



## **A second small study of the effect of Sleep systems: Looking at the effect of the Lowzone Overmantle when used on an Alternating mattress.**

**Holland, Feb 2012**

When asked how to use Symmetrisleep with alternating mattresses our response has been that if there are policies in place regarding pressure care that one is perfectly safe to use our stretchy “Velcro” sheets, brackets with pads and our stretchy top sheets (Bamboo or Coolover) as the effectiveness of the mattress will not be compromised.

In our previous informal study examining our Airmantle using FSA pressure monitors, we were able to report that we were pleased with it's performance as a pressure relieving topper.

For this trial we used a Decu III alternating mattress.

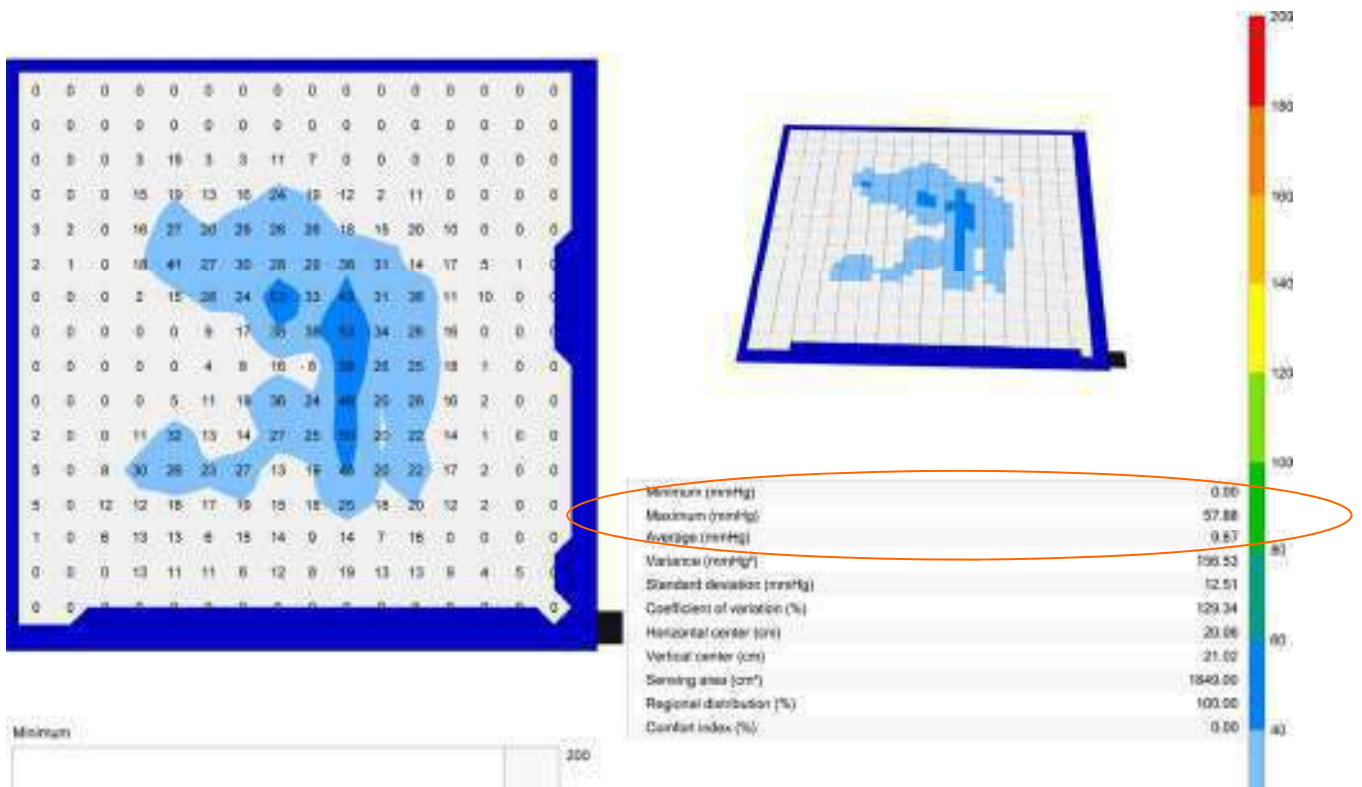
The question remained regarding performance of our Lowzone Toppers when placed over an Alternating mattress hence this short study. Again, we were pleased with performance.

