Expert Teams – Transplantation

Case-Based Learning & Mentorship

Thursday, October 21, 2021

Facilitator: Kelly M. Mayo, ESRD National Coordinating Center



Meeting Logistics

- Call is being recorded and will be posted to www.esrdncc.org
- Lines will be open for all high performing organizations
 - Please stay on mute unless you are speaking
 - Do not place the call on "hold"
- Everyone is encouraged to use the video and chat features



Meeting Guidelines



INTRODUCE YOURSELF BEFORE SPEAKING



KEEP PATIENT-SPECIFIC INFORMATION CONFIDENTIAL



BE WILLING TO SHARE SUCCESSES AND DIFFICULTIES



BE OPEN TO FEEDBACK



ASK THE DIFFICULT QUESTIONS



RESPECT OTHERS



USE "...AND" STATEMENTS



KEEP TO TIME LIMITS



Introductions

- Meeting Focus Kidney Transplant
- Guest Expert
 - Bonnie Lonze, MD, PhD, NYU Langone (NY)
- Case Study Presenter
 - Michael Guthrie, LMSW, Durant DaVita (OK)
 - Rick Perez, MD, University of California Davis (CA)
- High Performing Organizations
- ESRD Networks
- Centers for Medicare & Medicaid Services (CMS)



What are Expert Teams?

- A group made up of individuals from different high performing organizations, each with their own deep experience and knowledge
- Help others learn faster by sharing what worked (and what didn't work) in their organization
- Bring the best possible solutions to the table
- Continually learn and improve



Kidney Transplantation

- Increase the number of patients added to the kidney transplant waiting list
- Increase the number of patients receiving a kidney transplant
- Develop education to increase choice of dialysis patients to receive a high KDPI kidney
- Support the ESRD Treatment Choices Learning Collaborative (ETCLC)

