

Pressure ulcers or sores are the ailments which are suffered by human body due to constant and repeated application of pressure and rubbing of the same positions of the body over any surface laid upon repeatedly. This mainly affects the skin or the immediate underlying tissues above the bone or muscular cavity and becomes chronic if not treated well or caution is taken.

Pressure relieving beds, mattresses, overlays, heel protectors and cushions provide relatively soft and non-abrasive surface to the part of the body resting on it, hence, reducing the pressure or friction factor over the same. Air mattresses distribute the pressure evenly throughout the top surface and hence prevent the localization of the friction and shear between the surface of the mattress and any particular part of the body.

Similar concept is implemented for beds, overlays, heel protectors and cushions. Such pressure relieving devices can be broadly categorized in two segments such as low-tech and high-tech devices respectively. The low-tech devices distribute the body weight uniformly over a larger surface area, hence, reducing the localization of the friction and forces, whereas, the high-tech devices provides alternative support surfaces for inflation and deflation at cellular level of the body.

The low-tech devices are generally having layers of air or fluid or gel or fiber for providing a soft and ulcer preventive surface, whereas, the high-tech devices comprises of AP devices, Air fluidized devices, Low Air Loss devices and Turning beds or frames which contributes wholesomely in the process of prevention of Pressure Ulcers.