

Pediatric Kidney Transplant Program

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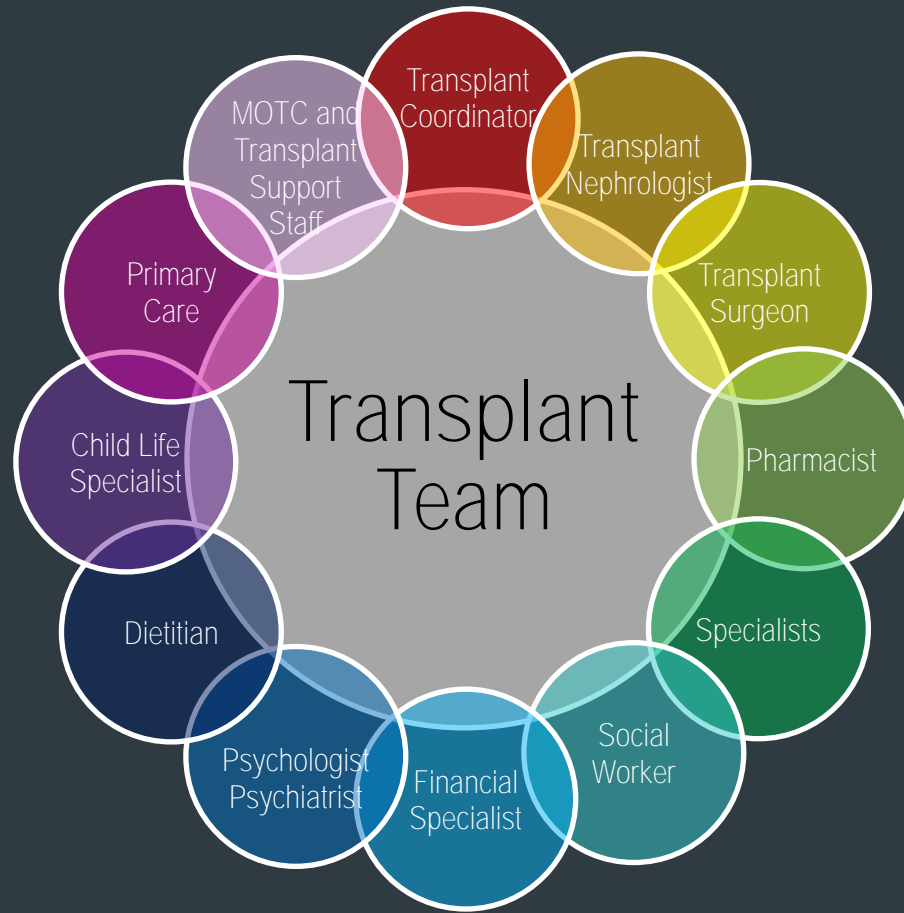


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Disclosures

I have no disclosures to report





Referrals (2024-2025)

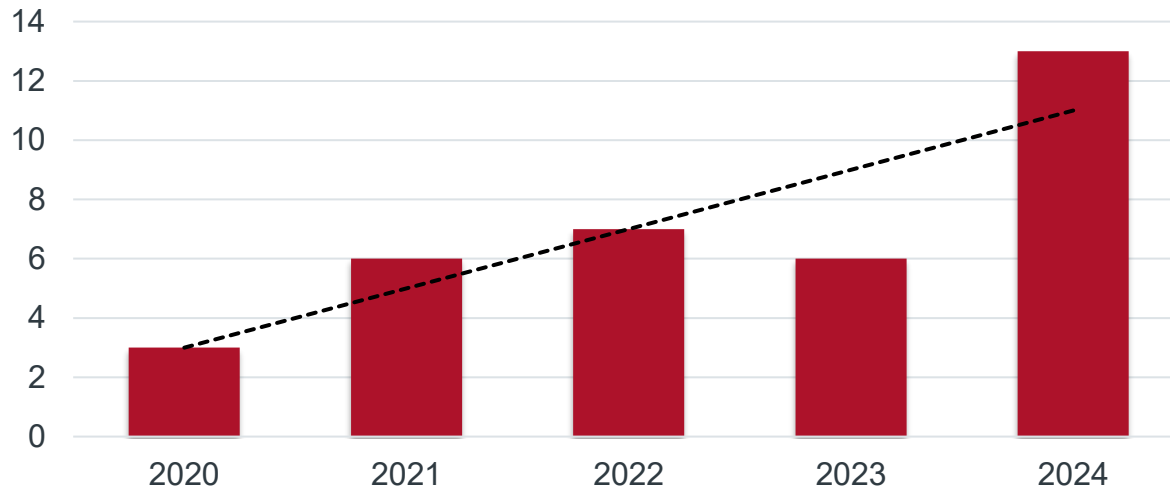
Center Name	Total 18
Children's Nebraska	13
Children's Mercy (Kansas City)	4
Children's Alabama	1