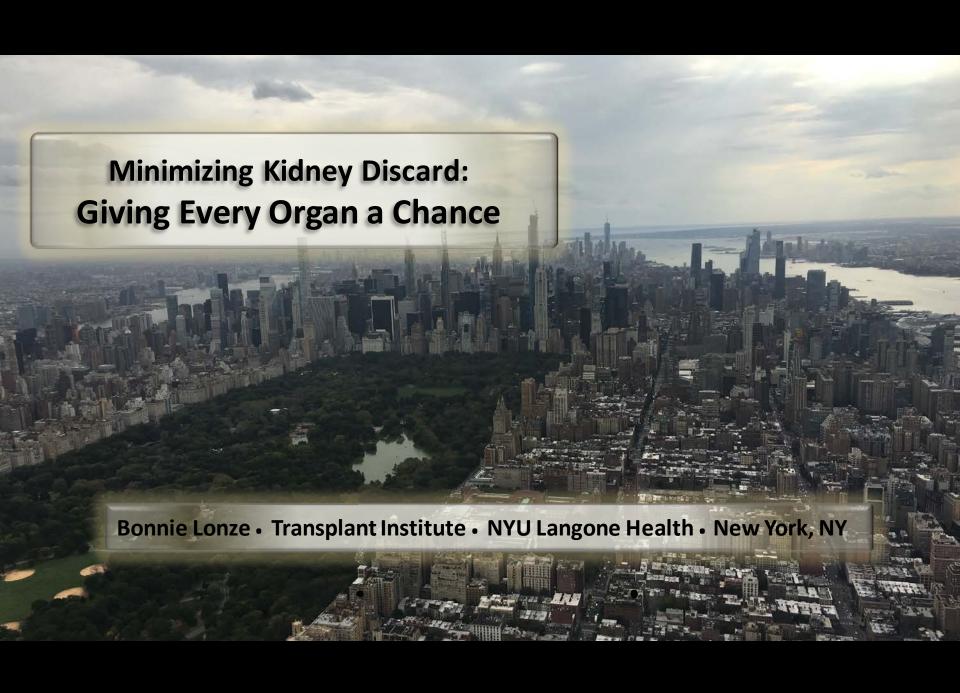


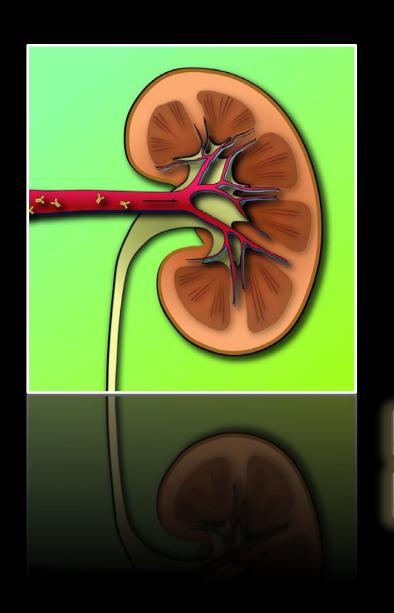
Presentation by Guest Expert

Bonnie Lonze, MD, PhD

Assistant Professor, Department of Surgery at NYU Grossman School of Medicine Director, Incompatible Kidney Transplant Program Kidney Transplant Surgeon, NYU Langone Transplant Institute





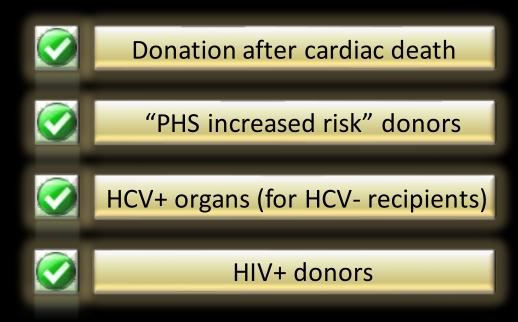




~90,000 Americans are awaiting kidneys

~20% of kidneys recovered are discarded

Systematic strategies to decrease discard



Now, most discarded kidneys are "less than ideal" kidneys

Emerging systematic efforts: OPTN's KAP

American Journal of TRANSPLANTATION

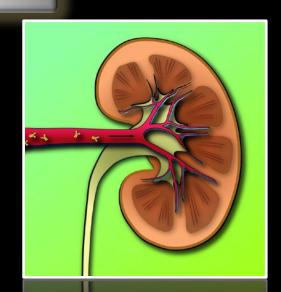


ORIGINAL ARTICLE

Kidney Accelerated Placement project: Outcomes and lessons learned

Samantha M. Noreen , David Klassen, Roger Brown, Yolanda Becker, Kevin O'Connor, Jennifer Prinz, Matthew Cooper,

First published: 28 September 2021 | https://doi.org/10.1111/ajt.16859



Pilot of expediting placement of "hard to place kidneys" by focusing allocation on centers with track records for using these types of kidneys

Small scale practices can have an impact!

My phone at 3AM:

Primary KI offer: 'Late 50s' year old diabetic, hypertensive, hepatitis C+, brain dead donor, died of stroke, KDPI 100%

The easy answer:

No, thanks.

My phone at 3AM:

Primary KI offer: 'Late 50s' year old diabetic, hypertensive, hepatitis C+, brain dead donor, died of stroke, KDPI 100%

The alternative answer:

What is blood type, biopsy, Cr, and how much cold?

I have at least 20 Os over Blood type is O the age of 60 who are willing to accept HCV+ OK! Cr is 0.9 OK? Bx is "inadequate" Bring it in and re-bx **Current CIT 9hrs**

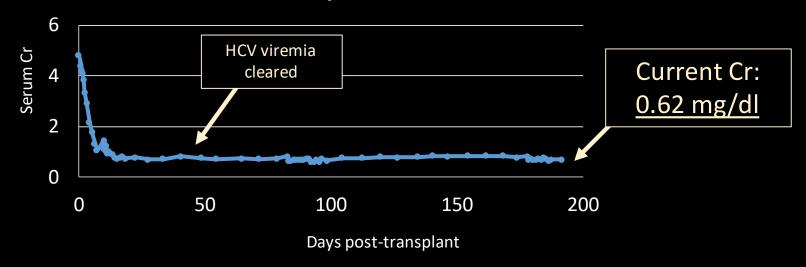


Repeat biopsy good



No anatomical concerns

Serum creatinine over time since transplant



My phone at 3AM:

Primary KI offer: 50s yo donor, normal Cr, declined for HARD arterial plaque

The easy answer:

