

The American Academy of Neurology (AAN) Patient-Centered Headache Care Payment (PCHCP) Model

Purpose:

The purpose of the environmental scan research task is to provide current contextual information to the Physician-Focused Payment Model Technical Advisory Committee (PTAC) related to the proposed model. This includes information about the submitting organization, the clinical condition or type of care addressed in the proposal, the relevant policy environment, the literature supporting or otherwise reflecting the potential implementation and impact of the proposed model, and the relevance of the population, condition, and proposed model to Medicare.

Methods

The Environmental Scan Research Task includes a search of grey literature, key documents, timely reports, peer-reviewed literature, and other related materials from targeted online and database (e.g. Pubmed) searches. Search terms included multiple Boolean (and/or/not) combinations of the following:

- Alternative Payment Models (APMs)
- American Academy of Neurology (AAN)
- Centers for Medicare & Medicaid Services (CMS), Medicare
- Center for Medicare & Medicaid Innovation (CMMI)
- Cost of care
- Headache
- Headache care
- Headache care team
- Headache treatment
- Health Care Innovation Award (HCIA)
- Integrated care
- Integrated headache care
- MACRA (Medicare Access and CHIP Reauthorization Act of 2015)
- Multidisciplinary treatment
- Neurologist
- Older Adults, Elder, Elderly
- Patient-centered headache care
- Patient-centered headache care payment (PCHCP)
- Reimbursement
- Telemedicine

Submitting Organization

The American Academy of Neurology (AAN) is the leading professional organization for neurologists, representing a 32,000+ worldwide membership. Neurologists treat about one-fifth of all migraine headaches, the most common headache disorder, whereas approximately one-half are treated by primary care clinicians who may then refer severe or complicated cases of migraines or other headaches to neurologists (Lipton, Stewart & Diamond, 2001).

The AAN developed the Axon Registry, which is approved by the CMS (Centers for Medicare & Medicaid Services) as a qualified clinical data registry (QCDR) under the MACRA/MIPS (Medicare Access and CHIP Reauthorization Act of 2015/Merit-Based Incentive Payment System) program. Its use also qualifies providers with self-assessment CME (Continuing Medical Education) credits. According to the September 2017 monthly registry update, the registry includes 169 practices and 1094 providers, of which 793 have data, for a total of 821,000 patients and 2,275,000 visits. The registry is currently integrated with 33 different EHR (electronic health records) systems.

The AAN has developed a 2014 headache measure set that is available for use by any physician treating headaches, but it has yet to be tested and evaluated. The headache measures fall into the following categories: (1) Process measures include appropriate medication use and overuse measures, (2) outcome measures include quality of life and functional status measures, and (3) patient engagement and care coordination measures are a single measure related to the development or review of a care plan.

Background

Headaches

Headaches are among the most prevalent of neurologic disorders and symptoms in general adult practice. In the United States, migraines affect over 29 million individuals with a prevalence of about 18 percent in women and 6 percent in men (Lipton et al. 2001). According to the National Hospital Ambulatory Medical Care survey, head pain was the fifth leading reason for ED (emergency department) visits. In one report, the estimates of health expenditures alone (without including the lost productivity) totaled over 10 billion dollars, with the vast majority of costs due to outpatient care and medication prescriptions. Despite the high cost estimates, headaches remain vastly under-diagnosed and under-treated and result in significant functional disability and poor quality of life. Another report indicated that the cost of lost productivity may be double the health care costs.

Headaches in Older Adults

Although headaches become less common with age, headache symptoms are also less likely to be part of a primary headache disorder in the elderly compared to younger adults. Accordingly, headaches in older adults are more likely to result from temporal cell arteritis, medication overuse, or a brain lesion compared to younger adults. Headache disorders can often present with atypical symptoms in the elderly. Newly onset headaches or a change in headache pattern in older adults is particularly worrisome—thus accurate assessment and diagnosis are especially important in older adults (Hershey & Bednarczyk, 2013).

