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Xoran Technologies announces partnership with MakeMedical for distribution of Ventilator Splitters

ANN ARBOR, MI, June 5 – Xoran Technologies, the market leader in point-of-care cone beam CT, recently announced an agreement with MakeMedical, LLC – a company formed by University of Michigan inventors – to distribute its VentMI™ pressure regulator. Designed to allow the use of a single ventilator by multiple individuals, VentMI can address current and future potential ventilator shortages in the wake of the COVID-19 global pandemic.

“We were focused on developing a system that could at least double ventilator capacity,” said otolaryngologist Kyle Van Koevering, M.D., of the Department of Otolaryngology-Head and Neck Surgery at Michigan Medicine and an associate faculty member in the Department of Biomedical Engineering at Michigan Engineering. “We were looking for innovative ways to potentially help hospitals preparing for a ventilator shortage during the pandemic and beyond. The VentMI pressure regulator allows us to do just that, without compromising the health of our patients.” MakeMedical, LLC is a new company formed by UM inventors which licensed the technology from University of Michigan.

The VentMI ventilator splitter offers individualized pressure control that is uniquely adjustable to each patient. Its unique design minimizes cross-contamination. The ability to regulate the pressure of each patient individually addresses the limitations of other concepts. Combining pressure regulators and one-way valves, this system has been tested in simulated lung environments and recently received Emergency Use Authorization (EUA) from the U.S. Food and Drug Administration. As such, it is now available for purchase and use in hospitals, surgery centers, field hospitals, and stockpiling for future pandemic planning.

“VentMI takes minutes to set-up and is easy-to-use, meaning hospitals and care facilities can prepare for viral outbreaks and surges with minimal cost outlay, compared with hard-to-find and expensive ventilators,” says Xoran President David Sarment. “Xoran has a long history of collaboration with University of Michigan faculty and surgeons, so our partnership with MakeMedical just makes sense. We will be able to leverage our existing footprint in the intensive care unit (ICU), where our mobile xCAT IQ™ CT provides real-time imaging for critical care patients.”

Truly mobile, Xoran's xCAT IQ was designed specifically for the ICU and operating rooms in hospitals. Because the xCAT IQ is highly maneuverable in tight spaces *and* easy-to-use, patients can be scanned directly at their point-of-care and would not have to be transported out of surgery or recovery to a remotely located radiology suite for an often-necessary CT scan. Bringing mobile CT to the ICU may reduce transport through the hospital, keeping critical patients quarantined in the ICU.

Xoran's flagship product, MiniCAT™, is an upright, point-of-care CT for ENT and Allergy practices. Their xCAT suite of mobile CT systems and the LuminX series of digital radiography (DR) systems provide medical imaging for the OR, surgery center, ICU, urgent care facility, orthopedics office, and general X-ray facility. Additionally, Xoran offers the VetCAT™, a compact, easy-to-use CT scanner for Veterinarians.

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MakeMedical, LLC, a University of Michigan startup, specializes in the manufacture of high-fidelity medical simulators and the use of additive manufacturing technology in developing patient-first solutions. Founded in 2018 by University of Michigan Surgeons and industry leaders, MakeMedical seeks to improve healthcare by enhancing medical training and making devices more accessible.

Since 2001, Xoran Technologies, LLC is the pioneer and market leader in point-of-care, low radiation dose cone beam CT. Xoran is passionate about developing common sense, innovative technologies that enable physicians and surgeons to treat their patients more efficiently and effectively. Xoran is based in Ann Arbor, Michigan. For more information visit www.xorantech.com. ***Xoran makes the complex simple.***