The Transformation of Nephrology Practice to Improve Care

Annual Dialysis Conference Kansas City 2023

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Chief Kidney Health Officer
Senior Medical Director, Kidney Services
Intermountain Health





Disclosures

- Consultant, Fresenius
 Medical Care
- Consultant, Baxter Healthcare
- I am not a Yankees fan, but I do like Derek Jeter



10th Annual CEO CFO Roundtable, Chicago, IL 2022



Derek Jeter's Keys to Success as a World Champion

Baseball	Nephrology
Be consistent	
Don't be afraid to fail	
Learn from mistakes	





Learning Objectives





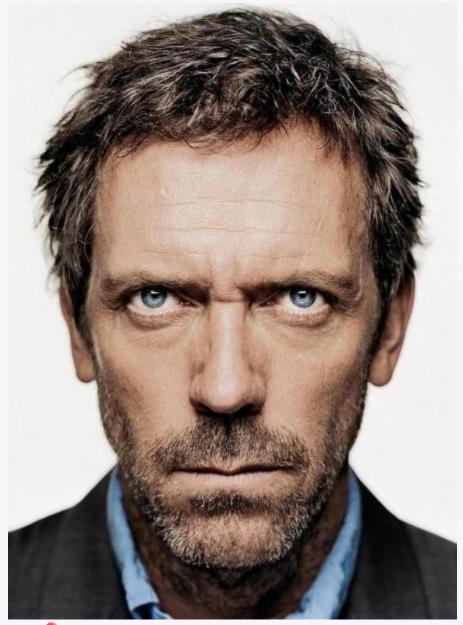


EXAMINE TRADITIONAL NEPHROLOGY PRACTICE

ANALYZE IMPLICATIONS OF VALUE-BASED KIDNEY CARE

UNDERSTAND KEY DRIVERS OF TRANSFORMATION





Source: NJ Monthly Magazine

The Traditional Nephrologist

- Rugged, but irritable
- Smart, but too tired to think
- Vitamin D, undetectable
- Accountant, sympathetic
- Spouse, deserving multiple awards

The Traditional Practice















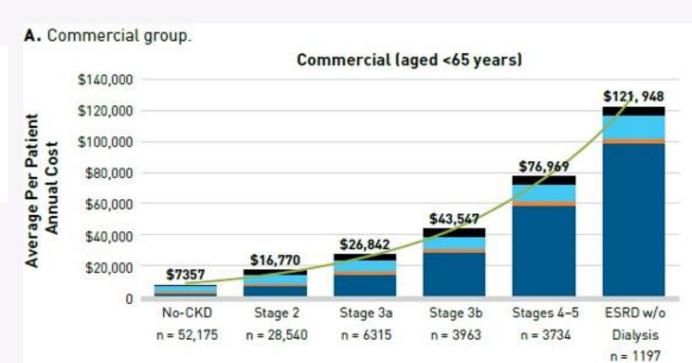


All-Cause Costs Increase Exponentially with Increased Chronic Kidney Disease Stage

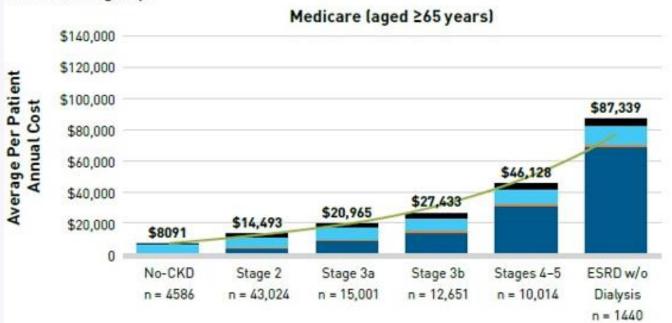


"Dr. House, when you will be by to sign your care plans?"