Headache Treatment

A multidisciplinary approach, such as creating a headache care team (as described in the proposal), has been shown to be effective in the care of patients with headache disorders. Up to 50 percent reduction in headache frequency has been demonstrated, although younger age was a predictor of benefit in one of the studies (Gaul, Liesering-Latta, Schäfer, Fritsche, & Holle, 2016; Gaul, Brömstrup, Fritsche, Diener, & Katsarava, 2011; Wallasch & Kropp, 2012; & Diener, Solbach, Holle, & Gaul, 2015). Telemedicine, as proposed in the model, has also been shown to be effective in the care of headaches (Müller, Alstadhaug, & Bekkelund, 2017).

The Use of Opioids

Opioids are commonly used in the acute management of headaches. Young, Silverman, Bradford, and Finklestein noted in their study of 1222 consecutive ED visits for migraines that more than one-third resulted in an opioid prescription (2017). However, there was great variation by type of facility, as community EDs gave opioids for migraines in 69 percent of visits, much more frequently than in the academic medical center. In the study, use of opioids was associated with increased length of stay, greater need for rescue medications, and repeat visits.

Summary of PCHCP Model

The proposed PCHCP model responds to two specific challenges in the current care of adults with headaches: (1) The lack of reimbursement for the intensive and extensive assessment needed to take an adequate history to accurately diagnose the cause of headache symptoms, (2) and the inability to effectively triage and coordinate care for patients with headaches among care settings for those who need urgent acute care, acute and chronic primary care management, and specialist care for more severe or complex headache conditions. As a result, many patients receive acute, uncoordinated care, such as through emergency department visits with unsatisfactory outcomes regarding pain control and impact on functioning.

The proposed model would replace current evaluation and management (E&M) payments with a flexible payment model to enable physicians to tailor the delivery of services to patients according to the severity of their headache illness rather than a more generic approach. The model includes time for a more extensive initial assessment of the patient (which can take up to 90 minutes) to increase diagnostic accuracy and promote the successful triage of patients from primary care providers to more specialized services. In addition, willing practices could accept larger bundled payments, initially or over time, which would link payment to performance for all other headache-related services that patients with headaches receive.

Model participants would form headache care teams comprised of a primary care provider (PCP), a headache specialist and/or neurologist, an ED, and as indicated by the patient's comorbidities, additional health care team members (i.e., physical therapist, mental health care provider, or pharmacist). Medicare patients who list headache as the primary reason for a visit would be eligible for inclusion in the model.

Outcomes and quality metrics used to evaluate the model include utilization and cost measures (avoidance of imaging, costs of headache-related medications, and rates of ED visits and hospitalizations) as well as care quality and outcome measures (frequency, severity, and disability related to headaches, medications for acute pain, overuse of barbiturates and/or opioids, quality of life, patient satisfaction with provider, and preventive screening for alcohol use and depression). Some of these quality measures overlap or are identical with the quality measures used in the AAN measure set. There are currently 10 AAN guidelines related to headache management for specific care practices (such as, for example, Botulinum neurotoxin for headache treatment and the use of electroencephalogram in the evaluation of headaches) rather than to overall care and assessment as described in the proposed model.

Other Models

The Health Care Innovation Award (HCIA) model for chronic pain management by the Mountain Area Health Education Center (MAHEC) developed a multidisciplinary team-based approach to the care of patients who have chronic pain and use opioids. This care model includes behavioral health providers and other clinicians as part of the care team to manage pain and to wean patients off opioids when possible. Although headache patients or neurologists are not excluded explicitly, the ICD-9 codes used to describe eligibility for the model does not include the specific ICD-9 codes for different types of chronic headache syndromes. Thus far, qualitative results from the MAHEC model suggest improvements in patient quality of life and disease management, which was partially attributed to the use of protocols to

reduce opioid use and addiction. Quantitatively, there were no definitive changes—increases or decreases—in the utilization of services or total cost of care as a result of the model.

