

Physician-Focused Payment Model Technical Advisory Committee

LOI: Environmental Scan and Relevant Literature

Renal Physicians Association

Letter Dated: 3/27/2017

Letter Received: 3/27/2017

The Renal Physicians Association (RPA) has more than 3,500 members that consist of nephrologists, physician assistants, nurse practitioners and practice managers. The first months for adult patients transitioning from Chronic Kidney Disease (CKD) to End-Stage Renal Disease (ESRD) therapies are associated with increased mortality and complication rates, frequent hospitalizations, and notably higher payer costs. RPA proposes a condition-specific, episode-of-care payment model, called the Clinical Episode Payment (CEP), that would span the first six months of dialysis therapy for established Medicare beneficiaries. This model focuses on incentivizing care to more consistently deliver optimal transitions from CKD to ESRD.

CEP is built upon existing infrastructures and utilizes the current Medicare Physician Fee Schedule. RPA anticipates that nephrologists and nephrology groups of all sizes, both in rural and urban areas, would be eligible participants in this CEP. The financial incentives or penalties would be determined in a reconciliation period following the episode of care and would constitute shared savings or shared losses when benchmarked against a risk-adjusted target cost. The CEP upside/downside risk option would allow participants to qualify under MACRA Advanced APM provisions. The only upside option of this APM model would be expected to “allow credit” to a participating physician under the MIPS Quality Payment Program.

RPA anticipates that the enhanced focus on care processes during this early period of dialysis therapies will result in measurable improvements in clinical quality outcomes, as well as a reduction in payer spending. Evidence-based outcomes will be utilized to ensure quality. An emphasis on hospital admission and re-admission avoidance, care coordination, home therapies, and expanded use of palliative care where appropriate will reduce payer spending. Avoiding the need for dialysis altogether by incentivizing pre-emptive and early renal transplantation would result in the “ultimate improved outcome.” Per the letter of intent from RPA, currently there exists no financial incentive to encourage transplantation.

Key Search Terms

Bundled payment; chronic kidney disease; CMS; CKD; clinical evidence; ESRD; ESRD bundled payment; GAO; Medicare; MedPAC; payment models; payment policy; payment reform; outpatient dialysis; Renal Physicians Association; renal transplant; statistics; USRDS

Research Task	Section	Contents
Environmental Scan	<u>Section 1</u>	Key documents, timely reports, grey literature, and other materials gathered from internet searches (6).
Relevant Literature	<u>Section 2</u>	Relevant literature materials (4).
Related Literature	<u>Section 3</u>	Related literature materials (2).
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Section 1. Environmental Scan

Environmental Scan		
Key words: ESRD; CMS; payment models		
Organization	Title	Date
Center for Medicare & Medicaid Innovation (CMMI or the Innovation Center)	The Comprehensive ESRD Care (CEC) Model	Updated: 4/10/2017 Accessed: 4/14/2017
Purpose/Abstract		
<p>Background: In 2013, the CMS Innovation Center (CMMI) announced it would test a new Comprehensive End-Stage Renal Disease (ESRD) Care (CEC) model. The goals of the model are to improve beneficiary health outcomes and reduce per capita Medicare expenditures. Through this new initiative, CMS partnered with groups of health care providers and suppliers – “ESRD Seamless Care Organizations” (ESCOs) – to test and evaluate a new model of payment and care delivery specific to Medicare beneficiaries with ESRD. The CEC Model began September 1, 2015, and will run until December 31, 2020. In 2016, CMS released a solicitation to add more ESCOs for Performance Year (PY) 2 of the model to start January 1, 2017.</p> <p>Summary: In the CEC Model, dialysis clinics, nephrologists and other providers join together to create an ESCO to coordinate care for matched beneficiaries. The matching process will use historical data on beneficiaries who are receiving care from participating providers. ESCOs are accountable for clinical quality outcomes and financial outcomes measured by Medicare Part A and B spending, including all spending on dialysis services for their aligned ESRD beneficiaries. The CEC Model includes separate financial arrangements for larger and smaller dialysis organizations. Large Dialysis Organizations (LDOs), which have 200 or more dialysis facilities, are eligible to receive shared savings payments. These LDOs are also liable for shared losses, and have higher overall levels of risk compared with their smaller counterparts. Non-large dialysis organizations (Non-LDOs), which includes chains with fewer than 200 dialysis facilities, independent dialysis facilities, and hospital-based dialysis facilities, have the option of participating in a one-sided track. These organizations are able to receive shared savings payments, but are not liable for payment of shared losses. The CEC Model LDO payment track and Non-LDO two-sided payment track are considered Advanced APMs for the purpose of the Quality Payment Program.</p>		
Additional Notes/Comments		
The website linked above has additional links to other CEC model documents, such as the FAQs, fact sheets, attribution methodology, request for applications, and other archived materials.		

Environmental Scan		
<i>Key words: ESRD; CMS; payment models</i>		
Organization	Title	Date
Centers for Medicare & Medicaid Services (CMS)	ESRD Quality Incentive Program	Last modified: 1/11/2017 Accessed: 4/14/2017
Purpose/Abstract		
<p>Background: The Centers for Medicare & Medicaid Services (CMS) administers the End-Stage Renal Disease (ESRD) Quality Incentive Program (QIP) to promote high-quality services in outpatient dialysis facilities treating patients with ESRD. Under this “pay-for-performance” or “value-based purchasing” (VBP) program, CMS pays for the treatment of ESRD patients by linking a portion of payment directly to facilities’ performance on quality care measures.</p> <p>Summary: The ESRD QIP will reduce payments to ESRD facilities that do not meet or exceed certain performance standards. The maximum payment reduction CMS can apply to any facility is two percent. This reduction will apply to all payments for services performed by the facility receiving the reduction during the applicable payment year. CMS publicly reports facility ESRD QIP scores; these scores are available online on the Dialysis Facility Compare website. In addition, each facility is required to display a “Performance Score Certificate” that lists its “Total Performance Score,” as well as its performance on each of the quality measures identified for that year.</p>		
Additional Notes/Comments		
<p>The website linked above has links to additional ESRD QIP Resources, such as FAQs, status of the program, how the program affects patients and dialysis centers, technical specifications for ESRD QIP measures, monitoring and evaluation, and educational resources, among other program details.</p>		

Environmental Scan

Key words: Care coordination; CKD; Medicare

Journal	Title	Date
Seminars in Dialysis	<u>Going Upstream: Coordination to Improve CKD Care</u>	3/2016

Purpose/Abstract

Background: Care coordination for patients with chronic kidney disease has been shown to be effective in improving outcomes and reducing costs. However, few patients with CKD benefit from this systematic management of their kidney disease and other medical conditions. As a result, outcomes for patients with kidney disease are not optimal, and their cost of care is increased. For those patients who transition to kidney failure treatment in the United States, the transition does not go as well as it could. The effectiveness of treatments to delay progression of kidney disease in contemporary clinical practice does not match the efficacy of these treatments in clinical trials. Conservative care for kidney disease, which should be an option for patients who are very old and very sick, is not considered often enough or seriously enough. Opportunities for early and even pre-emptive transplantation are missed, as are opportunities for home dialysis. The process of dialysis access creation is rarely optimal. The consequence is care which is not as good as it could be, and much more expensive than it should be.

Summary: Authors describe their initial efforts to implement care coordination for chronic kidney disease in routine clinical care and attempt to project some of the benefits to patients and the cost savings. They discuss potential clinical and financial benefits from slowing progression of CKD, cost savings from decreasing cost of care with each CKD stage, comprehensive conservation care and the cost savings, and increasing access to transplantation and the cost savings. Additionally, the clinical and financial benefits of the delay of dialysis, increasing access to home dialysis, increasing access to dialysis with a permanent access, preferably a fistula, and avoiding hospitalization for first dialysis treatments.

Additional Notes/Comments

Environmental Scan

Key words: Renal Physicians Association

Organization	Title	Date
Renal Physicians Association (RPA)	RPA Public Comment RE: CMS-5517-FC: Medicare Program; Merit-Based Incentive Payment System (MIPS) and Alternative Payment Model (APM) Incentive Under the Physician Fee Schedule, and Criteria for Physician-Focused Payment Models; Final Rule With Comment Period	12/19/2016

Purpose/Abstract

Background: RPA acts as the national representative for physicians engaged in the study and management of patients with kidney disease. RPA provided comments on selected portions of the Merit-Based Incentive Payment System (MIPS) and Alternative Payment Model (APM) Incentive Final Rule.

Summary: RPA's comments focused on the following issues: (1) impact of 'pick your pace' on MIPS implementation; attribution and nephrology; (2) proposed elimination of the specialty-specific risk adjustor; (3) reduction of administrative burden for advancing care information; and (4) the development of quality measures as part of Qualified Clinical Data Registries (QCDRs). RPA states that the varying and unique characteristics of the kidney disease patient population and kidney care delivery (e.g., numerous comorbidities and polypharmacy issues, partially capitated payment structure for care predominantly provided in a bundled care environment) call for the design of an advanced care delivery model that will achieve optimal quality outcomes and Medicare program cost-savings.

Additional Notes/Comments

Environmental Scan		
Key words: GAO; ESRD; payment reform		
Organization	Title	Date
Government Accountability Organization (GAO)	END-STAGE RENAL DISEASE: Medicare Payment Refinements Could Promote Increased Use of Home Dialysis	10/2015
Purpose/Abstract		
<p>Background: In 2013, Medicare spent about \$11.7 billion on dialysis care for about 376,000 Medicare patients with end-stage renal disease, a condition of permanent kidney failure. Some of these patients performed dialysis at home, and such patients may have increased autonomy and health-related quality of life. GAO was asked to study Medicare patients' use of home dialysis and key factors affecting its use.</p> <p>Summary: This report examines: (1) trends in home dialysis use and estimates the potential for wider use, (2) incentives for home dialysis associated with Medicare payments to dialysis facilities, and (3) incentives for home dialysis associated with Medicare payments to physicians. GAO reviewed CMS' policies and relevant laws and regulations, and GAO analyzed data from CMS (2010-2015), the United States Renal Data System (1988-2012), and Medicare cost reports (2012), the most recent years with complete data available. GAO also interviewed CMS officials, selected dialysis facility chains, physician and patient associations, and experts on home dialysis. GAO recommends that CMS: (1) take steps to improve the reliability of the cost report data; (2) examine and, if necessary, revise policies for paying physicians to manage the care of dialysis patients; and (3) examine and, if appropriate, seek legislation to revise the Kidney Disease Education (KDE) benefit. HHS concurred with the first two recommendations but did not concur with the third.</p>		
Additional Notes/Comments		
GAO Highlights page https://www.gao.gov/products/GAO-16-125		

Environmental Scan

Key words: Nephrology care model; CKD; Geisinger Health

Journal	Title	Date
Seminars in Dialysis	<u>Nephrology Care in a Fully Integrated Care Model: Lessons from the Geisinger Health System</u>	4/2013
Purpose/Abstract		
<p>Background: At this time, there is a clear understanding of the need for healthcare reform in our country. The key stakeholders—patients, physicians, health insurers, and the federal government—recognize that changes are needed to improve the quality of care and to contain the cost of care. Redesigning the current healthcare delivery system to one with a greater emphasis on coordination of care may have a major effect on the quality of care. With >25 million adults in the United States having CKD, and with CKD and ESRD accounting for approximately 10% of the annual Medicare expenditure, improvement in the care of nephrology patients is a high area of focus by many entities. An integrated health care system, in part by enhancing coordination of care, may provide opportunities to improve the medical care in this highly complex patient population.</p> <p>Summary: This article summarizes some of the innovations in care for the nephrology patient population that have occurred in the Geisinger Health Systems, as well as other integrated health care systems. Anemia constitutes an important and costly component of CKD management. The article discusses a protocol-driven, pharmacist-managed anemia program responsible for the administration of an erythropoietin stimulating agent (ESA) and iron products in all CKD patients in the department. Additionally, the article walks through three steps for managing the CKD population, (1) the Geisinger's ProvenHealth Navigator, (2) specialty-specific care management, and (3) reporting structure and additional management strategies.</p>		
Additional Notes/Comments		

Section 2. Relevant Literature

Relevant Literature		
<i>Key words: ESRD; Medicare; payment methods; bundled payment</i>		
Journal	Title	Date
BMC Nephrology	Comparative changes in treatment practices and clinical outcomes following implementation of a prospective payment system: the STEPPS study	5/1/2015
Purpose/Abstract		
<p>Background: The aim of the US dialysis Prospective Payment System bundle, launched in January 2011, was reduction and more accurate prediction of costs of services, whilst maintaining or improving patient care. Dialysis facilities could either adopt the bundle completely (100%) in the first year of launch, or phase-in (25%) over four years. Differences in practice patterns and patient outcomes were hypothesized to occur in facilities that phased-in 25% compared to those that adopted the bundle completely at 100%.</p> <p>Objective: To describe trends in dialytic treatment before and after implementation of the expanded bundle in a representative sample of small dialysis organizations (SDOs).</p> <p>Methods: Data are from the Study to Evaluate the Prospective Payment System Impact on Small Dialysis Organizations (STEPPS), a multi-center prospective observational cohort study of patients receiving care in 51 small dialysis organization facilities designed to describe trends in dialytic treatment before and after bundle implementation. Facility- and patient-level data were collected at enrollment and regularly thereafter. Cox proportional hazards and linear multi-level models were used to estimate the effect of opting-in 25% (vs. 100%) on practice patterns and clinical outcomes.</p> <p>Results: Twelve facilities (patient n = 346) opted to phase into the bundle and 37 facilities (patient n = 1296) opted to completely adopt the bundle. The study found that patients in facilities that had completely adopted the bundle received lower monthly epoetin alfa (EPO) doses, and had lower mean hemoglobin concentrations; hospitalization and mortality rates were numerically lower in facilities that chose to phase into the bundle. However, these results were not statistically significant.</p> <p>Conclusions: The economic pressure for dialysis providers to work within an expanded composite rate bundle whilst maintaining patient care may be a driver of practice indicator outcomes. Additional investigations are warranted to more precisely estimate clinical outcomes in patients attending facilities enrolling into the bundle 100% relative to the previous fee-for-service framework.</p>		
Additional Notes/Comments		

