

### **Prolonged Mechanical Ventilation Through Early Transfer to Kindred Hospitals** Lengthy stays in the ICU, often caused by prolonged mechanical ventilation (PMV), are associated with a number of adverse outcomes. One way to mitigate these outcomes is to transfer stable patients needing mechanical

**Improving Outcomes for ICU Patients on** 

ventilation to a specialized Kindred Hospital that aggressively weans patients from the ventilator. PROLONGED STAYS IN THE ICU RELATED TO MECHANICAL VENTILATION Diagnosis-related groups (DRGs) requiring mechanical ventilation for greater than 96 hours have some of the longest inpatient lengths of stay (LOS), which

## have serious clinical and financial consequences.1

**INPATIENT ALOS** DRG **DESCRIPTION** 

14

Respiratory system diagnosis with ventilator

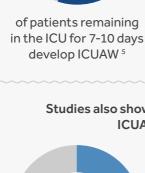
support >96 hours

207

Clinical Risks		
004	Tracheostomy with MV >96 hours or principal diagnosis except face, mouth and neck without major O.R. procedures	26
	Trachoostomy with MV > 96 hours or principal	
003	ECMO or tracheostomy with MV >96 hours or principal diagnosis except face, mouth and neck with major O.R. procedures	31
	support > 30 flours	

which includes symptoms such as ICU-acquired weakness (ICUAW), cognitive deficits, and PTSD-like recurrence of frightening memories.4 60%

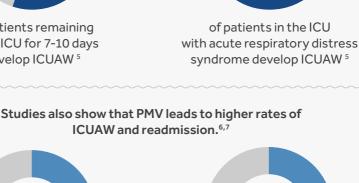
Lengthy stays in the ICU are associated with serious consequences for the patient, including higher mortality and readmission risk, particularly when the ventilator dependence is related to acute respiratory failure.  $^{2,3}$ An extended ICU stay is also a risk factor for post-intensive care syndrome,



develop ICUAW 8 Researchers attempting to address this dilemma have found that

of patients on PMV

67%



transferring PMV patients to specialized settings that focus on ventilator weaning could be beneficial for those whose conditions are otherwise stable.10,11

36%

of patients on PMV for 28 days

or more readmit to the ICU 9

**Financial Considerations** In additional to clinical consequences of prolonged ICU stays for PMV, there are significant financial considerations.



\$6,000 Medicare payments per day for the above \$3,500 DRGs range from around \$3,500 to

**\$3.4** billion.

During a one-year period, the

total Medicare spend for the above DRGs amounted to

The average

over \$6,000. 12

These figures further support the need for timely transfer of patients out of the ICU to care settings that specialize in

**30-DAY MORTALITY RATE** 

Kindred Hospital

Kindred Hospital

✓ Low nurse-to-patient ratios

The average cost of a hospital readmission, for which PMV patients

\$17.700.<sup>13</sup>

are at significant risk, amounts to

#### ventilator liberation. **Clinical and Financial Outcomes at Kindred Hospitals** Kindred Hospitals provide specialized acute care and rehabilitation for medically mplex patients, including those on mechanical ventilation. Our focused treatment of such patients allows us to efficiently help them recover and regain their independence. Data show that the average 30-day readmission and mortality rates are significantly lower for DRGs 003, 004, and 207 at Kindred than in a traditional in patient hospital. $^{\rm 14}$ Not represented in this graph are the levels of patient complexity with these DRGs, which are far greater at Kindred. 15 **Outcomes by DRG** 60% 50% 40% 30% 20% 10% 0% 207 004 004

**30-DAY READMISSION RATE** 

Hospitals than at traditional hospitals. 17

Mobility Scale.16

\$7,000

\$-

almost 40 years.

benefit from:

Physician-led interdisciplinary care

■ Traditional Hospital

\$6,109 \$6,000 \$5,000 \$4,151 \$4,000 \$3,581 \$3,000 \$2,416 \$2,329 \$2,184 \$2,000 \$1,000

Beyond these outcomes, 86% of Kindred's ventilated patients are able to reach a high level of mobility, based on the Johns Hopkins Highest Level of

Additionally, Medicare spend per day is significantly lower at Kindred

**Average Medicare Spend Per Day by DRG** 

**Kindred Hospitals' Specialized Care** Founded in 1985 as a hospital company dedicated to the care of ventilator patients, Kindred Hospitals has been treating serious pulmonary conditions for

Our high-level staffing allows us to accept critically ill patients on mechanical ventilation once they have reached a stable condition. Pulmonary patients

Kindred Hospitals' specialized caregivers and highly targeted programs

■ Traditional Hospital

allow them to achieve these exceptional outcomes.

#### Pulmonologist consultations in the ICU 24/7 access to respiratory therapy Physical, occupational, and ACLS-certified nurses in the ICU

The Move Early Program through which we incorporate movement into our patients' care plans as soon as is safe, even for those on mechanical ventilation. Disease-Specific Care Certifications in Respiratory

Failure from The Joint Commission, ensuring a

performance improvement.

At a Kindred Hospital, medically complex patients, including those on mechanical ventilation, benefit from highly specialized and efficient care in a facility focused specifically on their needs. With the significant clinical risks and financial considerations associated with prolonged stays in the ICU for mechanical ventilation, transferring these patients to a Kindred Hospital once they are stable is an important strategy in improving patient outcomes, and

standardized, evidence-based approach to care and to

We have also established care initiatives that promote recovery, including:

reducing readmissions and cost.

NEXT LEVEL CARE. NEXT LEVEL RECOVERY. To learn more about our care or to make a referral, visit refertokindred.com.

# Kindred Hospitals

The Advisory Board. The Post-Acute Care Pathways Explorer. State Average Outcomes by MS-DRG. Accessed August 2024.

- 15. As measured by HCC Scores. Average HCC scores for Kindred patients with DRGs 207, 003, and 004 are 9.1, 9.4, and 9.6, respectively, compared with 6.2, 6.7, and 7.7 at traditional inpatient hospitals. Source: see
- 12. As measured by Medicare payment per encounter divided by ALOS for each DRG. Source: The Advisory Board. The Post-Acute Care Pathways Explorer. State Average Outcomes by MS-DRG. Accessed August 2024. The Advisory Board. The Post-Acute Care Pathways Explorer: State Average Outcomes by MS-DRG, Accessed August 2024; Systems Outcomes Report, MS-DRG, Kindred Hospital Medicare IDs, Q4 2022-
- $16. \ \ Kindred Internal Data, 2023 \ \ Average; https://www.hopkinsmedicine.org/physical_medicine_rehabilitation/education_training/amp/toolkit.html; "high level of mobility" defined as a score of 4$