

Hill-Rom

TotalCare SpO₂RT®

Pulmonary Therapy System



At a glance

- **Integrated therapies help improve patient outcomes and comfort**

- CLRT, percussion and vibration therapies help prevent and treat facility-acquired pulmonary complications
- Two-layer cushioned therapeutic surface maintains optimal, zoned pressure relief to aid in the prevention and treatment of pressure ulcers during all therapy modes
- FullChair® mechanism assists with patient mobility and with compliance to “up-in-chair” orders
- Opti-Rest wave-like motion offers a more comfortable environment for the patient

- **Intuitive bed system helps increase caregiver productivity and safety**

- The modular pulmonary therapies can be easily and quickly engaged by one caregiver
- Turn Assist, FullChair and egress patient positioning mechanisms facilitate easier patient handling with fewer caregivers and helps reduce the risk of injury
- Point-of-Care® siderail controls and the Graphical Caregiver Interface (GCI®) are easy-to-use and provide efficient access to the necessary bed system controls
- OneStep® Siderail release, HandsFree emergency CPR and Trendelenburg release mechanisms enable efficient care, even from the chair position
- IntelliDrive® mechanism (optional) offers power-assisted transport and maneuverability of the bed within and outside of the patient room

Designed to help improve caregiver safety while delivering quality patient care

Managing immobile patients can exact a lasting physical toll on the caregiving staff.

- The rate of U.S. hospital injuries is 8.9 per 100 full-time employee.¹
- Strains and sprains account for 59 percent to 66 percent of these injuries and approximately 80 percent of lost time and injury costs.²
- Patient handling duties have been identified as the cause of approximately 68 percent of sprains and strains to nurses.³
- The point prevalence of back pain among nurses is 17 percent and the lifetime prevalence is 43 percent to 76 percent.⁴

The TotalCare SpO₂RT system can provide the support you need by helping to mobilize patients and to reduce the risk of injury to caregivers.

Hill-Rom TotalCare SpO₂RT® Pulmonary Therapy System

Engineered with the help of caregivers to improve the quality of patient care

The negative effects of immobility on the patient are well documented. For example, ventilator-associated pneumonia (VAP) has been reported by the US Centers for Disease Control and Prevention to account for 15 percent of all healthcare-associated infections and is the leading cause of death from facility-acquired infections, resulting in direct costs, estimated at \$1.2 billion per year in the US.⁵

In two of the largest and most recent studies of their kind, from the US and Europe, the prevalence of (VAP) has been found to be linked to poor clinical and economic outcomes.^{6,7}

- VAP occurred in nearly 10 percent of ventilated patients and accounts for 40 percent of hospital acquired infections in ICU.
- VAP had an attributable mortality rate of 27 - 42.8 percent.
- Length of stay in the ICU increased 6.1 to 13 days with hospital stay increased up to 10.9 days.
- An increase of approximately \$40,000 per patient was attributed to VAP.



Aiding patients who are suffering from the effects of immobility requires a comprehensive approach to address their needs. A complete pulmonary therapy system combined with a proactive program to mobilize the patient may offer improved opportunities for recovery.

Improved outcomes require a comprehensive approach

Designed with the help of physicians, nurses respiratory and physical therapists, the TotalCare SpO₂RT therapy system helps address the effects of immobility and enables caregiving staff to help safely and efficiently mobilize their patients at any point in the clinical pathway.



CLRT and Percussion/Vibration therapies have been demonstrated to be effective in helping reduce pulmonary complications. Results from a outcome initiatives include:^{8,9}

- 18 percent decrease in hospital length of stay
- 22 percent decrease in ICU length of stay
- 26 percent decrease in days on the ventilator
- \$2.2 million fewer hospital charges for CLRT patients
- VAP rate decreased by 7.3% over a leading competitive product

The Therapy-on-Demand® modules help the caregiver easily initiate these therapies when needed.



Key Features of The TotalCare SpO₂RT® Therapy System



Integrated Therapy-on-Demand® System

The TotalCare SpO₂RT system features an innovative, modular design that allows caregivers to easily engage critical therapies, such as Continuous Lateral Rotation (CLRT), percussion and vibration, when prescribed for patients without ever having to move your patient. These portable modules can be purchased with the bed system or rented, as needed.

Enhance Patient Positioning with Turn Assist

Hill-Rom's Turn Assist feature assists with patient positioning for easier back care, linen changes and routine nursing procedures. It helps reduce the number of caregivers needed and the risk of caregiver injury. This feature is available with or without the rotation modules.