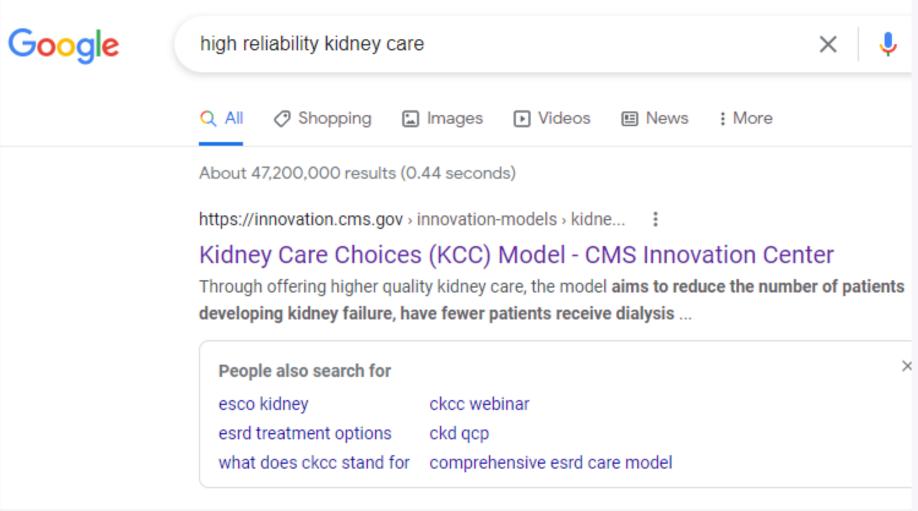






Derek Jeter Key #1 Be Consistent = High Reliability







The Medicare CEC Model: Using Lessons Learned To Improve Value-Based Kidney Care

Health Affairs

Gregory J. Boyer, Tom Duvall, Carrie Wells



33 ESRD Seamless Care Organizations (ESCOs)

Medicare Spending and Utilization

- \$85 per beneficiary per month decrease
- 3% decrease in hospitalizations

Dialysis Care

- 6% decrease in long-term catheter use
- 0.4% in increase in dialysis sessions

290	Dialysis facilities participated in the model in PY5
7%	of all dialysis facilities in the United States (US) were in the model in PY5
35	Average number of dialysis facilities included in each ESCO
501	Approximate number of Medicare beneficiaries with ESRD who participated of the CEC Model
3%	of Medicare beneficiaries with ESRD were in the model in PY5

Total dialysis organizations participated in CEC during PY5



Implications of Value-Based Kidney Care

Kidney Health and Kidney Care Choices

New market entrants and kidney care models

Nephrology practices needing to make some serious choices for the future





Overview of the KCC Mode

allo.com/Nephrology

VOLUME 36

NUMBER 03

MA

Payment Options

CMS Kidney Care First (KCF) Option

Practice-based or bonus p

NEWS & ISSUES

Comprehensive Kidney
Care Contracting
(CKCC) Graduated
Option

ACO-based optic sided model an

CKCC Professional Option

ACO-based option

C M FC O

CMS MODELS FOCUS ON CKD

Payments aimed at earlier diagnosis

CKCC Global Option

ACO-based option with risk.

B services.

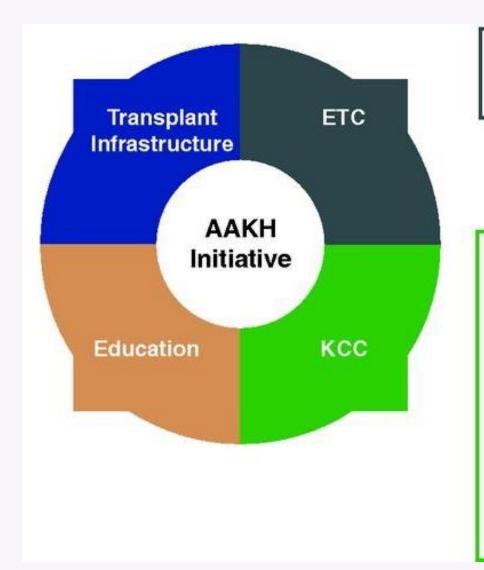
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Value-Based Care in Nephrology: The Kidney Care Choices Model and Other Reforms

Jain, Gaurav¹; Weiner, Daniel E.²

Kidney360 2(10):p 1677-1683, October 2021.



 Increase utilization of home dialysis and kidney transplantation

- Reduce Total cost of care
- Increase utilization of home dialysis and kidney transplantion
- Improve CKD stage 4-5D care
- · Emphasis on
 - Mental health and patient activation
- Optimal dialysis starts
- Delayed progression to KRT



Regional Maps of PY2022 KCC Entities









Kidney Care Choices (PY 1 cohort)

30 KCF entities

55 CKCC entities

69,080 CKD 4-5 beneficiaries

59,061 ESKD beneficiaries

2694 nephrologists

1982 dialysis facilities

197 transplant providers



PY2 Cohort

4 KCF entities

50 CKCC entities

xxxxx CKD 4-5 beneficiaries

Xxxxx ESKD beneficiaries

xxxx nephrologists

xxxx dialysis facilities

xxxx transplant providers



Derek Jeter Key #2: Don't Be Afraid to Fail = Take Downside Risk

27 of the PY2 KCEs have selected the Global Option 100% risk

14 have selected the Professional Option 50% risk

9 have selected the Graduated Option (Level 1 or Level 2)