Relevant Literature		
<i>Key words: ESRD; payment policy; Medicare; bundled payments</i>		
Journal	Title	Date
Health Policy	What can we learn from the U.S. expanded end-stage renal disease bundle?	5/2013
Purpose/Abstract		
<p>Background: Episode-based payment, commonly referred to as bundled payment, has emerged as a key component of U.S. health care payment reform. Bundled payments are appealing as they share the financial risk of treating patients between payers and providers, encouraging the delivery of cost-effective care. A closely watched example is the U.S. End Stage Renal Disease (ESRD) Prospective Payment System, known as the 'expanded ESRD bundle.'</p> <p>Purpose: In this paper, the authors provide insight into the expanded ESRD bundle 2 years after its implementation.</p> <p>Summary: First, authors discuss emerging lessons, including how implementation has changed dialysis care with respect to the use of erythropoietin stimulating agents, how implementation has led to an increase in the use of home-based peritoneal dialysis, and how it may have contributed to the market consolidation of dialysis providers. Second, authors use the expanded ESRD bundle to illustrate the importance of accounting for stakeholder input and staging policy implementation. Third, authors highlight the need to consider system-wide consequences of implementing bundled payment policies. Fourth, authors suggest how bundled payments may create research opportunities.</p> <p>Conclusions: Bundled payment policies offer opportunities and challenges. Their success will be determined not only by impacts on cost containment, but also on whether or not they encourage high quality care.</p>		
Additional Notes/Comments		

Relevant Literature		
<i>Key words: Medicare, ESRD, payment policy</i>		
Journal	Title	Date
Health Affairs	Medicare's Payment Strategy for End-Stage Renal Disease Now Embraces Bundled Payment and Pay-For-Performance to Cut Costs	9/2012
Purpose/Abstract		
<p>Background: Medicare has provided health insurance coverage to all people who have been diagnosed with end-stage renal disease (ESRD), or kidney failure since 1973. In this paper, the authors review ESRD payment policies and trace the history of payment policies in Medicare's dialysis program from 1973 to 2011, while also providing some insight into the rationale for changes made over time. The authors discuss the program's early years (1973-82), introduction of the composite rate (1983-89) and the Erythropoiesis stimulating agents and payment reforms (1989-2006), and the recent pay-for-performance initiatives.</p> <p>Findings: The authors remain uncertain whether bundling of dialysis payments can stem the increase in the total cost of dialysis to Medicare. Additionally, authors were also uncertain whether the consequences of bundling dialysis payments could inform implementation of bundled payments in other clinical contexts, since bundling is unique in that there is only a single provider affected by bundling.</p> <p>Conclusions: Payment reform in other areas of Medicare may have implications for the costs of end-stage renal disease. To the extent that screening identifies patients earlier, it may help reduce the number of patients with diabetes who progress to end-stage renal disease. Improving the screening and management of chronic conditions that predispose patients to end-stage renal disease may be a particularly successful strategy in stemming the growth in costs.</p>		
Additional Notes/Comments		

Relevant Literature		
<i>Key words: Medicare cost savings; dialysis</i>		
Journal	Title	Date
American Journal of Nephrology	Timing of Arteriovenous Fistula Placement and Medicare Costs during Dialysis Initiation	5/11/2012
Purpose/Abstract		
<p>Background/Aims: Arteriovenous fistulas (AVFs) appear to be clinically superior to catheters as vascular access for maintenance hemodialysis, but higher insertion costs and high disease burden and mortality obscure the issue of whether AVF placement before hemodialysis initiation represents a net cost savings. We aimed to investigate Medicare costs for patients beginning maintenance hemodialysis, as related to the timing of AVF placement.</p> <p>Methods: Data were from Medicare claims for incident hemodialysis patients aged ≥ 67 years in 2006. The study period extended from 2 years before to 1 year after dialysis initiation. Patients identified as having AVFs were categorized by timing of placement (mature AVF at dialysis initiation, maturing AVF at initiation, post initiation AVF placement). Because timing may be influenced by factors that also influence overall costs, the model accounted for this nonrandom treatment assignment. An ordered probit extension of the classic Heckman correction was employed after identifying an appropriate instrumental variable. A cohort with Medicare coverage before and after dialysis initiation was identified, and Medicare claims were used to identify comorbid conditions and treatment costs.</p> <p>Results: Principal findings are that earlier AVF placement leads to lower costs, with the potential for about USD 500 million in savings. Additionally, the effect of nonrandom treatment assignment is real and significant. In our data, the impact of AVF placement timing was understated when treatment selection was ignored.</p> <p>Conclusion: For appropriate AVF candidates, having a mature AVF in place at the time of dialysis initiation appears to confer cost savings.</p>		
Additional Notes/Comments		

Section 3. Related Literature

Related Literature		
<i>Key words: ESRD; bundled payment; Medicare</i>		
Journal	Title	Date
Health Services Research	Effect of Medicare Dialysis Payment Reform on Use of Erythropoiesis Stimulating Agents	10/30/2014
Purpose/Abstract		
<p>Objective: In 2011, the Centers for Medicare & Medicaid Services (CMS) replaced fee-for-service reimbursement for erythropoiesis stimulating agents (ESAs) with a fixed-sum bundled payment for all dialysis-related care and pay-for-performance incentives to discourage maintaining patients' hematocrits above 36 percent. Authors examined the impact of the new payment policy on the use of ESAs.</p> <p>Data Sources and Extraction: CMS's Renal Information Management System. Secondary data from 424,163 patients receiving hemodialysis treatment between January 2009 and June 2011.</p> <p>Study Design: Regression discontinuity design assessing the use of ESAs by hematocrit level before and after the implementation of the payment policy change.</p> <p>Principal Findings: The introduction of bundled payments with pay-for-performance initiatives was associated with an immediate and substantial decline in the use of ESAs among patients with hematocrit >36 percent and little change in the use of ESAs among patients with hematocrit ≤36 percent. In the first two quarters of 2011, the use of ESAs during dialysis fell by about 7–9 percentage points among patients with hematocrit levels >36 percent. No statistically significant differences in ESA use were observed at the thresholds of 30 or 33 percent.</p> <p>Conclusion: CMS' payment reform for dialysis care reduced the use of ESAs in patients who may not benefit from these agents.</p>		
Additional Notes/Comments		

Related Literature

Key words: Dialysis treatment; ESRD; comorbidity; alternative care

Journal	Title	Date
Clinical Journal of the American Society of Nephrology (CJASN)	Is Maximum Conservative Management an Equivalent Treatment Option to Dialysis for Elderly Patients with Significant Comorbid Disease?	10/2009

Purpose/Abstract

Background: There is ongoing growth of elderly populations with ESRD in Western Europe and North America. In [UCL Center for Nephrology, Royal Free and University College Medical School], they offer an alternative care pathway of 'maximum conservative management' (MCM) to patients who elect not to start dialysis, often because of a heavy burden of comorbid illness and advanced age. The objective of our study was to compare clinical outcomes for patients who had ESRD and chose either MCM or renal replacement therapy (RRT).

Design, Setting, Participants, & Measurements: This is an observational study of a single-center cohort in the United Kingdom that evaluated 202 elderly (> or =70 yr) patients who had ESRD and had chosen either MCM (n = 29) or RRT (n = 173). We report survival, hospitalization rates, and location of death for this cohort. Survival was measured from a standardized 'threshold' estimated GFR of 10.8 ml/min per 1.73 m²(2).

Results: Median survival, including the first 90 d, was 37.8 mo (range 0 to 106 mo) for RRT patients and 13.9 mo (range 2 to 44) for MCM patients ($P < 0.01$). RRT patients had higher rates of hospitalization (0.069 [95% confidence interval (CI) 0.068 to 0.070]) versus 0.043 [95% CI 0.040 to 0.047] hospital days/patient-days survived) compared with MCM patients. MCM patients were significantly more likely to die at home or in a hospice (odds ratio 4.15; 95% CI 1.67 to 10.25). A survey of the literature describing elderly ESRD outcomes is also presented.

Conclusion: Dialysis prolongs survival for elderly patients who have ESRD with significant comorbidity by approximately 2 yr; however, patients who choose MCM can survive a substantial length of time, achieving similar numbers of hospital-free days to patients who choose hemodialysis.

Additional Notes/Comments

Section 4. References

1. Carson, R.C., Juszczak, M., Davenport, A., & Burns, A. (2009). Is Maximum Conservative Management an Equivalent Treatment Option to Dialysis for Elderly Patients with Significant Comorbid Disease? *Clinical Journal of the American Society of Nephrology*. 4(10), 1611-1619. doi: 10.2215/CJN.00510109
2. Chambers, J.D., Weiner, D.E., Bliss, S.K., & Neumann, P.J. (2013). What Can We Learn from the U.S. Expanded End-Stage Renal Disease Bundle? *Health Policy*. 110(2-3), 164–71. doi: <http://dx.doi.org/10.1016/j.healthpol.2013.01.011>
3. Monda, K.L., Joseph, P.N., Neumann, P.J., Bradbury, B.D., & Rubin, R.J. (2015). Comparative changes in treatment practices and clinical outcomes following implementation of a prospective payment system: the STEPPS study. *BMC Nephrology*. 16(67), 1-10. doi: 10.1186/s12882-015-0059-8
4. Solid, C.A. & Carlin, C. (2012). Timing of Arteriovenous Fistula Placement and Medicare Costs during Dialysis Initiation. *American Journal of Nephrology*. 35, 498-508. doi: 10.1159/000338518
5. Swaminathan, S., Mor, V., Mehrotra, R., & Trivedi, A. (2014). Effect of Medicare Dialysis Payment Reform on Use of Erythropoiesis Stimulating Agents. *Health Services Research*. 50(3), 790-808. doi 10.1111/1475-6773.12252
6. Swaminathan, S., Mor, V., Mehrotra, R., & Trivedi, A. (2012). Medicare's Payment Strategy for End-Stage Renal Disease Now Embraces Bundled Payment and Pay-For-Performance to Cut Costs. *Health Affairs*. 31(9), 2051-2058. doi:10.1377/hlthaff.2012.0368.

PHYSICIAN-FOCUSED PAYMENT MODEL
TECHNICAL ADVISORY COMMITTEE (PTAC)

PRELIMINARY REVIEW TEAM (PRT)

CONFERENCE CALL

INCIDENT END-STAGE RENAL DISEASE (ESRD)
CLINICAL EPISODE PAYMENT MODEL

SUBMITTED BY
RENAL PHYSICIANS ASSOCIATION (RPA)

Wednesday, September 20, 2017
10:30 a.m.

PRESENT:

JEFFREY W. BAILET, MD, PTAC Committee Member
PAUL N. CASALE, MD, MPH, PTAC Committee Member
HAROLD D. MILLER, PTAC Committee Member

SIDDHARTH P. SHAH, MD, Associate Professor of
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ADELE SHARTZER, PhD, Urban Institute
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Actuarial Research Corporation (ARC)

1 P R O C E E D I N G S

2 [10:31 a.m.]

3 DR. CASALE: Hi. Thanks for joining.
4 This is Paul Casale. I'm one of the members of
5 PTAC, and I'm leading this particular review team.
6 And, also on the call is -- well, Harold, do you
7 want to just say hi, since you're there, and then
8 Jeff?

9 MR. MILLER: Hi. This is Harold. I'm
10 Harold Miller. I'm from the Center for Healthcare
11 Quality and Payment Reform, and I am also a member
12 of this, under Paul's excellent leadership.

13 DR. SHAH: Thanks.

14 DR. BAILET: Hi, Dr. Shah. This is Jeff
15 Bailet. I am currently the executive vice
16 president of Health Care Quality and Affordability
17 with Blue Shield of California. I'm an ENT (ear,
18 nose, and throat) surgeon and very happy that you
19 have agreed to participate on the call today to
20 help us.

21 DR. SHAH: Thank you.

22 DR. CASALE: Great. And then we have
23 staff from ASPE.

24 Adele, do you want to just introduce

1 yourself and just say who else is there?

2 DR. SHARTZER: Sure. My name's Adele
3 Shartz, and I'm an Urban Institute employee and a
4 former ASPE staffer who has been pulled in to kind
5 of help staff this PRT. So I'm listening in and
6 kind of taking notes, and I'll try to only pipe in
7 when needed and let the PRT members really do --
8 drive the discussion.

9 And Sarah Selenich is here.

10 MS. SELENICH: Yes. Hi. I'm Sarah
11 Selenich. I work at ASPE, and I think Mary Ellen
12 Stahlman, the PTAC staff director, will be joining
13 shortly as well.

14 DR. CASALE: Great. And did someone just
15 join?

16 DR. PAGAN-SUTTON: Yes, Paul. This is
17 Janet Sutton.

18 MS. SELENICH: Hi, Janet.

19 DR. PAGAN-SUTTON: Hi. How are you?

20 DR. CASALE: So, Dr. Shah, they probably
21 told you, but the conversation's transcribed, and
22 just -- so -- just so you know, and sometimes the
23 transcriptionist may ask who made a comment in case
24 there's any confusion.

1 DR. SHAH: Okay, no problem.

2 DR. CASALE: Good. So before we get
3 started, if I could just ask you a question,
4 because it was asked of me, because this -- this
5 proposal has come from RPA, and apparently, you're
6 a member of RPA. I didn't think that was
7 necessarily going to be an issue, but I just
8 thought I'd -- before we get started -- did you see
9 any conflict with you being a member of RPA and
10 this being --

11 DR. SHAH: I personally do not see a
12 conflict. I mean, I'm -- I'm really just a -- I'm
13 a member in payment mostly that I -- you know, it's
14 part of my -- one of the professional societies
15 that I -- that I'm part of, but I have not
16 contributed to this proposal and do not have any
17 financial stake in it whatsoever.

