

# Current Status of Pediatric Kidney Transplant Program

**Veronica Taylor, MD, MS**

Assistant Professor

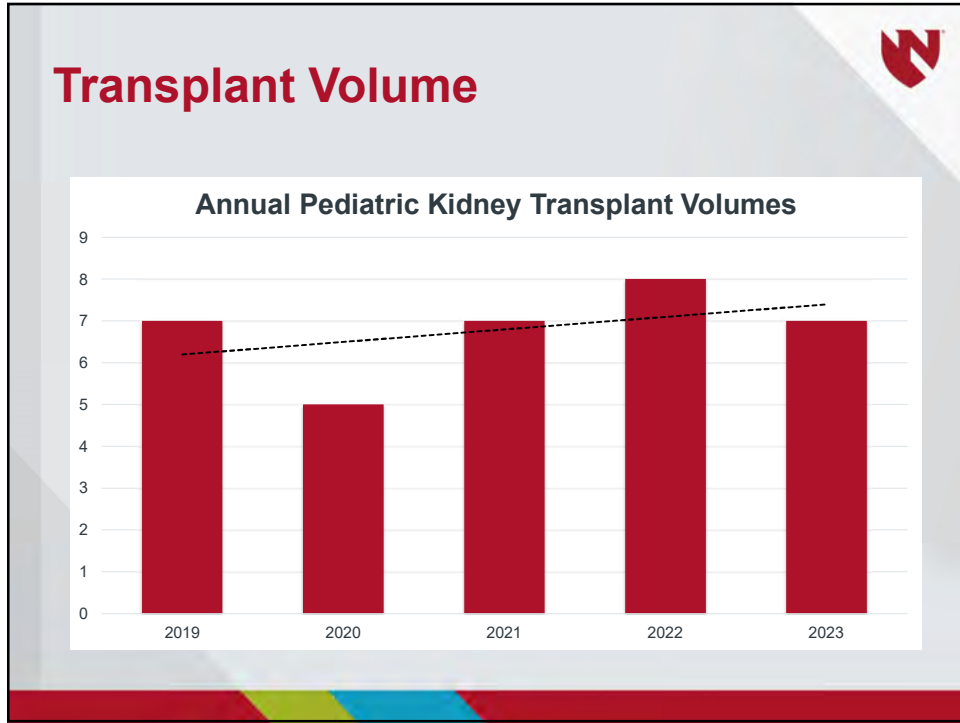
Division of Nephrology, Department of Pediatrics



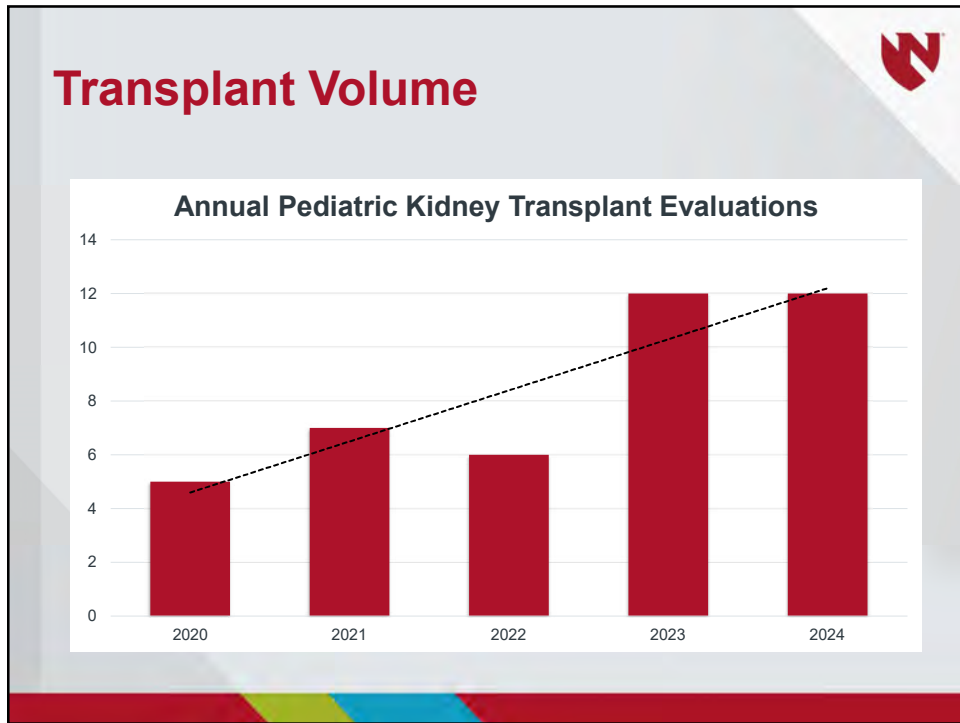
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## Referrals (2023-2024)



Center Name	%
Children's Nebraska	88%
Nebraska Medical Center	8%
Outside institutions	4%

### Areas for Growth

- Expansion of Children's Nebraska outreach clinics
- Nationally recognized neonatal dialysis program
- Establishing relationships with regional providers

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## Demographics and Clinical Characteristics (2019-2013)



### Age at Time of Transplant

1-6 years: 34%  
6-12 years: 19%  
13-18 years: 47%

### Sex

Male: 72%  
Female: 28%

### Donor Type

Living: 66%

### Dialysis History

Preemptive: 53%

### Transplant History

First: 95%

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## Demographics and Clinical Characteristics (2023 Patient Census)



Indication for Transplant	%
Renal Aplasia/Hypoplasia/Dysplasia	24
Obstructive Uropathy	20
Reflux Nephropathy	16
Polycystic Kidney Disease	8
Nephrotic Syndrome	8
Glomerulonephritis	6
Other	18

Distance from Omaha	%
<50 miles	60
50 -100 miles	24
>100 miles	16

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## Outcomes – Rejection and Graft Failure



- Rejection episodes in first year following transplant (past 5 years) = 0
- Risk of rejection before age 19 = 41%
- Number of observed graft failure in first year following transplant (past 5 years) = 0
- Risk of graft failure before age 19 = 9%

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## Clinical Outcomes (2023 Patient Census)



CKD (> 1 year post-transplant)	%
Stage 1	1
Stage 2	58
Stage 3	28
Stage 4	8
Stage 5 or dialysis	4

Transplant Vintage	%
<5 years	63
5 – 10 years	24
>10 years	13

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## Clinical Outcomes



Outcome	%
Infection	
CMV	24%
BK	8%
Hospitalization	
First year	68%
Annual risk	42%
Malignancy	
PTLD	1.7%
Other	<1%
Health factors	
Blood pressure control	91%
Proteinuria control (UPC <0.5)	85%
Normal BMI	68%

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## Transition Programs



### Dialysis-to-Transplant Program

- Collaboration with Children's Nebraska Dialysis
- Patients and families complete standardized educational program "Kidney Kit"
- Improves patient and family knowledge and satisfaction

### Pediatric-to-Adult Program

- Collaboration between pediatric and adult transplant
- 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
- 18 patients have transitioned to our adult team over the past year

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## National Collaborations



### Improving Renal Outcomes Collaborative

- Network-based learning health system of patients and families, clinicians, and researchers
- 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
- QI projects



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