



Oberon, Inc.
IC Sentinel Case Study

Memorial Sloan Kettering Cancer Center

Putting Patient Care and Safety First

Memorial Sloan Kettering Cancer Center was founded in 1884 as New York Cancer Hospital on Manhattan's Upper West Side.

At present, Memorial Sloan Kettering Cancer Center has 471 patient beds, a 72,000 sq. ft. surgical center, and a state-of-the-art treatment hub for outpatient procedures. There are more than a dozen multidisciplinary cancer care teams to ensure the best possible treatment of over 400 different sub-types of cancer each year.

According to *US News & World Report*, Memorial Sloan Kettering was ranked the number one hospital for cancer care in the country, and among the nation's top pediatric hospitals for cancer care in 2014-2015.

NETWORKED MONITORING OF THE PATIENT INDOOR AIR QUALITY ENVIRONMENT

After learning of the IC Sentinel Hospital Indoor Air Quality (IAQ) Monitoring System at a presentation during the 2013

Healthcare Facilities Symposium in Chicago, IL, Memorial Sloan Kettering decided to become a Beta customer and install the IC Sentinel IAQ system from Oberon throughout their main ICU suite.

The ICU suite spans the width of a city block, and treats a critically ill patient population. The IC Sentinel IAQ system was installed at five locations throughout the ICU. The system continually monitors air quality, including airborne particulates, CO₂, differential room pressure, humidity, sound levels, and light levels.

Of particular interest to Memorial Sloan Kettering was the system's ability to measure sound and light levels on a continuous, networked basis. Using the IC Sentinel software based solution, the staff at Memorial Sloan Kettering was able to view the data real time, and provided the basis of an ongoing clinical study evaluating the impact of the hospital ICU environment on patient outcomes and satisfaction.

Using the IC Sentinel system, data was collected over a multi-month period, and integrated on an hourly basis. The Biomedical Engineering staff at Memorial Sloan Kettering used the exported data from the IC Sentinel system to perform correlation studies. Preliminary data was presented at CHEST 2015, Montreal, Canada, in a study entitled “ Feasibility of Continuous Light and Sound Recording in an Oncologic ICU”.

“Continuously assessing light and sound in ICU patient rooms may contribute to increased consciousness on the part of ICU staff as to their role in calming the environment and may help decrease the incidence of delirium in ICU patients ”

- Neil Halpern, Chief of Critical Care
Memorial Sloan Kettering Cancer Center

IMPROVING THE ICU

Memorial Sloan Kettering now has the ability to monitor, record, and analyze the ICU environment on an ongoing basis. Using the software based data reduction tools and automated reports, they have the ability to be alerted to any changes in the ICU environment, and can easily process the data as needed in support of clinical trials.

ABOUT MEMORIAL SLOAN KETTERING

Memorial Sloan Kettering Cancer Center was founded in 1884, and is internationally recognized as a leader in cancer care. Today there are 471 patient beds, with 935 attending physicians providing state of the art care for cancer patients. Memorial Sloan Kettering is known for state of the art diagnostics, surgical expertise, a pioneering role in radiation therapy, and a leader in the development of new chemotherapy treatments. Educational collaborations with The Rockefeller University, Cornell University, and Weill Cornell Medical College offer PhD programs in chemical biology, computational biology, and medicine and the medical sciences.

ABOUT OBERON, INC.

Oberon is a forward thinking design, engineering, and manufacturing company that has combined function and aesthetics into its complete line of ceiling and wall mounted enclosures for securing wireless access points and other networking products. Founded in 1999 and headquartered in State College, PA, Oberon’s products and services have helped thousands of integrators and end users in the global healthcare, government, transportation & logistics, education, retail, hospitality, and manufacturing markets achieve reliable indoor network connection mobility.

IC Sentinel was added to Oberon’s product line in 2014 as a unique solution to strict new guidelines and regulations set by the FGI and CDC regarding indoor air quality and healthcare infection control.

For more information, please visit www.icsentinel.com