18 DR. CASALE: Yeah. Okay, great. Well,
19 thanks for clarifying. None of us thought there
20 was, but just to clarify.

21 So I know Adele, I think, has sent you a
22 list of some of the questions after -- so -- sorry.
23 I should go back. So the initial process was, just
24 so you know, we have a -- the PTAC, which is 11

1 members, there is a Preliminary Review Team (PRT)
2 for each proposal, and Harold, Jeff, and I are the
3 PRT team, and so we met by phone to kind of go
4 through the proposal, and it generated discussion
5 amongst us and some questions about it. And we
6 thought it would be very helpful to meet with --
7 with you and then sort of work through these
8 questions, and we may have some additional ones to
9 get your -- your views on it.

10 So I don't know if you just want to start
11 with the first question and give us your thoughts?

12 DR. SHAH: Sure.

13 DR. BAILET: Paul? Paul, this is Jeff.

14 I think for the purposes of the
15 transcriptionist, we probably should read each
16 question --

17 DR. CASALE: Yep.

18 DR. BAILET: -- so that we're clear --

19 DR. CASALE: Yep.

20 DR. BAILET: -- on the record. That would
21 be helpful.

22 DR. CASALE: Thanks, Jeff.

23 Yeah. So the first one was, At what point
24 in the disease progression, generally, does a

1 nephrologist see a patient with CKD (chronic kidney
2 disease)?

3 And, again, in the -- in the model, as you
4 know, the -- the triggering event is related to
5 dialysis, so -- but the question was, How long is
6 the -- you know, when -- when generally will a
7 nephrologist get involved in seeing a patient with
8 CKD?

9 DR. SHAH: Yeah, sure. So this is an area
10 of substantial heterogeneity. Really, it depends
11 on when a referral is made to the nephrologist by
12 the primary care physician or another specialist or
13 -- or if CKD is, you know -- is identified during a
14 hospital admission and then makes it out to a
15 nephrologist then. So it -- it's highly variable.

16 And I think that our initial point of
17 contact with patients with CKD has ranged from very
18 early in the course of disease, like Stage 1 CKD,
19 where somebody has what -- you know, what's called
20 "microalbuminuria." So let's say that they're a
21 diabetic patient who's being watched very closely
22 by their primary care [unintelligible] -- primary
23 care provider and they develop some small amount of
24 protein in the urine. They might make it to see us

1 early versus we have some patients who we meet for
2 the first time when they already have Stage 5
3 disease. And so, you know, ideally, we would meet
4 people, you know, as early as possible when there's
5 time to intervene and, frankly, when there's kidney
6 tissue to save, but it's a broad range of when we
7 meet them.

8 DR. CASALE: Okay. So -- and I think the
9 second question sort of follows up in terms of the
10 -- What's the patient flow, I know it can be
11 variable from CKD to ESRD (end-stage renal
12 disease), and how much involvement do nephrologists
13 have in the process prior to dialysis?

14 And this relates to, you know, is there
15 ample time to educate patients and family members
16 about treatment options, you know, to schedule
17 fistula or graft placement or other care management
18 activities.

19 DR. SHAH: Sure.

20 DR. CASALE: Yeah.

21 DR. SHAH: Yeah. So, I mean, to some
22 extent, the flow will depend on when they are
23 referred to us, right, so how -- how much time do
24 we have to work with them prior to dialysis

1 initiation.

2 But, in general, if we have -- you know,
3 if we have the opportunity to meet them at, let's
4 say, Stage 3 disease, what we would do is -- our
5 normal flow is that we would use every visit as an
6 opportunity to educate the patients about their --
7 about their kidneys and their disease, and in that
8 way, we would build their base of knowledge about
9 modalities, access, transplant, diet, et cetera.

10 And in our practice, we generally refer
11 patients to a formal CKD education class when they
12 hit Stage 3 disease. So in this class, as part of
13 the flow, they learn about CKD. They learn more
14 about modalities and transplants and access, and
15 they do this in a group setting, so they can hear
16 each other's questions as well and -- and then sort
17 of downstream from there, if they choose
18 hemodialysis as their modality, we will generally
19 refer them for an access evaluation when their
20 estimated GFR (glomerular filtration rate) is
21 approximately 20.

22 There is some variation to this rule based
23 on the trajectory. So, for example, if someone has
24 very slowly progressive disease and is unlikely to

1 be on dialysis for years, even when their GFR hits
2 20, then you might delay access planning a bit.

3 But, if not, if they follow along a more
4 routine trajectory, then about 20 is when we refer
5 for access.

6 As far as transplant, it's a similar time
7 frame. So we -- we refer for transplant evaluation
8 when their eGFR (estimated glomerular filtration
9 rate) is about 20.

10 And so in order to really educate patients
11 sufficiently and earn their trust and give them
12 time to digest what they're hearing and, you know,
13 sometimes even go through the stages of grief about
14 their diagnosis, you really need -- you need time,
15 and so, you know, we need to meet them early enough
16 to do all of this upstream work.

17 And if -- if the patient doesn't make it
18 to us until they have Stage 4 or 5 disease, then we
19 don't always have enough time to do all the things
20 we would like to do, like this.

21 MR. MILLER: So this is Harold.

22 Let me dig into sort of this and the
23 previous question a little bit. So just to sort of
24 -- I mean, this is not intended to be a

1 scientifically, statistically accurate question,
2 but roughly, what proportion would you say of
3 patients end up starting dialysis without having --
4 really had any kind of nephrology care before that?

5 DR. SHAH: That's a good question.

6 MR. MILLER: I mean, just give me order of
7 magnitude, right? I mean, so is -- is it 1
8 percent, 10 percent, 40 percent? You know, what
9 would -- what would your sort of gut reaction be?

10 DR. SHAH: Yeah. My gut reaction is
11 probably -- probably closer to 40 percent.

12 MR. MILLER: Forty percent.

13 DR. SHAH: Too many.

14 DR. BAILET: Harold? Harold?

15 MR. MILLER: Yeah.

16 DR. BAILET: This is Jeff.

17 I think it's important for this -- I want
18 to just have a follow-on question about the 40
19 percent. Does that usually emanate from patients
20 who are -- are hospitalized, potentially related to
21 their kidney disease or unknown sequelae, but found
22 out that they're sick enough to require going on
23 dialysis at that time, and so they didn't have the
24 luxury of getting a nephrology -- sort of get in

1 the nephrology pipeline?

2 DR. SHAH: So that would be a subset of
3 the 40 percent, you know, people who -- let's call
4 it, "crash and burn" and then need to start
5 dialysis imminently, and therefore, there is no
6 opportunity to educate them.

7 And then another, you know, subset of that
8 40 percent is people who just present late in the
9 game, so not yet on dialysis and not imminent in,
10 say -- let's say days or weeks, but who might at
11 their initial contact with a nephrologist have
12 stage -- late Stage 4 or early Stage 5 disease,
13 where again, that their -- you can try to get
14 education to happen, but again, you have to keep in
15 mind that -- that the patient, when they first hear
16 of this diagnosis, especially if it's late stage,
17 they're not always ready for education.

18 They have -- there's -- many patients go
19 through a grief period of -- to some extent even
20 being in denial about the diagnosis before they can
21 even accept education. So even at a major academic
22 center where I am, where we have really robust
23 programs, you know, I have a portion of patients
24 who refuse to go to the class because they're, "not

1 ready."

2 MR. MILLER: Well, I was going to ask as a
3 follow-up -- so of the people who were kind of, you
4 know, showing up, showing up with no prior
5 nephrology interaction -- and again, these are just
6 sort of gut reactions -- I'm just trying to get a
7 picture of what some of the potential flows would
8 be here from your experience, but -- so how -- how
9 many of those patients do you think really might
10 have been known to someone as having kidney disease
11 but were, in fact, ignoring it, either because they
12 didn't want to confront the fact that they had it,
13 they didn't want to pay an extra copay to go to a
14 nephrologist, et cetera, and how many of them --
15 you know, so they were -- they were kind of in the
16 system, and -- and some kind of better outreach
17 might have been able to have gotten them involved
18 earlier? But, we've got a structure of a payment
19 system today that doesn't really encourage that
20 kind of proactive outreach, versus patients who
21 may, you know, have no primary care physician, who
22 may have -- you know, are just completely ignoring
23 their health, and all of a sudden only -- as Jeff
24 was describing, sort of, you know, only have to

1 confront this when they end up in the hospital.

2 DR. SHAH: That's a good question. I
3 think that the portion of -- the second group you
4 described, who -- who just ignored their health or
5 didn't see a doctor, there is that subset, but it's
6 relatively small. And I would say the majority of
7 patients that we see have had some contact with a
8 health care system or provider earlier in their
9 life, whether it was in a hospital, in an ED
10 (emergency department), through a primary care, or
11 through another specialist, some contact somewhere
12 in their pipeline earlier, but again, people's
13 trigger levels for consulting a nephrologist are
14 quite heterogeneous.

15 And so a creatinine of 1.5 might not raise
16 any eyebrows for Dr. A, but it might raise eyebrows
17 for Dr. B. And so, you know, to some extent, there
18 is a lot of heterogeneity in the system for
19 potential points of referral.

20 MR. MILLER: And then, I guess, just as a
21 follow-up to that, to what extent do you think that
22 primary care physicians are trying to be the
23 manager of Stage 3 and particularly Stage 4 CKD
24 because of whatever? I mean, at one extreme, you

1 know, "Hey, PCPs (primary care physicians) can do
2 everything. What do we need a nephrologist for?" a
3 concern that the patient simply won't go to see
4 specialty support, and so the PCP is trying to
5 manage it, because I'm -- I'm now trying to
6 distinguish the -- we've been asking when do they
7 see a nephrologist? I'm sort of wondering. So what
8 proportion of patients were actually being managed
9 by a primary care physician up to this point? And
10 -- well, anyway, so what's your thoughts about
11 that?

12 DR. SHAH: You know, I think it's -- it
13 depends on where in the country you're looking at
14 it. It depends on academic medical center versus,
15 you know, rural setting and so on, but you're
16 right. There's a -- there's a proportion of
17 internists who feel like they can and should manage
18 CKD up until a certain point and then refer to a
19 nephrologist, whereas -- like I can give you my
20 institutional bias here. So I'm on the East Coast.
21 I'm at a major academic center.

22 MR. MILLER: Mm-hmm.

23 DR. SHAH: And here, the tone is very
24 different. So we get -- we get earlier referrals

1 here. So if our primary -- if our internal
2 medicine, you know, primary care group identify a
3 disease, they generally refer it to us early
4 because they -- they know that we, A, want that
5 and, B, that there is value to that, and so it
6 really depends on what institution you're at, what
7 part of the country you're in, and other things in
8 terms of how much the internists hold on versus let
9 go, so to speak.

10 MR. MILLER: So if I'm in a rural area,
11 you know, and I'm going to the rural health clinic,
12 there's no nephrologist anywhere nearby, one might
13 well see those -- those primary care physicians
14 trying to do what they can because they figure it's
15 a travel burden. It's a cost burden. It's likely
16 to be something that the patient will resist.

17 And we might actually see, if you looked
18 across the country, more patients being managed,
19 but by -- managed by a primary care physician
20 further along the CKD progression than we would see
21 in areas where you're right down the street from,
22 you know, a dozen nephrologists.

23 DR. SHAH: That's right.

24 MR. MILLER: Okay. So -- I mean, one --

1 because one thing to think about in all these
2 models, I think, is this is a specialty model,
3 which is fine, and you're sort of getting it at the
4 -- the specialist is the one who really has to do
5 what they're talking about doing, but they have
6 this concept that there's an upstream activity.
7 And one of the things that's a little perplexing
8 about the model is that it starts at dialysis, but
9 it's supposed to be involving things that happen
10 before dialysis starts, you know. So it's kind of
11 an interesting question -- is, well -- Who is it
12 that's supposed to be doing that, and when are they
13 supposed to be doing it?

14 And this is presuming that the
15 nephrologist is doing that, but there may well be
16 some significant number of cases where it's
17 actually a primary care physician who would be
18 either the only or the more logical person to be
19 doing at least some of that ahead of time. And
20 does that make sense to you?

21 DR. SHAH: Yes. That's exactly right.
22 That was one of my -- my own observations about
23 this proposal when I read it is, you know, for what
24 the goals are in terms of, you know, a lot of the

1 upstream work, as you said, it may be either a
2 primary care physician, or frankly, it may also be
3 another nephrologist who needs to be incentivized
4 and not the nephrologist who's involved --

5 MR. MILLER: Mm-hmm.

6 DR. SHAH: -- from month zero to six about
7 -- you know, that -- I'll just take a second of
8 your time and say that what really stood out to me
9 in this proposal was, you know, if you're talking
10 about a reimbursement model for the nephrologist
11 who cares for the person on dialysis from month
12 zero to six, but a different nephrologist was
13 caring for them before that, who is being
14 incentivized to do what?

15 MR. MILLER: Well, elaborate on that a bit
16 in terms of how often and when does that happen?

17 DR. SHAH: So, it's very different in the
18 community versus in the cities and in the
19 academics, but I'll say that in a private practice
20 in the community, I think that it's often the same
21 nephrologist that sees the patient pre- and post-
22 dialysis.

23 MR. MILLER: Okay.

24 DR. SHAH: But, in a major -- major urban

1 environments and in academic centers, it's -- it's
2 quite often that the nephrologist that was caring
3 for the patient pre-dialysis is not the
4 nephrologist caring for them post-dialysis.

