

The Virtual Ward

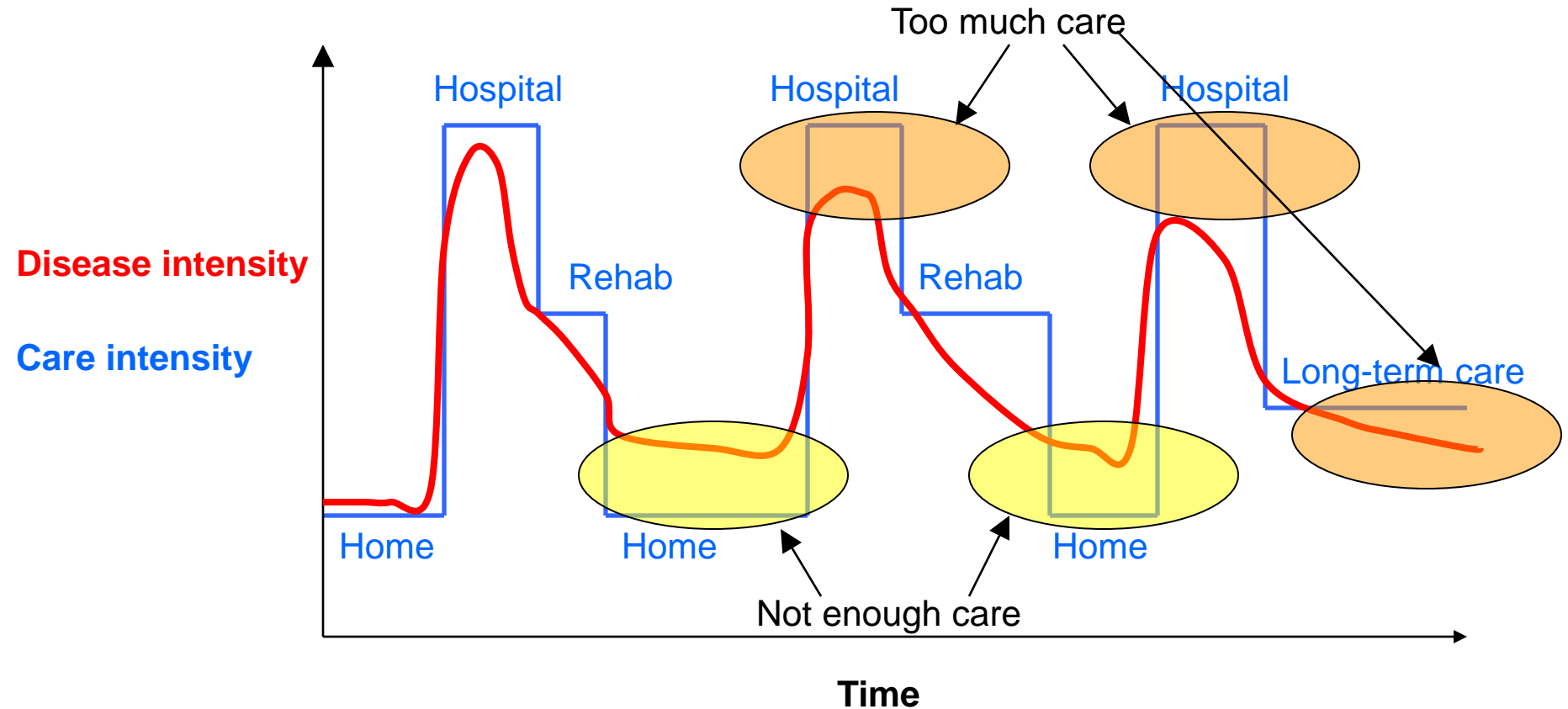
An Integrated Care Model for Hospital-to-Home Transitions
for Adults with Complex Health Care Needs