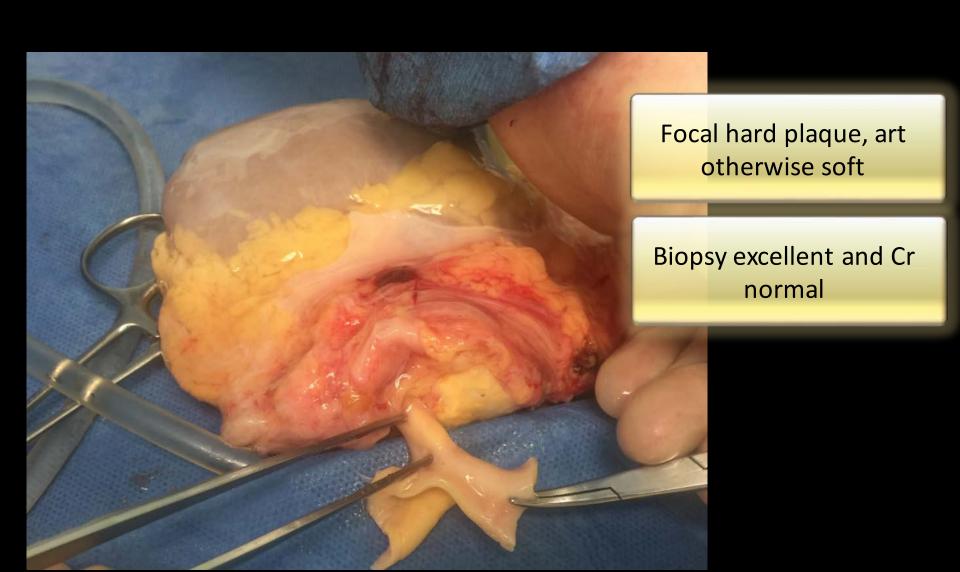
No, thanks.

My phone at 3AM:

Primary KI offer: 50s yo donor, normal Cr, declined for HARD arterial plaque

The alternative answer:

Let's take a look



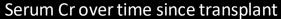
My recipient: ~60yo patient

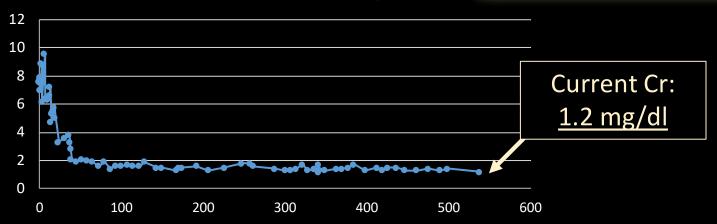
Recently failed prior transplant (20+yrs)

Exhausted vasc access

Chance of dying on WL

Chance of getting an "ideal" offer





My phone at 3AM:

Primary KI offer: 50s yo donor, Cr normal, declined for surgical damage – artery transected

The easy answer:

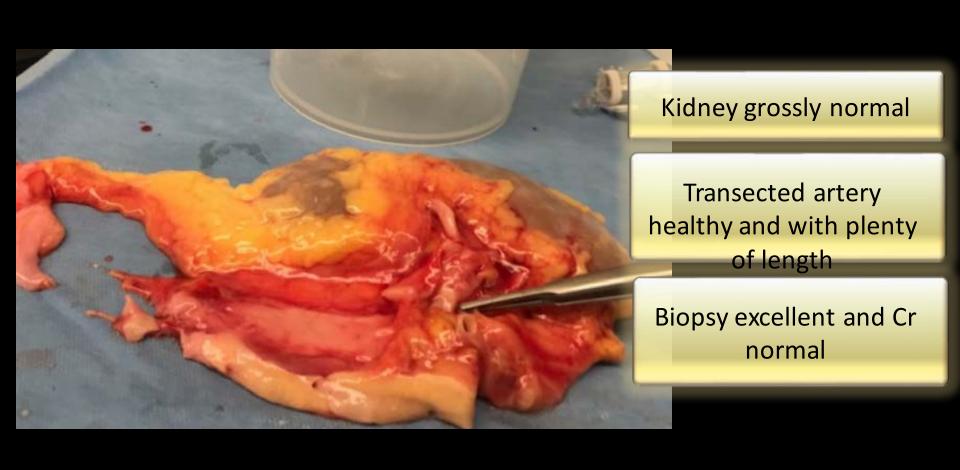
No, thanks.