Areas for Growth

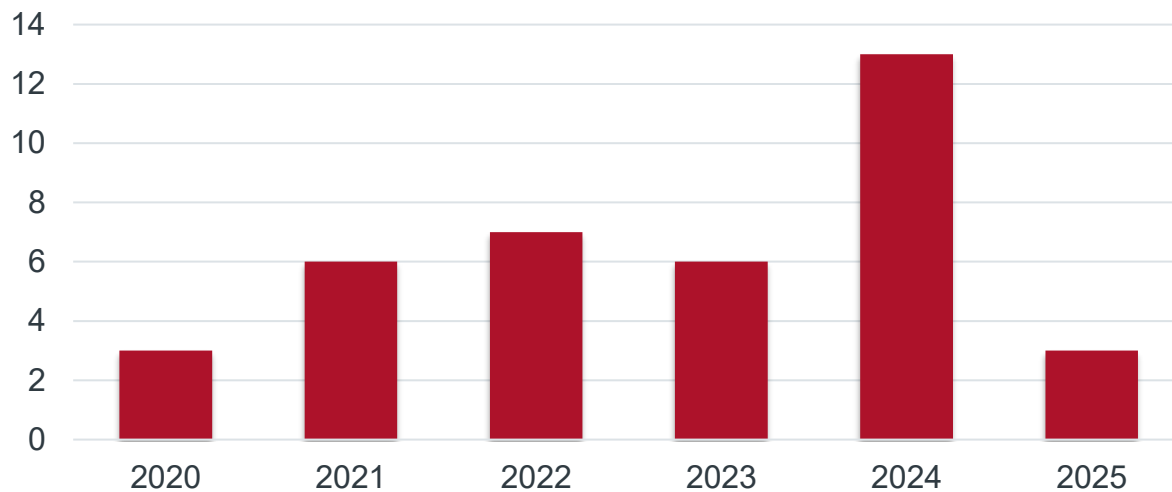
- Nationally recognized neonatal dialysis program
- Establishing relationships with regional providers



Annual Pediatric Kidney Transplant Volumes



Annual Pediatric Kidney Transplant Volumes



Demographics and Clinical Characteristics

(patients transplanted since 2020)

Age at Time of Transplant

1-6 years: 29%
6-12 years: 34%
13-18 years: 37%

Sex

Male: 66%

Primary Renal Diagnosis

Congenital abnormalities: 55%
Glomerulonephritis: 10%
Cystic kidney disease: 10%
Nephrotic syndrome: 10%
Other: 15%

Donor Type

Living: 64%

Dialysis History

Preemptive: 53%

Transplant History

First: 95%



Pediatric Kidney Transplant Program

Patient population

Kidney transplant recipients: 52

CLKT/multiorgan recipients: 3

Distance from NMC (miles)	Number of Patients (%)
<50	29 (52%)
50-100	16 (29%)
100-200	6 (10%)
>200	4 (7%)



