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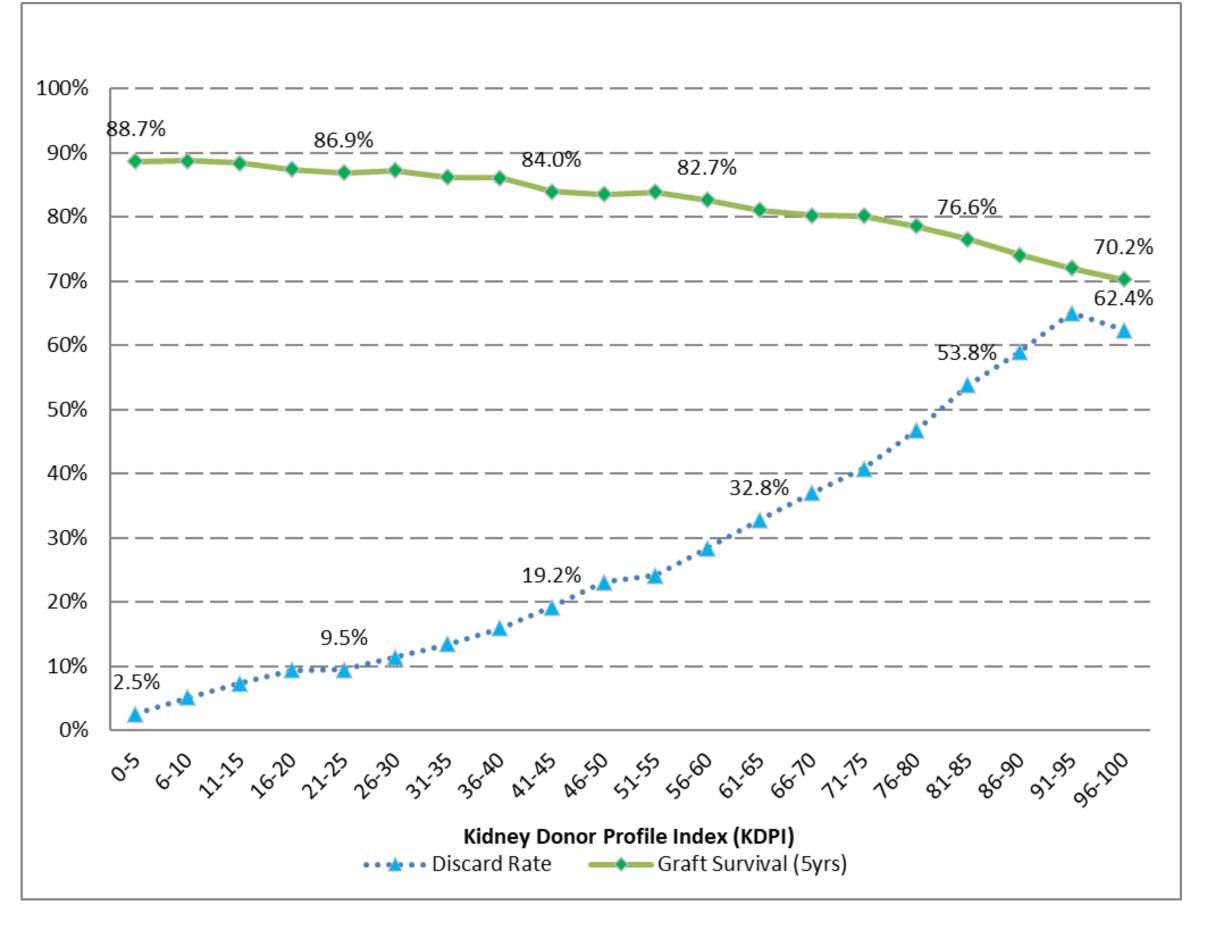
## Introduction

• In kidney transplant healthcare, 20% of kidneys are procured but not utilized.<sup>[1]</sup>

• Historically, there has been evidence of racial bias in transplant decision outcomes.<sup>[2]</sup>

• An AI decision support system may address these challenges if designed well

• Literature suggests that it is valuable for users to interact with an AI interface to better understand how and why it makes mistakes.



## Main Goals of Our Project To use stakeholder input to prioritize the design of an AI interface that promotes stakeholder's trust

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[1] Threlkeld, R., Ashiku, L., Canfield, C., Shank, D., Schnitzler, M., Lentine, K., Axelrod, D., Battineni, A. C. R., Randall, H., Dagli, C. (2021). Reducing Kidney Discard with Artificial Intelligence Decision Support: The Need for a Transdisciplinary Systems Approach. Current Transplantation Reports, 8, 263-271. [2] Schnitzler, M. A., Dagli, C., Canfield, C., Dzebisashvili, N., Varma, C., Axelrod, D., Lentine, K., Ouseph, R., & Randall, H. (2020). Using Artificial Intelligence Tools for Identification, 20(suppl 3), 283–284.

# How Do Transplant Stakeholders Perceive AI?

Department of Engineering Management & Systems Engineering

## Approach

•	Interview	&	survey
		•••	

- transplant surgeons,
- organ procurement professionals, transplant patients, and the
- general public
- Questions related to:
  - interest in AI interactivity features barriers to AI adoption

  - fairness notions,
  - risk perceptions,

If your medical judgement and AI's judgement differ, which will you follow? A) My own opinion

- B) Al's opinion
- C) Not sure

Please rate the following statement based on the instructions.

- 1 = strongly disagree 2 = disagree3= neutral 5 strongly degree. 4 = agree
- trust in the accuracy and predictive powers of current AI algorithmic models used in the medical context



- - predictions
- Al's opinion:
  - reliance
- opinions:
  - accuracy
  - fairness





Ask me about...

Risk perceptions, interest in AI adoption, and fairness and interactivity notions

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## **Potential Findings**

• If the stakeholders choose to follow their own opinion or are unsure:

Address trust issues with AI

Provide explanations for Al

If the stakeholders choose to follow the

Address concerns about over

 Calibrate user's mental model of Al Stakeholders may have different

• Transplant surgeons may value

• Transplant recipients may focus on