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PHYSICIAN-FOCUSED PAYMENT MODEL
TECHNICAL ADVISORY COMMITTEE (PTAC)

PRELIMINARY REVIEW TEAM (PRT)

CONFERENCE CALL
WITH CLINICAL EXPERT
REGARDING
THE AMERICAN ACADEMY OF NEUROLOGY (AAN)
PROPOSAL

Friday, January 26, 2018

11:00 a.m.

PRESENT:

ROBERT BERENSON, MD, PTAC Committee Member
RHONDA M. MEDOWS, MD, PTAC Committee Member
KAVITA PATEL, MD, MSHS, PTAC Committee Member

LOK WONG SAMSON, PhD, Office of the Assistant Secretary for
Planning and Evaluation (ASPE)

ANJALI JAIN, MD, Social & Scientific Systems, Inc. (SSS)

MICHAEL RUBENSTEIN, MD, Associate Professor of Clinical
Neurology, University of Pennsylvania Perelman School of
Medicine; Attending Physician-Neurology, Children's
Hospital of Philadelphia

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

2 [11:07 a.m.]

3 DR. RUBENSTEIN: Hello.

4 DR. SAMSON: Hello. This is Lok Wong
5 Samson from ASPE (Office of the Assistant Secretary
6 for Planning and Evaluation). Sorry for the delay
7 in initiating the call.

8 DR. RUBENSTEIN: Oh, not a problem.

9 DR. SAMSON: Who's on the line?

10 DR. RUBENSTEIN: This is Mike Rubenstein.

11 DR. SAMSON: Hello, Dr. Rubenstein.

12 DR. PATEL: Kavita Patel.

13 DR. BERENSON: I think you should probably
14 do a roster call rather than us all speaking up,
15 and ask who's available, who's on.

16 DR. SAMSON: Okay. I heard Dr.
17 Rubenstein, Kavita Patel, Bob Berenson. Is Rhonda
18 Medows on the line?

19 DR. MEDOWS: Yes.

20 DR. SAMSON: And this is Lok Wong Samson.
21 Is anyone else on the line? Is Mary Ellen on the
22 line?

23 [No response.]

24 DR. SAMSON: Anjali Jain?

1 DR. JAIN: I'm here. Hi, Lok.

2 DR. SAMSON: Hi.

3 Okay. I think we could get started, then.
4 I'll hand it back over to you, Bob, for the
5 discussion.

6 DR. BERENSON: Okay. I'll start. I'm all
7 congested, so I'm hoping other people carry the
8 ball more than me. I'm Bob Berenson.

9 Dr. Rubenstein, thank you very much for
10 doing this. You haven't done one of these before,
11 have you?

12 DR. RUBENSTEIN: No, I have not.

13 DR. BERENSON: Do you have any questions
14 about the process, you know, just the rules and
15 what this is all about? Should we go over some of
16 that, if there's any uncertainty?

17 DR. RUBENSTEIN: I mean, I kind of have a
18 pretty good feel. I mean, we'll see how much we
19 can get done. I mean, I think I'm -- my feel is
20 that I'm kind of at your disposal to answer
21 questions as well as to give you perhaps a little
22 bit of my input from a perspective of a private
23 previous -- previous employment as a private-
24 practice neurologist and now academic neurologist.

1 DR. BERENSON: That is right. I just want
2 you to understand that we are transcribing this,
3 and it will be part of the public record.

4 DR. RUBENSTEIN: Okay.

5 DR. BERENSON: So we all are careful about
6 the words we use. So, this is a public discussion,
7 essentially, even though we're among friends.

8 DR. RUBENSTEIN: Okay. Yes.

9 DR. BERENSON: And I guess the other thing
10 I would want to emphasize now, have you received
11 and been able to read their proposal, as well as
12 their responses to the questions we posed to them?