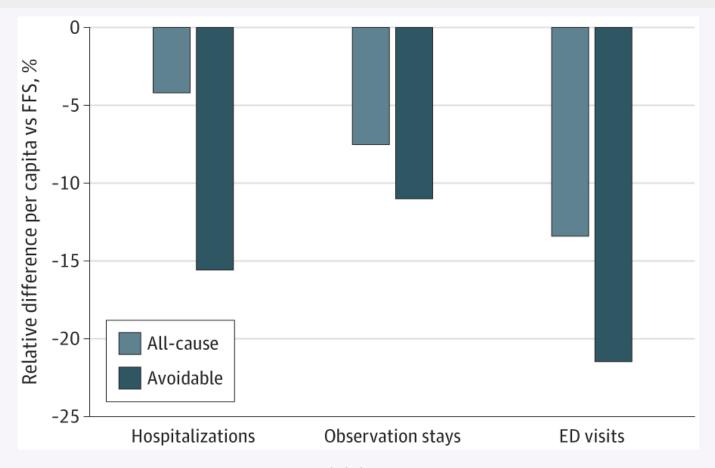






From: Analysis of Value-Based Payment and Acute Care Use Among Medicare Advantage Beneficiaries

JAMA Netw Open. 2022;5(3):e222916. doi:10.1001/jamanetworkopen.2022.2916



You Have Less Hospital Use (\$\$\$) When Downside Risk is Present



JAMA Health Forum...

Original Investigation

Financial Incentives to Facilities and Clinicians Treating Patients With End-stage Kidney Disease and Use of Home Dialysis A Randomized Clinical Trial

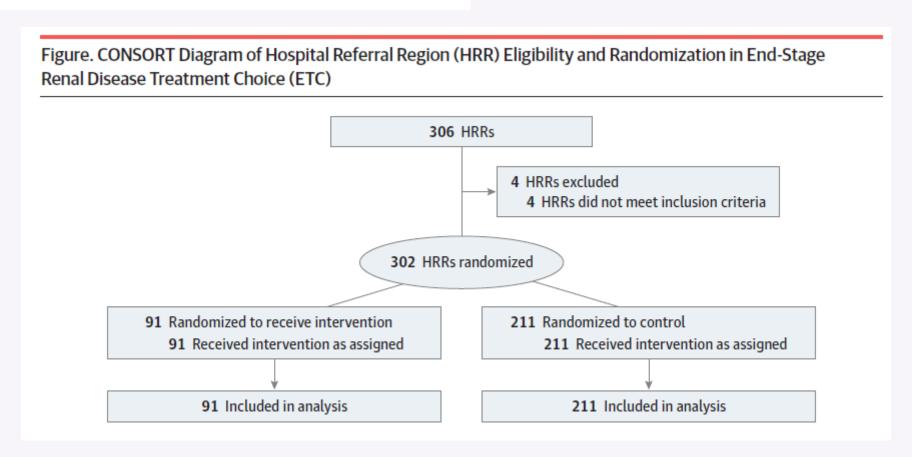
Yunan Ji, PhD; Liran Einav, PhD; Neale Mahoney, PhD; Amy Finkelstein, PhD





97,875Beneficiaries attributed to Managing Clinicians

https://innovation.cms.gov





End-Stage Treatment Choices and Home...Meh

Characteristic	Value in control HRRs, mean (SD)	Between treatment and control HRRs, mean difference (95% CI)	P value
Treatment modality			
Any home dialysis in first 90 d, %	20.60 (7.77)	0.12 (-1.42 to 1.65)	.89
Weeks receiving any home dialysis in first 90 d, %	16.67 (6.77)	0.17 (-1.24 to 1.58)	.82
Dialysis sessions at home in first 90 d, %	17.23 (6.81)	0.22 (-1.14 to 1.57)	.76
Patient characteristics and extensive margin outcomes			
Dialysis rate per capita ^b	0.01 (0.005)	-0.0001 (-0.0003 to 0.0002)	.44
Total No. of dialysis patients ^c	2388 (2521)	37.04 (-8.41 to 82.50)	.11
Predialysis Elixhauser index score	5.96 (0.75)	-0.02 (-0.18 to 0.13)	.77
Anticipatory effect			
Any home dialysis in first 90 d in 2020, %	20.00 (8.55)	-1.20 (-2.75 to 0.3382)	.13

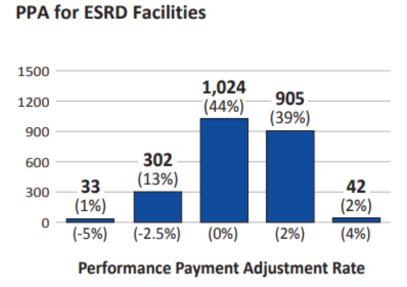
Abbreviations: ETC, End-Stage Renal Disease Treatment Choice; HRRs, hospital referral regions.

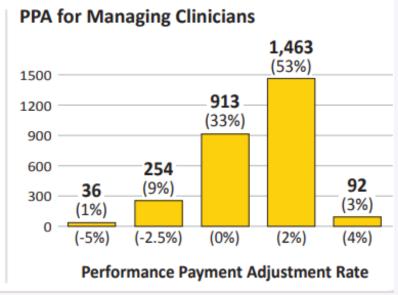


End-Stage Treatment Choices (ETC) Microeconomics

MY1 PERFORMANCE PAYMENT ADJUSTMENT

41% of ESRD facilities and **56% of Managing Clinicians** received a positive PPA.