NB: If you are introducing a new interface, of any sort, it is always recommended that you increase the frequency with which you inspect of skin condition until you are satisfied that you have a positive outcome.

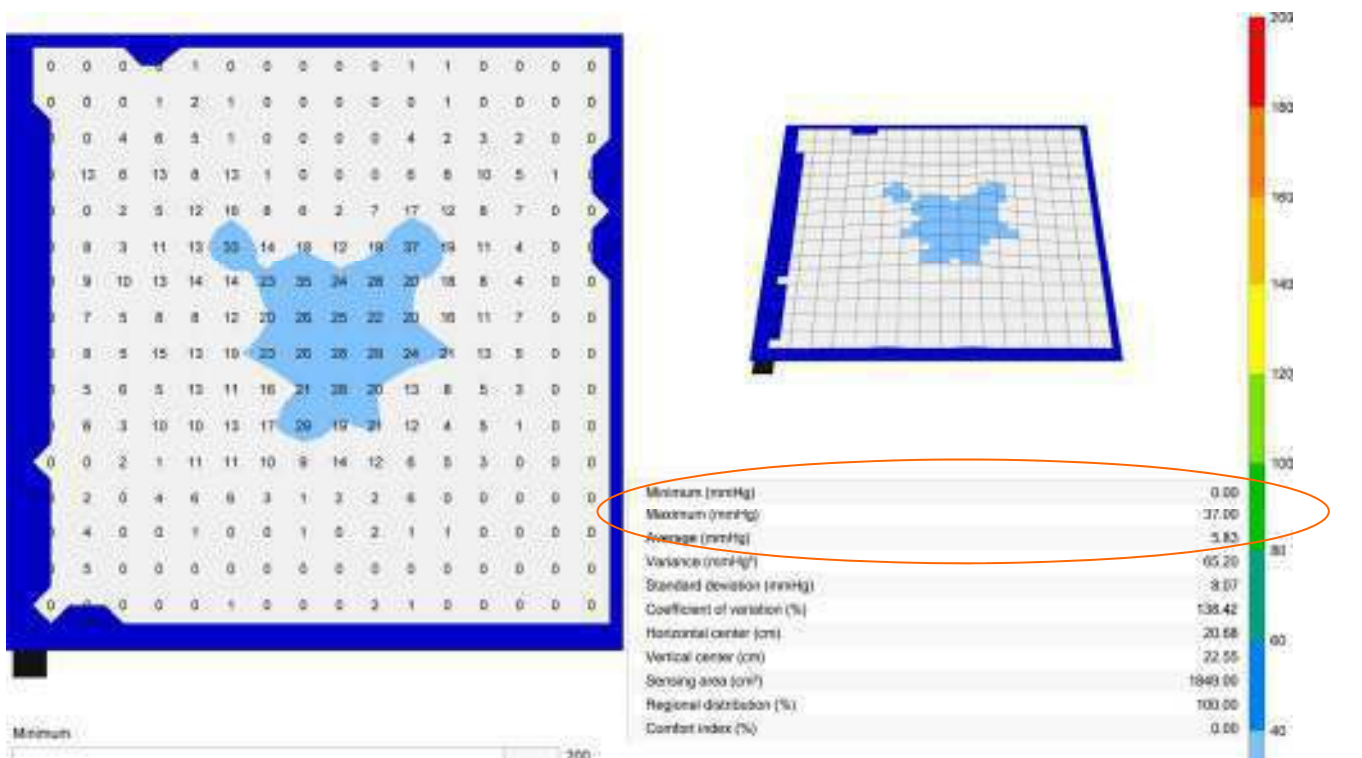


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## 1.1 Supine Lying on Decu III, No Lowzone Overmantle in place

