UNIVERSITY OF WASHINGTON

INSTITUTE FOR SIMULATION AND INTERPROFESSIONAL STUDIES
AT HARBORVIEW MEDICAL CENTER

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Harborview Medical Center (HMC)

- Owned by King County
- Operated by University of Washington
- Level 1 Trauma Center serving Washington, Wyoming, Alaska, Montana and Idaho (“WWAMI”)

UW School of Medicine (UWSOM)

- Over 30 Clinical & Basic Science Departments
- #1 Recipient of NIH funds for a public institution
- Faculty and Trainees Work at UW Medicine Sites, i.e. HMC
THE INSTITUTE GOVERNANCE

Board Chair

Dean, Chief Operations Officer, Chief Executive Officers, Chief Medical Officers, Chief Nursing Officers, Vice Deans, Department Chairs

Exec. Director

Curriculum

R&D

Pt Safety & Quality

Faculty Development
THE BEGINNING: HOW WE PLANNED

Harborview 9th & Jefferson Building
THE BEGINNING: HOW WE PLANNED

Coalescing of Political Will

Single Department’s Need → Institutional Common Good
THE BEGINNING: HOW WE PLANNED

Versatility

Connectivity
Mutual interest between SOM and HMC in building additional space:

- HMC seeking to increase operating rooms, inpatient beds, clinic capacity
- UW seeking to identify more research and administrative space for faculty based at HMC, including expanded space for the UW Institute

Solution: two phases, two buildings

- Maleng Building: additional ORs, inpatient beds, clinics
- Ninth and Jefferson Building: clinics, research and administrative space
Mechanism: IRS Section 63-20 bond funding

- HMC and King County partnered with National Development Council Public-Private Partnerships (NDCPPP)
- King County backs the bond
- HMC pays off the bond from operating income, leases and research indirects
- When bond is paid off, the building returns to King County
COSTS AND LEASING

Initial costs
- 3rd floor “envelope” $1.9M or $226 / ft²
- Equipment costs: $1.0M (mainly lighting and AV)

Institute leases space from HMC
- Approximately 16% of budget
- Leasing is proportionate to other institutional costs

Pie chart showing budget distribution:
- Faculty Salaries: 16.7%
- Staff Salaries: 16.5%
- Benefits: 16.2%
- Services: 1.8%
- Travel: 1.7%
- Supplies & Materials: 2.9%
- Equipment & Library: 1.0%
- NJB Expenses: 1.0%
EDUCATION AND TRAINING

Over 30 Departments and Programs

- Harborview (HMC) – Neurological Surgery, Nursing Education, Orthopedics, Otolaryngology, Emergency Medicine

Learners

- Healthcare Professional Training
- Resident and Fellow Training
- Student Training
## UTILIZATION DATA: FISCAL YEAR 2015

<table>
<thead>
<tr>
<th>Site</th>
<th>Activities</th>
<th>Learners</th>
<th>Learner Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>HMC</td>
<td>595</td>
<td>6,723</td>
<td>40,539</td>
</tr>
<tr>
<td>UWMC</td>
<td>615</td>
<td>4,728</td>
<td>13,372</td>
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<tr>
<td>TOTAL</td>
<td>1,210</td>
<td>11,451</td>
<td>53,911</td>
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UTILIZATION RATE: HMC LEARNER HOURS

- Nursing Education (32%)
- Surgical Specialties (21%)
- IPE Team Training Community Outreach (34%)
- Emergency (7%)
- Medics (3%)
- Other (3%)
TEAM-BASED INTERPROFESSIONAL TRAINING SIMULATIONS (TEAMBITS)

- Over 300 students from UW Schools of Medicine, Nursing, Pharmacy, and Physician Assistant programs.
- Immersive simulation with focus on team training.

“I now realize how important it is to know each team member’s role and to have frequent, brief huddles.” – Nursing Student

“Such a great experience…I would like to see more of this incorporated into medical school education!” – Medical Student
OTHER USES OF THE INSTITUTE

Simulation Research

Teamwork, Validation Studies

Device Design and Testing

Low Cost High Fidelity Methods

Industry Usage

Weekend/After Hour Rentals
TECHNOLOGY

- Cameras, Microphones, Auxiliary Media Inputs
- A/V Routing, Networking
- Any Input To Any Output
EDUCATIONAL MEDIA PRODUCTION

- Resources For Curriculum Content
- Expand Functionality Of Infrastructure Technology
SURGICAL BROADCASTS

- Haivision Secure Streaming
- Built-In Auxiliary Media and Routing

UW Medicine
CURRENT NEEDS

- **Shared equipment use**: Organized and accessible storage space
- **Simultaneous courses**: Divisible multi-purpose rooms
- **Wet and dry labs**: Easy to clean, reminders for changeover
- **After hours access**: Can grant restricted access for practice or research

UW Medicine
FUTURE NEEDS

- **New or refreshed courses**: Use our database to track effectiveness of new trainings and implementations

- **Online access to materials**: Production services available that make use of our open design

- **Mobile simulation**: Simulations designed to be flexible for different environments are already primed to take on the road
LESSONS LEARNED

1. Central Governance Structure
   Partnership Between Medical School and Clinical Enterprise

2. Investment in Human Capital
   Staff Professional Development & Promotion Pathway

3. Value Driven Technology Use
   Low Cost High Fidelity Technology Solutions
THANK YOU
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