13 DR. RUBENSTEIN: Yes. I've read -- I've
14 read -- gone through the proposal as well as both
15 of the documents regarding the responses, as well
16 as additional documentation, Table 1, and also the
17 Cleveland Clinic intake information.

18 DR. BERENSON: Okay. Well, then you've
19 got -- you've got what we had.

20 Now, we had a phone call with the -- with
21 the proposers earlier this week, on Wednesday, I
22 guess it was. And there is a chance that they --
23 based on the discussion, they will consider
24 revising and resubmitting. That's not by any means

1 a commitment that they were willing to make on the
2 phone, but they might be thinking about it because
3 there was something of a disconnect.

4 And, indeed, I'll try to explain that, and
5 then maybe my colleagues on the call can clarify if
6 I don't get this quite right, but --

7 DR. RUBENSTEIN: Just so I'm clear, the
8 submitters are the AAN (American Academy of
9 Neurology)?

10 DR. BERENSON: The AAN, yes.

11 DR. RUBENSTEIN: Okay.

12 DR. BERENSON: And, I'm blanking on the
13 physician. What's the name of the physician from
14 Rhode Island, who was the main speaker?

15 DR. SAMSON: Oh, that was Dr. Joel
16 Kaufman.

17 DR. BERENSON: Joel Kaufman. I don't
18 know. Do you know him at all -- personally?

19 DR. RUBENSTEIN: I do not, no.

20 DR. BERENSON: Okay. This was the AAN,
21 but we've learned there was a committee that had
22 some internal disagreements in the proposal,
23 reflected a decision, and in fact, here's what I
24 was going to say, is it seems to me -- and we

1 haven't -- the three members of our PRT
2 (Preliminary Review Team) actually haven't
3 debriefed with each other yet as to whether what
4 I'm about to say is correct -- that the letter we
5 received actually isn't relevant to clarify
6 anything.

7 And here's the point I want to try to
8 make. As I understood it, they are very much
9 committed to the appendix that lists the ICD-10
10 (10th Revision of the International Classification
11 of Diseases) diagnoses for which they want the
12 payment model to apply to. [There] are really
13 various variations of migraine and cluster
14 headaches, and even though the response letter
15 talked about all the challenges and diagnosis for
16 other conditions that present often in a senior
17 population -- this is, after all, a Medicare
18 proposal -- the payment model would not apply to
19 making those diagnoses.

20 So, for example, if in fact after an
21 evaluation, they determine that the headaches were
22 from cervical arthritis, or from temporal
23 arteritis, or perhaps from depression, and another
24 physician in a different specialty was ultimately

1 going to be the sensible physician for that doc,
2 that wouldn't be part of his payment model at all.
3 It really is about managing, even less than
4 diagnosing, and more about managing a migraine and
5 its cousins.

6 Kavita or Rhonda, do you agree with how
7 I've characterized that?

8 DR. PATEL: Yeah, Bob. This is Kavita.
9 That's how I interpreted it as well.

10 DR. BERENSON: So, even though the
11 response -- so some of us, when we read the initial
12 proposal, we're saying -- I mean, that's why we had
13 some questions that were related to well, how much
14 is an issue of which diagnosis --

15 DR. RUBENSTEIN: Right.

16 DR. BERENSON: -- of migraine in a
17 Medicare population, and even in management. And
18 the response said, "Oh, no, there's all these other
19 conditions." In fact, there are not all these
20 other conditions. There's really management of
21 migraine, so that was the point I wanted to make,
22 and let's just let you talk a little bit about what
23 your reaction was.

24 DR. RUBENSTEIN: Well, yeah. So, the very

1 first note that I had written on my sheet of
2 comments was that the Appendix B had very limited
3 diagnoses that I think would -- if you're speaking
4 about primarily the Medicare population, though we
5 certainly treat many, many Medicare patients who
6 have migraine headache, it is tremendously skewed
7 against migraine headache in that population age.