5 MR. MILLER: And is that a subspecialty
6 kind of an issue?

7 DR. SHAH: No. It's actually more of a
8 geographic issue. So --

9 MR. MILLER: Okay.

10 DR. SHAH: -- for example, I have patients
11 who come to see me from, you know, probably at
12 least a two-and-a-half-hour radius, and they'll see
13 me for their chronic kidney disease. And they'll
14 drive that distance to do it because that's, you
15 know, what they want. And then when the time comes
16 for them to start dialysis, they'll usually do that
17 more locally to where they live.

18 MR. MILLER: Oh, okay.

19 DR. SHAH: Yeah. I think --

20 MR. MILLER: This is more -- this is more
21 related to the -- the frequency of the interaction.
22 "I'm willing to go three hours to see somebody who
23 I think is really good and trying to help keep me
24 well, but once I'm at the point where I have to get

1 dialysis, it's local, so I got to have somebody
2 local."

3 DR. SHAH: Right. And that's an extreme
4 example, but I can -- you know, even on a smaller
5 scale, I have people who come from one part of the
6 city, to my part of the city, and that may be, at
7 most, a half an hour of travel time, which they're
8 willing to do during CKD. But when it comes to
9 dialysis, then they go to a center that's a block
10 from their house.

11 MR. MILLER: Well, I didn't mean to limit
12 it to the three hours.

13 DR. SHAH: Yes.

14 MR. MILLER: But I'm just saying that
15 people might make -- might make a more extreme --
16 extreme investment of time to be able to come, and
17 do you -- do you think that's -- that is related to
18 the idea that I'm trying -- I know I have it, and
19 I'm trying to prevent it, and I'm seeing the best
20 specialist to do that versus too late now, it's --
21 I'm on dialysis now, I just need to get the
22 treatment?

23 DR. SHAH: Yes. I think that's a, you
24 know, a reasonable way of putting it. I think

1 people want the best care that they can get always.

2 MR. MILLER: Mm-hmm.

3 DR. SHAH: But then when the reality of
4 dialysis sets in and it's three times a week, four
5 hours and there's just major logistical burdens to
6 the therapy that they're going to -- geography
7 trumps everything.

8 MR. MILLER: Okay. So that's very
9 helpful.

10 So, I mean, one can imagine at least three
11 different kinds of -- or four different kinds of
12 paths here. You've got patients seeing
13 nephrologist, same nephrologist before and after;
14 patients seeing nephrologist, different
15 nephrologists before and after; patients seeing
16 non-nephrologist before and nephrologist after;
17 patient seeing nobody before, seeing nephrologist
18 after.

19 DR. SHAH: Correct.

20 MR. MILLER: Okay.

21 DR. CASALE: And sorry to interrupt, but
22 so in that scenario, the education, -- so, I would
23 imagine if you're -- if they're coming to see you,
24 you would be referring them to your CKD classes and

1 management and potentially do the referral for
2 either transplant or graft placement at your
3 institution, so all the prep would be done there?
4 And then if, indeed, they then go into dialysis,
5 then they might end up with a different
6 nephrologist because of geography.

7 DR. SHAH: That's right.

8 DR. CASALE: Yeah.

9 DR. SHAH: Well, and on rare occasions,
10 the patient will choose to get their access placed
11 at a more -- at a local hospital either because of
12 preference for that hospital or, again, geography,
13 or because somebody told them that the surgeon
14 there was good. But we try for the most part to
15 work with surgeons we know.

16 DR. CASALE: Right, right. Yeah.

17 DR. BAILET: So this is Jeff.

18 I'm struck by where we're going, I think,
19 with this conversation relative to the stream. How
20 far upstream will provide or yield the highest
21 savings and higher quality for the patients, given
22 there's so much at risk in these first six months
23 of dialysis? And if you don't have that upstream
24 ability to influence and avoid -- for example, 80

1 percent of the folks have a central venous catheter
2 when they start dialysis, and of course, that sets
3 them up for all kinds of high -- higher challenges
4 with complications and increased mortality.

5 I'm reading this one sentence here from
6 the proposal that says "despite longstanding
7 evidence that the best outcomes in transitioning
8 patients from CKD to ESRD involve early
9 transplantation, avoidance of hemodialysis
10 catheters, and encouraging more home dialysis, care
11 coordination with patient education used with
12 palliative care, et cetera, the barriers continue
13 to exist, given its current state."

14 And so I'm not sure -- and I'd like your
15 opinion, Dr. Shah -- that the model as it's
16 constructed, meaning the guy, the nephrologist with
17 the catcher's mitt, who starts dialysis for these
18 patients, which is the trigger point, all of these
19 interventions get people with AV (arteriovenous)
20 access, et cetera, happens before that -- or should
21 happen before that. But we're talking about a
22 population of 40 percent or greater where that
23 doesn't happen. Is that -- is that right?

24 DR. SHAH: Yeah. I mean, that the 40

1 percent is a -- again, a rough number. I don't
2 have that data [unintelligible] the exact numbers,
3 you know, at my fingertips, but -- but what you
4 said is right. That it is -- you're talking about
5 a model for the catcher, but it -- but the work
6 that needs to be done is upstream of that catcher.

7 MR. MILLER: So, Paul, can I insert a -- a
8 different question that's kind of related to this?

9 DR. CASALE: Of course. Yeah, yeah.

10 There's no -- yeah.

11 MR. MILLER: So one of the issues that we
12 asked about along these lines in the questions that
13 we directed to the applicant was, "Why are you
14 triggering it based on dialysis versus based on --
15 based on GFR?" And I was -- I was, frankly,
16 somewhat surprised at the "You can't rely on the
17 GFR" answer that we got.

18 I mean, you know, obviously, you know, any
19 kind of measure, you know, has its -- has its
20 variabilities and uncertainties associated with it.

21 But along the lines of this conversation,
22 you know, yes, dialysis is a -- is a, you know,
23 pretty well-defined objective, you know, measure,
24 but if what you're really trying to do is to get

1 upstream of that and you actually would like to
2 prevent it, as opposed to simply facilitate
3 transition to it, then you would really want to
4 have some way of trying to trigger earlier.

5 And so I'm interested in your thoughts
6 about this issue of the reliability of the
7 estimated GFR and how -- how fixable that is, if
8 one were to try to define a model around the GFR to
9 say, "Well, yeah, you know, it could be affected by
10 medications, et cetera, et cetera, et cetera, but,
11 you know, we've been -- we nephrologists have been
12 working on this for a long time, and we have a
13 pretty good sense of how to identify when those
14 things occur so that we could pinpoint reasonably
15 accurately for most people when their -- you know,
16 some period of time upstream of really needing
17 dialysis."

18 DR. SHAH: Yeah. So, I mean, I think that
19 it is true that estimated GFR is a -- it's a value
20 that is subject to a lot of sort of gray, because
21 the equations that are used to calculate GFR from
22 creatinine are imperfect, and they are vulnerable
23 to variables that can influence the patient's serum
24 creatinine, so, for example, muscle mass, age,

1 hydration, et cetera.

2 And so, you know, relying heavily on GFR
3 as if it is gospel is a problem because, again,
4 it's imperfect, but at a population level, it is
5 the most commonly measured tool.

6 You know, I'll give you a clinical
7 example. Let's say that you have a patient with a
8 low GFR, meaning that they're -- they have advanced
9 disease, and then they stop eating because they
10 have symptoms of their kidney disease. They've
11 lost their appetite, and now they're going to start
12 to lose weight.

13 MR. MILLER: Mm-hmm.

14 DR. SHAH: As part of that weight loss,
15 they lose muscle mass. When you lose muscle mass,
16 your creatinine goes down, which means your GFR
17 goes up, and so now it's going to look like your
18 kidney disease is not so bad.

19 So GFR is -- you know, you could actually
20 be really sick and have your numbers "get better"
21 because you stopped eating and you're losing muscle
22 mass, and so that's why you don't want to rely
23 exclusively on GFR. And this is where, you know,
24 it kind of takes sort of a --

1 MR. MILLER: So I would think the
2 profession had developed a somewhat more
3 sophisticated predictive model than that, then.

4 DR. SHAH: It's -- but that's -- that
5 predictive model is largely subjective, right,
6 because you're using a subjective determination of
7 what's called clinical uremia to make a decision
8 about whether to start dialysis.

9 So sometimes the timing of dialysis --
10 we're kind of jumping ahead to number 6 here, but
11 basically, the timing of dialysis is driven by a
12 lot of things. It's driven by your style of
13 practice, the patient and the physician's level of
14 comfort with risk, and most important is,
15 subjective determination that it is -- that the
16 person has symptoms driven by their renal disease
17 aka (also known as) clinical uremia.

18 So uremia is a constellation of symptoms
19 basically resulting from the cumulated waste
20 products and toxins, and it's not a yes-or-no, all-
21 or-nothing, black-or-white diagnosis. It can be as
22 subtle as weight loss. It can be fatigue. It can
23 be nausea. It can be a pericardial infusion.

24 And so once it occurs, the only real

1 mechanism for managing it is to start dialysis, and
2 so the determination that uremia is present or not
3 and potentially requires dialysis is really
4 depending on a subjective evaluation and the
5 clinical judgment of the physician.

6 MR. MILLER: Okay.

7 DR. CASALE: Yeah. No, I'm just thinking.
8 I had the same question, Harold. Thanks. Thanks
9 for bringing that up [unintelligible] our
10 discussion.

11 But -- but at least in your description of
12 the -- you know, when you refer to education -- and
13 I know it is, obviously, the clinical judgment, but
14 GFR is certainly part of that. I imagine a
15 significant part of the trigger.

16 DR. SHAH: It is part of it.

17 DR. CASALE: Yeah.

18 DR. SHAH: It is part of it, but you can
19 develop uremia with a GFR of 20. You can --

20 DR. CASALE: Right.

21 DR. SHAH: -- have no uremia with a GFR of
22 7. So you have to temper the GFR with clinical
23 judgment.

24 DR. CASALE: Yeah, sure. Okay. Yeah.

1 MR. MILLER: So you could -- but let me --
2 so what I'm -- what I was sort of pondering here
3 is, again, it's kind of like, you know, the fact
4 that there is some unreliability in the measure
5 because I don't have quite a sort of a
6 quantification of the unreliability measure, but if
7 there is value using the measure, in other words,
8 I'd be happier if I could identify the patients
9 somewhat upstream -- then you would want to
10 potentially say, "Well, even though it's somewhat
11 unreliable, it's better than saying I'm going to
12 wait until dialysis to be able to do anything." So
13 then -- then the further question is that's one
14 thing whenever payment doesn't depend on it. If
15 payment depends on it, then the question is, Do you
16 have gaming or shading of the clinical judgment in
17 a different direction because of that particular
18 thing?

19 So I was trying to think about whether
20 there would be a way to control for that, you know.
21 I mean, you kind of -- I mean, this gets to the
22 whole issue of diagnostic accuracy in medicine as
23 to whether or not you could say, "Okay. We're
24 going to trigger -- trigger this based on the

1 clinician's judgment that the patient is at the
2 following point," to be defined, but somewhere
3 upstream of dialysis, and that there would be some
4 measure of -- of the accuracy of that judgment down
5 -- down the road.

6 They've got something in here, in this
7 model, that's kind of -- because when we asked the
8 question about, well, how do we know that you're
9 not going to just start, you know, sending more
10 patients to dialysis earlier, then all of a sudden,
11 GFR reappears as being the way that they're going
12 to control for that, even though they, you know,
13 said it wasn't reliable before.

14 So I guess part two of the question is,
15 Is there some way to determine or control for the
16 unreliability and the accuracy of the clinical
17 judgment by the progression subsequent to that but
18 doesn't require dialysis to be -- I guess maybe the
19 way to phrase the question is, Is it -- is it then
20 possible to tell somewhere later on, more
21 definitively through some kind of more definitive
22 tests, that the patient is, in fact, at an advanced
23 stage of kidney disease through imaging or other
24 kind of laboratory test?

1 DR. SHAH: I think I understand your
2 question, yeah -- So not -- not in clinical
3 practice right now. So, you know, in terms of
4 other tests to try to define the status of kidney
5 disease, there are novel biomarkers and things that
6 are all in the research phase that will likely come
7 into play years down the road --

8 MR. MILLER: Okay.

9 DR. SHAH: -- but they're not in practice
10 now.

11 But, you know, to answer your other
12 question, you know, how do you -- if GFR is so
13 soft, you know, how do you divorce what you're
14 trying to accomplish from GFR? You know,
15 unfortunately, the thing that jumps to mind is sort
16 of, well, what's the bottom line like, because from
17 what I understand, it's not so much that you care
18 about the GFR and that X happened at X GFR, but
19 what you really care about is whether they started
20 dialysis with a permanent access, whether --

21 MR. MILLER: Right.

22 DR. SHAH: -- attempts were made to
23 transmit. You care about the bottom line, correct?

24 MR. MILLER: Yeah. But if -- the concern

1 on the other side is if you're going to have a
2 payment --

3 DR. SHAH: Yeah.

4 MR. MILLER: -- that somehow, right, is an
5 additional, bigger payment, flexible payment that's
6 triggered by something, then you have -- right now,
7 we have a model where the concern is there would be
8 some unfortunate, you know, perverse incentive to
9 start dialysis on people who didn't really need it
10 because then, all of a sudden, everything else
11 looks good because -- you know, because of that.

12 The converse to that is if you start
13 farther upstream, there would be a tendency to say
14 -- you know, to declare people to be in Stage 4 CKD
15 simply because you made a point of measuring their
16 GFR at the, you know, most favorable time.

17 DR. SHAH: I see.

18 MR. MILLER: I don't think we can resolve
19 that. I just wanted to try to understand more
20 clearly kind of whether there was some other thing
21 that could be -- because if you said, "Well,
22 there's some -- there's a test, it's a definitive
23 test, it's just an expensive test, nobody does it,"
24 then you could say, "Oh, okay." Well, then the

1 solution might be a random sample of patients to
2 get the definitive test to be able to determine,
3 you know, that the clinician is not gaming the
4 system.

