



## Accurate Clinical Insights for Asthma and COPD Management

Every day, millions of people use inhalers to help manage respiratory diseases. Propeller Health is taking these offline devices into the online future, with a Bluetooth-enabled sensor that tracks and transmits inhaler data.

The Propeller sensor snaps onto most metered-dose inhalers, and when paired with a smartphone or the 2net™ Hub and Platform, tracks when the device is used. This data is transmitted to Propeller Health's back-end solution, where advanced analytics reveal meaningful insight, trends and triggers.

Propeller is the leading FDA-cleared mobile platform for respiratory health management. Through sensors, analytics, mobile apps and the 2net Platform, Propeller helps patients better manage their asthma and COPD, and helps health care providers remotely monitor their patients to better identify those in need of additional attention before they suffer an exacerbation or return for additional care.

*Continuous Care. Informed Interventions.*

### OPPORTUNITY

**25 million** Americans are estimated to suffer from asthma <sup>1</sup>

Over **60%** of asthma patients are not under control <sup>2</sup>

Almost **15 million** people have been diagnosed with COPD, and an additional **12 million** are undiagnosed <sup>3</sup>

COPD is the **third-leading cause of death** in the U.S. <sup>4</sup>

Asthma and COPD are the 5th and 6th most expensive chronic diseases, estimated at **\$50 billion annually**.<sup>5</sup>

### SOLUTIONS

Personalized data on symptoms, triggers and medication use patterns can help patients better understand – and cope with – their individual condition. The Propeller Health solution captures inhaler information so patients can manage their disease more effectively, and reduce the frequency and severity of symptoms. Using the Propeller provider dashboard, health care providers remotely monitor the asthma and COPD symptoms of their patients and easily identify those with low controller medication adherence, uncontrolled asthma or worsening COPD status. This near real-time, actionable information helps avoid serious complications, meaning reduced attacks, fewer preventable ER visits and hospital admissions – and a better quality of life for patients and their families.

### BENEFITS

Propeller Health's first clinical studies in 2008 and 2009 demonstrated a significant improvement in asthma control among users. Uncontrolled asthma declined 50%, and more than 70% of participants improved their level of control.<sup>6</sup> The Propeller Health system:

- Provides accurate data capture and reliable remote monitoring for more informed care decisions
- Facilitates team-based care involving patient, providers, caregivers and family members
- Improves patient access to customized and time-sensitive care
- Identifies symptom triggers and medication trends for improved therapy regimens



## Why Qualcomm Life?

Qualcomm Life's 2net Platform helps Propeller Health and its customers, health systems, and insurance companies provide patients with a seamless connectivity experience. By eliminating technology barriers and improving interoperability, Qualcomm Life enables Propeller Health to manage any patient population – extending care access to more people than ever.

“Qualcomm Life continues to evolve with our business. We'll be releasing a Bluetooth® Low-Energy version of our sensor that streamlines pairing and eliminates the need for charging. Qualcomm Life's 2net Platform will allow us to bring these improvements to everyone in a population regardless of smartphone ownership.”

- David Van Sickle, PhD, CEO and Co-Founder, Propeller Health

## The Future of the Propeller Health Pipeline

Every year, the U.S. spends more than \$100 billion on the direct and indirect costs of asthma<sup>7</sup> and COPD<sup>7</sup>. As the health care system shifts towards a value-based model, and more organizations start to bear economic risk for adverse medical events, the Propeller platform and 2net technology will gain even more opportunities to improve outcomes, increase care team efficiency and lower costs.

Learn more about how Qualcomm Life mobilizes health care through Continuous Care. Informed Interventions. Visit [qualcomm.life](http://qualcomm.life).

Discover how Propeller Health is innovating asthma and COPD management through easy-to-use, patient-friendly tools. Visit [propellerhealth.com](http://propellerhealth.com).

<sup>1</sup>National Health Statistics Report; "Asthma Prevalence, Health Care Use and Mortality: United States, 2005-2009," January 2011.

<sup>2</sup>Id.

<sup>3</sup>Id.

<sup>4</sup>Id.

<sup>5</sup>Agency for Healthcare Research and Quality. Total Expenses and Percent Distribution for Selected Conditions by Type of Service: United States, 2010. Medical Expenditure Panel Survey Household Component Data. Generated interactively. (February 13, 2014)

<sup>6</sup>Van Sickle D, Magzamen S, Truelove S, Morrison T (2013) Remote Monitoring of Inhaled Bronchodilator Use and Weekly Feedback about Asthma Management: An Open-Group, Short-Term Pilot Study of the Impact on Asthma Control. PLoS ONE 8(2): e55335. doi:10.1371/journal.pone.0055335

<sup>7</sup>Center for Disease Control. Surveillance for Asthma: Morbidity and Mortality Weekly Report, 2002.

<sup>8</sup><http://www.thoracic.org/clinical/copd-guidelines/resources/copddoc.pdf>