Outcomes

Rejection

Rejection episodes in the first year post-transplant (past 5 years): 1

Risk of rejection before age 19: 38%

Graft Failure

Number of observed graft failure in first year post-transplant (past 5 years): 1

Risk of graft failure before age 19y: 8%

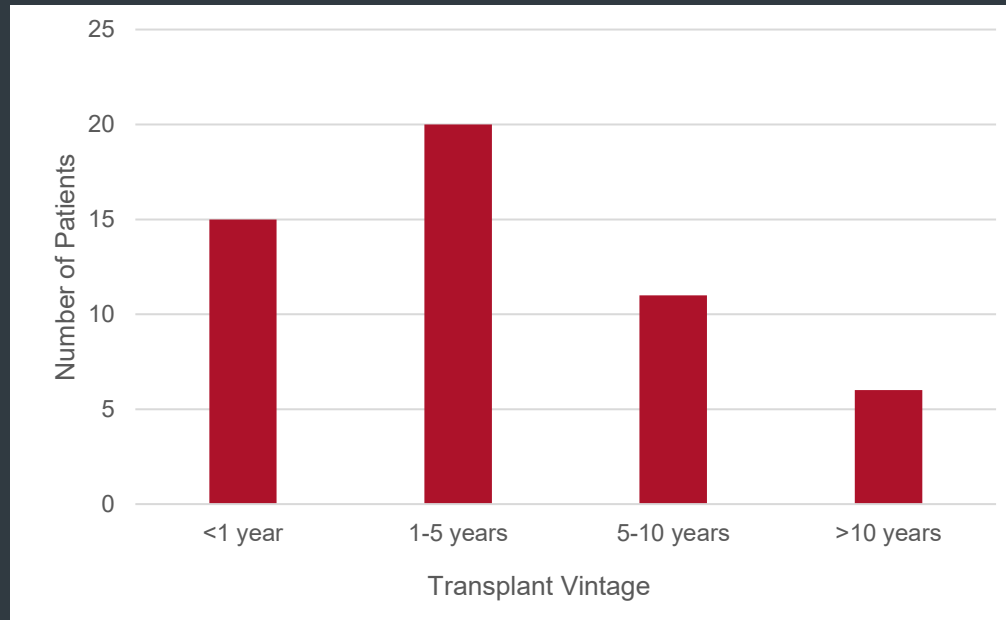
Patient Death

Overall: 0 patients

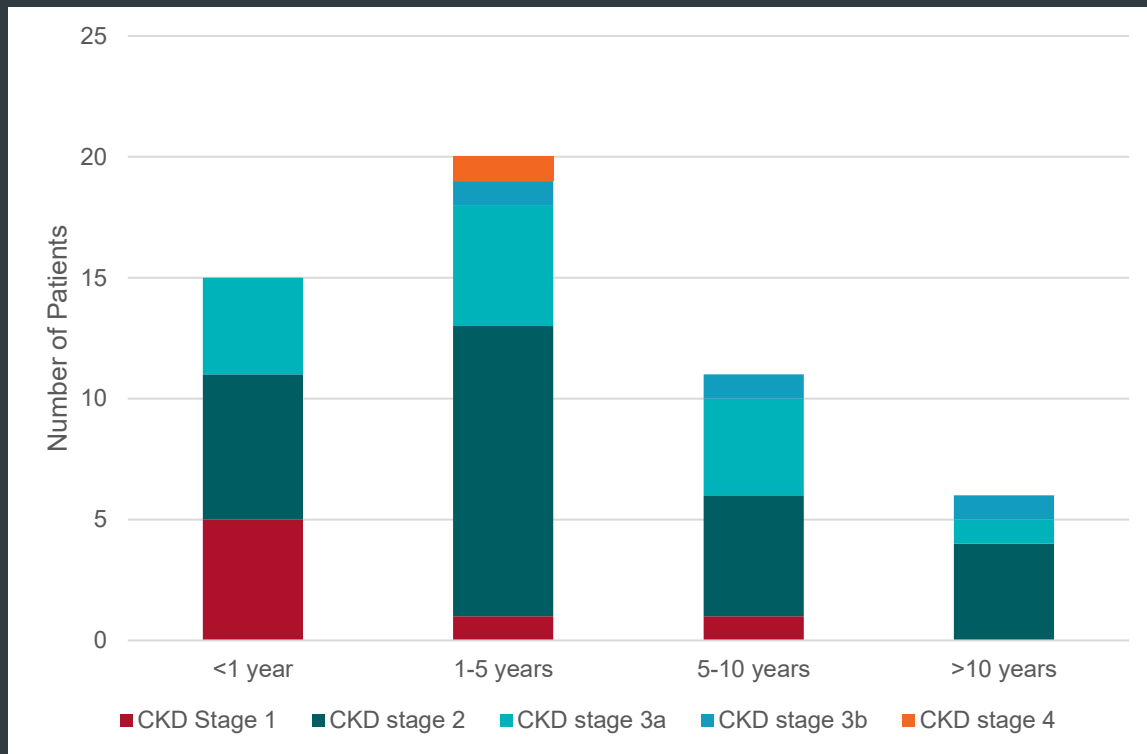
Date of Graft Failure	Patient Age at Failure (y)	Time to Graft Failure (y)	Cause of Failure
2021	17.8	2.8	rejection
2021	16.2	7.5	rejection
2022	19.3	8.1	rejection
2023	12.5	5.3	rejection
2024	9.5	11.5	rejection
2024	14.1	0.1	ischemia