5 DR. SHAH: Right. Yeah, not -- not yet.

6 MR. MILLER: Got it. Okay.

7 DR. CASALE: Just to follow up on that,
8 well, could you imagine that you could combine the
9 GFR with a sort of list of clinical -- just the
10 things you said, the clinical judgment, whether
11 it's, you know, uremic symptoms or [unintelligible]
12 status, et cetera, to create a trigger that would
13 be more upstream?

14 I would imagine, as you said, even
15 referral to the education class for dialysis, I
16 mean, that's a big psychological, you know, issue.
17 All of a sudden, you're telling the patient they
18 may need dialysis -- I would imagine, you know,
19 even just the education of it -- I would imagine
20 that that --

21 MR. MILLER: You're saying that the
22 natural resistance of the clinician to tell
23 somebody they --

24 DR. CASALE: Yeah.

1 MR. MILLER: -- had it, if they didn't,
2 might be the control --

3 DR. CASALE: To temper -- temper the
4 unintended consequences of moving upstream and
5 having a fuzzier trigger because, you know, it's
6 not a number or a test.

7 DR. SHAH: Yeah. I mean, I think your
8 concerns are very appropriate and well -- well
9 said. But that said, most of us feel comfortable
10 broaching this subject and moving the education
11 piece along. So that -- that's one of the few
12 things where I think using a hard GFR cutoff might
13 actually help the system overall, because CKD
14 education has been shown to improve outcomes. It's
15 a good thing, and --

16 DR. CASALE: Right.

17 DR. SHAH: -- I understand that it might
18 be a little scary for patients to see that if
19 they're not totally ready for it. But most
20 educational programs are delivered well and
21 delivered in a sensitive way and don't -- you know,
22 can be delivered in a, "Hey, we're not starting
23 dialysis right this second. In fact, it may not be
24 anytime soon, but, you know, here's a lot of --

1 here's how you should understand your kidneys and
2 all these other things." So, you know, it's -- I
3 personally would feel comfortable with a GFR
4 trigger for a CKD education class, and I think we
5 are, you know, indirectly using that in our own
6 practice now.

7 MR. MILLER: But you're saying in that
8 particular situation, even if the GFR is
9 unreliable, the fact that it's even in the range,
10 that would be suggesting that this would be enough
11 to argue that the education class would probably be
12 a desirable thing, right?

13 DR. SHAH: That's exactly right.

14 MR. MILLER: Right.

15 DR. BAILET: This is Jeff.

16 I have a kind of related question relative
17 to vascular access, because that sets patients up
18 for significant complications. What's the -- what
19 is the downside risk if you're establishing
20 vascular access? Because it's a process -- You
21 have to work with the surgical community, et
22 cetera, but if you establish vascular access and it
23 has -- the access has to mature, I get that. But
24 what's the downside risk in getting the access

1 lined up and in place and then finding that
2 potentially dialysis is delayed -- I'm talking
3 months, but it's -- it's delayed. Is there -- is
4 that worse, or does that set the patient up for
5 worse circumstances than actually coming late to
6 the party and putting in the dialysis access after
7 they've started?

8 DR. SHAH: You know, that's an excellent
9 question. That's a question we ask ourselves all
10 the time, and -- and the answer is that for the
11 most part, the most part, there's not a lot of risk
12 to putting the access in upstream. I think that
13 the major considerations are, A, cosmetic, B -- the
14 access, it diverts blood flow in a way that it
15 creates what's called a "shunt," and so when a
16 shunt --

17 DR. BAILET: Right.

18 DR. SHAH: You know, when a shunt occurs,
19 it has the capacity to create additional work for
20 the heart, and so, you know, in -- in some group of
21 patients, depending on the size of the access and
22 the amount of blood flow that goes through it, it
23 can put additional work/tax on the heart and create
24 what's called a "high output state."

1 And so we're always balancing that
2 consideration against the fact that starting
3 dialysis with a catheter is associated with
4 separate and worse outcomes, and so for the most
5 part, even though there is this theoretical risk of
6 additional hemodynamic burden on the heart, it's --
7 it's felt to be largely outweighed by the benefit
8 of not starting dialysis with a catheter.

9 DR. BAILET: Well, and the follow-on
10 question -- again, I'm reaching back to my surgical
11 -- my general surgery training and serving on the
12 vascular services -- Patients need to understand
13 and learn how to support and manage their shunts,
14 their fistulas, and that a lot of times when they
15 get into trouble, it's because they didn't, you
16 know, protect their shunt in the right way or
17 they're not familiar or they crimped it off, and
18 you know --

19 And so there's -- there's that advantage,
20 too, by -- by helping these patients and getting --
21 getting those access -- getting the shunts
22 established earlier, at least I would think. Is
23 that -- is that accurate or not really?

24 DR. SHAH: I think they generally get a

1 robust amount of education about their access at
2 the time it's placed and shortly before in terms of
3 how to take care of it to prevent issues from
4 occurring.

5 I think if the access is placed too early
6 and it's not used, you know, it may require
7 interventions before it's ever used. So, for
8 example --

9 DR. BAILET: Yeah.

10 DR. SHAH: -- you know, if it clots off
11 because it's been in the person's arm for two years
12 before they start dialysis, they may have to go to
13 IR (interventional radiology) and get a
14 fistulogram, get it opened up again, and so there
15 is a risk to putting it in too, too early and a
16 risk to putting it in too, too late.

17 DR. BAILET: Yeah.

18 DR. SHAH: There's a sweet spot.

19 DR. BAILET: Thank you.

20 And, again, I was characterizing it in
21 terms of months, not years.

22 DR. SHAH: Yeah.

23 DR. BAILET: You know, I mean, I would say
24 even six months or six months -- I'm just trying to

1 -- I'm trying to determine in evaluating this model
2 how up -- how upstream should we be as we approach
3 the analysis of this model. How much -- how much
4 upstream should we really be thinking about? And
5 if it's a six-month period or a four-month period,
6 what other kinds of things should this model be
7 considering to incentivize clinicians to jump in
8 and participate earlier, I guess? That's why I was
9 --

10 DR. SHAH: Absolutely. In our practice,
11 we -- we -- generally, you want to give the access
12 at least three months to mature before you use it,
13 and so at a minimum, it needs to be in place three
14 months before dialysis.

15 But assuming that, you know, there are
16 other barriers, there may be some issues and it may
17 require some revision and other things, really six
18 months before starting dialysis is probably more
19 ideal.

20 And so, you know, again, not every patient
21 is the same. Not everyone's trajectory for loss of
22 renal function is the same, but as a rough rule, we
23 make the center of our bell curve for referral for
24 access at a GFR of 20.

1 DR. CASALE: Yeah. So could I just --
2 again, I think maybe you're hearing it from the
3 questions. You know, one of the struggles I have
4 with this is that the model starts [unintelligible]
5 triggered by the first outpatient dialysis, yet
6 what it says its goals are, are to get more people
7 into education, you know, more on to
8 [unintelligible] dialysis, more into transplant,
9 more with a vascular access rather than catheters.
10 And I'm still struggling [unintelligible] this
11 trigger being the first outpatient dialysis is what
12 I'm trying to understand, how you're going to
13 achieve those, you know, sort of [unintelligible]
14 they're all good goals as it relates to end-stage
15 renal disease, but how -- you know, how are you
16 going to achieve that if the trigger is the first
17 outpatient dialysis?

18 And then the -- and before you answer,
19 I'll just -- and I should -- we should have said
20 this at the beginning. So just so you know -- and
21 I don't know if you knew this, but I am a
22 cardiologist. Jeff is an ENT surgeon. Harold is
23 not a physician, but he's like an honorary
24 physician --

1 [Laughter.]

2 DR. CASALE: -- because he talks to
3 physicians all day long.

4 DR. SHAH: Sure.

5 MR. MILLER: I know enough to be
6 dangerous.

7 DR. CASALE: Yeah.

8 DR. BAILET: Yeah. You play one on TV,
9 Harold.

10 DR. SHARTZER: Sorry. Someone joined the
11 call a few minutes ago. Could they please
12 introduce themselves?

13 MR. WALDO: It's Dan Waldo from Actuarial
14 Research Corporation.

15 DR. SHARTZER: Okay, perfect. Thank you.

16 DR. CASALE: Yeah. So, anyways, just
17 about this trigger that at least I'm struggling
18 with, you know -- the first outpatient dialysis.

19 DR. SHAH: You know, I think that your --
20 your question and your point is valid -- is that
21 unless it's the same nephrologist who cares for the
22 patient pre and post --

23 DR. CASALE: Right.

24 DR. SHAH: -- the initiation of dialysis -

1 - that there is a -- there's an issue with this
2 model in the sense that you -- I think the group
3 that you're trying to incentivize to accomplish
4 this list of things that is being incentivized is
5 the pre-dialysis nephrologist.

6 MR. MILLER: It's an interesting question,
7 Paul, and I guess prompted maybe by Dan appearing
8 on the phone was if, in fact, this is supposed to
9 be a model for patients, except for this sort of --
10 you know, this immediate initiation of home
11 dialysis triggering Medicare benefits -- but if
12 this is supposed to be a model for patients who
13 were on Medicare already, we could actually, I
14 think, do a lookback and see how many patients had
15 the same nephrologist or any nephrologist pre- and
16 post-dialysis in the data.

17 And I don't want to delay our discussion
18 with Dr. Shah with that, but I just flag that
19 because --

20 DR. CASALE: Right.

21 MR. MILLER: -- if you -- I have this now
22 sort of four -- four-branch tree in my mind from
23 the earlier discussion, and it's -- it's kind of a
24 relevant question, to Dr. Shah's point a second

1 ago, is, What proportion of the patients do have
2 the same nephrologist pre and post, and, you know,
3 is that one percent, 10 percent, 40 percent, or
4 whatever? We might be able to get at least some
5 look at that.

6 So let's -- we can keep going, but I just
7 flag that, flag that for Adele and for Dan.

8 DR. CASALE: Yeah.

9 DR. BAILET: And since we're flagging --
10 getting -- I'm not harping on the shunt, but what -
11 - what I've taken away from the conversation is,
12 you want to have a mature shunt. You want to get
13 that in six months before dialysis, which is six
14 months before the triggering event. Is that -- is
15 that accurate?

16 DR. SHAH: Yeah. I think that's a
17 reasonable time frame to have a working shunt in
18 place.

19 DR. BAILET: Okay. So if you look at this
20 model on the whole, they're six months late to the
21 party. At least -- at least when they're looking
22 at the triggering event -- that's not to say that
23 they -- they did all that work prior to dialysis.

24 DR. SHAH: Yes and no, because they -- it

1 looks like on the - hold on, I'm going to flip
2 ahead here to -- to page 11, where they have the
3 metrics that they're being judged on. You know,
4 they're not -- in an optimal setting, they want to
5 start Day One of outpatient dialysis with no
6 catheter, and there's points associated with that,
7 but you -- you also have this 90-day and 180-day
8 catheter percentage. So, you know, that part is
9 not them being too late to the game, so to speak,
10 right?

11 So if you -- let's say that you are not
12 going to follow this [unintelligible] for the
13 patient before dialysis, but you meet them on Day
14 One of this model. You still have 90 days to get
15 an access in them that's functional, and this model
16 incentivizes that.

17 You don't get the full points because you
18 don't have any control of what happened on Day One,
19 and you have a fraction of the points available to
20 you, unfortunately a small fraction.

21 So they're part of the way late to the
22 game but not fully late to the game, I guess, is
23 the way to explain it.

24 DR. CASALE: All right. Okay. I guess

1 moving on, you know, as I'm looking down this list
2 of questions, some of them, I'm not really that
3 thrilled with, to be honest with you. The --

4 MR. MILLER: Well, I think we've covered
5 them in a somewhat different way.

6 DR. CASALE: Yeah, I think that's right.

7 I guess I would like your take on the
8 [unintelligible] from this model, and I guess
9 before I have you answer, are you -- is -- is Penn
10 in an ESCO (ESRD Seamless Care Organization)? Are
11 you part of the ESCO care model, the comprehensive
12 ESRD?

13 DR. SHAH: That's a good question. We are
14 not a financial participant in the ESCO, but we do
15 care for patients who are -- who are ESCO patients.
16 So, I don't know if that answers your question. We
17 don't -- we don't have an upside-downside [risk],
18 but we care for those patients. And we are
19 collaborating in a nonfinancial way with LDOs
20 (large dialysis organizations) to try to build the
21 infrastructure to care for these patients better.

22 DR. CASALE: What was that acronym you
23 used? Sorry? The --

24 MR. MILLER: Large dialysis organizations.

1 DR. SHAH: Oh, LDO, large dialysis
2 organizations.

3 DR. CASALE: Oh, yeah, yeah. Okay. I
4 see. So whether it's with DaVita or the other?
5 Oh, I see. Okay.

6 MR. MILLER: Because there's a Delaware
7 Valley ESCO, right? Isn't -- I think, if I
8 remember correctly.

9 DR. SHAH: That's right.

10 MR. MILLER: Yeah, that's the one. Okay.

11 DR. CASALE: Okay. So, you know -- so I
12 only bring that up only because the ESCO is, you
13 know, for a year. So this model says six months,
14 and I'm just wondering what your thought was --

15 MR. MILLER: Well, pause for a second,
16 Paul, before we leave the ESCO thing.

17 So what's -- what's your sense, I mean, in
18 terms of the ESCOs? Are they doing anything along
19 these same lines? Is their thinking there about
20 any upstream activity? Is there advantages or
21 disadvantages to that, in that model? Or if you
22 haven't thought about it, just say, "I really
23 haven't thought about it, and I'm not close enough
24 to know."

1 DR. SHAH: Well, I -- unfortunately, I can
2 say that I've thought about it a lot. I wish I
3 could say I don't know, but, you know, I -- this is
4 an area of deep interest for the health care system
5 because, you know, it falls under the larger
6 umbrella of ACO (accountable care
7 organization)/integrated care/you know, improved
8 resource utilization.