8 So, you know, the migraine -- the migraine
9 headaches that we're typically treating are going
10 to be in a much younger population, in fact, even a
11 pediatric population. Whereas when you get into the
12 Medicare population, that percentage drops
13 dramatically when you look at the entirety of
14 headaches. So, in other words, the incidence of
15 migraine is still there, but the other headaches
16 play a much larger role.

17 And, in fact, you think about other than
18 cluster headaches, you think about the other
19 primary headache syndromes that we see, like
20 hemicrania continua and paroxysmal hemicrania and
21 hypnic headaches and tension headaches and
22 cervicogenic headaches, and they begin to occupy a
23 much greater percentage of the population over --
24 when you're dealing with Medicare.

1 DR. BERENSON: Okay. So that sort of
2 confirms what we were thinking. Is it that
3 migraine -- the natural course of migraine is it
4 becomes less of a problem, or is it that people are
5 under the reasonable management and have their
6 migraine under control, or some combination?

7 DR. RUBENSTEIN: It's the combination of
8 those things, I think. So, first off, migraine is
9 a childhood diagnosis, and so --

10 DR. BERENSON: Right.

11 DR. RUBENSTEIN: -- when we see a headache
12 patient, we consider migraine onset typically to be
13 in childhood and adolescence and early adulthood.
14 Migraine doesn't begin at age 40 or 50.

15 When we see a patient, even if it sounds
16 like classic migraine, over the age of 40, that's
17 considered to be a red flag, requiring a different
18 management than you do for a patient who's younger.
19 Unless, of course, a patient comes in who has a
20 really good history and says, you know, "I've had
21 these headaches since I was a kid. I've never seen
22 anybody for them before. They've never changed.
23 They're exactly the same," and you're making the
24 brand-new diagnosis of migraine in a patient who's

1 50 but has had migraines for 35 years.

2 But for the most part, if you're seeing a
3 new patient with new onset headache in the older
4 population -- and when I say older, that could be
5 over the age of 40 or 50 -- we begin to see the
6 types of headaches change dramatically at onset,
7 and so you're dealing much more with -- you know --
8 when we talk about the demographics, that older age
9 group is going to be presenting with different
10 headaches, the primary headache syndromes other
11 than migraine, cluster -- including cluster
12 headaches, and then secondary headaches. So, we
13 begin to worry about patients who have a headache
14 from mass lesions or a headache from --

15 DR. BERENSON: Mm-hmm, mm-hmm.

16 DR. RUBENSTEIN: -- temporal arteritis or
17 headaches associated with other systemic diseases.

18 DR. BERENSON: Okay. So that's very
19 helpful. So if you had to choose, if it were
20 mutually exclusive, either a payment model that
21 supported more accurate diagnosis of seniors who
22 present with difficult-to-diagnose headaches or a
23 payment model that was focused on managing
24 migraine, which would you opt for?

1 DR. RUBENSTEIN: Oh, I would opt for the
2 former.

3 DR. BERENSON: Yes.

4 DR. RUBENSTEIN: I would think that trying
5 to put together this type of a program -- because
6 what you're looking at, I mean, if you look at it
7 that somebody would take the initiative to put
8 together a comprehensive headache program,
9 essentially which is what this is, where you would
10 have other personnel that you would be supporting
11 with the payments through this type of a payment
12 program, you would need to include other headache
13 types. Otherwise you would end up, in some way,
14 trying to treat the patients who had other types of
15 headaches and didn't have migraines with the same
16 kind of protocol, and you would be -- wouldn't be
17 reimbursed for it.