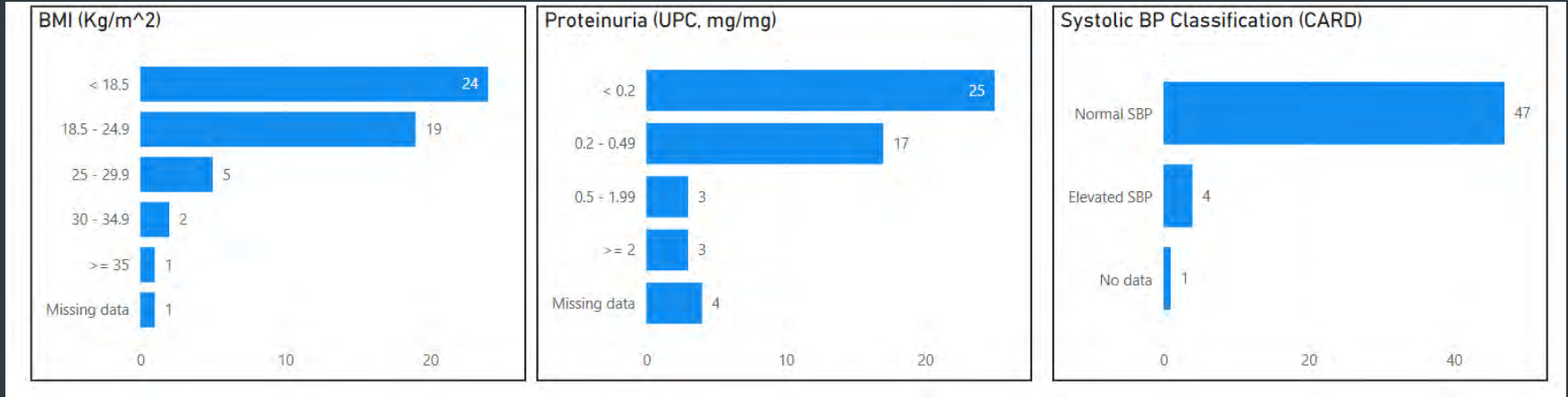
Outcomes for Current Transplant Population: Transplant Vintage



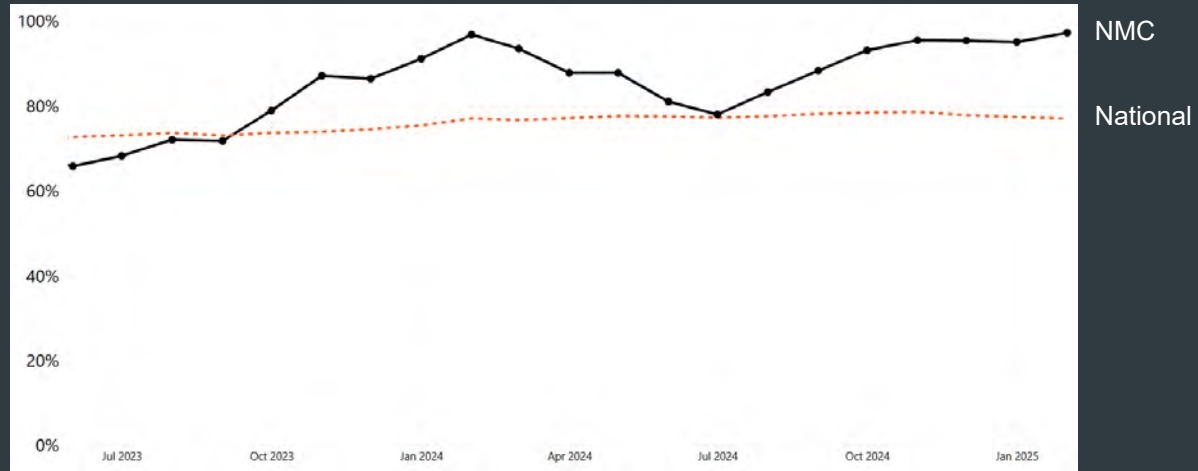
Outcomes for Current Transplant Population: Graft Health



