

# Thomas Jefferson University Jefferson Digital Commons

Phase 1 Class of 2022

1-2020

# Characteristics and Outcomes of Patients Directly Discharged to Home from the Intensive Care Unit

# Ann Zheng

Thomas Jefferson University, ann.zheng@jefferson.edu

## Preeyal M. Patel

Thomas Jefferson University, preeyal.patel@jefferson.edu

#### Michele Fiorella

Thomas Jefferson University, michele.fiorella@jefferson.edu

#### Lauren McDonnell

Thomas Jefferson University, lauren.mcdonnell@jefferson.edu

### Mina Yasuoka

Thomas Jefferson University, mina.yasuoka@jefferson.edu Follow this and additional works at: https://jdc.jefferson.edu/si\_ctr\_2022\_phase1

Part of the Critical Care Commons, and the Translational Medical Research Commons

See Next Bare for additional authors

Let us Know in Watcess to this document benefits you

#### **Recommended Citation**

Zheng, Ann; Patel, Preeyal M.; Fiorella, Michele; McDonnell, Lauren; Yasuoka, Mina; and Yoo, MD, Erika J., "Characteristics and Outcomes of Patients Directly Discharged to Home from the Intensive Care Unit" (2020). *Phase 1.* Paper 2.

https://jdc.jefferson.edu/si\_ctr\_2022\_phase1/2

This Article is brought to you for free and open access by the Jefferson Digital Commons. The Jefferson Digital Commons is a service of Thomas Jefferson University's Center for Teaching and Learning (CTL). The Commons is a showcase for Jefferson books and journals, peer-reviewed scholarly publications, unique historical collections from the University archives, and teaching tools. The Jefferson Digital Commons allows researchers and interested readers anywhere in the world to learn about and keep up to date with Jefferson scholarship. This article has been accepted for inclusion in Phase 1 by an authorized administrator of the Jefferson Digital Commons. For more information, please contact: JeffersonDigitalCommons@jefferson.edu.

Authors Ann Zheng; Preeyal M. Patel; Michele Fiorella; Lauren McDonnell; Mina Yasuoka; and Erika J. Yoo, MD

SI/CTR Abstract

Word count: 250 words

Characteristics and Outcomes of Patients Directly Discharged to Home from the

**Intensive Care Unit** 

Ann Zheng, Preeyal Patel\*\*, Michele Fiorella\*\*, Lauren McDonnell, Mina Yasouka,

Dr. Erika Yoo\*

(\*) indicates primary project advisor

(\*\*) indicates another student who is declaring the same project as primary for SI

**Introduction**: Given the current era of decreasing hospital bed availability, there has been a rise in the practice of direct discharge to home (DDH) from ICUs. We evaluated the demographics, clinical characteristics, outcomes and readmission patterns among DDH patients.

Methods: Retrospective review of patients from 2 MICUs from June 2017 to June 2019 at Thomas Jefferson University hospital, an urban tertiary care center. Primary outcome of interest was 30-day hospital readmission. Patients were dichotomized into two groups based on time between ward transfer order and hospital discharge (<24 or ≥24 hours). Risk adjustment performed with Mortality Probability Model (MPMo -III). ICU workload at admission and discharge was estimated with nine equivalents of nursing manpower use score (NEMS). Patient characteristics compared using t-test and Fisher exact or  $\chi^2$  test.

Results: 331 DDH patients were analyzed, with the majority (68.3%, 226/331) waiting <24 hours for discharge. Mean LOS significantly longer in patients who had waited ≥24 hours prior to discharge compared to that of patients who waited <24 hours (4.63 vs 2.65 days, p<0.001). 10.3% (45/331) presented to TJU for evaluation within 30 days of discharge. Of these patients, 75.6% (34/45) were readmitted. No significant difference in severity-of-illness, admission NEMS, or 30-day readmission between the 2 groups (p=0.70).

**Discussion:** Shorter wait-times for ICU patients after being determined ready for DDH were associated with shorter hospital and ICU LOS but not with an increase in 30-day readmissions. Further examining pre-discharge and post-discharge data could better identify those at risk of readmission.