

VGH OR RENEWAL PROJECT

PROGRESS

BY THE NUMBERS



7 site visits
TO OTHER HOSPITALS



9 PCU tabletop sessions



9 PCU mock-ups



9 OR dollhouse sessions



16 OR mock-ups

4 CEAN meetings



WITH PATIENT & FAMILY REPRESENTATIVES

20 infrastructure meetings



1 contract signed:
BOOMS, LIGHTS & EQUIPMENT



150+ Physicians, nurses, allied health professionals, staff & patients contributed to the design

175+ engagement meetings

INCLUDING:
ADJACENT SPACES
PROJECT TEAM
EQUIPMENT PLANNING
DEPARTMENT & USER GROUPS



In this Issue

VGH OR Renewal Project
Progress by the numbers

Designing the future of
surgery together

New surgical suite
designed for users by users

2018 Work Streams

Grand Rounds - April 25

Designing the future of surgery together

Since the VGH OR Renewal Project was announced in February 2017, VGH perioperative physicians, staff and support services colleagues have been working in earnest to design our new surgical suite.

So far, more than 150 physicians, nurses, allied health professionals and other staff have participated in exercises and meetings (see image above) to shape the future of surgery at VGH. Patients and family representatives from the VCH Community Engagement Advisory Network (CEAN) have participated too.

"It's remarkable to see how much we've accomplished in just one year," says John Filer, clinical project manager. "So many people have come together, determined to create the best space possible for patients and care providers."

Learning from colleagues and leading experts and hospitals in North America, the project team is finalizing design plans and preparing to shift the project into the next phase.

"I look forward to revealing our final designs and discussing demolition and construction at April's Grand Rounds," says John. "Our work has only just begun."

Learn more at the VGH Grand Rounds on April 25. See page 4 for details.

New surgical suite designed for users by users

OR dollhouse sessions

Representatives from the perioperative surgical program attended nine OR dollhouse sessions in a collaborative effort to determine the starting point for designs. This starting point informed the OR mock-ups. The exercise engaged all VGH surgical services.

"The nursing perspective is unique and essential for a safe and efficient OR layout," says Kelly-Anne Karse, head nurse, VGH OR Control Desk.



The perioperative surgical program makes models of the new ORs using 3-D printed pieces.



Testing OR design functionality during mock-ups.

OR mock-ups

During 16 OR mock-up sessions, representatives from the perioperative surgical program put their recommendations to the test in a variety of case scenarios to determine the safest and most efficient ways of working in the new ORs.

"The project team's making every effort to ensure we have a say in how things will take shape."

- Dr. Alex Lee, thoracic surgeon

Human Factors

The new ORs need to be functional and ergonomic to provide the safest working environment. During the design process, we worked with a Human Factors team to scientifically study, evaluate and understand how to design and work in the ORs in order to optimize safety, well-being and overall performance.

Shifting to booms in the ORs will free up valuable floor space and reduce clutter for improved infection control.

Enabling infrastructure

Design work supporting the necessary infrastructure upgrades, including enhanced plumbing, electrical and HVAC to support new equipment and technologies, is underway.

The location for the surgical centre's new elevator has been decided and demolition will begin soon.

Innovative ideas

The new surgical suite will feature many state-of-the-art features.

Based on Dr. Andrea MacNeill's ground-breaking research, the plan is to recapture anesthetic gases to reduce our carbon footprint.

Equipment planning

Working with clinical teams, we've been updating and validating equipment lists to better understand what we currently have and what our needs will be when operating across two floors.

Equipment storage

There will be substantial storage. The Canadian Standards Association (CSA) sets a minimum of 4.6 sq. metres of equipment storage space per OR. Our plan is to build 9.2 sq. metres of storage space per OR for storing general and imaging equipment. We're also reserving additional space to be used for storage in the future.

IT improvements

To ensure the necessary technology is available prior to the construction of the new ORs, projects to stabilize OR trackerboards and upgrade the infrastructure for Vocera badges are underway.

The Request for Proposals (RFP) for our first-ever Real-Time Location Service (RTLS) to track equipment is underway and will be complete later this year.



Upgrades are underway on the infrastructure supporting Vocera badges.



Project team members on a site visit to Columbia Hospital in New York.

Site visits

To inform the design of our ORs, members of the VGH OR Renewal Project team visited seven recently redeveloped hospitals in the US and Canada, including Johns Hopkins Hospital in Baltimore, MD and BC Children's Hospital here in Vancouver.

PCU tabletop design

Representatives from the perioperative surgical program attended nine tabletop design sessions in a collaborative effort to ensure the new Perioperative Care Unit provides enhanced patient and family privacy, maximizes space and storage efficiency, and accommodates fixed and movable items. The exercise engaged Anesthesiology, PCC (pre-op) and PACU (post-op) staff, and many more. The tabletop informed the PCU mock-up exercises.



"The project team and architects have been keen to work with us." - Rea Blyth, PACU nurse.

Staff spaces

Through consultation with perioperative staff, we have finalized the locations of support spaces such as the control desk, slating office, education spaces and administrative areas.

Lockers and lounge

The locker room will have enough lockers for everyone to keep their street clothes, backpacks and other non-essential items outside the ORs. Four lockers will be located outside each OR for items not needed during the case. Breastfeeding space will be available close to the lounge.