9 MR. MILLER: Mm-hmm.

10 DR. SHAH: So it's something we think
11 about a lot, and, you know, our -- my perspective
12 on the ESCO is that it -- its goals are slightly
13 different than this proposal, right? So the goal
14 of the ESCO is to reduce hospitalization, reduce
15 mortality, and reduce cost for -- for prevalent
16 dialysis patients through enhanced care
17 coordination in the dialysis unit and enhanced
18 focus on high-impact areas like fluid overload,
19 like access, like medications, missed treatments,
20 primary care, et cetera. And so, we are basically
21 trying to build infrastructure at the dialysis unit
22 to take better care of patients and prevent
23 hospitalizations, and we're trying to build better
24 infrastructure in the emergency department to care

1 for patients appropriately and avoid unnecessary
2 admission, if possible.

3 And so, the ESCO has a goal in mind that's
4 different than what this proposal is.

5 MR. MILLER: Well, but if I'm an ESCO and
6 I'm -- my patients are getting catheter-related
7 infections and they're ending up in the ED or the
8 hospital as a result of all that, then I would be
9 concerned about that.

10 And sort of the same concept, if I'm only
11 grabbing the patient after they start dialysis and
12 only then thinking about starting a fistula, I lose
13 some opportunity. Whereas, if I could suddenly go
14 upstream and be able to reduce that, then I would
15 be looking golden in terms of my catheter-related
16 infection, hospitalization rates for my patient
17 population relative to the Medicare benchmarks.

18 DR. SHAH: That's exactly right.

19 So the ESCO would -- would benefit in that
20 way from better upstream care.

21 MR. MILLER: So I'm just wondering -- I
22 mean, is there anything being done there to, in
23 fact, reach upstream and to try to deal with these
24 different branches of entry that we talked about

1 earlier? I mean, because this -- this model is
2 trying to basically get at an issue for
3 nephrologists who aren't in ESCO, who are in small
4 practices, et cetera. I'm just wondering, for
5 heaven's sakes, what -- you know, shouldn't the
6 ESCOs be thinking about the exact same thing and
7 would be able -- theoretically be able to do it
8 with more resources, given their scale?

9 DR. SHAH: I think that's a -- so that's a
10 great question, and I think in some geographies,
11 the ESCOs are reaching further upstream.

12 But the problem there is an issue of
13 territory, really. So when you talk about reaching
14 upstream, you're talking about the time during
15 which the only relationship is the patient and the
16 nephrologist.

17 MR. MILLER: Mm-hmm.

18 DR. SHAH: And ESCO participants can
19 include industry/large dialysis organizations. So
20 if -- if as an ESCO participant, you now have a
21 for-profit dialysis center coming into the
22 patient's care before they're on dialysis, there's
23 a concern there, as you can imagine, right? I
24 mean, you know, do you only let DaVita come into

1 your office, or do you let DaVita and Fresenius
2 come into your office and participate in the -- as
3 ESCO members and participate in the upstream care?

4 And so what we've done at Penn is we've
5 said we need to keep this unbiased to any single
6 industry participant, and therefore, we -- we have
7 enhanced our upstream care of patients because we
8 think it's the right thing to do but not because we
9 have any financial incentive to do it.

10 DR. CASALE: Just to add on to that --
11 and, again, this is my experience here while at
12 Cornell -- we [unintelligible] Rogosin Institute,
13 which is a smaller entity, but they are an ESCO,
14 and they're not part of the -- you know, the for-
15 profits. And what you've just -- what you've
16 described, Harold, is exactly what they are trying
17 to do because they -- they recognize that if they
18 wait until they come in, crash and burn in the
19 hospital, they're very expensive. And now they're
20 in their ESCO. So they are doing a lot of work on
21 just what we've talked about -- education,
22 potential referral to transplant, peritoneal
23 dialysis, all the things in this model.

24 So, you know, there's not as many ESCOs

1 like them, which are a smaller nonprofit ESCO, but
2 -- but in that setting, that is exactly what they
3 do.

4 MR. MILLER: But they would be -- they
5 would be in an environment, back to our sort of
6 East Coast urban-concentrated area, which would be
7 more likely to have easier access to that upstream
8 patient population, potentially, than other parts
9 of the country with independent nephrologists. So
10 I'm saying that and then see if Dr. Shah agrees
11 with that.

12 DR. SHAH: Yeah. I think the other
13 geography and demographics of the area certainly
14 affect the ability to do this.

15 MR. MILLER: Yeah. Okay.

16 DR. CASALE: It does, but they are doing -
17 - I mean, they are doing outreach into the
18 community with their education, et cetera, to --
19 for community nephrologists to refer --

20 MR. MILLER: Oh, yeah. I was just saying
21 I would think it would be easier, potentially,
22 there, given where they're located, than it might
23 be in other parts of the country where you didn't
24 have that level of concentration of kind of

1 resources. That's all I --

2 DR. CASALE: Right.

3 DR. SHAH: I think one point of
4 consideration I would put on your radar, though, is
5 that -- so Rogosin I think is nonprofit.

6 DR. CASALE: Yeah.

7 DR. SHAH: But when you talk about doing
8 outreach and you talk about, you know, enhancing
9 upstream infrastructure and processes, the biggest
10 issue there, is ownership of the process and
11 ownership, to some extent, of the patients, right?

12 So, you know, we can have a University of
13 Pennsylvania CKD education program. There could be
14 a DaVita CKD education program. There could be a
15 Fresenius CKD education program, and I think that,
16 you know, we've tried very hard to avoid letting
17 branded products like that enter in the upstream
18 phase because there's -- it adds bias into the
19 equation, right? To some extent, it's advertising
20 a certain company to the patient, which we've never
21 felt comfortable with. We've tried to keep things
22 as unbiased as possible for the patient's sake.

23 But, when you talk about reaching primary
24 care providers to do education and outreach and you

1 talk about, you know, whatever CKD education has
2 been done in the renal clinic, per se, I think that
3 it's definitely valuable, and it should be
4 incentivized, but who should be incentivized is the
5 big question. You know, who has the ownership?

6 DR. BAILET: This is Jeff.

7 I have a -- I have a question about home
8 dialysis.

9 DR. SHAH: Sure.

10 DR. BAILET: Because that doesn't happen
11 in Fresenius, and that doesn't happen in DaVita
12 centers. How -- how does home dialysis or how do
13 you see potentially home dialysis fitting into
14 this, this model, or is it -- you know, or does it
15 at all?

16 DR. SHAH: Good question. So home
17 dialysis -- first, to correct something that was
18 said, so home dialysis does occur with the dialysis
19 organizations. So DaVita has a home program,
20 Fresenius has a home program, and they have small
21 sub-clinics within their clinics that they operate
22 out of.

23 So like there might be a traditional in-
24 center hemodialysis clinic that has an area where

1 they host their home program, and that's where
2 patients come to work with their [unintelligible]
3 to get monthly evaluations in labs, and supplies
4 and other things.

5 And so home is something that -- the
6 majority of home dialysis is actually run in
7 participation with one of these large dialysis
8 organizations.

9 In terms of -- in terms of how to
10 incentivize home, I think that it can be
11 incentivized on both sides of the dialysis coin, so
12 to speak. So you could -- you could incentivize
13 those taking care of CKD patients based on the
14 number of their patients that start on home therapy
15 or go on to home therapy, and then you can also
16 evaluate post-dialysis, how many patients are
17 transitioned from in center to a home modality.

18 DR. BAILET: Okay. Thank you.

19 DR. SHAH: Sure.

20 DR. CASALE: So, while we're still on sort
21 of this topic of the ESCO and then this model and -
22 - you know, when we asked the submitters, you know,
23 sort of -- you know, at least one of those
24 [unintelligible], well, couldn't you just sort of

1 tweak the ESCO or -- you know, what's the issue
2 with the ESCO as compared to their model? And the
3 things they identify was minimum of 350 dialysis
4 patients needed. You have to participate in a
5 single dialysis organization and geographic size
6 limitations, but I'm just wondering -- In your --
7 as you think through what you've read in their
8 model and your knowledge and experience
9 peripherally with the ESCO, is there potential to,
10 as opposed to creating a new model, somehow -- and,
11 again, this is just your opinion -- or sort of
12 revising the ESCO that could incorporate some of
13 this that would allow more nephrologists to
14 participate?

15 DR. SHAH: Yeah, that's an excellent
16 question. That thought crossed my mind as well
17 because there is substantial overlap between the --
18 I guess the mission of these two --

19 DR. CASALE: Right.

20 DR. SHAH: Right? And so it's -- the
21 major difference as I can tell is really the time
22 frame that's being targeted. That's really the big
23 difference. This model is trying to control cost
24 in the first six months, and the ESCO is trying to

1 control cost for all prevalent patients. And so
2 the place for intervention to control cost in the
3 first six months is what we've been talking about
4 this whole time, which is pre-dialysis.

5 And so I guess the difference between
6 these two things, ESCO and this proposal, are the
7 time frame being targeted and the participants
8 being targeted, because if it's a different
9 nephrologist pre-dialysis, then it's a different --
10 that's a different person who's at risk and
11 involved in the model.

12 DR. CASALE: Okay. All right. So it
13 sounds like -- I mean, from that -- what you're
14 thinking, it's not that different. I mean, again,
15 you could tweak it in terms of inclusion or
16 exclusion. That would allow more nephrologists,
17 potentially to participate, although recognizing
18 these time differences and --

19 MR. MILLER: Well, part of the issue is
20 it's the nature of the cost risk that's attached to
21 it, right? CMS (Centers for Medicare and Medicaid
22 Services) has been trying to define all of its
23 models as total cost-of-care models, so you have to
24 have some minimum scale of patients to be able to

1 do something like that.

2 So if you wanted to go to smaller
3 populations with small nephrology practices, you'd
4 just have to have some stricter limits in terms of
5 exactly what costs they were accountable for or
6 limits on how much of the costs they were
7 accountable for. I mean, that would be, to me, a
8 way if you wanted to extend the concept and say
9 let's let smaller entities be able to do that.

10 I mean, that's essentially what they're
11 doing here, is they're saying, "We're a small
12 entity. We want to take accountability for a piece
13 of the cost with certain kind of limits around
14 that," you know, and that's just their way of
15 making that -- making that jump between 350 to
16 smaller and how to have the cost risk be more
17 manageable -- I mean, it seems to me.

18 But you could potentially say they could
19 do more than six months or they could do whatever.
20 You'd still be -- you'd still have to have some
21 kind of limits on what the nature of the
22 accountability was.

23 DR. CASALE: Yeah. Okay.

24 Before I move to another question, any

1 other -- either Jeff or Harold, any other questions
2 particularly around this topic?

3 DR. BAILET: I'm good, Paul.

4 DR. CASALE: Okay.

5 MR. MILLER: Well, let me just ask again
6 for Dr. Shah, just -- maybe just one sort of wrap-
7 up question on that.

8 So, I mean, this does get at an issue that
9 comes up constantly about what is the nature of the
10 accountability that physicians of any particular
11 specialty can take with respect to patients and
12 their total costs, and, you know, oncologists in
13 the oncology care model are being expected to be
14 accountable for total costs. ESCO is accountable
15 for total costs. Nephrologists here are clearly
16 focusing on a narrower set of that.

17 Would you -- would you say -- to what
18 extent do you think nephrologists think of
19 themselves or want to think of themselves as the
20 total patient care managers during dialysis versus
21 the physicians who are managing the dialysis, but
22 other doctors are going to continue to manage the
23 patients' other conditions? And I have heard kind
24 of differing opinions about that from nephrologists

1 -- so, I'd be interested in your thoughts about
2 that.

3 DR. SHAH: So just to clarify, we're
4 talking about patients already on dialysis?

5 MR. MILLER: Yes, correct. Mm-hmm.

6 DR. SHAH: I think, you know, we've
7 discussed this a bit internally in our group as
8 well. I think that just given the realities of how
9 care is delivered for dialysis patients and what's
10 required to do a good job with just the dialysis
11 aspect of their care, I would say that most
12 nephrologists, at least that I work with and that I
13 know, they -- they are not prepared to be the
14 primary care physician for the patients based on
15 the time allotted for the activity and even the way
16 that -- [unintelligible] you know, care is
17 delivered in the dialysis unit.

18 So, you know, in terms of taking care of
19 all of their other issues, per se, I don't -- I
20 don't know that that's feasible in this current
21 model.

22 MR. MILLER: Mm-hmm. And, particularly,
23 if patients were traveling to a dialysis center --
24 might be even harder to do that? I mean, the sense

1 is that they're going to have other conditions to
2 manage, and if they could be managed by a primary
3 care physician closer to home, that would be better
4 than having somebody who may be at a more distant,
5 whatever it is, a half an hour or otherwise,
6 dialysis center trying to be responsible for their
7 care.

8 DR. SHAH: I mean, I think there is
9 potential for that depending on the geography.

10 I think in most circumstances, it's
11 flipped in that the dialysis center is closer to
12 their home than anybody else because of how
13 frequently they have to go there.

14 MR. MILLER: Mm-hmm. Okay. Okay.

15 DR. CASALE: Great. Thanks.

16 I was going to then turn to the quality
17 measures -- that I know you referenced a little bit
18 earlier. I just wondered what your thoughts were
19 around the ones they've proposed and the relative
20 weights. Any reaction to that list, in general?

21 DR. SHAH: I did look these over, and, you
22 know, for the most part, I think that they -- the
23 metrics, they seem like clinically relevant and
24 important metrics to choose, but in terms of the

1 relative weighting and the way points are
2 distributed, that part is -- you know, I'm a little
3 more uncertain about because some of these things
4 could be out of the physician's control and I
5 guess, How does this reward system or risk system
6 correct for that?