A partnership between acute, community and primary care
providers

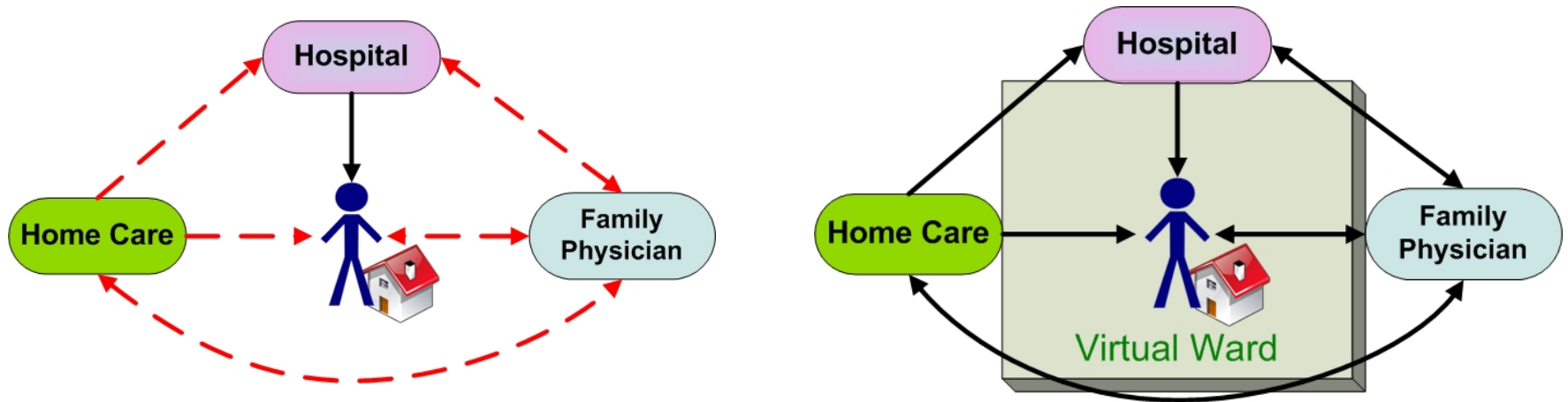
The scale of the problem

- 26 000 adult medical admissions in Toronto Central LHIN each year
 - 30 day readmission rate is 13% = 3270 readmissions
 - 90 day readmission rate is 21% = 5440 readmissions
- Average readmission costs ~\$11000 in hospital costs alone
- Total cost of readmissions to hospital within 90 days
 - **Approximately \$60 000 000 in Toronto Central LHIN alone**
- If we could reduce readmissions by 50%
 - Cost savings of \$30 000 000 in TC LHIN alone
- If we could reduce readmissions by 25%
 - Cost savings of \$15 000 000 in TC LHIN alone

Why focus on care after discharge?