PCU mock-ups

Using information from the PCU tabletops, representatives from the perioperative surgical program worked together during a series of nine mock-ups of the new 40-bed Perioperative Care Unit, testing work flows and patient care scenarios to refine the design.



Staff running a test scenario in the PCU mock-up space.

Construction

We're entering the construction phase of the project. Primary designs will be converted into construction documents and we are in the process of hiring a construction manager.

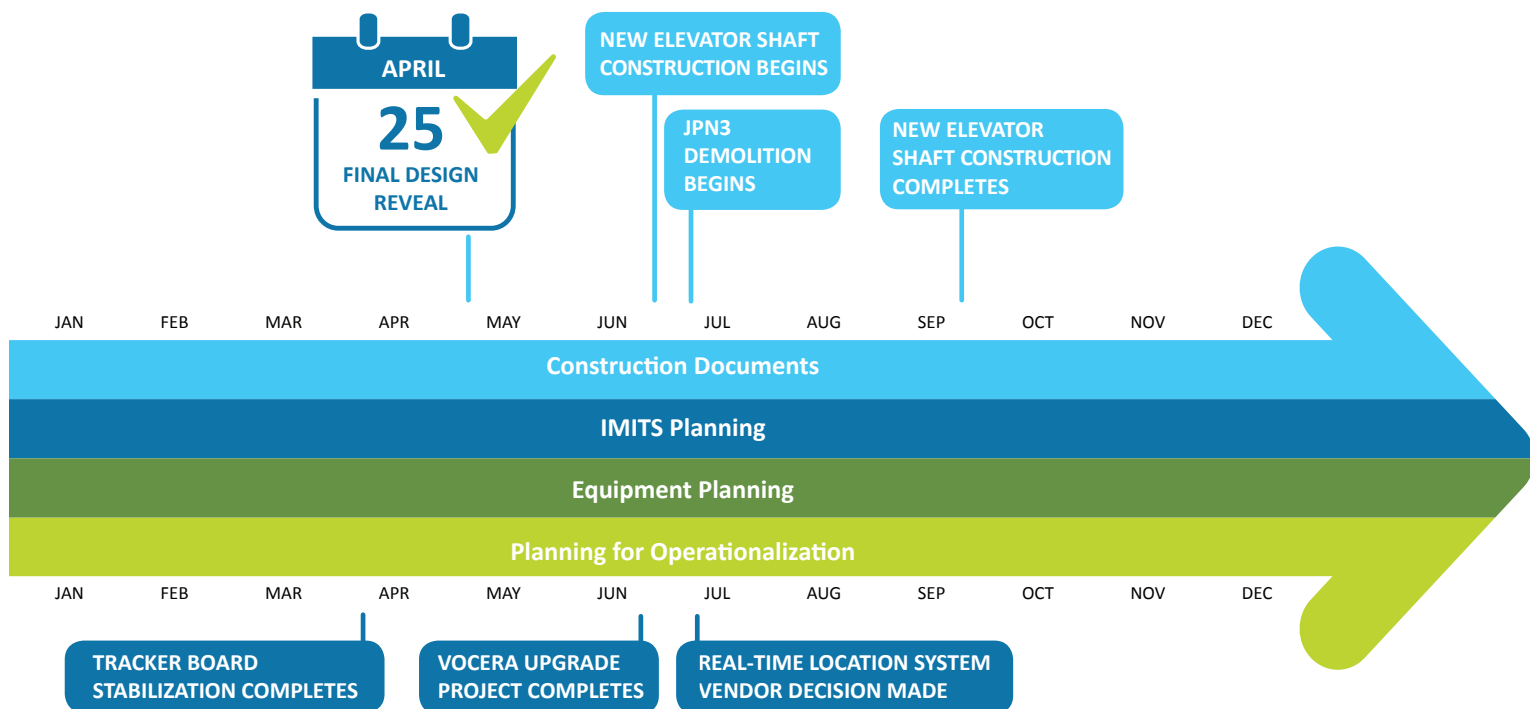
Patient and family perspective

Members of the VCH Community Engagement Advisory Network (CEAN) ensured patient and family perspectives enriched our plans too, providing feedback on the design and amenities for the new surgical suite waiting room, as well as patient and family communications solutions.



CEAN members provide feedback on the design of the third floor family waiting room.

2018 Work Streams



Grand Rounds - April 25

Join us Wednesday, April 25 - 7 to 8 a.m.
Diamond Health Care Centre Lecture Theatre

Missed January's Grand Rounds? Watch the webcast:
<https://goo.gl/aCSM2V>

Inside our new OR Suite

When completed in January 2021, this \$102.4-million project—funded in partnership by VCH, the Province of British Columbia and the VGH & UBC Hospital Foundation—will transform our surgical centre, providing:

- 16 state-of-the-art and universally sized ORs
- a 40-bed consolidated pre- and post-operative unit
- 1 new elevator serving JPP 2 and 3
- new equipment and technology, including communication systems to manage activities across two floors
- upgraded infrastructure, including HVAC, electrical and plumbing
- additional storage, new administrative spaces and a new staff lounge

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For more information, visit: <http://vch-connect/programs/renewalproject/Pages/default.aspx>