50 Medicare HD patients x \$353 per month x 12 months = \$211,800 per year (-5% PPA) x \$211,800 = - \$10,590 per year

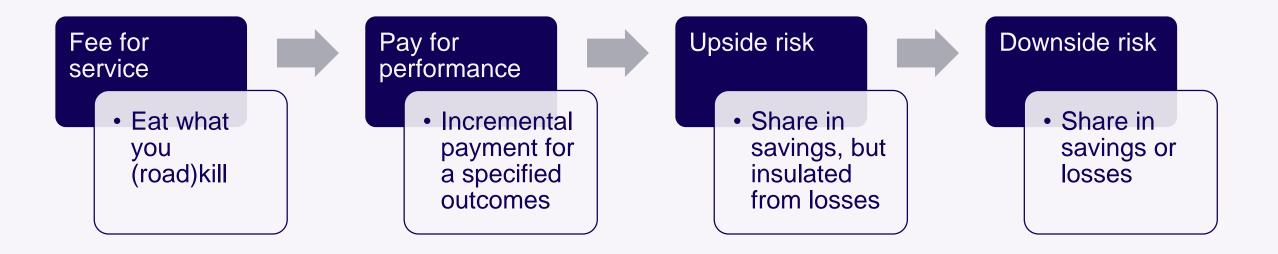
But if I grow my HD census by 10 patients (Crashers)

(-5% PPA) x 10 new Medicare HD patients x \$353 per month x 12 months = \$40,242

\$40,242 - \$10,590 = \$29,652 per year net gain even for lowest performing nephrologist



Payer Risk Continuum

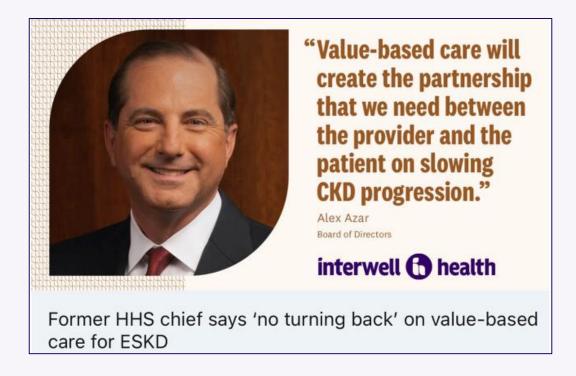


Many nephrologists are sensitive to changes in income and riskaverse to making investments in something they don't understand



Medicare's aggressive approach to CKD attracts providers, value-based care groups NEPHROLOGY





The People Who Created The Policies are Now Involved in The Transformation New Entrants are Eager to Assume Risk (For Nephrologists)



Finding the Right Partner or Practice Solution





POSITION PAPER

Approved by RPA Board 11.23.21

RPA Guidance on Nephrologists' Relationships with Value-Based Commercial Coordinated Care Entities

Questions to Ask

How will partnership provide a competitive advantage?

Are practice partners willing to change our care and processes?

What capabilities do we need that the company has to offer?

Have we explored our own gaps and ability to address them?

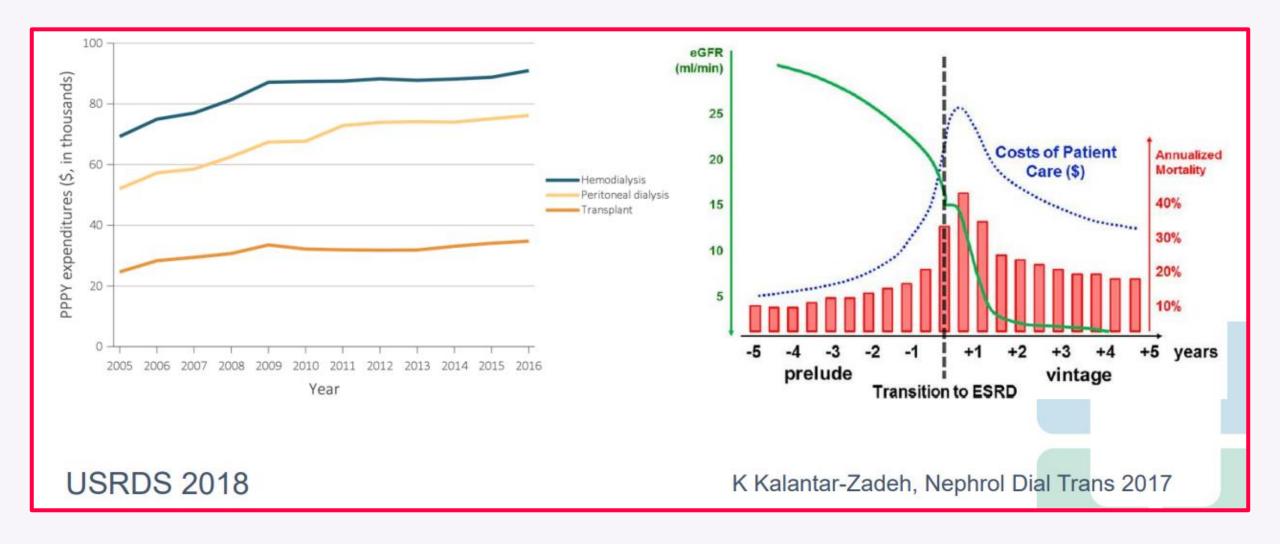
How much data and practice information are we willing to share?

