

Prioritizing Acute Care Education in Renal Transplant Recipients – An Evidenced Based Approach with the ACE STAR Model of Knowledge Transformation

Ferdinand Garcia, BSN, RN

Shainy Varghese, PhD, APRN, CPNP

Background

- 30% of kidney transplant patients are readmitted within the first 30 days after discharge from the hospital posttransplant.
- Costs of the readmission of a renal transplant recipient vary with a median payment of \$233,532.
- National average length of stay in renal transplant recipients: 3-4 days (3.8) with target facility average length of stay 4-5 days (4.5).

Needs Assessment

- Average of 125 renal transplants are performed annually at target facility.
- Post-op kidney transplant treatment plan is the same regardless of surgery.
- Reasons for readmission and increased Length of Stay (LOS):
 - Non-compliance with medication regimen. ^{1, 7, 12, 14}
 - Lack of individualization of care. ^{5, 10, 13}
 - Lack continuity of educational tools for patient teachings and feedback. ⁷

PICOT Question

In the renal transplant population how does utilizing an admission packet affect the readmission rates and length of stay in Transplant Surgical Care Unit (TSCU) in a 6-month time frame?



Literature Review

Discovery Research & Evidence Summary

- Search Engine: CINAHL, Medline Plus, PubMed and Google Scholar.
- Keywords: Transplant, acute care, patient education, End-Stage Renal Disease, Renal Transplant, Transplant Education.
- Summary of Findings: Most articles showed evidence of improving transplant programs by intervening during the acute care phase.

| Inclusion Criteria | Exclusion Criteria |
|--|--|
| <ul style="list-style-type: none"> • General Transplant Population (Heart, Lungs, Liver, Pancreas, Kidneys). • Transplant care outside of U.S. | <ul style="list-style-type: none"> • Articles before 2013. • Articles not in English. • Pediatric transplant procedures and outcomes. |

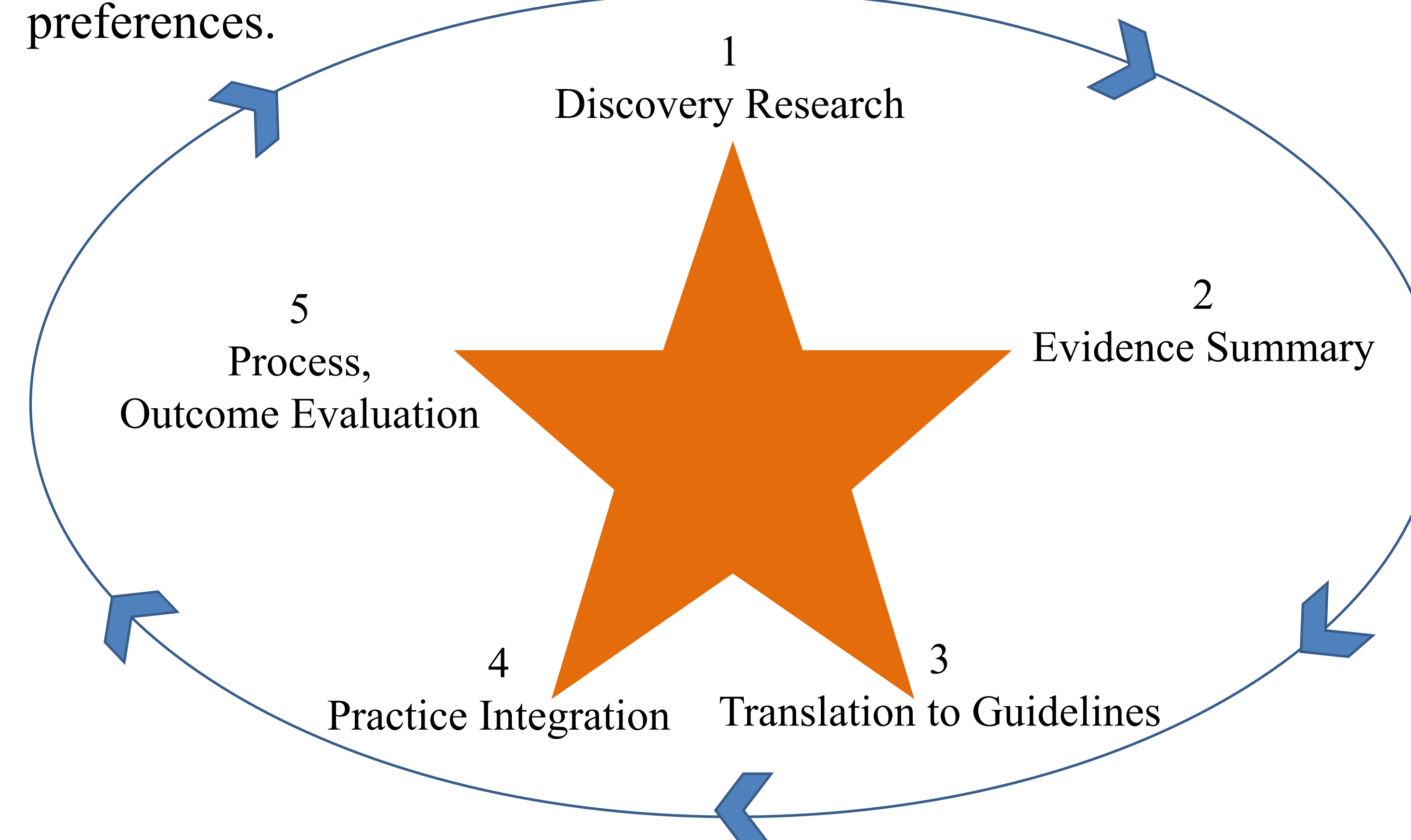
EBP Guidelines

Translation to Guidelines

- **Kidney Disease Improving Global Outcomes (KDIGO) - Clinical Practice Guideline on the Evaluation and Management of Candidates for Kidney Transplant** – Screening tool for potential transplant recipients that includes assessment of medical history, psychosocial support and financial background.
- **KDIGO - Clinical Practice Guideline for the Care of Kidney Transplant Recipients** – Guidelines for transplant recipients that include medication regimen, reducing drug costs, monitoring and treating non-adherence.

Theoretical Framework

- Integration of best research evidence with clinical expertise and patient preferences.



Implementation Plan

Practice Integration

- Administrative approval and develop plan of action to prioritize acute care education.
- Establish financial sources to print newly developed admission packet.
- Introduction and training of the admission packet to nursing staff.
- Quarterly training sessions to ensure sustainability.

Evaluation

Process, Outcome Evaluation

- Evaluation metrics include:
 - Readmission rates within the first 30 days of discharge from hospital post-transplant.
 - Average length of stay.
 - Measuring readmission costs of previous fiscal years versus cost of manufacturing admission packet.
- Individualized care
 - ↑ Nursing and patient satisfaction.
 - ↓ Readmission rates.
- Admission packet material will be revised annually if new best practice evidence is evident.

References

- References available upon request.

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