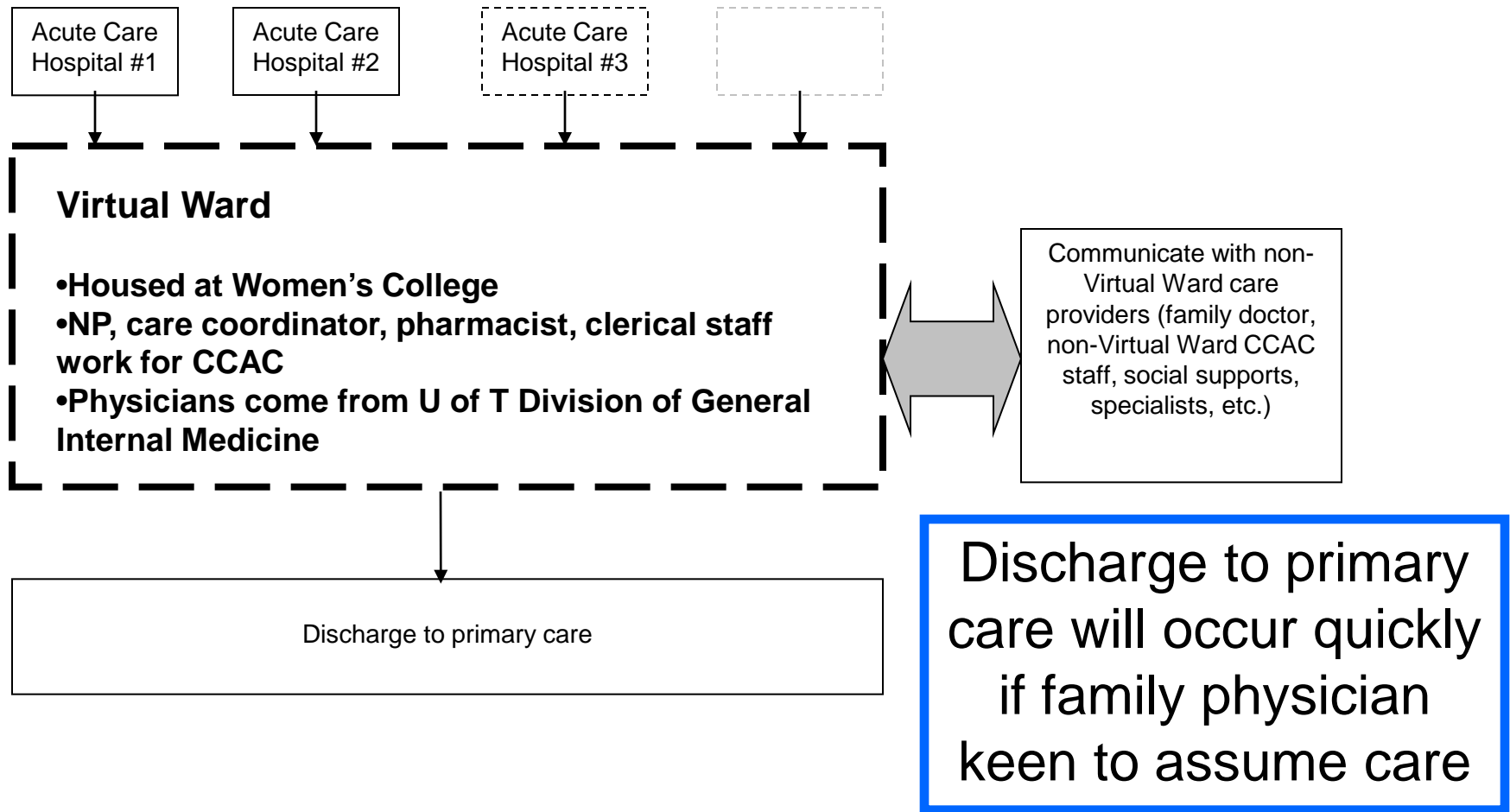


The Virtual Ward model

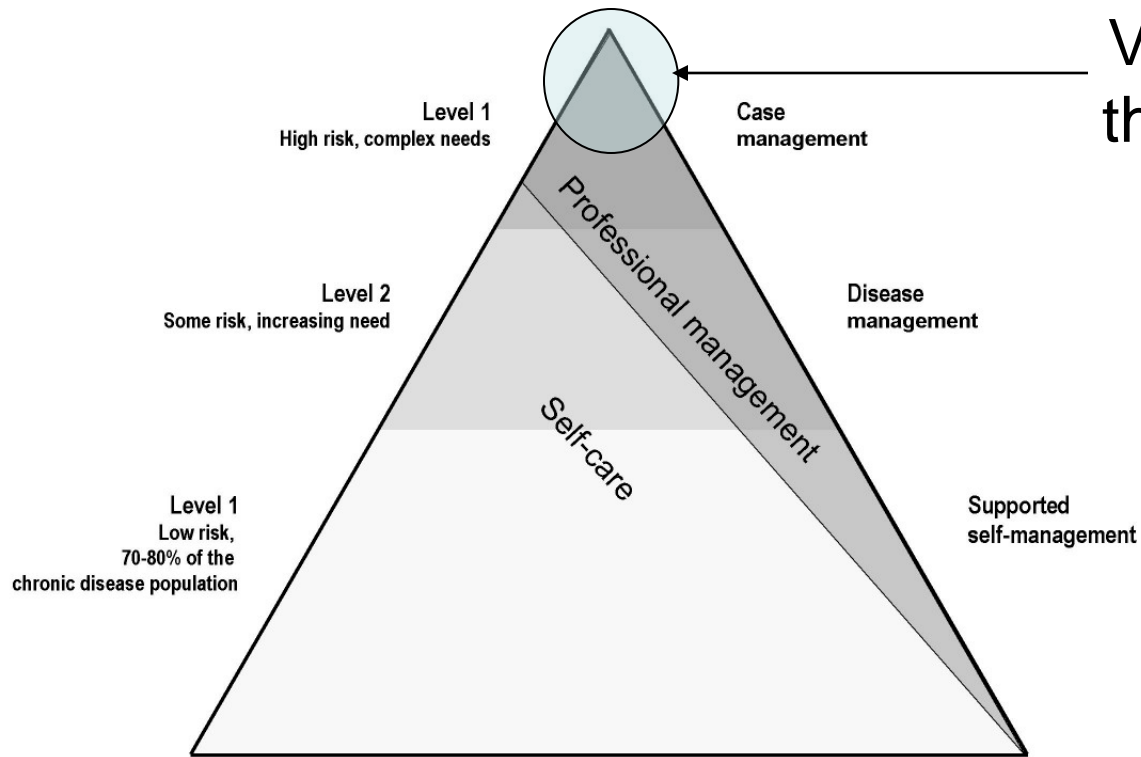


- Interdisciplinary team (including a VW physician)
- Family physician involved throughout
- Daily rounds to discuss patients
- Care coordination
- Shared notes
- Single point of contact with 24/7 physician availability

The Virtual Ward model



Chronic care pyramid



Virtual ward focuses on the highest-risk patients

Readmission risk

- Can be predicted at the time of discharge using the LACE index (van Walraven et al, CMAJ 2010)
- 1/3 of TC LHIN discharges have a predicted 90 day readmission of 32%
- Virtual ward will focus on these high-risk patients

Why focus on care after discharge?

- Lots of “low-hanging fruit”
 - Communication could be strengthened
 - Collaboration could be improved
 - Medications could be reconciled
 - Patients could be monitored more closely
 - Social supports could be increased or tailored
 - Patients could be educated about how to manage their health problems
 - Very few places to seek urgent (but not emergent) post-discharge care → patients end up back in ER

Benefits of a Virtual Ward

- **Reduced ED use and therefore ED wait times**
- **Increased ability to “age at home” → reduced LTC use (and fewer ALC days)**
- Improved patient outcomes
- Fewer patients “falling through the cracks”
- **Increased support for primary care providers**
- Platform for interdisciplinary education

- **Cost saving → cost of readmissions likely to exceed cost of running a virtual ward**

- **Opportunity to test a model for integrating multiple sectors/organizations**

How will family doctors be involved?

- Discussion with family physician
 - on Day 1 of admission
 - as needed/desired during Virtual Ward admission
- Discharge plan from Virtual Ward created by VW team and family physician

Evaluation

- **Researchers from ICES, Li Ka Shing Knowledge Institute and Women's College Research Institute working collaboratively**
 - **Primary evaluation will focus on readmissions**
 - Final results in 2 years
 - **Additional evaluations will focus on**
 - Provider/patient perspectives (qualitative)
 - Process/utilization tracking
 - Quality improvement
 - Economic evaluation
-

Acknowledgements

Founding partners:

St. Michael's

Inspired Care.
Inspiring Science.



Women's
College
Hospital



University Health Network

Toronto General Hospital Toronto Western Hospital Princess Margaret Hospital

Funding provided by:



Medicine
UNIVERSITY OF TORONTO



Canadian Institutes
of Health Research

Instituts de recherche
en santé du Canada