How will the company demonstrate it values our relationship?

Will we be protected from financial risk and loss of autonomy?

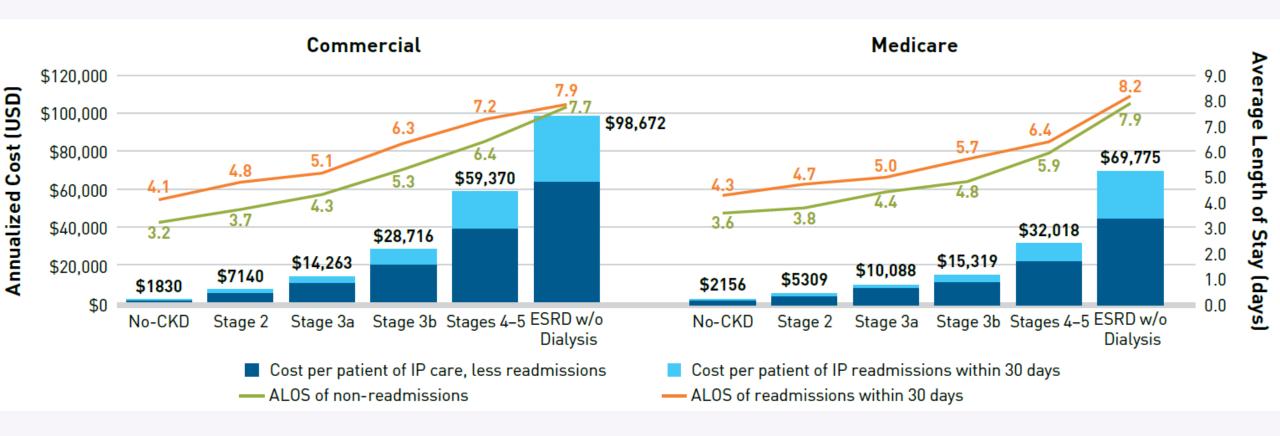


Costs and Waste – Key Drivers of Transformation





IP admits and readmits drive kidney spending





KCC Quality Metrics

Figure 1. KCC Model Benchmark Data Sources for PY2023

Measure Number	Measure Name	Steward	P4P or P4R Status	KCF Option Measure Type	KCF Benchmark Data Source	CKCC Options Measure Type	CKCC External Benchmark Data Source
National Quality Forum (NQF) #2483	Gains in Patient Activation (PAM® [Patient Activation Measure®]) Scores at 12 Months	Insignia Health	P4P	Quality Gateway	Insignia Health Data 2011–2021	Quality Measure	Insignia Health Data 2011–2021
NQF #1885	Depression Response at Twelve Months – Progress Towards Remission	Minnesota Community Measurement (MNCM)	P4P for Cohort 1; P4R for Cohort 2	Quality Gateway	MNCM 2020 Data	Quality Measure	MNCM 2020 Data
NQF #2594	Optimal ESRD Starts	The Permanente Federation	P4P	Utilization	ESRD Quality Reporting System (EQRS) 2023 Data	Quality Measure	EQRS 2021 Data
TBD	Cost of Care Composite measure: CKD Cost of Care measure ESRD Cost of Care measure	CMS	P4P	Utilization	Medicare Claims 2023 Data	N/A	N/A





Clinical Outcomes and Healthcare Use Associated With Optimal ESRD Starts

Peter W. Crooks, MD; Christopher O. Thomas, MD; Amy Compton-Phillips, MD; Wendy Leith, MS, MPH; Alvina Sundang, MBA; Yi Yvonne Zhou, PhD; and Linda Radler, MBA

TABLE 3. Healthcare Utilization in the Year After Starting Renal Replacement Therapy

	Annual	Utilization*		
	Optimal Start	Nonoptimal Start	Rate Ratio (95% CI)	P
Inpatient stays	1.5	2.7	0.54 (0.50-0.59)	<.001
Total inpatient days	9.4	27.5	0.45 (0.38-0.52)	<.001
ED visits	2.4	3.5	0.68 (0.63-0.74)	<.001
Outpatient office visits				
Primary care	4.0	4.4	0.88 (0.79-0.97)	.02
Specialty care ^b	12.5	18.0	0.62 (0.53-0.74)	<.001
Nephrology	5.1	4.7	0.88 (0.74-1.05)	.15
Vascular surgery	1.3	3.6	0.31 (0.29-0.34)	<.001