My phone at 3AM:

Primary KI offer: 50s yo donor, Cr normal, declined for surgical damage – artery transected

The alternative answer:

Let's take a look



My recipient: ~60yo patient

DM, CAD

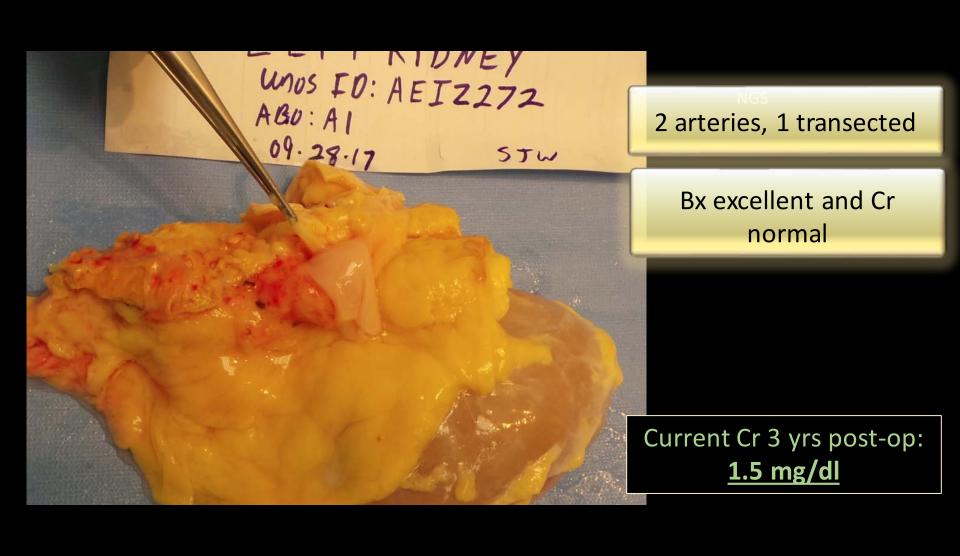
On HD <2 years

Chance of dying on WL

>>>

Chance of getting an "ideal" offer

Current Cr 9 months post-op: **1.1 mg/dl**



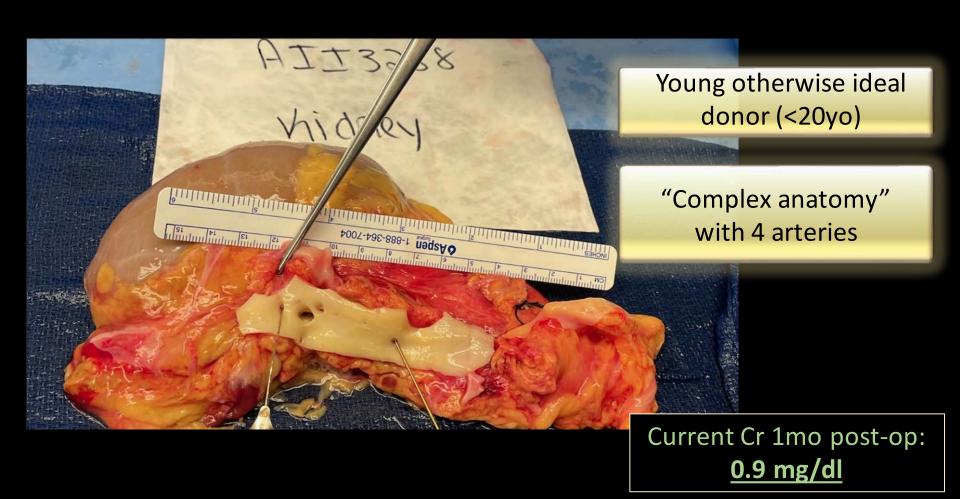


Pediatric donor (<10yo)

Artery transected at procurement

Current Cr 1yr post-op:

0.9 mg/dl



My phone at 3AM:

