

Hospital News™

www.hospitalnews.com

FEBRUARY 2017 EDITION | VOLUME 30 | ISSUE 2

INSIDE

INFECTION CONTROL SUPPLEMENT
See page C1



FOCUS IN THIS ISSUE

FACILITIES MANAGEMENT AND DESIGN/GREENING HEALTHCARE/INFECTION CONTROL:

Innovative and efficient health care design, the greening of healthcare and facilities management. An update on the impact of information technology on health care delivery. Advancements in infection control in hospital settings.

INSIDE

From the CEO's desk.....	14
Evidence Matters.....	15
Safe Medication.....	18
Trends in Transformation.....	20
Doctors Without Borders.....	21
Nursing Pulse.....	26
Careers.....	27



Canada's first smart hospital

Mackenzie Vaughan Hospital is becoming a reality

Story on page 6

Benefits that work full time - for those who don't.



While you're caring for patients, who's caring for you?

A Plan for Everyone GUARANTEED

A Benefits Plan for part-time and casual hospital employees, and all hospital retirees.



Visit www.healthcareproviders.ca or call 1-866-768-1477

A new weapon against infection

By Elaine O'Connor

Michael Anson, occupational health practitioner. "We take the cart right to where staff members are, and with the cart we bring educational messages that can help alleviate any concerns that staff members might have about the vaccine, promoting a more positive attitude towards it." Having the cart in addition to the regular availability of the vaccine in the occupational health department makes it easy and convenient for staff to get their flu shots, pushing vaccination rates higher and higher.

Throughout the course of the campaign, up-to-date vaccination records are kept by the occupational health department. The rates are regularly reviewed by the team to analyze the hospital's progress and if there is a department with a low participation rate, the team makes additional education and increases mobile flu shot cart access for staff in that department.

Barrameda's continual commitment to its annual flu shot campaign is a demonstration of how seriously it takes the health of its patients, staff, volunteers and visitors.

"The decision to bring both education and the flu shot directly to staff has really had a big impact on this year's campaign," says Anson. "The fact that such a high number of our staff have rolled up their sleeves to get the vaccine really highlights the dedication to patient safety that exists at Barrameda." ■

Roxanne Hathway-Ratner, Michael O'Rourke are Communication Specialist at Barrameda Healthcare Centre.

Barrameda Hospital has a new weapon against infection, the Germinator.

That's the light-beamed name employees have given to the new Xenex Light Strike Floor cleaning machine. So it means serious business for patient care.

Truist Health Infection Prevention and Control launched the Ultraviolet Germicidal Irradiation (UVGI) machine trials last month in three facilities: Burnaby, Ridge Meadows, and Abbotsford Regional Hospitals.

UVGI machines are cutting edge technology designed to reduce bacteria and viruses in healthcare facilities in tandem with traditional housekeeping and chemical cleaning methods. The machines emit short pulses of UV light which have a germicidal effect on airborne microbes that normally linger on surfaces. The light damages the DNA and RNA of antibiotic-resistant pathogens including C. diff (*Clostridium difficile*), MRSA (methicillin-resistant *Staphylococcus aureus*), and vancomycin-resistant enterococci (VRE).

UVGI machines are cutting edge technology designed to reduce bacteria and viruses in healthcare facilities in tandem with traditional housekeeping and chemical cleaning methods

Hospital-acquired infections are a global concern. US Centers for Disease Control and Prevention statistics show one in every 25 patients contracts an infection while in hospital such as MRSA or C. diff and one in nine of these patients will die from their infection. In Canada, more than 200,000 patients contract infections in hospital each year and an estimated 6,000 will die.

The three sites, dubbed "Violet" at Ridge Meadows and "The Force" at Abbotsford Regional) began their cleaning rounds in mid-November in selected areas where there have been issues with hospital-acquired infections. The machines will be trialed for six months through to mid-March. "Environmental cleaning is an essential component of our multi-pronged approach to reducing hospital-acquired infections," says Executive Medical Director of Infection Prevention and Control, Dr. Elizabeth Proskin. "The Germinator adds an additional layer on top of the good work our staff and cleaners do every day to keep our patients safe."

The hospitals expect to see reduced rates of hospital-acquired infections along with a reduction in the costs associated with treating them, plus fewer outbreaks, better patient outcomes, decreased patient lengths-of-stay and a reduction in congestion at the sites. Some studies have shown that UV disinfection achieves a 99.4 per cent reduction in MRSA and a 100 per cent reduction in VRE. An earlier trial at Sunny Memorial Hospital demonstrated an 80 per cent reduction in bacteria cultured from surfaces in patient rooms, following disinfection with UVGI.

Continued on page C10

DDC DOLPHIN
Specialists in soiled utility room solutions

Does your facility struggle with outbreaks of HCAI's?

Effective human waste management will improve infection control by minimizing the risk of HCAI's.

We engineer and manufacture pulp macerators for the safe & complete disposal of single use human waste containers.