TAKEAWAY POINTS

In an integrated healthcare delivery system, compared with patients with end-stage renal disease with nonoptimal starts of renal replacement therapy by hemodialysis via a central venous catheter, patients with optimal starts by hemodialysis via arteriovenous fistula/graft, peritoneal dialysis, or pre-emptive transplant had:

- Reduced morbidity
- Less inpatient utilization
- Annual event rates for all-cause mortality lower than those reported in the largest systematic review to date
- Fewer primary and specialty care outpatient visits, except for nephrology visits, which did not differ between those with optimal and nonoptimal starts

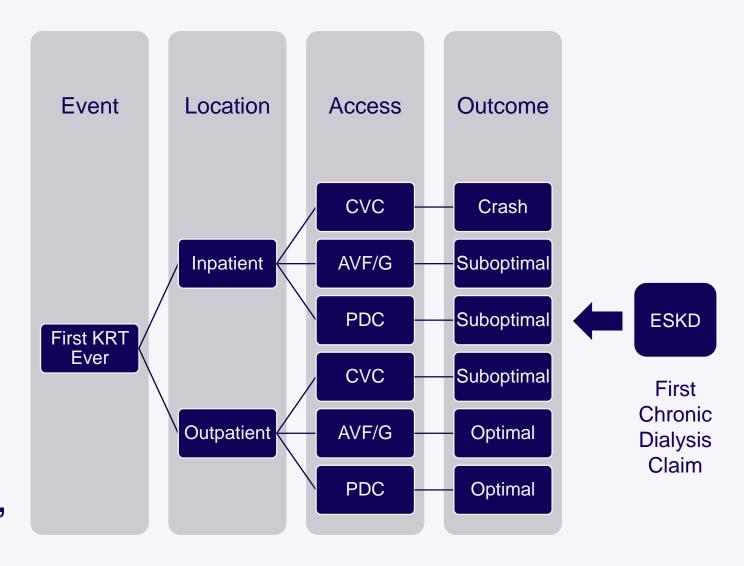


THE AMERICAN JOURNAL OF MANAGED CARE.

Not all Dialysis Starts are Crashes or Optimal

Suboptimal Start

- Outpatient CVC
- Inpatient AVF/G
- Inpatient PDC "urgent"





ESKD Costs as Function of Dialysis Start Type

Avoiding crash start (inpatient dialysis initiation) saves an average of \$28K PMPY in first year of dialysis

Crash starts increase costs

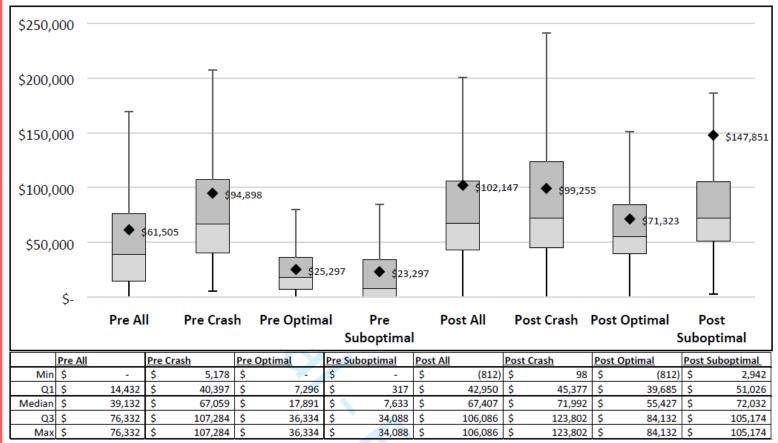
\$69K in year preceding ESKD including initial dialysis event

Total **potential 2-year savings**of ~\$97K around dialysis
transition period

THE AMERICAN JOURNAL OF MANAGED CARE.



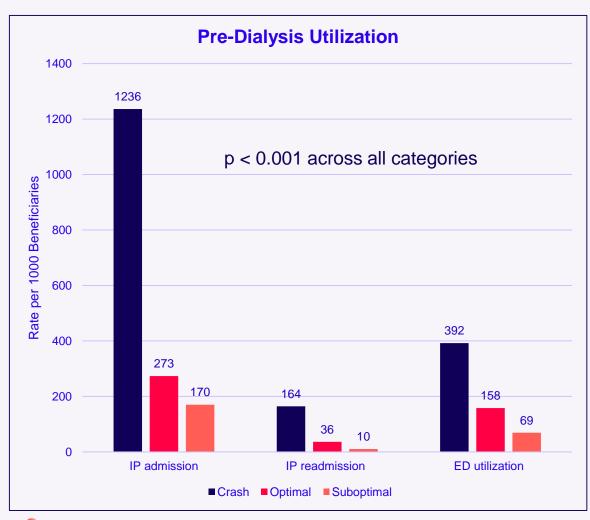
Figure 1A. Total cost of care (TCOC) in 12 months before and after first outpatient dialysis treatment. All values in \$U.S. dollars.