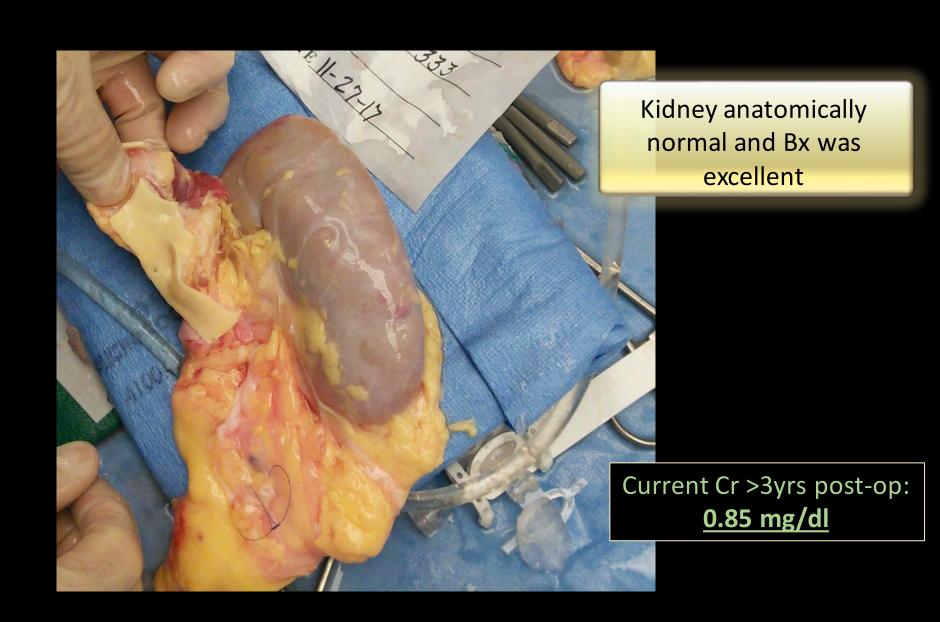
Primary KI offer: 40s yo DCD donor, normal Cr, declined due to 90 min WIT

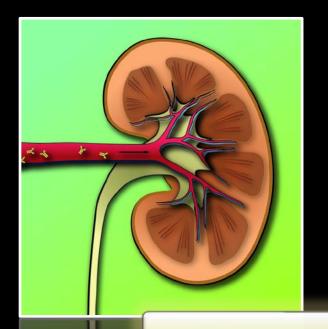
The alternative answer:

Let's see DCD flowsheet

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Vital signs were NORMAL for 70 of 90 minutes







Not every kidney is usable, but sometimes you'll be surprised if you take the time to look closer

Knowing your waiting list helps

We can all do our part to reduce discard of usable kidneys

Q&As – 5 Minutes



Case Study #1



Transplant

- Michael Guthrie LMSW 2002
 - Durant DaVita
 - Family Advocacy
- Mental Health Therapist Alaska and South Dakota
 - 2012 Dialysis Social Worker
 - 2017-2020 think tank to expand home modality

Improving patient outcomes by non-traditional complimentary interventions

Culture of Care Trust and Partnership

Greeting Patients
Words Matter
Following Through
Barrier Removal

Changing the Patient Hokey Pokey

- Breaking Through Ambivalence
- Empowering Patients To Take Charge
 - Future Plans

Community and Area Resources

2 Community Hospital's No Vascular Center

Undependable Public Transportation

All Transplant Hospitals are at Least 2 hours away.