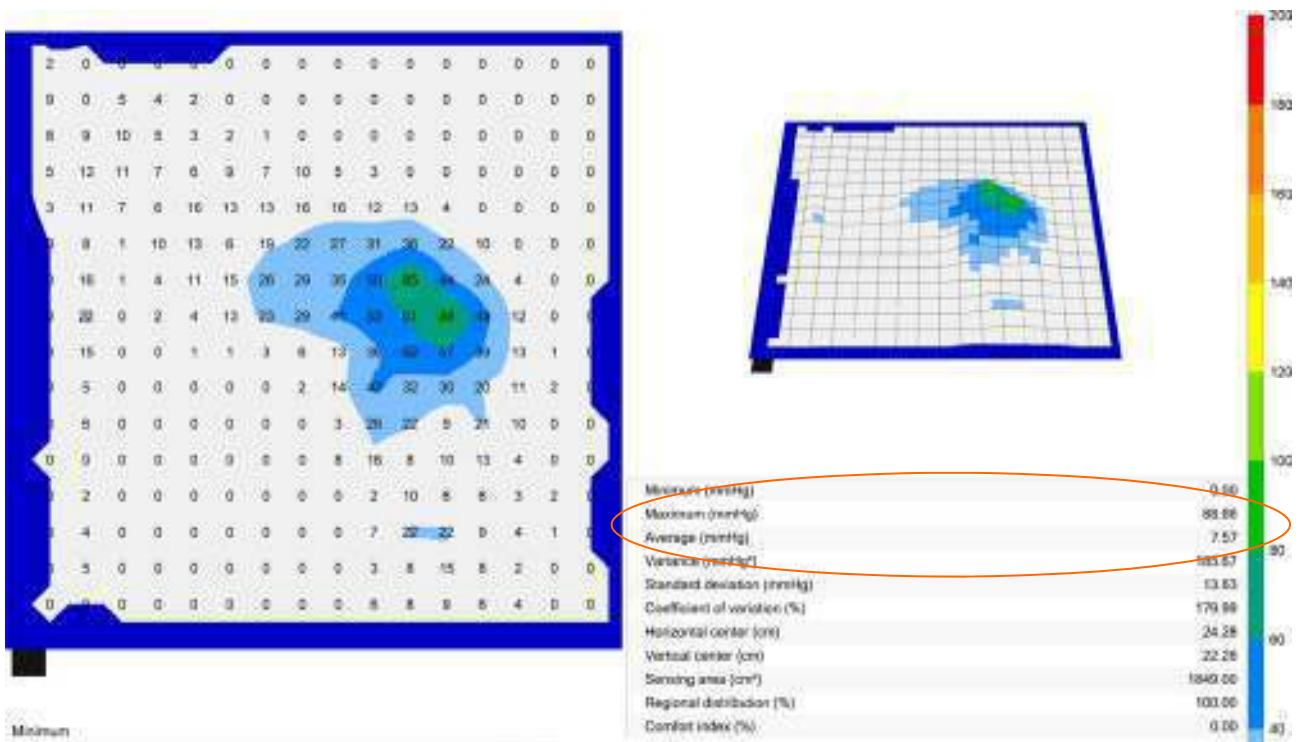


## 1.2 Supine Lying on Decu III with Lowzone Overmantle in place

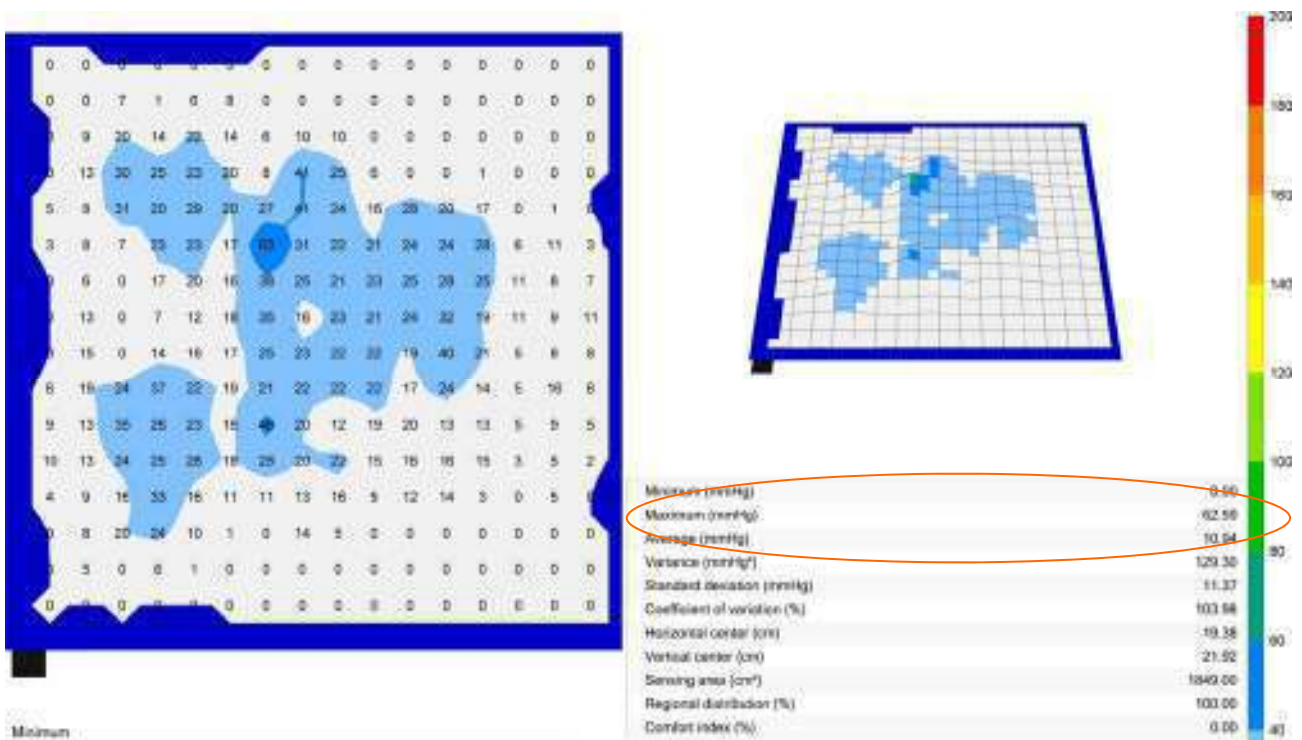


In this case, a positive result when using the Lowzone Overmantle.

