

Optima Auto

Automating pressure relief delivery and improving pressure injury prevention for acute-care patients

Global pressure injury prevalence is 14.8% in acute hospitals. The sacrum, heel, and hips are primary injury sites, most frequently in Category/Stages I and II. Acute and surgical complications and improper skin microclimate management significantly increase pressure injury risks, hospitalization, workflow complexity, and resource consumption.¹⁻³

Clinical Guideline advises proper relief care and frequent repositioning to prevent pressure injuries; however, only 50% of inpatients have planned repositioning regimens and 20% use pressure relief equipment. Immobility and incontinence add significant risks to pressure injury severity, development, and caregiver workload.^{1,4,5}

Optima Auto automates mattress firmness, optimizing pressure injury prevention delivery, precision, and maintenance. Consistent airflow ventilation prevents moisture and heat buildup and improves skin microclimate control. Optima Auto streamlines caregivers' workflow while improving pressure injury prevention, comfort, and experience for patients.



Tailor immersion in 3 zones improves pressure relief

Torso is 40% of the total body weight and lacks tissues to protect bony prominences.⁶ Automating pressure relief to the head, torso, and lower leg in zones supports the Clinical Guideline's recommendation of improving full-body envelopment, pressure redistribution, and comfort.

Soft and conforming surfaces minimize tissue damage

Low air loss, stretchable PU covers, and TPU air cells deliver reliable skin microclimate management and comfort. It satisfies the Clinical Guideline's recommendation of minimizing friction and shear to reduce tissue deformation and pressure injury risks.

Additional sacral cushioning prevents bottom outs

Automating mattress firmness to support sitting combined with reinforced sacral cushioning aligns with the Clinical Guideline's recommendation of protecting patients from bottom outs and lower trunk pressure injury risks and improving patient comfort and safety.

Breathable covers optimize skin microclimate management

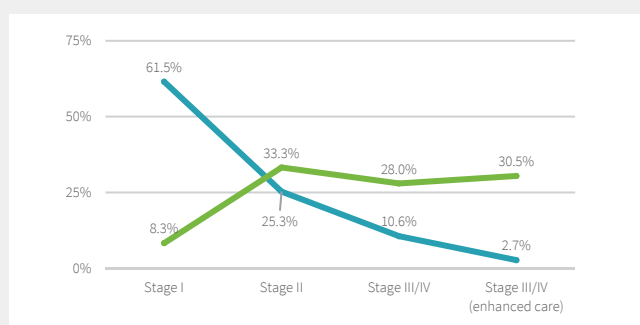
Proper airflow ventilation using high-performance cover – low friction and shear, water resistant, and vapour-permeable – meets the Clinical Guideline's recommendation of improving skin microclimate management, pressure injury prevention, and comfort.

Clinical Application

Category/Stage III and above hospital-acquired pressure injuries (HAPI) only account for 10% of all HAPI cases yet, 60% of all HAPI costs. HAPI extends hospitalization by up to 8 days and increases healthcare resource consumption and cost. Significantly more for surgical and critical care patients.^{1,7,8}

Sacrum and heel account for 44.8% and 24.2% of Category/Stage IV pressure injuries in intensive acute care.⁹ Immobility, poor health, and incontinence increase infections, moisture and heat buildup, and friction, leading to tissue breakdowns and pressure injuries.^{1,9}

The Clinical Guideline advises using specialized pressure redistribution support surfaces that can conform to patients' bodies, minimize tissue deformation, and provide proper skin microclimate management with low air loss to reduce pressure injury prevention and severity.¹



Proportion of costs accumulated by HAPI stage. Blue represents proportion of patients (%). Green represents percentage of incremental cost (%).⁷

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Specifications

Model	Optima Auto				
Pump	Dimension	13.4 x 6.5 x 10.2 in			
	Weight	9.9 lb ; 11 lb (with battery)			
	Case Material	Fire Retardant ABS			
	Supply voltage	110 -120 V / 60 Hz			
	Therapy mode	Max firm / Alternating / Continuous Low Pressure Seat inflation(Automatic)			
	Noise Level	< 30dB			
Mattress	Dimension	Cells	Length	Width	Height
		21	78.7 in	35.4 in	8 in
	Type	8" / Replacement			
	Weight	28.6 lb			
	Top cover material	Poly / PU			
	Cell material	TPU			
	Maximum patient weight	550 lb			
	HCPCS Code	E0277			
Ordering Information (For North America Only)					
	System with Battery	PD8503	Pump without Battery	PD8002	
	System without Battery	PD8506	Mattress	PM9410	
	Pump with Battery	PD8001			

Pump: water resistant standards (IP21); Mattress: flame retardant standards (CAL117, EN597-1, EN597-2), RoHS, WEEE
Specifications are subject to change for improvement without notice

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