7 So, for example, under advanced care
8 planning -- advanced care planning, I think, is a
9 good thing for all patients, not just renal
10 patients, but many of our patients refuse to do it.
11 They refuse to have these conversations, you know,
12 regardless of how that opportunity is delivered to
13 them, and so, you know, to have a zero- or 15-point
14 option in Year Two, is -- it seems a little
15 aggressive to me if it's out of your control.

16 DR. CASALE: Right.

17 DR. SHAH: And, I would say that that same
18 concern exists for any of the other metrics, where
19 it may be out of your control. So I wonder if the
20 reward or risk system can be tempered by whether,
21 you know, attempts were made and can be verified
22 and if the patient refuses, in some way, that's --
23 you know, the physician is not necessarily
24 penalized for that.

1 You know, coming to the second one, where
2 it talks about catheter rate, right? Even there,
3 there is a subpopulation of patients that, A,
4 refuse to have a permanent access placed or, B, are
5 told by surgeons that they do not have access
6 options because they don't have suitable anatomy.
7 And so it's not a lot of patients, but it is
8 certainly some patients.

9 And you know, if you're going to -- if
10 you're going to start listing specific percentages
11 for these different things, I think that, you know,
12 some correction has to be made for those events as
13 well.

14 DR. CASALE: Mm-hmm.

15 DR. SHAH: You know -- I didn't really
16 have an issue, I think, with the metrics. I think
17 it was really the percentages, the points, and the
18 weighting that could be tempered, I guess, by, you
19 know, variables that are outside the physician's
20 control.

21 MR. MILLER: Well, let me -- let me turn
22 the question around a little bit, and it kind of
23 gets at the question 10 we had on the list, but --
24 so if the nephrologist is responsible in some

1 fashion or potentially can benefit from reducing
2 spending during this six-month period, what kind of
3 things could they potentially stint on for a
4 patient during that period of time that would make
5 the spending look lower but might be harmful to the
6 patient in the longer run?

7 DR. SHAH: Let's see. So, here's a tough
8 question to answer, you know, how can the system,
9 you know, be sort of, [unintelligible] you know,
10 taken advantage of, and I guess --

11 MR. MILLER: Because then I want to go
12 back and say if there are such things, then is
13 there -- should there be a quality measure attached
14 to any of those things, but go ahead.

15 DR. SHAH: Well, you know, so let's just
16 start at the beginning right with advanced care
17 planning.

18 You know, they make mention many times
19 throughout this proposal of how it somehow
20 incentivizes palliative care when appropriate,
21 okay? I guess I don't understand how. So how --
22 financially, where is that? How does that appear
23 in these metrics?

24 But, you know, outside of this proposal, I

1 do have the concern that, you know, patients who
2 are -- who may be seen as ill, have many
3 comorbidities, are frail, and could potentially
4 have increased hospitalizations and costs attached
5 to that, you know, you wonder whether they would be
6 more pushed towards palliative care, and whether
7 that's appropriate, or not, is a question to ask.

8 But there's one point where, you know,
9 some evaluation needs to be made of who's getting
10 recommended for palliative care and why and when.

11 MR. MILLER: Mm-hmm.

12 DR. SHAH: Okay. Similarly for vascular
13 access, you know, the second that you have this
14 fistula-first kind of initiative and you say we
15 want more permanent accesses in people -- well, you
16 know, a blunt way to respond to that by physicians
17 in the community would be to try to push everyone
18 to get this type of access.

19 And for sure, for the majority of
20 patients, it will be appropriate, but for some
21 patients, it will not be appropriate, right? So if
22 the life expectancy is, you know, less than two
23 years and they're elderly and the perioperative
24 risk is high, you know, there is a subset of

1 patients for whom a catheter may -- may, in fact,
2 be appropriate, and this is a controversial area.
3 So, I don't have a -- I can't plant my flag one way
4 or the other on this subject, but I can tell you
5 that if you're incentivizing this behavior, the
6 behavior will happen more, and the question is
7 whether everyone who gets a permanent access should
8 have a permanent access.

9 MR. MILLER: Well, let me ask you, maybe,
10 the kind of flip of that, though. So if I've got a
11 patient who is starting dialysis, there's been no
12 upstream activity, so they don't have a fistula, so
13 they're going to start on the catheter -- and I
14 actually refer them for a fistula, there's going to
15 be a vascular surgery charge associated with that.
16 And, doing that for the first six months to have it
17 mature, if I'm correct -- correct me if I'm wrong --
18 - the patient would still be getting dialysis
19 through a catheter, right? Not through the
20 fistula.

21 DR. SHAH: That's right, although the six-
22 month span, you know, that's not exactly correct.

23 So, for example, in an ideal world, you'd
24 have a working access ready anywhere up to six

1 months ahead of needing dialysis, but in terms of
2 how long it takes to be usable once it's placed, it
3 could be anywhere from six weeks to three months,
4 and so --

5 MR. MILLER: Okay.

6 DR. SHAH: -- the fistula might be ready to
7 use as early as six weeks, and a graft -- a graft
8 could be ready to use as early as two days.

9 MR. MILLER: Okay. Well, because what I
10 was trying to play through here was if you -- if
11 you initiate the process of the fistula after the
12 patient starts on dialysis and you might argue that
13 the benefits of that will be realized over a longer
14 period of time, but the costs of it would be
15 incurred in a short period of time, is the six-
16 month episode limit on this, does it create some
17 bias towards some subset of patients that you would
18 say, "I'm going to spend a bunch of money on them
19 to get the fistula, but I'm not going to reap
20 equivalent benefits in terms of their potential
21 infections through the catheter?" And I'm not sure
22 if there's -- if -- you know, I mean, this is kind
23 of "Which things could you predict as a
24 nephrologist?" But could you -- could somebody

1 say, "I figured these patients really are low risk,
2 low risk of infection through the catheter, at
3 least in the course of six months, and I'd be
4 better off not doing a fistula for them because it
5 will impact my short-run costs."

6 DR. SHAH: Ah, that's interesting. I
7 never thought about that.

8 MR. MILLER: Because you're not -- that's
9 because you're not used to gaming payment models.

10 DR. SHAH: We don't have the time for
11 that.

12 [Laughter.]

13 DR. SHAH: We're busy seeing patients.

14 MR. MILLER: Well, these things don't
15 exist, but, I mean, anytime you put an arbitrary
16 limit on something, like at six months, right, then
17 there becomes potential incentive to shift people,
18 you know, before or after the border of that. So
19 that's what I'm just trying to play through here is
20 -- Is there any kind of, you know, perverse
21 incentive that gets created by the structure of
22 this model to do something less for somebody
23 because it would raise your short-term -- short-
24 term costs?

1 DR. SHAH: That's possible.

2 So, for example, you know, there's
3 something called the primary patency rate. So that
4 means how likely is the access to be patent and
5 working -- open and working.

6 MR. MILLER: Mm-hmm.

7 DR. SHAH: Right? And so if somebody is a
8 poor vascular access candidate, but you still want
9 to push them through to attempt it because of, you
10 know, you're -- either because you believe that
11 it's good to have a permanent access or because
12 there are some metrics you're trying to achieve --

13 MR. MILLER: Oh, interesting.

14 DR. SHAH: -- but, you know, you have
15 concerns about their likelihood of primary patency.
16 That could, you know, influence --

17 MR. MILLER: So you would be less likely
18 to take -- to pursue it for the patients who would
19 be -- have a higher failure rate because that would
20 be basically a cost with no benefit?

21 DR. SHAH: Or -- yeah. Or -- or it could
22 incur additional cost because it requires --

23 MR. MILLER: You have to keep reopening
24 it, et cetera.

1 DR. SHAH: Yeah.

2 MR. MILLER: Yeah.

3 DR. SHAH: Yeah.

4 MR. MILLER: Okay. So what would be --

5 can you think about is there any way -- just to
6 take that example, is there any way that one could
7 put a control in for that?

8 DR. SHAH: Let's see. So --

9 MR. MILLER: So they've got a measure in
10 here, and they've got catheter percentages, but
11 that's kind of my point, is that you'd -- you'd
12 have a fistula rate.

13 DR. SHAH: You know, it's hard -- and I
14 don't know if it would be possible to do this, but
15 if there was a way to incentivize the rate of
16 primary patency, you know, that -- that's -- that's
17 really what you're trying to accomplish with the
18 patient, right? You don't just want them to have --
19 - you don't want them to undergo a surgery for the
20 surgery's sake. You want them to get an access
21 that's actually going to be usable, and so a usable
22 access has a meaningful primary and secondary
23 patency rate.

24 MR. MILLER: Yeah, but I thought from what

1 we were just talking about earlier that if I
2 thought that the patient was going to have more
3 difficulty getting that, then that would -- the
4 payment model would discourage that, and if I would
5 add a measure for that, then I would be further
6 disinclined to try to develop it on a patient who -
7 -

8 DR. SHAH: I see. I see.

9 MR. MILLER: Right?

10 DR. SHAH: Yeah, I'm not sure how you can
11 predict which patients will succeed and won't
12 succeed with the surgery. The surgeon probably has
13 a good sense for that when they look at the vein
14 mapping.

15 MR. MILLER: Mm-hmm.

16 DR. SHAH: But I don't know that the
17 dialysis --

18 MR. MILLER: So who -- what would be the
19 characteristics of the patients that you would not
20 ever want to pursue a fistula for? A patient has
21 already started on dialysis. They've come in the
22 door, right? There's been no upstream. They
23 started on dialysis. What patients -- under what
24 criteria would you say it makes no sense to be -- I

1 mean, regardless of financial incentives, it makes
2 no sense to even try to start a fistula with this
3 patient?

4 DR. SHAH: I guess the two criteria that
5 come to mind would be short overall survival, short
6 expected survival -- let's say less than two years
7 -- and the other one would be high operative risk.

8 DR. BAILET: Yep. This is Jeff.

9 So, Harold, I think where you're going is
10 you could control for those two.

11 MR. MILLER: Well, the problem with the
12 short expected life is that's like predicting
13 hospice, you know.

14 DR. BAILET: Well, I guess I'll turn it
15 around. There are surgical referrals that are
16 made, [unintelligible] Dr. Shah, where the surgeon
17 says -- you know, "evaluated the patient and
18 they're not a candidate."

19 MR. MILLER: Mm-hmm.

20 DR. BAILET: Right?

21 MR. MILLER: Mm-hmm.

22 DR. SHAH: That's right.

23 MR. MILLER: So you could --

24 DR. BAILET: So I --

1 MR. MILLER: So you could say there ought
2 to be at least a referral and evaluation of them --

3 DR. BAILET: Right, exactly.

4 MR. MILLER: -- as opposed to not having
5 it done at all and not knowing whether it was even
6 evaluated. That's an -- that's an interesting
7 point. Yep. I mean, you could certainly have the
8 surgeon and the nephrologist in cahoots with each
9 other, but it would certainly control -- control --
10 control that if you said that there needed to be a
11 referral in a surgical evaluation.

12 DR. SHAH: Yeah. Again, not every surgeon
13 is going to think about longevity in their equation
14 for whether to do the surgery or not, so, you know
15 --

16 MR. MILLER: Yeah.

17 DR. SHAH: This is ultimately a hard thing
18 to control for, and I guess I don't want to -- I
19 want to make sure that as a nephrologist that I'm
20 still championing the right mission here, which is
21 that for the majority of people, a permanent access
22 is a good thing, and we should champion it.

23 You know, in terms of how one might game
24 the system is a different question, but I think

1 that overall, it is good to champion permanent
2 access.

3 MR. MILLER: Well, right. What I -- the
4 thing I was really most focusing on was this --
5 this six-month accountability for spending, and I
6 was just trying to identify what things one might
7 stint on. So that's -- that's kind of what I was
8 getting at, so -- and we talked about -- we talked
9 about the vascular surgery. Are there any other
10 things that you can think about that one might
11 stint on?

12 DR. SHAH: You know, there's a lot of talk
13 in this about transplant as well, right? And so --

14 MR. MILLER: Well, they've exempted
15 themselves from any transplant costs, so there --
16 there's -- and they actually get a reward for doing
17 that. It's kind of a double reward in the sense
18 that they get a bonus for doing a transplant, and
19 they're not accountable, responsible for the
20 transplant costs.

21 DR. CASALE: Which is going to be one of
22 my questions, if you had any thoughts around that
23 transplant bonus of \$3,000?

24 DR. SHAH: You know, it has the

1 theoretical risk of, again, stimulating people to
2 push people down the transplant pathway that they
3 might not have.

4 And, you know, the infrastructure for
5 evaluation for transplant is pretty robust, so I
6 don't -- I don't know that you could force things
7 through just because you were incentivized to do
8 so. I mean, organs are obviously very limited --

9 MR. MILLER: Mm-hmm.

10 DR. SHAH: -- and the process is overseen
11 by UNOS (United Network for Organ Sharing) and by
12 the institution pretty closely. So I don't know
13 that the system can be gamed in the transplant.

14 MR. MILLER: So that's a case where there
15 would still be -- there would be some external
16 party that would be pushing back on that, right?

17 DR. SHAH: Yes.

18 MR. MILLER: Yeah.

19 DR. SHAH: But I will say this. You know,
20 somebody -- somehow -- you know, when this exempts
21 the cost of transplant, I'm not sure -- what I'm
22 not sure of is how that integrates to this model
23 because right now the evaluation for transplants,
24 whether that involves, you know, an echocardiogram

1 or it involves a pulmonary evaluation or laboratory
2 testing, you know, that -- how that is paid for is
3 uncertain to me, and I think that --

4 MR. MILLER: Okay. Well, thank you for
5 raising that, right? That's an example. So there
6 would be costs associated with the transplant
7 referral.

8 DR. CASALE: Yeah, that's a great point.
9 I mean, because as a -- I remember always doing
10 these stress echoes yearly to keep people on the
11 transplant list or whatever. I mean, there are
12 some ongoing costs related to that.