## 2.1 Side Lying on Decu III, No Lowzone Overmantele in place



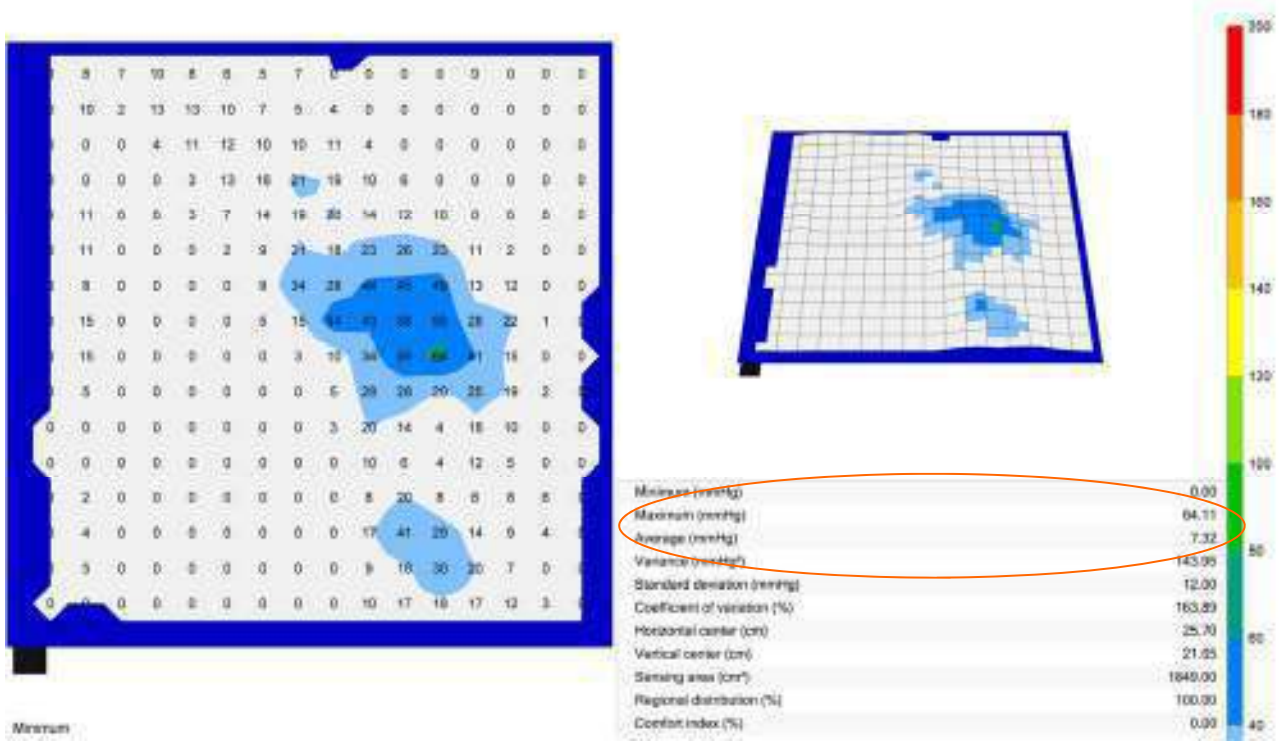
## 2.2 Supine Lying on Decu III with Lowzone Overmantele in place.