18 DR. BERENSON: Yeah. So they -- I mean,
19 on that specific question, the response basically
20 was, well, that will be done through the
21 traditional fee schedule. The diagnoses of all
22 these other conditions, if they don't fall into
23 that list of ICD-10 codes, we're not asking for
24 support for that. We want to manage migraine

1 better or migraine and cluster better. Is there
2 even a need for this whole team to manage migraine,
3 a nutritionist and an advanced practice nurse?
4 And, I mean, it seems like overkill for managing
5 migraine, and yet no way -- specifically excluding
6 the difficulties of the diagnosis.

7 DR. RUBENSTEIN: Well, you know -- it's
8 putting me in a bit of an awkward position because
9 I would agree with you 100 percent that -- that I
10 kind of was wondering -- The only thing that I
11 could guess was that the AAN's proposal was to try
12 to create a model utilizing Medicare, perhaps, but
13 then that the other payers would then follow --

14 DR. BERENSON: Yeah.

15 DR. RUBENSTEIN: -- and that being a
16 strategy. But then, it seemed to me that that would
17 have to be something that would be acknowledged on
18 the front end --

19 DR. BERENSON: Yeah.

20 DR. RUBENSTEIN: -- to make sure that
21 people understood that that was the purpose.
22 Because I would agree with you a hundred percent
23 that looking at this, you know, when I think -- and
24 I -- so I've been in practice for 30 years. I

1 don't have a headache fellowship training, but I'm
2 kind of like the de facto headache person here at
3 Penn, and [I] treat a tremendous number of
4 headaches. Both in children, because I'm also on
5 faculty at CHOP (Children's Hospital of
6 Philadelphia) -- and so I treat kids, and I treat,
7 you know, adults, and I treat [the] geriatric
8 population.

9 And, in the geriatric population, though I
10 have a huge number of patients with migraine, to be
11 honest with you, the elderly patients with
12 migraines, with a migraine diagnosis, and that is
13 what you're treating -- in other words, patients
14 could have a migraine diagnosis, and they could
15 also have medication overuse headaches and other
16 headaches too. But when you're dealing with a
17 patient with just migraines in the elderly
18 population, those tend to be the easier patients to
19 treat.

20 DR. BERENSON: Yeah, yeah.

21 So, I'm going to finish and then turn it
22 over to my colleagues, but the final point I'd make
23 is that the only logic I could figure out here --
24 and reading between the lines of some of what they

1 wrote -- was that there's not enough neurologists
2 really to do an adequate job with difficult-to-
3 diagnose headaches.

4 So if, in fact, we offloaded from the
5 physician some of the management of the migraine to
6 advanced practice nurses and other members of the
7 team, that would free up some more time for the
8 neurologist, him- or herself, to spend time on
9 those other patients who are difficult to diagnose.
10 That's the only logic I could figure out here.
11 They didn't say it that way.

12 DR. RUBENSTEIN: I would agree. So I
13 would agree with that, but what it ends up being is
14 that those are the easier patients we tend to
15 treat.

16 DR. BERENSON: Right.

17 DR. RUBENSTEIN: It still falls short kind
18 of in what your goal is. And that is -- and so, as
19 a model -- as a model of a headache clinic, this is
20 a wonderful proposal, if it was not just for
21 Medicare patients and not just for those diagnoses.

22 This is essentially how I would recommend.
23 I use a nurse practitioner that I work with
24 together. She and I both see patients together, and

1 what I do is when I'm seeing a new patient who has
2 headache and I want to then -- and the patient now
3 is easier to manage, she typically follows those
4 patients for me, and I don't see those patients
5 again.

6 DR. BERENSON: Mm-hmm, mm-hmm.

7 DR. RUBENSTEIN: And the patients are
8 happy, and they're well controlled, and we do all
9 that together. And so we already kind of have a
10 little bit of that. We don't have the other
11 support, like social services or physical therapy,
12 or we don't have a coordinator, we don't have an
13 intake manager. Those are the things that would be
14 wonderful to have, and as a general principle and
15 looking at it as a large-scale program, this is
16 wonderful.

