

# Simulated co-location of inpatients on an internal medicine ward

CSIM 2018

Andrew Appleton MD, FRCPC, MHSc, CHE  
Assistant Professor, Division of GIM



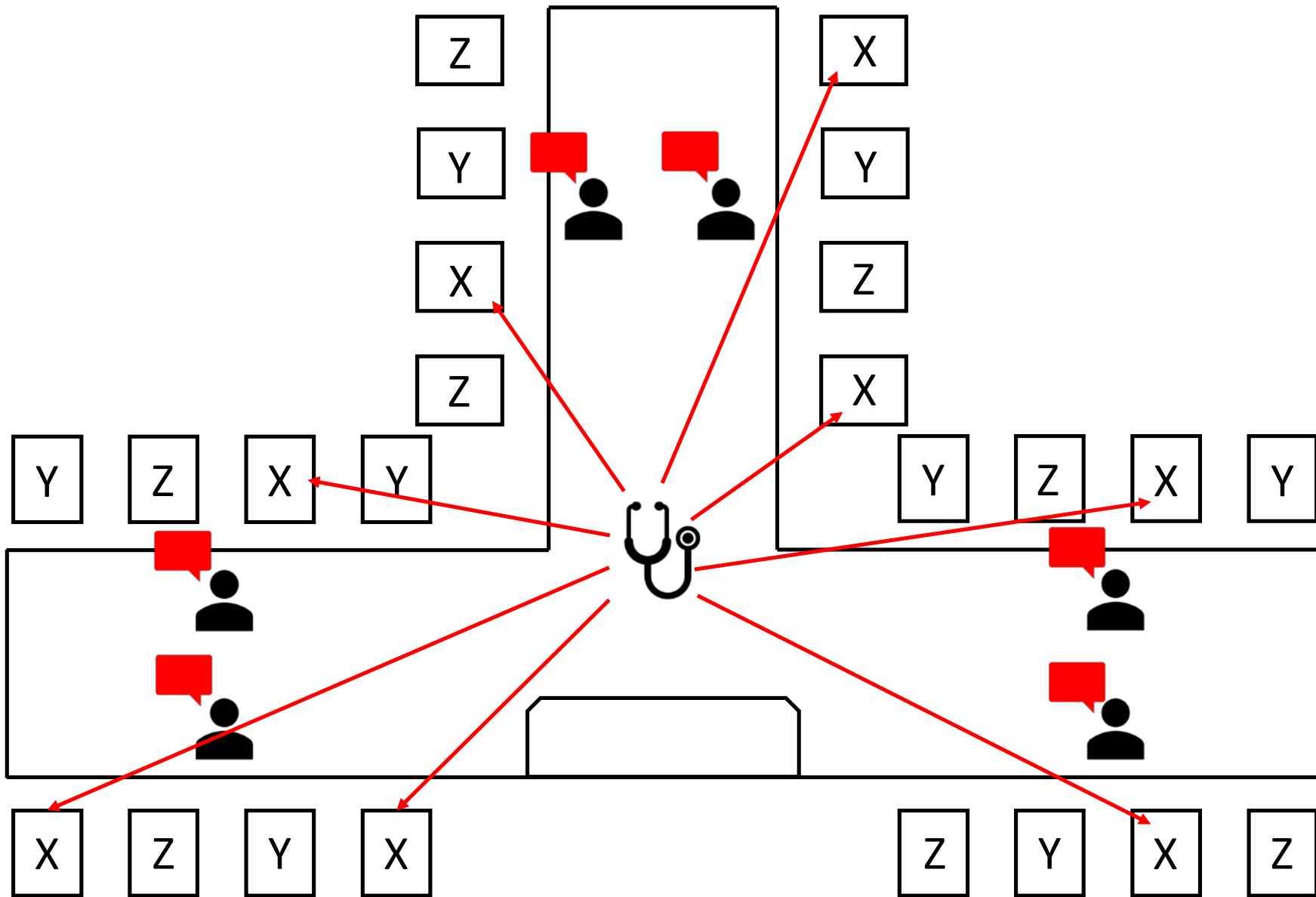
67m!!