Although the average pressure is slightly higher, peak pressures have not increased, they have indeed reduced, again an acceptable result. For better results, we then brought 1 leg back using the sleep system – see next slide.

### 2.3 Supine Lying on Decu III with Lowzone Overmante in place, with positioning

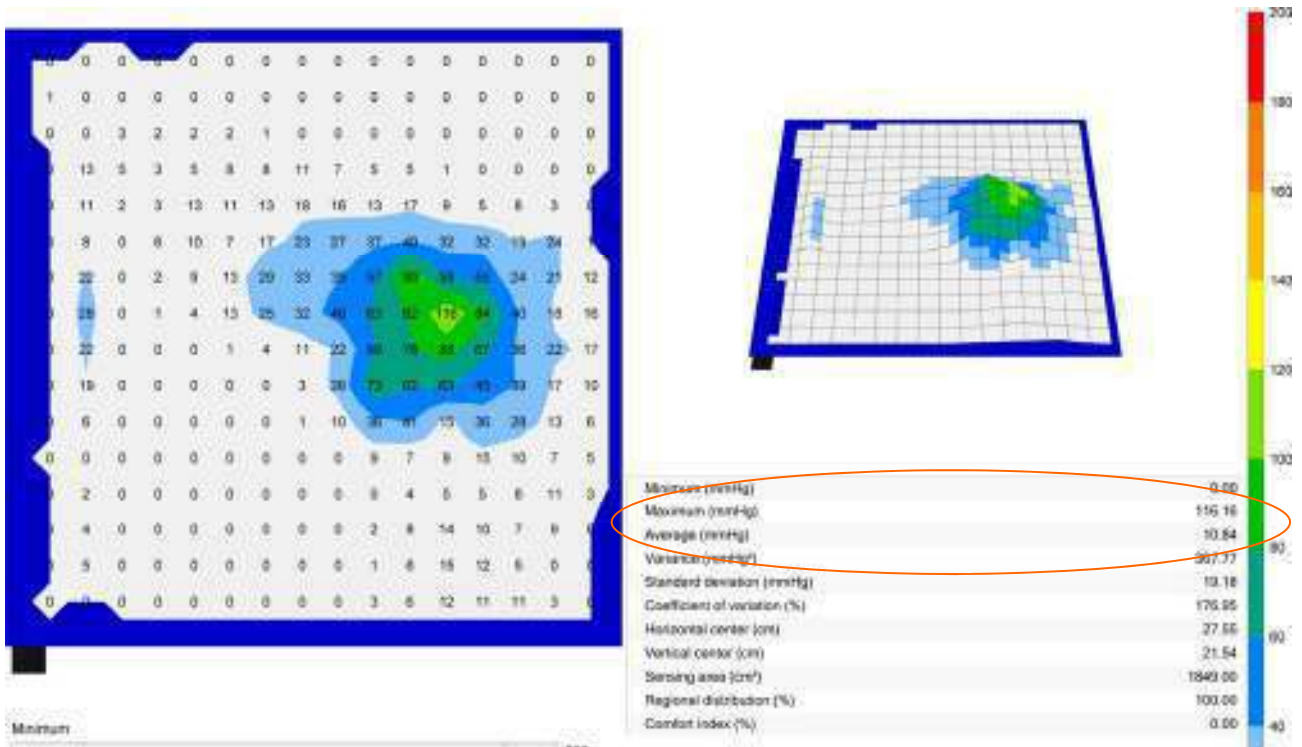
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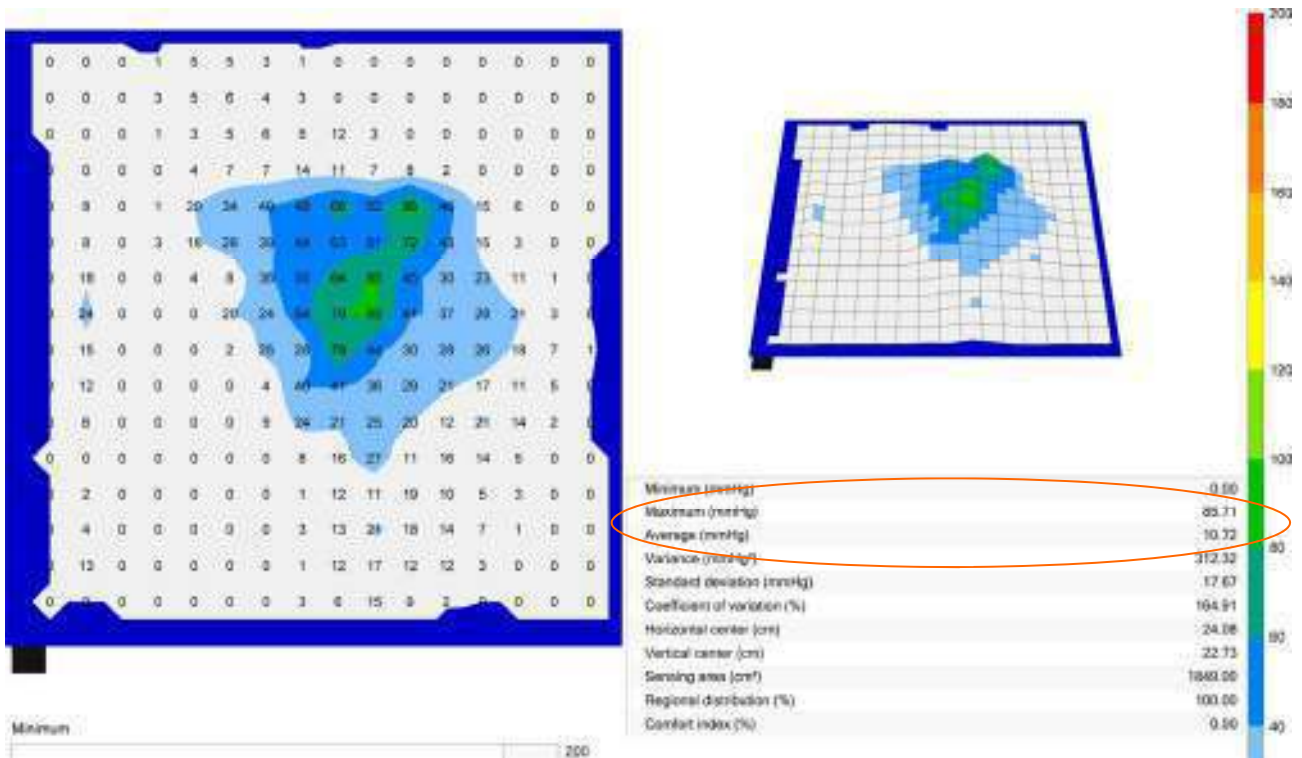
So, a good result as both peak pressure and average pressure have been reduced. (compare to slide 2.1).



### 3.1 Looking at Semi-Side Lying on Decu III with Lowzone Overmante in place, with no supports.



### 3.2 Looking at Semi-Side Lying on Decu III with Lowzone Overmante in place, with Symmetrisleep elements in place. (Brackets behind and in front, pillow between legs, pillow under lower knee beneath overmante)



Here you can see the difference between supported and unsupported lying when positioning with chest and pelvis aligned in semi side lying.