Our range of Pulpomatic pulp macerators:-

- > Reduce the risk of cross infection using hands free technology
- > Feature antimicrobial surfaces to eliminate growth of harmful bacteria
- > Incorporate antiblockage systems to ensure complete waste removal

DDC Dolphin Canada Inc.
Tel: 604 213 6648 | Email: canada@ddcdolphin.com
www.ddcdolphin.com

www.hospitalnews.com

DDC DOLPHIN Specialists in soiled utility room solutions

The evolution of human waste management

Due to the increasing number of outbreaks of infections caused by high risk microorganisms such as C. difficile, and the inability of conventional methods to completely eliminate the risk of cross-infection, many global healthcare establishments are now moving away from using reusable human waste containers. These are instead being replaced with single-use 'pulp' containers, which allow for subsequent maceration and disposal of the pulp bedpan, as an alternative, and extremely reliable, means of total infection control.

Macerators will completely destroy both the pulp bedpan and urine bottle container and contents, including macerator-friendly wipes, tissues, etc. by pulverizing items into small particles using carefully designed blade technology.

Furthermore, as well as eliminating any potential contamination risk arising from reusable products, pulp macerators offer much faster cycle times, typically less than 2 minutes, thereby enhancing work efficiency, while soiled utensils do not need to be emptied or rinsed before being put in to the macerator.

All DDC Dolphin Pulpomatic macerators have patented hands free technology offering completely hands free operation, the latest antimicrobial materials in their lid construction and automatic disinfection of the internal chamber post maceration. All these features help to greatly reduce the risk of cross contamination by eliminating the growth of harmful bacteria and reducing the spread of infectious diseases through contact, effectively improving infection control standards.

The efficient operation of Pulpomatic macerators translates into significant savings in terms of staff time, water and electrical consumption.

DDC Dolphin Canada Inc.
Tel: 604 213 6648 | Email: canada@ddcdolphin.com
www.ddcdolphin.com

FEBRUARY 2015 HOSPITAL NEWS

New weapon

Continued from page C7

In December, Fraser Health President and CEO Michael Marchbank, Vice President of Patient Experience Linda Dempster and Dr. Fredkin visited Burnaby Hospital to catch the Germinator in action. Burnaby Executive Director Sheila Pittmore, Director of Clinical Operations Coriella Sell and Infection Prevention and Control consultant Paul Ibrahimov gave a demonstration of the robot at work in a Medicine ward, where the machine disinfected a patient room with germicidal UV light.

Patients have been enthusiastic about the enhanced cleaning, despite the fact they must be moved from the room during the treatment, which can take about 20 minutes for a small patient room and more for larger areas.

Sell, the Clinical Operations Director, said the pilot has been well received by patients.

"We're really seeing the comfort that a deep clean of the environment brings to patients and their families," she says. "The Germinator is a unique and very tangible way of showing our Burnaby community how much we care about their health and wellbeing and we're thankful to our Ara-

mark team, which has been so willing to support this quality initiative and to go the extra mile."

The UV light that is used is bright, and while UV doesn't penetrate deeply into tissues, it could cause slight damage to skin in the form of sunburn-like redness or sunburn sensitivity. For this reason, the disinfection units are operated by specially trained personnel and only in unoccupied rooms.

The UV rays can't penetrate doors, glass or plastic, and no UV radiation remains once the unit is turned off, so there is no issue with exposure to individuals outside of the room — it's safe to watch through a window. To prevent accidental exposure, the machine is also equipped with motion sensors to shut it down if they detect movement, and warning signs are posted outside the door during cleaning. It gives off a faint, harmless scent of ozone after cleaning.

Can-ado Hajer Thind agreed patients have been enthusiastic about the enhanced cleaning, despite the fact they must be moved from the room during the treatment, which can take about 20 minutes for a small patient room and more for larger areas.

"I explain to them that it is a deep clean and their room will be much germ-free because we are trying to control the infection more," Thind says. "As soon as they enter the room again and know it is really clean, you can see it on their face, they really love it."

Elaine O'Connor is a Senior Communications Consultant at Fraser Health.



Fraser Health CEO Michael Marchbank with the germ-zapping robot.

CAN YOU IMAGINE A HOSPITAL THAT PROVIDES A SAFE HAVEN FOR YOUR PATIENTS?

A hospital room that can be disinfected by a robot in the span of a minute.

A robot that can reduce bacteria almost 100%.

A robot that can reduce bacteria almost 100%.

A mobile disinfection system that provides 100% infection-free zones.

CLASS INC.
Building Better Healthcare

CHAIR
Coalition for Healthcare Acquired Infection Reduction

Our vision is an **80% reduction** in Healthcare Acquired Infections by 2024

- 200,000 people in Canada get an infection from a hospital each year
- 5% (10,000) will die
- Healthcare acquired infections cost us \$4-5 billion EACH year

Join the Coalition for Healthcare Acquired Infection Reduction (CHAIR)

CHAIR
Coalition for Healthcare Acquired Infection Reduction

@chaircanada
info@chaircanada.org
www.chaircanada.org