

Pro-care Auto Bariatric

Reducing patient handling complexity and improving pressure injury prevention for bariatric care delivery

Overweight and obese patients (BMI above 40 kg/m²) have a 26% pressure injury prevalence. Morbid obesity, malnutrition and degeneration in mobility lead to severely impaired mobility, larger and heavier skin folds, and poor hygiene that attributes to skin and tissue maceration, inflammation, and necrosis.^{1,2}

48% of global nursing staff reported injuries from manually handling bariatric patients. Proper bariatric patient handling requires additional time, labor, training, staff, specialists, and resources, significantly increasing caregivers' workload and fear of bariatric care.^{3,4}

Pro-care Auto Bariatric supports up to 450 kg (992 lb). Automated firmness calibration, rectangular-shaped air cells, and sacral area cushioning improve pressure injury prevention, comfort, and protection against bottoming out for bariatric patients and reduce the caregiver's workflow efficiency and occupational injury risks.



Firmness calibration optimizes comfort and efficiency

Automated mattress firmness calibration optimises pressure relief, envelopment, and immersion of the patient's body, allowing the caregiver to focus on other tasks. Caregivers can lock the panel to prevent visitors from tempering the pressure settings.

Air mattresses minimize pressure injury development

Clinical Practice Guideline 2019 referenced an observational study Pemberton et al. (2009). The outcome demonstrated that patients treated using a specialized support surface did not develop new pressure injuries and reduced existing pressure injury sizes.

Proper skin microclimate reduces pressure injury risks

Clinical Practice Guideline advises proper skin microclimate management to retain tissue structure and function, enabling higher pressure tolerance to mechanical loading and improving prevention for superficial and deep tissue pressure injuries.

Sacral area cushioning prevents bottom outs

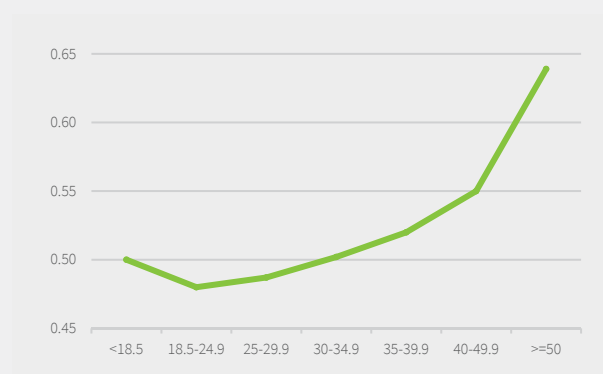
Clinical Guideline 2019 recommends air mattresses with seat cushioning and pressure settings that retain firmness when the sacrum exerts substantial pressure. Pro-care Auto Bariatric improves sacral area support and cushions fat/tissue loading, reducing pressure injury risks.

Clinical Benefits

Obese patients' limbs weigh approximately 16% of the total body weight. Changing dressings for a 250 kg patient involves elevating and supporting over 40 kg. Repetitive manual labor increases caregivers' prevalence of lower back, forearm, wrist, and knee pain, resulting in lower care frequency and quality.^{3,4}



Prevention and Treatment of Pressure Ulcers: Clinical Practice Guideline 2019 advises bariatric-appropriate equipment that accommodates bariatric bodies to improve pressure redistribution, shear reduction, microclimate management, and pressure injury prevention.^{5,6}

Simplifying pressure injury prevention and caregivers' workload and alleviating potential harm caused by repositioning bariatric patients improves frontline working conditions and patient care quality.⁴



Probability of resident (classified by BMI) needing two-person or more assistance for any activity of daily living.³²

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5. Health Survey for England, 2018: Quick guide. (2019, December 3). Health Survey for England 2018 [NS] - NHS Digital. NHS Digital. <https://digital.nhs.uk/data-and-information/publications/statistical/health-survey-for-england/2018>
6. European Pressure Ulcer Advisory Panel, National Pressure Injury Advisory Panel, & Pan Pacific Pressure Injury Alliance. (2019). Prevention and treatment of pressure ulcers/injuries : clinical practice guideline : the international guideline 2019. National Pressure Injury Advisory Panel. (Original work published 2022)
7. Harris, J. A., Engberg, J., & Castle, N. G. (2018). Obesity and intensive staffing needs of nursing home residents. *Geriatric nursing (New York, N.Y.)*, 39(6), 696–701. <https://doi.org/10.1016/j.gerinurse>

Specifications	Pro-care Auto Bariatric
Pump	Dimension 34.0 x 13.5 x 20.5 cm ; 13.4 x 5.3 x 8.0 in
	Weight 3.8 kg / 8.4 lbs
	Case Material Fire Retardant ABS
	Supply Voltage 220 - 240 V / 50 Hz
	Operating Cycle 10 / 15 / 20 / 25 minutes
Mattress	Mattress Type 20cm/ 8 in replacement
	Dimension 200 x 107 / 122 x 20 x 20 cm ; 78.7 x 42.1 / 48.0 x 7.87 x 8 in
	Cell Height 20 cm ; 8 in cells
	Weight 13 kg / 28.7 lbs
	Top Cover Material 4-way stretch PU
	Cell Material Nylon PU
	Maximum Patient Weight 450 kg / 992 lbs
	Flame retardant standards EN597-1 ; EN597-2

Pump: water resistant standards (IP21); Mattress: flame retardant standards (EN597-1, EN597-2), RoHS, WEEE