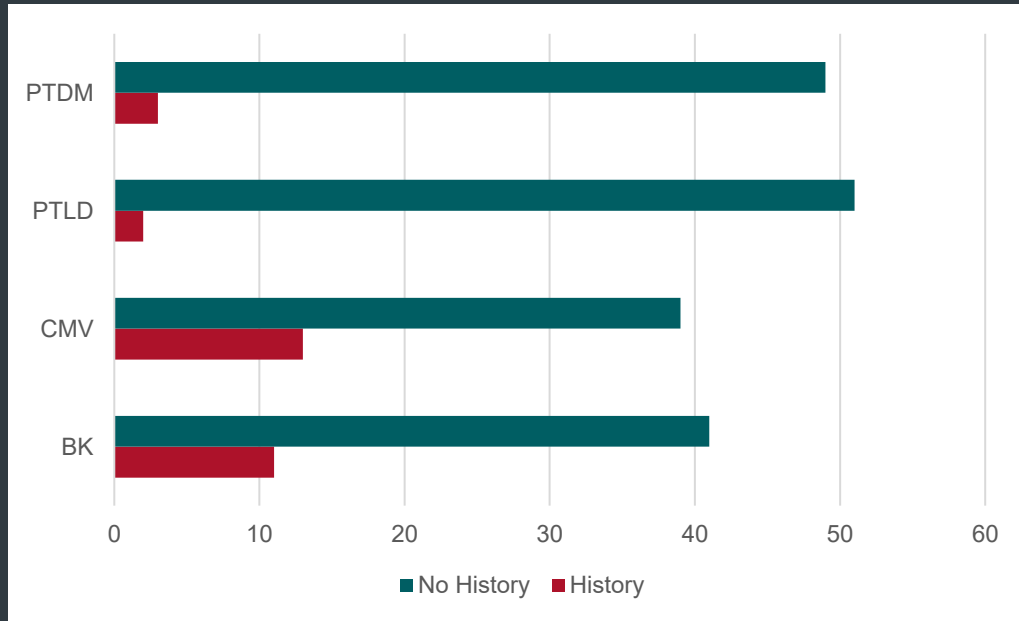
Outcomes for Current Transplant Population: Patient and Graft Health



Quality Improvement: Systolic and Diastolic Blood Pressure Control (<90th percentile)



Outcomes for Current Transplant Population: Patient Health



Improving long-term outcomes through collaborative programs and research

Dialysis-to-Transplant Program

- Collaboration with Children's Nebraska Dialysis
- Clinically demonstrated to improve patient and family knowledge and satisfaction

Pediatric-to-Adult Program

- Collaboration between pediatric and adult transplant teams
- Multidisciplinary approach
- Patients enter program at age 14 and continue through young adulthood
- Focuses on promoting competence of disease management and fostering independence while supporting patients
- Individualized for each patient's needs with goal to optimize long-term health and assist youth with reaching their full potential



Improving long-term outcomes through collaborative programs and research



- Network-based learning health system of patients and families, clinicians, and researchers at 46 pediatric transplant centers
- Improving quality of care for patients by sharing best practices and data regarding medical care and outcomes, and by applying quality improvement methods to advance patient and transplant outcomes
- Community engagement
- Current QI: Reducing Rejection using barrier assessment tools





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