## New Study Shows Vapotherm Hi-VNI® Technology Improved In-patient Participant Ambulation Recovery Time by 32.5% Versus Standard Oxygen Therapy

• Study found that Hi-VNI Technology during ambulation is feasible

## •Hi-VNI Technology improved recovery time amongst these patients by 32.5% versus standard oxygen therapy

## •Hi-VNI Technology improved patient distance walked by 12.4% and duration of time walked by 8.5%. vs. standard oxygen therapy amongst the inpatient group of these patients

EXETER, N.H.--(BUSINESS WIRE)-- Vapotherm, Inc. (NYSE: VAPO), a global medical technology company focused on the development and commercialization of its proprietary Hi-VNI® Technology, today announced that a paper published in the Journal of Clinical Respiratory Diseases and Care, titled "Assessing the Clinical Effect of High Velocity Nasal Insufflation on Improving Ambulation in Patients with Dyspnea: A Feasibility Study" demonstrated that use of Vapotherm Hi-VNI Technology during ambulation is feasible and showed that patients with dyspnea participating in this study who used Hi-VNI Technology as respiratory support walked farther and recovered faster when compared to standard oxygen treatment.

"These results show that the Vapotherm Transfer Unit not only provides support for hospital transfers across all deparments, but also offers an important respiratory support option for clinicians managing inpatients requiring ambulation as part of their treatment," said Joe Army, President and CEO of Vapotherm. "This study offers an additional proof point for clinicians that Hi-VNI Technology may help their patients, not just in general settings as Mask-Free NIV<sup>™</sup> for spontaneously breathing patients, but also during ambulation and recovery."

The feasibility study was a prospective cross-over trial that compared oxygen treatment as usual (TAU) to treatment with Hi-VNI Technology—which delivers high velocity nasal insufflation (HVNI)—in 28 patients during ambulation in both inpatient and outpatient settings. The goal was to compare how far and for how long patients could ambulate on Hi-VNI Technology versus the standard TAU. Vital signs and recovery time were measured as secondary outcomes. 25 of the 28 patients were analyzed.

Among the inpatients in this study, Hi-VNI Technology during ambulation was not only feasible, but also showed improved patient distance walked by 12.4% and duration of time walked by 8.5%. It also improved recovery time by 32.5%. Use was also feasible among outpatients undergoing ambulation, although outpatients performed worse than the inpatient subgroup studied.

These results are very encouraging for further research as well as demonstrating feasibility of using Hi-VNI Technology in respiratory patient ambulation.

While this study was comparing Hi-VNI Technology to oxygen support, previous studies have demonstrated that Hi-VNI Technology is comparable to noninvasive positive pressure ventilation (NiPPV) when treating patients in undifferentiated respiratory distress. The Vapotherm Transfer Unit is a self contained mobile means of delivering Hi-VNI Technology for patients on the move in the acute setting.

Vapotherm, Inc. (NYSE: VAPO) is a publicly traded developer and manufacturer of advanced respiratory technology based in Exeter, New Hampshire, USA. The company develops innovative, comfortable, non-invasive technologies for respiratory support of patients with chronic or acute breathing disorders. Over 2.0 million patients have been treated with Vapotherm Hi-VNI Technology. For more information, visit <u>www.vapotherm.com</u>.

Hi-VNI® Technology is mask-free noninvasive ventilation for spontaneously breathing patients and a front-line tool for relieving respiratory distress—including hypercapnia, hypoxemia, and dyspnea. It allows for the fast, safe treatment of undifferentiated respiratory distress with one user-friendly tool. Hi-VNI Technology's mask-free interface delivers optimally conditioned breathing gases, making it comfortable for patients and reducing

the risks and care complexities associated with mask therapies. While being treated, patients can talk, eat, drink and take oral medication.

**Website Information** Vapotherm routinely posts important information for investors on the Investor Relations section of its website, <u>http://investors.vapotherm.com/</u>. Vapotherm intends to use this website as a means of disclosing material, non-public information and for complying with Vapotherm's disclosure obligations under Regulation FD. Accordingly, investors should monitor the Investor Relations section of Vapotherm's website, in addition to following Vapotherm's press releases, Securities and Exchange Commission filings, public conference calls, presentations and webcasts. The information contained on, or that may be accessed through, Vapotherm's website is not incorporated by reference into, and is not a part of, this document.

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