



InSee

Smart Incentive Spirometry

— *Reduce Pneumonia Risks & Readmissions* —

Features:

- Smart Patient Coaching
- Continuous Patient Monitoring
- Risk Stratification

Benefits*:

- Reduce Pneumonia Readmissions
- Improve Quality Measures
- Improve Staff Workflow



What is InSee; Smart Incentive Spirometry

The InSee is a smart sensor that attaches to existing disposable Incentive Spirometers to track patient compliance and therapy efficacy. InSee can help improve lung function and reduce pneumonia risks through smart patient coaching and continuous monitoring. Currently, over 2 million Incentive Spirometers are dispensed annually to help prevent pneumonia. Research has shown that the main challenge of Incentive Spirometry is the lack of patient compliance. And, with no way to quantifiably monitor patient compliance, it's difficult to identify patients at the highest risk for pneumonia. InSee is designed to coach the patient to be compliant and empower clinicians' decision-making with objective data.

Pneumonia

The leading cause of infection-related deaths

Hospital-acquired pneumonia is one of the most common infections acquired in healthcare settings. It affects a significant number of hospitalized patients.



140,000
Annual Pneumonia
Readmissions in US

\$20K
Average Pneumonia
Admission Cost

10%
Of all deaths
caused by
Pneumonia

Patient Reminders on Incentive Spirometer

Proven effective in improving outcomes

In a clinical study, the incentive spirometer reminder improved patient adherence, atelectasis severity, early postoperative fever duration, noninvasive positive pressure ventilation use, ICU and length of stay, and 6-month mortality in certain patients. With the reminder, IS appears to be clinically effective when used appropriately¹.

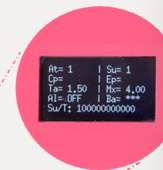
Incentive Spirometer Reminder On vs OFF

- Improved mean daily inspiratory breaths (35.4 vs 17.1; $P < .001$)
- Reduced mean atelectasis severity (1.5 vs 1.8; $P = .04$)
- Reduced noninvasive positive pressure ventilation use rates (37% vs 19%; $P = .03$)²
- Reduced pneumonia (5% vs 1%; $P = .18$)
- Reduced postoperative length of stay (7 vs 6 days; $P = .048$)²
- Reduced the ICU length of stay (4 vs 3 days; $P = .02$)²
- Reduced deaths at 6 months (0% vs 9%; $P = .048$)²
- Reduced fever duration (3.2 hours; 95%CI, 2.3-4.6 vs 5.2 hours; 95%CI, 3.9-7.0; $P = .04$).

InSee: Smart Incentive Spirometry

Reduce Pneumonia Risks & Readmissions

The InSee attaches to the existing Incentive spirometer (IS) and the patient's goal/target is easily set using the buttons at the bottom of the InSee. The InSee tracks every patient attempt and successful goal reached, as well as the max tidal volume. It remind the patient to use the IS and provide clinicians with objective data to identify high risk patients.



Data Recorded:

- Attempts**
Number of times patient used the IS
- Success**
Number of times patient reached goal volume
- Max Tidal Volume**
The highest volume inhaled by patient



Data display bottom of the device

To pilot the InSee or to learn more, contact us at:

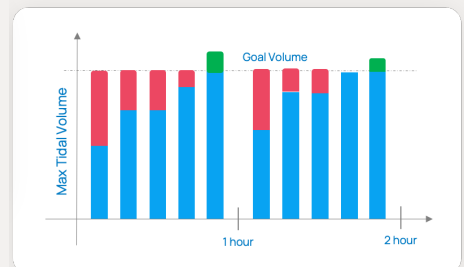
Tel: 214.864.5629

Web: www.TidalMed.Tech

Email: info@tidalmed.tech



Objective Data & Easy Documentation



1. JAMA Surg. 2019 Jul 1;154(7):579-588. doi: 10.1001/jamasurg.2019.0520. Effect of an Incentive Spirometer Patient Reminder After Coronary Artery Bypass Grafting: A Randomized Clinical Trial

2. Participants undergoing nonelective surgery