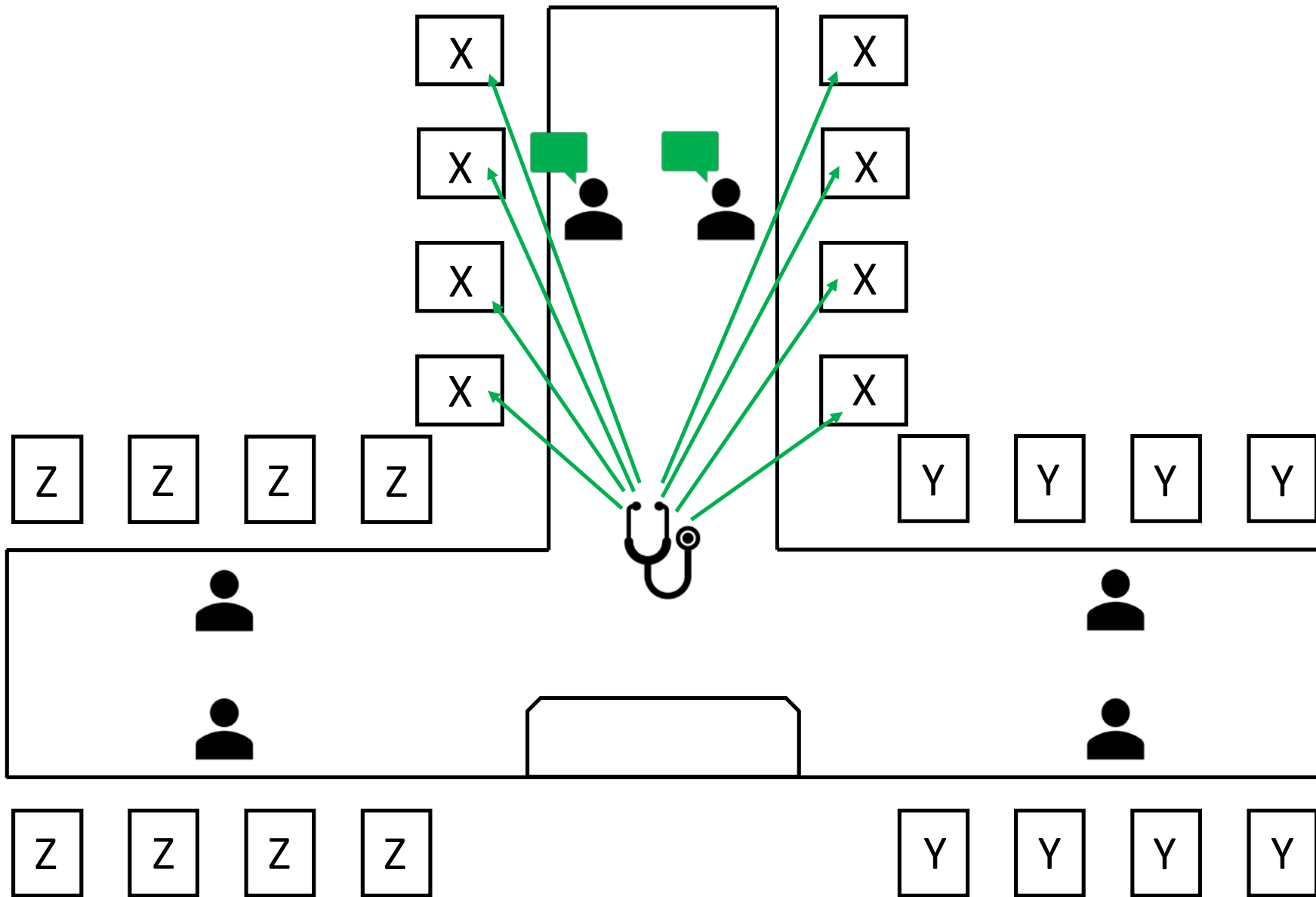
# CSIM Annual Meeting – Conflict Disclosures

- None...