30 transplants in 8 years Year 2020 6 transplants

2 patients list between July and September 2021



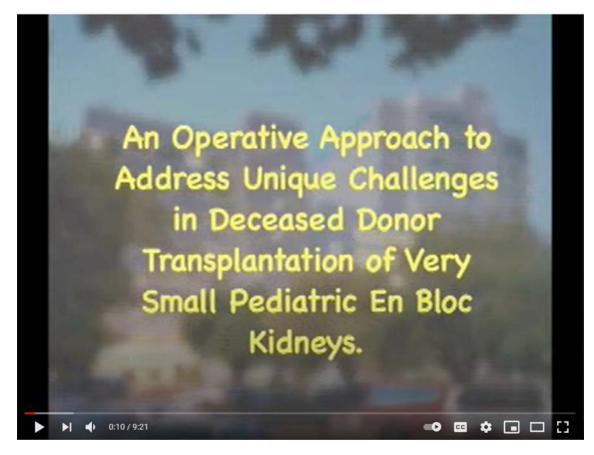
Case Study #2



End Stage Renal Disease Treatment Choices Learning Collaborative

Richard Perez MD
University of California Davis
October 21, 2021





Pediatric En Bloc Renal Transplant

1,372 views •Nov 13, 2015

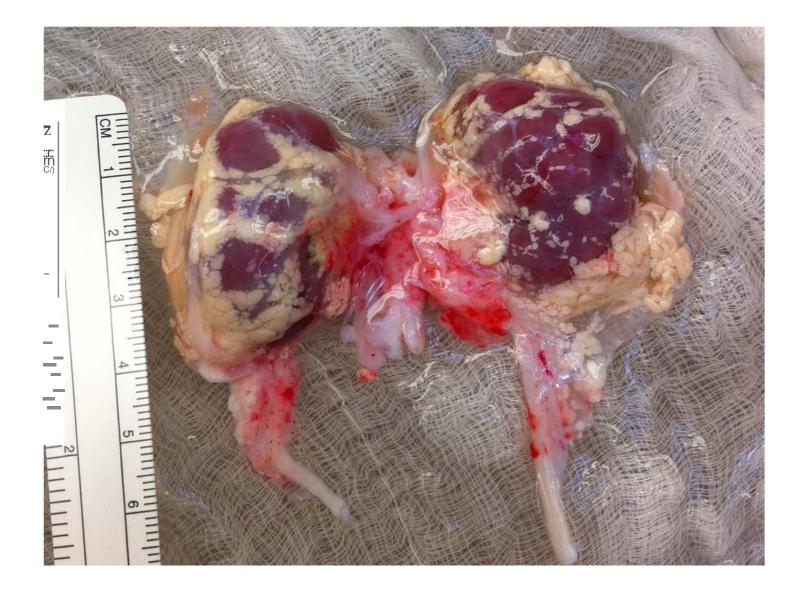
10 C;) 1 _4 SHARE =+ SAVE

Case Histories: Kidney Donors

Age/Gender	Weight (kg)	KD PI (%)	CIT (hrs)	ОРО	Pump duratio n (hrs)	Pump duration/ flow/resistance	Terminal creatinin e (mg/dL)
7 month old DCD	6.0	96	15.0	Local	11.0	37ml/ mi n 0.6 2	0.12
3 month old BD	6.8	79	28.0	In state	3.0	38 ml/min 0.52	0.57
1 month old BD	5.3	77	25.6	Out of stat e	11.8	36 ml/min 0.72	0.43

Case Histories: Kidney Recipients

Age/Gender Weight	PRA%	Waiting time	DGF	Length of stay	Last serum creatinine (mg/dL)
23yo M 47kg	0	3.1 years	No	5 days	1.92
46yo F 73kg	0	4.0 yrs	No	3 days	2.23
61yo M 77.9kg	0	5.6 yrs	No	4 days	4.69



Hypothermic Pulsatile Perfusion of Small Pediatric en Bloc Kidneys: Technical Aspects and Outcomes

We read with interest the case report by Zendejas et al. (1) on hypothermic pulsatile perfusion (PP) of a pediatric en

position. Such acute gravity-related effects are not observed with kidneys from larger donors.

sate at least partially for any potential graft rewarming during the more extensive backtable procedures required by en



Troppmann et. al, Transplantation 2009

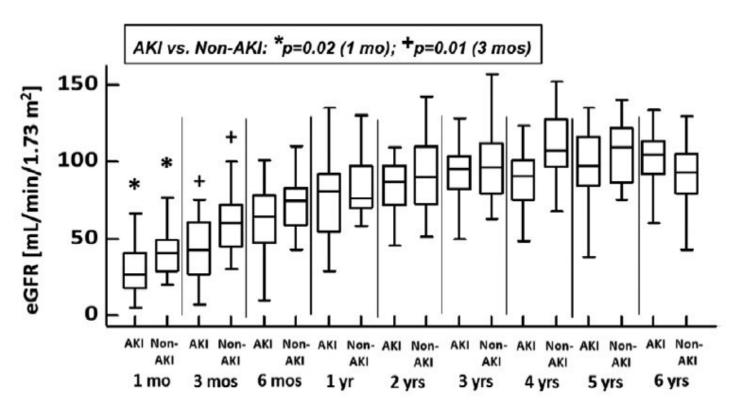
Short- and Long-term Outcomes of Kidney Transplants From Very Small (≤15 kg) Pediatric Donors With Acute Kidney Injury