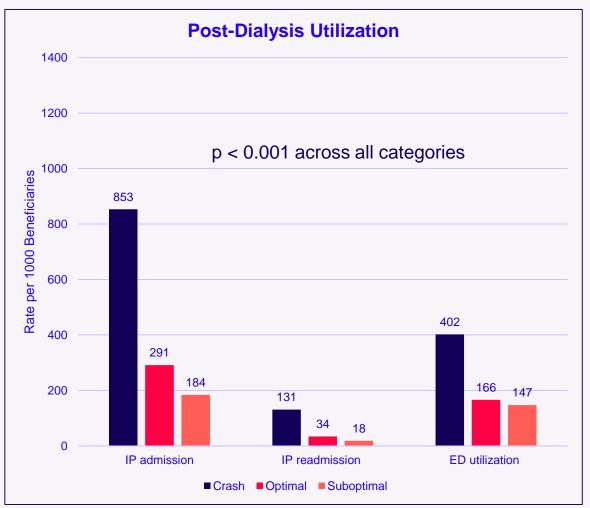


Notes: Outliers are not shown on box plots to optimize visual scale. Lower box plot whiskers are truncated at zero value bound. Indicates mean values. Pre- 12 months before first outpatient dialysis treatment, Post- 12 months after first outpatient dialysis treatment. p <0.001 for comparison of mean and median values between all Pre groups. p=0.01 for comparison of mean values between all Post groups. p=0.001 for comparison of median values between all Post groups.

Source: Wong L, et al. AJMC 2023 (in press)

Differences Persist in Chronic Dialysis Period







Source: Wong L, et al. AJMC 2023 (in press)

Derek Jeter Key #3 Learn From Mistakes = **Continuous Improvement**











WAITING





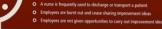




- Time spent looking for an item missing from a surgical case car



SKILLS/POTENTIAL









Kidney Medicine Is A Team Sport

By Susan E. Quaggin

! We are excited to embark #valuebasedcare

#kidneydisease #kidneyhealth



Prayus Tailor, MD, FASN (He/Him) • 1st Nephrologist & Managing Partner -Nephrology Associates & Medical Director -... 9h • Edited • •

interdisciplinary team! 2 weeks in. First patient already transplanted! Let's roll!

The "Not-So Secret" sauce for nephrology practices is team-based care with dedicated nephrologist leadership





Intermountain Kidney Health Model



Early identification, diagnosis, and intervention of CKD

Extend outreach and access to patients through Telehealth services

Clinical care pathway adherence through Kidney Care Navigators and iCentra

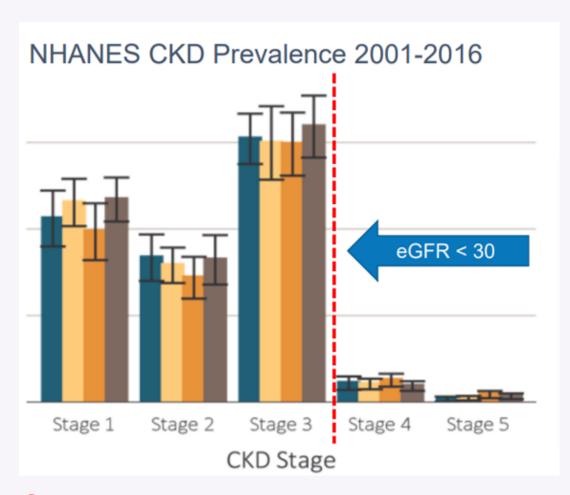
Pre-emptive transplant and home dialysis first policy

Home training centers and satellite clinics

Payer focus, value-based care initiatives



Too Much CKD, not enough nephrologists...



Prevalence of CKD and ESKD in Medicare Part B 2019 (n= 32,590,606)







Nephrology APP Residency Program

An Innovative Educational Collaboration by

Intermountain Kidney Services
Intermountain Medical Group



APP Residency Program Description

- **The goal** is to create a residency training program for newly employed Nephrology Advanced Practice Providers (APP) at Intermountain.
- This will be accomplished by building a **foundation of relevant primary care knowledge and skills** through a structured program in partnership with Intermountain primary care networks.
- The result of this innovative program will be Nephrology APPs who can manage chronic kidney disease (CKD) patients more proficiently with the referring provider's needs at the forefront.
- With an intentional approach to blend perspectives and foster understanding between primary care and nephrology, this immersive training can accelerate development of an integrated CKD care model across Intermountain and foster a great long-term relationship with our primary care partners.