# Learning Objectives

- Identify the benefits of applying an operations research approach to health care settings
- Consider how the admissions process and ward layout may impact interdisciplinary communication





$$X: \quad 24 + 4 - 4 = 24$$

$$Y: \quad 24 + 4 - 8 = 20$$

$$Z: \quad 24 + 4 - 0 = 28$$

# The Rules

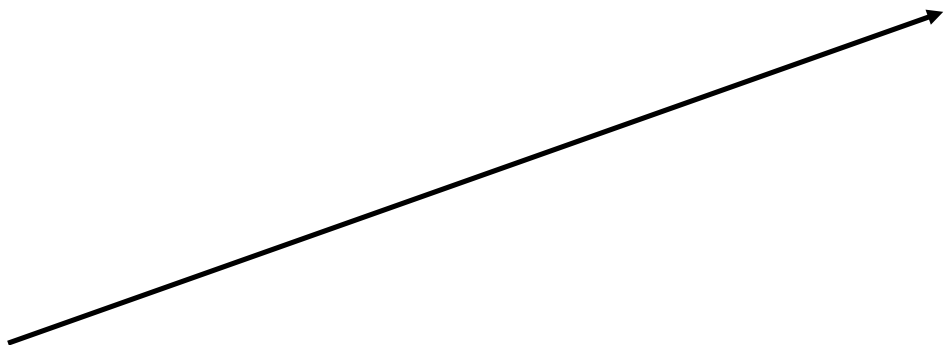
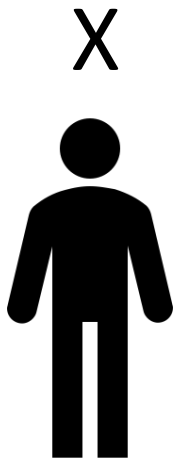
Designate the beds

If bed available: assign new patient to corresponding team

If no bed available: assign new patient to team with lowest census

Switch teams if bed from a different team opens first





X-23

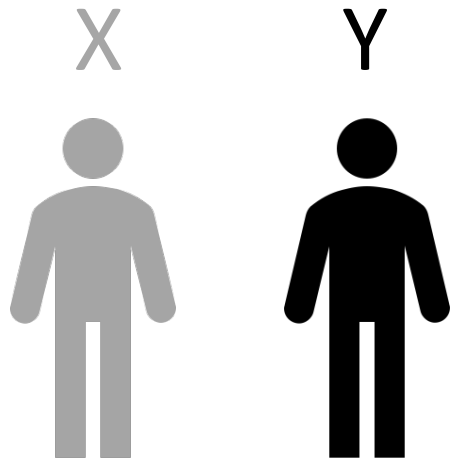
Open

Y-20

Occupied

Z-22

Occupied



X-24

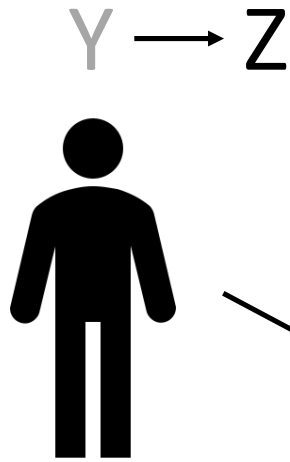
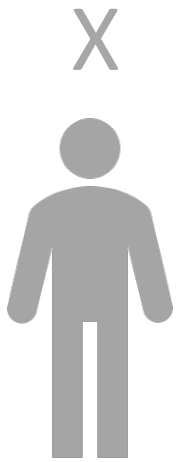
Occupied

