figure 2 – Opinion on whether respondent would continue to use the dressing



Discussion

Feedback from clinicians indicated they were satisfied with the five-layer foam dressing being applied for PIP. High ratings were received for dressing conformability as well as wear time, and over 95% of respondents indicated they would continue to use the dressing. These findings support the dressing's role in enhancing patient care and reducing pressure injuries.

Figure 3 - Opinion on whether dressing met expectations on various aspects of performance



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