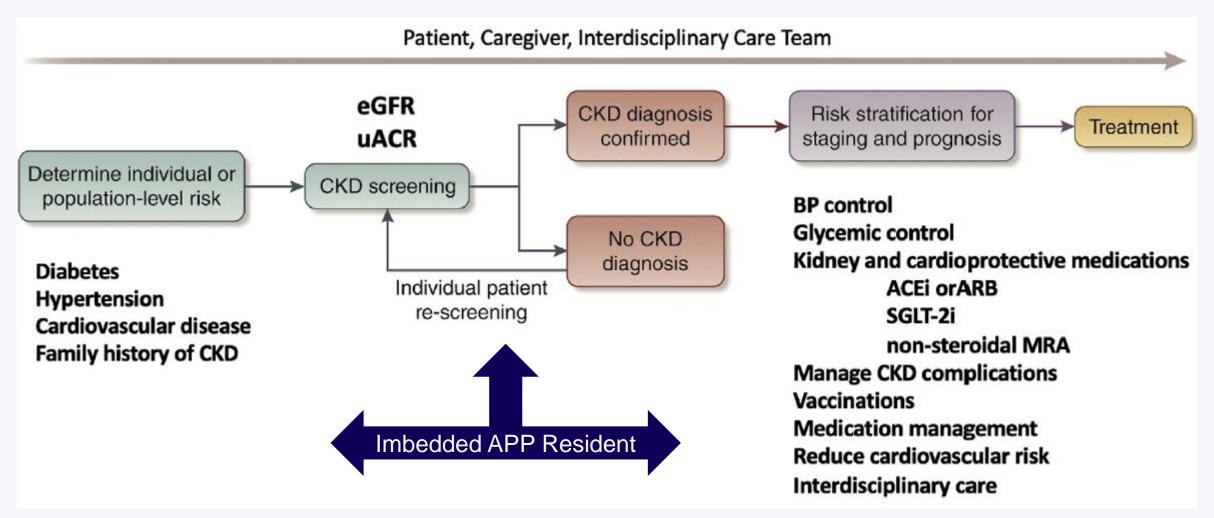
Residency Details and Timelines

The First 6 months:

- Work with Primary Care Provider faculty twice a week.
- Spend two days per week shadowing IKS providers and learning clinic day-to-day tasks.
- Complete supervised and self-directed curriculum readings as assigned by IKS faculty.
- Round in dialysis units with an IKS APP 1-2 days a month.
- Receive up to 5 hours per week of didactic lectures and case-based learning with IKS faculty.
- A few days a month spent working with interdisciplinary care, including but not limited to:
 Kidney Transplant, Nurse CKD Navigation, Vascular Access Coordination, and other clinical
 programs.



What Should PCPs do for Stages 1-3B CKD?





Driving Change: The Role of Nurse Practitioners in Nephrology Care Delivery Redesign

By Candice Halinski

NPs can integrate science into practice to design programs that improve clinical outcomes.

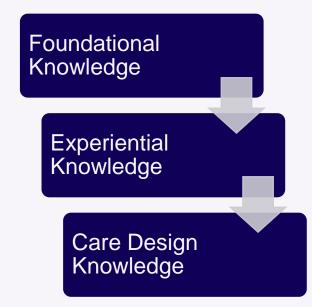


Figure 1. Design thinking in the creation of kidney-related care delivery models Develop empathy and work to understand the journey of the patient Develop through engagement and direct observation. Understand the empathy patient's care experiences throughout the health care system. Define the problems identified through observation and patient Define interaction. Collaborate with team members to identify alternative solutions. Collaborate Consider stakeholders, and include alternate industries (i.e., hospitality). Design the process, protocol, or procedure that works toward an Design identified set of outcomes. Leverage existing qualitative and quantitative data. Test the model using an iterative approach (i.e., Plan Do Study Act). Test Refine and re-focus.



Early Feedback From APP Residency Participants

IKS APP Residents:

"I have been able to do hands-on during my PCP rotation as a part of the residency program. I am seeing patients on my own, making clinical decisions, writing notes, ordering labs etc."

"Didactics sessions have been really beneficial [for going] over the topics we struggle [with]. They are great opportunity to discuss some basics about the medications, basic physiology we otherwise have no chance to go over."

"Overall, PCP rotations makes us feel like providers as we are able to use the skills that we already know. Didactics sessions helps us to build more knowledge and better prepare us."

Primary Care Faculty:

"We are grateful to have you with us in the clinic. We will use every bit of your kidney knowledge to help our patients here."



Take Home Points (Derek Jeter's Keys to Success)

High Reliability + Downside Risk + Continuous Improvement

ACO At risk lives



Kidney health evaluation for people with diabetes (KED)



Testing with kidney function (eGFR) and albuminuria (uACR)

PCP CKD 1-3B



Nephrology CKD 4-5 ESKD



Diagnosis



Patient engagement



Reduce cardiovascular complications



Risk stratification or heat map



Interdisciplinary care



Contain costs



Interventions



Reduce transitions between stages and prevent or delay kidney failure



Review, refine and repeat



Thank Your For Your Attention