Optimal Pressure Relief and Comfort

This bed system has a two-layer, cushioned therapeutic surface that maintains optimal, zoned pressure relief to help prevent and treat pressure ulcers. It also has, as a standard surface feature, an Opti-Rest mode that provides a "wave-like" motion to enhance patient comfort.

Improve Patient Mobility with FullChair® Patient Position Mechanisms

TotalCare SpO₂RT system has FullChair patient position mechanisms to aid in the safe mobilization of patients. It is the only bed with both foot and side egress requiring fewer caregivers to easily and safely move patients.¹¹



As patient acuity permits, one caregiver can easily and frequently position immobile patients in the FullChair position in compliance with physician and nursing "up-in-chair" orders. The upright chair position has been noted to help improve pulmonary mechanics and gas exchange.¹⁰



To further improve the patient's mobility, remove the footboard and lower the foot section to 90° for easier patient egress from the foot of the bed. Hill-Rom's FullChair mechanisms can help patients achieve mobility easier while reducing the risk of injury to caregivers and their patients, compared to standard transfer methods.



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A innovative technology helps you deliver better care

With the TotalCare SpO₂RT system, we've made it easy for you to proactively provide the pulmonary therapies intended to help prevent complications before they start. The system is designed to help the caregiver throughout the patient's stay – from pulmonary therapies and Turn Assist, to helping the patient sit up and ambulate. As a result, patients receive the prescribed intervention, at the appropriate time, to help improve outcomes and help reduce length of stay, while also helping to increase caregiver safety and efficiency.



Technical data

Overall length (with roller bumpers)

FlexAfoot fully retracted81.5" (207.0 cm)
 FlexAfoot fully extended93.5" (237.5 cm)

Overall width

Siderails stowed.....36.5" (92.7 cm)
 Siderails up.....40" (102 cm)

Bed height without mattress

Height from floor to top of deck Minimum17.5" (44.5 cm)
 Maximum36.5" (92.7 cm)

Maximum siderail height (without mattress).....14.75" (37.5 cm)

Siderail opening size4.34" (110 mm) (A through E model beds)

Distance between

upper/lower siderails< 2.4" (<60.9 mm) (F model and newer)
 2.4" (60.9 mm) A through E model beds)

Minimum under-bed clearance.....4.75" (121.0 mm) (A model beds)

4.25" (108.0 mm) (B models and newer)
 1.25" (31.7 mm) (Under the IntelliDrive unit only)

Caster diameter5" standard
 6" optional

Overall bed weight

With minimum options/accessories525 lbs. (238 kg)
 With maximum options/accessories585 lbs. (265 kg)

Trendelenburg/Reverse Trendelenburg15°/15°

Head elevation.....75°

Bed lift capacity500 lbs. (227 kg)

Maximum safe working load includes the weight of the surface and additional equipment, such as: IV pumps and bags, O₂ tanks

Mattress width35" (89.9 cm)

Mattress length84" (213.5 cm)

Mattress weight.....37.5 lbs. (17 kg)

Sound level (measured 1 meter from patients ear)

With Percussion and Vibration Therapy inactive..... < 65 dB (A)
 With Percussion and Vibration Therapy active < 69 dB (A)

Rated voltage100V, 110V, 120V, 127V, 220-240V AC

Power/input9.9 A/5.0 A

Frequency50/60 Hz

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¹ Bureau of Labor Statistics Data, 1999.
² Bureau of Labor Statistics Data, 1998.
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⁴ Stubbs et al 1983. Newman & Callaghan 1993
⁵ CDC. Guidelines for Prevention of Nosocomial Pneumonia. 1997. MMWR 46 (RR-1); 1-79.
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⁷ T. Parke, P. Burden. Nosocomial pneumonia. *Care of the Critically Ill*. July 1998. Vol 14, No 5
⁸ Union Hospital. A comparison of continuous lateral rotation and manual turning: A process improvement initiative. Presented at NTI 2001
⁹ Comparison of Clinical Outcomes in Pulmonary Complications for Continuous Rotation Therapy via Two Different Therapeutic Beds, Regional Hospital Catholic Healthcare West, January 2003/Chaniller
¹⁰ Branson, Richard, et al. University of Cincinnati, OH 1997. Effect of Body Position on Pulmonary Mechanics, Gas Exchange and Lung Volumes in Elderly Subjects Without Lung Disease.
¹¹ Comparison of Caregivers Time Necessary for Patient Positioning using the TotalCare Bed System versus a Standard Bed. Tampa General Hospital, 1997