**SUPPLEMENTAL MATERIAL**

### Supplementary Table S1. Inpatient Unit Classifications.

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| **Group***a* | **Abbreviation** | **Unit** |
| A | SSU 2 | Medicine Short Stay |
|  | MED 4 | Acute Medicine 4 |
|  | MED 2 | Acute Medicine 2 |
|  | MED 1 | Acute Medicine 1 |
|  | SURG 2 | Trauma unit |
|  | STDU-SURG | Thoracic, Plastic, and ENT Surgery Stepdown Unit |
|  | ORTHO | Orthopaedics |
|  | MED 3 | Acute Medicine 3 |
|  | ONC 3 | Adult Medical Oncology/Hematology |
|  | MEDSURG 1 | Solid (Liver and Kidney) Organ Transplant Unit |
|  | HOSP 1 | Palliative Care/General Medicine |
|  | PSY IP 1 | Behavioral Medical Surgical Unit |
|  | ONC 1 | Surgical Oncology/Urology |
|  | REHAB | Rehabilitation |
|  | ONC 2 | Blood and Marrow Transplant |
| B | NEURO 1 | Neurology |
|  | NSURG | Neurosurgery |
|  | STDU 1 | Burn Trauma Step Down Unit |
| C | PACU | Post Anesthesia Care Unit |
|  | ICU VENT | Medical Intensive and Progressive Care Unit |
|  | ICU MED | Medical Intensive Care Unit |
|  | ICU-BT | Burn Trauma Intensive Care Unit |
|  | ICU SURG | Surgical Intensive Care |
|  | ICU MEDSURG | Surgical Intensive and Progressive Care Unit |
| D | PSY IP 4 | Mentally Ill and Chemically Addicted |
|  | PSY IP 3PSY IP 2 | Geriatric PsychiatryPsychiatric Intensive Care |
| E | MEDSURG CARD | Heart Failure and Cardiac Transplant Progressive Care Unit |
|  | OB 1 | High Risk Antepartum / Post partum Unit |
|  | OB 2 | High Risk Labor and Delivery Unit |
| F | SSU 1 | Short Stay Unit |
| *a* Inpatient unit classification determined by stochastic block modeling (SBM)25; SBM allows units to be grouped based on their connections to other units in the network, which can be useful when looking at transfer trends and patterns between groups. This method was used simply for visualization purposes and does not include a formal clustering analysis. |

**Supplementary Fig. S1**: **Basic mobility network graph.** Not all nodes depicted in graphs; Unit group classifications can be seen in **Table S1**.

**Supplementary Fig. S2**: **Unit contagion centrality** **boxplot.** CC, contagion centrality; ICU-CARD, Cardio-Vascular Intensive Care Unit; ICU MEDSURG, Surgical Intensive and Progressive Care Unit; ICU SURG, Surgical Intensive Care Unit; ICU MED, Medical Intensive Care Unit; MED 2, Acute Medicine 2; MEDSURG CARD, Heart Failure and Cardiac Transplant Progressive Care Unit; PSY IP 1, Behavioral Medical Surgical Unit; OB 1, High Risk Labor and Delivery Unit; SSU 1, Short Stay Unit.