Y-20

Occupied

Z-22

Occupied



X-24

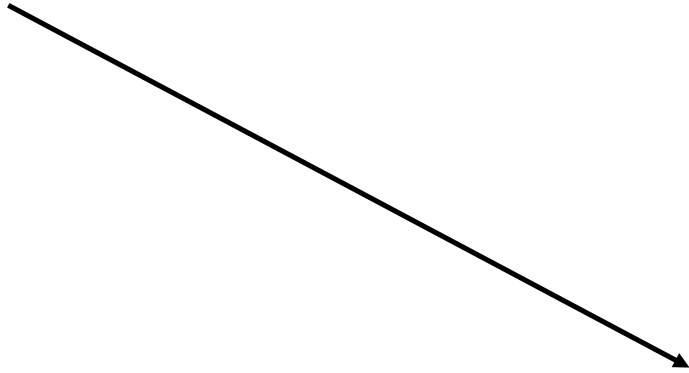
Occupied

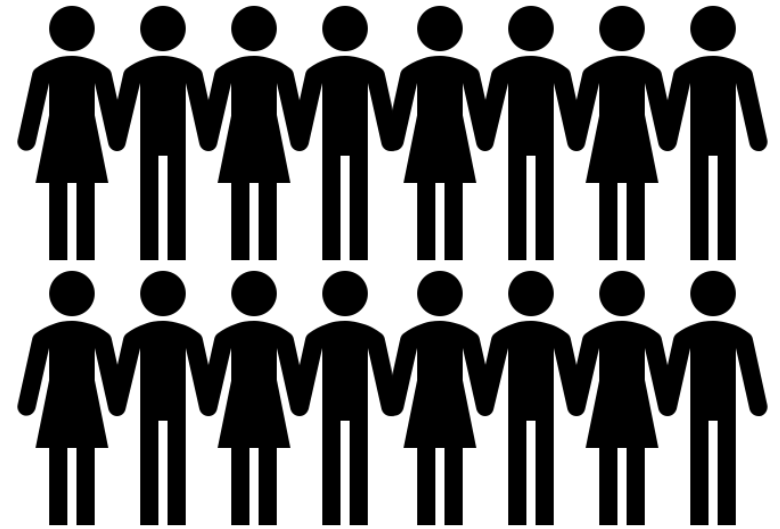
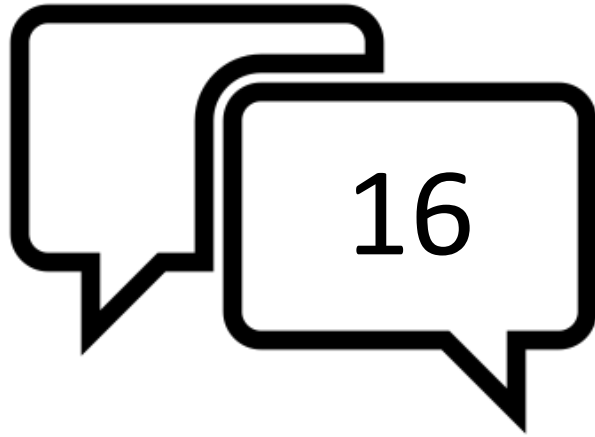
Y-20

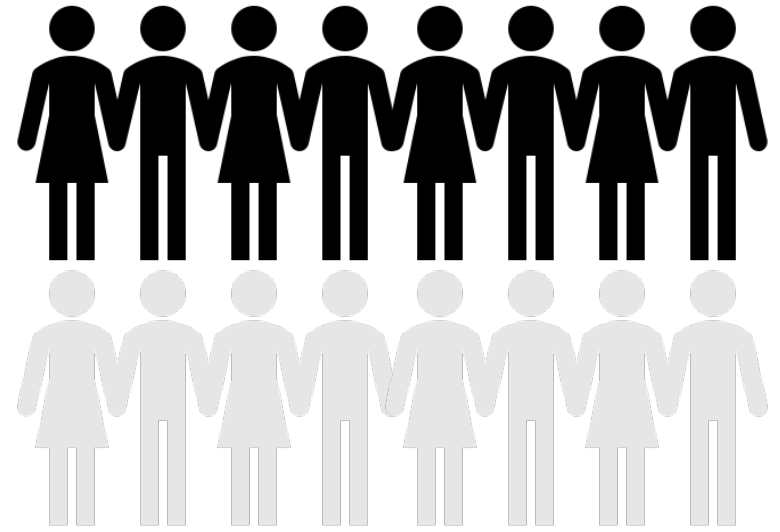
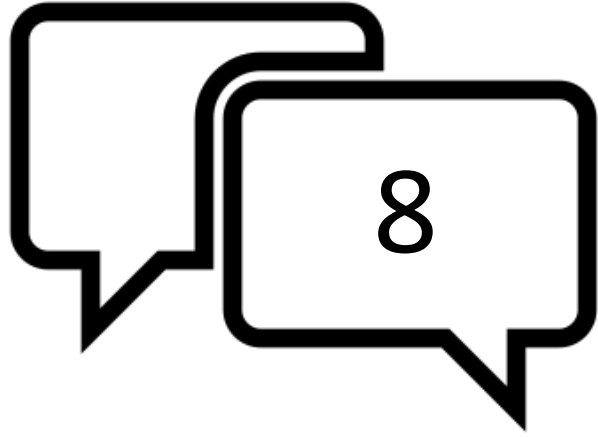
Occupied

Z-22

Open









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