13 DR. SHAH: So I can tell you at our
14 institution, right, there's a -- there's a
15 professional fund that derives from our institution
16 that covers the cost of this testing and the -- and
17 the clinical visits that are associated with this
18 testing. And ultimately, I think the institution is
19 only reimbursed for any of this activity if the
20 person actually gets transplants, and then they get
21 some lump sum. And that goes into this pot from
22 which subsequent testing occurs for other patients.

23 And, you know, I had -- you know, I think
24 it's a whole separate conversation to think about

1 the economics of all of this and how it will be
2 influenced by this, but it -- it needs to be
3 thought about.

4 MR. MILLER: Well, so an interesting
5 question, Paul, is that they refer to excluding
6 Medicare costs. All kidney transplant-related
7 services would also be excluded. So that question
8 of, sort of what's included in that, and then I
9 guess the other thing I would ask is, So are there
10 things that one might otherwise have to spend money
11 on that one would declare to be a kidney
12 transplant-related service simply because you said
13 I'm referring patients for kidney transplant?

14 DR. CASALE: Right, right. And they can
15 stay on the list for quite a while. Yeah, yeah.

16 MR. MILLER: So what -- just to stay on
17 that point for a second. So what kinds -- patient
18 starts dialysis first six months. What kinds of
19 testing, imaging, et cetera, would the patient get
20 during that period of time if they're getting good
21 care?

22 DR. SHAH: And we're not talking about
23 transplant. You're just talking about --

24 MR. MILLER: No, I'm just talking about --

1 forget transplant for a second. Plain old patient
2 on dialysis, you know, just getting dialysis. What
3 kinds of testing, imaging, et cetera, expenses
4 would good care argue that they should get in that
5 first six months?

6 DR. SHAH: There will be an abundance of
7 lab testing that's connected to dialysis and all
8 the biochemical parameters that dialysis
9 [unintelligible]. So, you know, much of that is
10 bundled into the reimbursement for dialysis already
11 through Medicare, but lab testing is number 1
12 through 10, and then separate from that would be --
13 separate from that would really be testing that is
14 clinically indicated for some other reason.

15 You know, we don't -- we don't do --
16 usually, I think a chest x-ray and an EKG
17 (electrocardiogram) are considered standard at the
18 beginning of dialysis, and then after that, the
19 only other testing that's done is indicated by some
20 issue.

21 So, for example, if you're having poor
22 function of your fistula, you might have to get a
23 fistulogram interventional radiology. If you're
24 having poor function of a catheter, you might have

1 to get your catheter exchanged. If you have
2 shortness of breath that's mysterious in any way,
3 you might require chest imaging, but again, that
4 wouldn't be the standard for everybody.

5 So I think, at minimum, it's labs, chest
6 x-ray, EKG, and then everything else is driven on a
7 need basis.

8 MR. MILLER: Mm-hmm. Is there a set of
9 nephrology standards anywhere, kind of written
10 standards, here is what defines good care during
11 the first six months of dialysis?

12 DR. SHAH: I don't know that there's
13 something about the first six months.

14 MR. MILLER: Well, it doesn't have to be.
15 I'm trying to say -- I mean, you might say, "You
16 know, down -- once patients get more progressive,
17 it's hard to define exactly what they need." I'm
18 just sort of wondering if there's sort of a
19 standard of care that potentially, if there were
20 such a thing, one could argue that there is at
21 least a process measure attached to this that says
22 that, in fact, the nephrologist should document
23 that they followed the standards of care or
24 document why they had deviated from it, rather than

1 leave it completely open the way it is.

2 DR. SHAH: I mean, yeah, there are a
3 number of different standards that we report on in
4 an aggregated fashion in each unit, and that --
5 that is all connected to basically what's called
6 QIP (Quality Improvement Program), which is how
7 Medicare --

8 MR. MILLER: Oh, yeah. Okay, right.

9 DR. SHAH: Yeah. So that's how Medicare
10 determines how much to reimburse the dialysis unit
11 for its care, and that's driven in part by clinical
12 quality measures that include adequacy of dialysis,
13 you know, post-weight above target weight, and in
14 the past, it had included other lab values like
15 phosphate and PCH (paroxysmal cold hemoglobinuria)
16 and hemoglobin and albumin and other things. But
17 each year, it -- each year, those metrics, those
18 clinical quality metrics get modified a little bit
19 by Medicare.

20 MR. MILLER: Okay. So there's the
21 potential, given that they're just -- they're just
22 sort of P4P (pay-for-performance) kinds of metrics
23 that one could decide that some of the more
24 expensive parts of that, if one was incented on

1 expenses, might -- I might go short on them because
2 I'm saving more than I'm being penalized,
3 potentially, through the metrics -- possibly.

4 DR. SHAH: I think there are clinical
5 quality metrics yet to examine --

6 MR. MILLER: Yeah. But we ought to -- we
7 ought to look at that and just see whether there's
8 some way to kind of build -- build what is good
9 care in here besides just to focus on catheters and
10 transplants.

11 DR. SHAH: So --

12 DR. BAILET: Harold, this is Jeff.

13 So when I look at their -- the statistics
14 in their report, 56- to \$65,000 are spent the first
15 six months, and they're saying around average of
16 \$15,000 per month. When you think about some of
17 these testings that are transplant-related and that
18 they're not assuming responsibility for, I think in
19 the grand scheme of things, if you get up on the
20 balcony and look at the proposal, the kinds of
21 things that they're looking at -- readmission
22 rates, hospitalizations, and other -- you know,
23 other catheter-related complications, that's
24 probably driving the majority of this 56- to

1 \$65,000 in the first six months.

2 But I guess I would ask Dr. Shah. Is that
3 accurate, or do you really think that those
4 transplant-related tests are material compared to
5 that figure?

6 DR. SHAH: That's a good question.

7 You know, I think in most cases, not a --
8 a substantial portion of the transplant workup is
9 not really done in the first six months because a
10 patient is, for lack of a better term, settling
11 down into dialysis first. And they have a lot of
12 optimization that needs to occur before they can be
13 meaningfully evaluated for transplant.

14 And so, you know, it -- the first six
15 months of dialysis are -- are often characterized
16 by trying to identify the correct dry weight and
17 various issues with fluid, fluid status up and
18 down, and access-related care, and cost is
19 certainly a part of that, you know, part of the
20 first six months as well.

21 So I would say between -- between fluid
22 management and optimization in that realm and
23 access optimization and hospitalizations that might
24 be connected to either of those two things, that's

1 the majority of where big cost comes from the first
2 six months.

3 DR. BAILLET: So if you play that through,
4 then, their model -- I mean, they're focused on --
5 at least from a cost perspective, they're focused
6 on the right things.

7 DR. SHAH: I think so.

8 DR. BAILLET: Harold, Paul, do you guys
9 have a feeling about that?

10 MR. MILLER: Well, I guess the -- the
11 question -- and I think maybe this is, again, a
12 data question that we should explore -- is these
13 patients, as we often say with Medicare patients,
14 probably don't just have one thing wrong with them.
15 So what's driving their expenses during that period
16 of time isn't just their kidney disease, and we
17 don't know exactly what that breakdown is right
18 now. So it's something that we ought to explore.

19 Just so I get, again, a sense of order of
20 magnitude -- so, roughly, what proportion of
21 patients who get a kidney transplant are already on
22 dialysis?

23 DR. SHAH: I think that the majority of
24 patients get transplanted after they're on

1 dialysis.

2 MR. MILLER: So when you say majority, do
3 you mean vast majority? In other words, not 55
4 percent, but more like 80 or 90 percent?

5 DR. SHAH: Yes.

6 MR. MILLER: Okay.

7 DR. SHAH: I think that it's a small
8 population that gets the preemptive transplant.

9 MR. MILLER: Okay. All right. That's
10 kind of what I assumed. I just wanted to make
11 sure.

12 So you're basically saying that it would
13 be -- most of them would be after dialysis starts,
14 and you would say it's probably after six months
15 has already passed.

16 DR. SHAH: That's right.

17 MR. MILLER: Okay. So just to follow up,
18 then, on that point, so if -- if these guys are in
19 this model are suddenly eligible for transplant
20 bonuses and things like that, are they -- are they
21 screwing up the dialysis process for the patient by
22 trying to jump the gun on that prematurely?

23 DR. SHAH: I don't think so. I don't
24 think the transplant -- the mechanism for

1 transplant in this country is -- would really let
2 that happen. I don't think you can, "push" a
3 transplant through inappropriately or prematurely
4 just because of disincentive. Like there's too
5 many other stakeholders involved.

6 MR. MILLER: Well, I didn't mean -- right.
7 I didn't actually mean getting the transplant. I
8 meant, though, if they're starting to get testing,
9 et cetera, is the testing ordinarily done by the
10 transplant center who says, "No, we're not ready to
11 do that for this patient yet," or is the
12 nephrologist referring for a whole bunch of tests
13 to try to sort of speed up the process and
14 essentially forcing the patient to be getting a
15 bunch of things earlier than they should whenever
16 they're just starting dialysis?

17 DR. SHAH: I see. Yeah. No, the testing
18 is driven pretty much exclusively by the transplant
19 center --

20 MR. MILLER: Okay.

21 DR. SHAH: -- not the nephrologist.

22 MR. MILLER: Okay. So it's not a "Please
23 run all the following tests and then send the
24 patient to us." It's a "Send the patient to us,

1 and then we'll determine what they should get."

2 DR. SHAH: Yes.

3 MR. MILLER: Okay. All right.

4 DR. BAILET: Harold?

5 DR. CASALE: And just so I understand it,
6 from a renal point of view, having the -- it's
7 actually a good thing, right, if they had the
8 transplant, theoretically, before they started
9 dialysis? I mean, that is -- is that preferable if
10 everything was in place? Is that true?

11 DR. SHAH: That is true, yes.

12 MR. MILLER: Yeah.

13 DR. SHAH: The best outcomes occur --

14 DR. CASALE: Yeah.

15 DR. SHAH: -- with preemptive transplant.

16 DR. CASALE: Okay.

17 MR. MILLER: I was more -- I was trying to
18 tie that to our earlier discussion, is if nobody is
19 really involved early on, right, you know, then
20 they end up going on dialysis, and then they end up
21 being on dialysis for six months, and then is when
22 something would happen.

23 It would be desirable to get something to
24 happen earlier, but that comes back to somebody has

1 to be doing something way upstream.

2 DR. CASALE: Exactly. Right.

3 So I know -- I'm looking at the time. I
4 know we only have a couple of minutes. So I did
5 want to just -- back on the quality measures, I
6 just wanted your opinion. When I look at them,
7 there's a little bit around patient experience,
8 but, you know, more around all those fistula and
9 catheters, and the patient experience -- the part
10 is 10 points, is this patient-centeredness thing,
11 but I'm just wondering if you had thoughts in terms
12 of the balance between the sort of patient
13 experience measures versus the -- you know, the
14 access and utilization measures, et cetera.

15 DR. SHAH: You know, that's also a good
16 question. I mean, I think that it's important to
17 keep the patient in mind and, frankly, at the
18 center, and we definitely -- I think we all want
19 the patient experience to be as excellent as it
20 possibly can be, but I think that the patient's
21 evaluation of their experience [unintelligible]
22 highly subjective, and it is -- can be influenced
23 by things that are, again, not under the control of
24 the nephrologist and not really being objectively

1 evaluated.

2 MR. MILLER: And they have -- they have no
3 basis of comparison, right? I mean, dialysis is
4 going to be a miserable experience for them, and
5 they're not going to be happy about it, no matter
6 what.

7 DR. SHAH: That is often the case.

8 MR. MILLER: Mm-hmm.

9 DR. SHAH: Yes. And so -- and that -- and
10 that manifests itself in -- in reporting that we
11 already see because we -- you know, we already
12 collect some data in terms of satisfaction and
13 quality of life and things.

14 And so, you know, when you attach points
15 to it like this -- about variables that you care
16 about, but you don't have the ability to fully
17 control or impact, it's -- I'm not sure what it's
18 meant to incentivize in the provider.

19 MR. MILLER: So if you were to pick a --
20 what would be the right measure, would it be
21 something like a rating of access to the physician,
22 you know, responsiveness to calls or problems as
23 opposed to just experience?

24 DR. SHAH: I think that when we -- the

1 current patient satisfaction tools that we use
2 already break that down into those -- those types
3 of things and other things, so yes. You know,
4 responsiveness of physicians, how much does my
5 doctor care about me, and how much does the staff
6 care about me? How comfortable is the physical
7 environment, you know, how -- how much pain do I
8 experience when the needles are put in? -- And so
9 on -- it asks a lot of, I think, reasonable
10 questions. But what is hard about this, is the
11 subjective nature of the response.

12 DR. CASALE: Mm-hmm. Okay.

13 DR. BAILET: Dr. Shah? Dr. Shah, this is
14 Jeff. I want to thank you for your incredible
15 insights and input here to help us sharpen our
16 thinking on this proposal. I've got to hop
17 [unintelligible] the top of the hour.

18 DR. CASALE: Yeah, yeah. Right.

19 DR. BAILET: So, again, appreciate --
20 appreciate this conversation. I found it
21 incredibly helpful. Thank you, everybody.

22 DR. SHAH: It's my pleasure.

23 DR. CASALE: Yeah. Yes, Dr. Shah. I
24 would just add my thanks as well. Yeah, this has

1 been a very helpful 90 minutes, so thank you for
2 all of your insights.

3 MR. MILLER: Yes. And Harold just says
4 ditto. Excellent.

5 DR. CASALE: Thank you.

6 DR. SHAH: Yes.

7 MR. MILLER: Thanks very much.

8 DR. BAILET: Thank you, guys.

9 DR. CASALE: All righty. Have a good day.
10 Thank you, everybody.

11 [Whereupon, at 12:03 p.m., the conference call
12 concluded.]

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