Christoph Troppmann, MD,¹ Chandrasekar Santhanakrishnan, MD,¹ Ghaneh Fananapazir, MD,² Junichiro Sageshima, MD,¹ Kathrin M. Troppmann, MD,¹ and Richard V. Perez, MD¹

Background. Kidneys from small deceased pediatric donors with acute kidney injury (AKI) are commonly discarded owing to transplant centers' concerns regarding potentially inferior short- and long-term posttransplant outcomes. **Methods.** We retrospectively analyzed our center's en bloc kidney transplants performed from November 2007 to January 2015 from donors ≤15 kg into adult recipients (≥18 y). We pair-matched grafts from 27 consecutive donors with AKI versus 27 without AKI for donor weight, donation after circulatory death status, and preservation time. **Results.** For AKI versus non-AKI donors, median weight was 7.5 versus 7.1 kg; terminal creatinine was 1.7 (range, 1.1–3.3) versus 0.3 mg/dL (0.1–0.9). Early graft loss rate from thrombosis or primary nonfunction was 11% for both groups. Delayed graft function rate was higher for AKI (52%) versus non-AKI (15%) grafts (P = 0.004). Median estimated glomerular filtration rate was lower for AKI recipients only at 1 and 3 months (P < 0.03). Graft survival (death-censored) at 8 years was 78% for AKI versus 77% for non-AKI grafts. Late proteinuria rates for AKI versus non-AKI recipients with >4 years follow-up were not significantly different. **Conclusions.** Small pediatric donor AKI impacted early posttransplant kidney graft function, but did not increase risk for early graft loss and decreased long-term function. The presently high nonutilization rates for en bloc kidney grafts from very small pediatric donors with AKI appear therefore unjustified. Based on the outcomes of the present study, we infer that the reluctance to transplant single kidneys from larger pediatric donors with AKI lacks a rational basis as well. Our findings warrant further prospective study and confirmation in larger study cohorts.

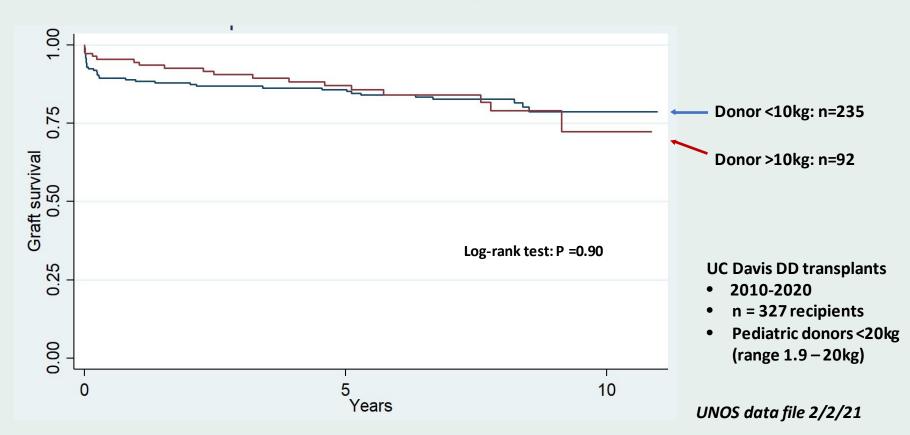
(Transplantation 2021;105: 430-435).

Gradual improvement of allograft function over 3 years in kidneys from small pediatric donors with AKI



Troppmann et al., Transplantation 2021

A Decade of Pediatric Donor Transplants at UCD: Excellent long term graft survival



Q&As – 5 Minutes



Recap & Next Steps

- Top take-aways
- I like, I wish, I will
- Additional pathways for learning
- Event evaluation



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Thank You

Kelly M. Mayo kmayo@hsag.com 813-865-3552



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