Transitional Care Intervention to Reduce 30-day Readmission Rate Columbia University Medical Center in Cardiac Transplant Patients



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BACKGROUND

- One in five patients readmitted within 30 days 1
- Cost \$17 billions in Medicare readmission²
- New York's 30-day readmission cost \$3.7 billions per year in 2008³
- About 36% heart transplant patients hospitalized in first year and 61% in vear four 4

PROBLEM

- Ineffective transition, lack of coordination during hospital discharge
- Miscommunication between primary care provider and patients
- Patients readmitted did not know their medications and have no follow up with primary care provider

PURPOSE

 To examine the effectiveness of transitional care interventions (TCI) post hospitalization on reducing 30day readmission rate in cardiac transplant patients

SYNTHESIS OF **EVIDENCE**

- 21 studies, 10 were level I. 3 studies on level II and III
- Although single TCIs were effective, most of review in the synthesis found bundled TCI significantly reduced readmission rate





Except for hypertension (p=0.001), all other characteristics were not statistically different between the groups (p>0.18).



rate (p=0.03, Fisher's Exact test).

Acknowledgement: Thank you to UMKC faculty for expertise, support and guidance on this project Please email Jason Lee for follow up questions or thoughts at jcl6w7@mail.umkc.edu

DISCUSSION

- Missing data: demographics, readmission to other institution
- Eligible patients declined enrollment • Pilot study: n=43, $1-\beta$ (power) of 0.50
- Selection Bias: non-randomization
- Physical capacity and support system Effect of each components of the TCI
- Single academic center
- Heterogeneity: specific population
- Investigator Bias: collecting data

CONCLUSIONS

- Transitional Care Intervention: Reduction of readmission rate in various populations, APRN-led, Useful in practice, easy to follow
- Fosters interprofessional collaboration
- Future implementation: Measurement of 90, 180, and 360-day readmission rate, Larger sample size
- Impact on health and society: Improve safety, quality of care and reduce cost

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