17 But, I think limiting it, it really -- it
18 really kind of like handcuffs you, and it would end
19 up being that the patients that you would want to
20 use this for, which were the patients that were
21 more difficult, perhaps non-migraine patients,
22 don't fall under this program.

23 DR. BERENSON: Okay. So let me turn it
24 over to Rhonda. Do you have questions for the

1 doctor, for the good doctor?

2 DR. MEDOWS: I think both of you did a
3 great job of clarifying and answering 95 percent of
4 my questions, just in the first few minutes of the
5 conversation. So, thank you for doing that.

6 I do have one other question, and that is
7 about what exactly is a headache specialist? Is it
8 limited to a subset of neurologists? Is there an
9 actual official specialty?

10 DR. RUBENSTEIN: Yes.

11 DR. MEDOWS: And is it limited to
12 neurologists or the internist? Is it pain -- what
13 is that?

14 DR. RUBENSTEIN: So, in my world,
15 headaches -- there are fellowships in headache, and
16 so just as a neurologist can do a full residency
17 and then go on and do a headache fellowship. I
18 believe those fellowships are also open to
19 internists, so somebody could do a medicine --
20 somebody could do a medicine residency, internal
21 medicine, and then could also probably do a
22 headache fellowship.

23 And so, a headache specialist is what we
24 -- When somebody says that, we consider that to be

1 a fellowship-trained individual who has done extra
2 training beyond the normal -- the normal training
3 for neurology.

4 And then there are those of us who are
5 kind of grandfathered in to some degree. So, when
6 I trained 30 years ago, there really were very few
7 headache fellowships. There were some, and I
8 probably could have done one. So there are people
9 like me who treat lots of headaches, who are not
10 necessarily fellowship-trained.

11 And so I think in limiting it to saying it
12 would have to be a fellowship-trained person that
13 would probably be narrowing the people that do it.
14 I think mostly a headache specialist is somebody
15 who feels comfortable in treating headaches and has
16 experience.

17 You know, obviously, people can call
18 themselves whatever they want to call themselves,
19 and so you would hope that that wouldn't happen,
20 and -- but it does. I mean, there are people that
21 just call themselves specialists, and hopefully
22 those things kind of come out in the wash, that
23 those people don't end up being able to practice
24 very long if they're not very good at what they do.

1 But I think limiting it beyond that is
2 kind of tough.

3 DR. MEDOWS: No, it just sounds like the
4 whole proposal is getting narrower and narrower. A
5 small segment of the Medicare population would be
6 impacted, right? Most would either [sic] be
7 diagnosed already. Anyone that would be newly
8 diagnosed would have had a longer history. That
9 would be more consistent with migraine, cluster, et
10 cetera.

11 Then we'd have a smaller subset of
12 neurologists, internists who may meet the criteria
13 of whatever the applicant is calling a headache
14 specialist. It's just like it's getting a tinier
15 and tinier proposal with each passing minute. Am I
16 --

17 DR. RUBENSTEIN: Yeah. I mean, I think --
18 I think -- no, I think -- I think that, like, you
19 know, I've said before that I think the diagnosis
20 of migraine -- the way I look at how this would
21 work, you know, would be if you had some intake
22 form, and on the intake form, there was something
23 when it was reviewed, it would be said that, "Okay,
24 this person probably has migraine, and so we'll go

1 ahead and bring this person in under this kind of
2 program."

3 If the person on the intake form didn't
4 have migraine based on the questionnaires that they
5 had, then you would kind of bring the person into
6 the headache clinic, but it would be on a fee-for-
7 service basis.

8 I mean, ultimately, I could see myself --
9 I, like I said, I tend to be the de facto headache
10 person here at Penn. We do not have a headache
11 clinic at the University of Pennsylvania.

12 We do have a fellowship-trained headache
13 person who practices in the community, but is not
14 part of the faculty at Penn from a standpoint of
15 practicing at the hospital.

16 We don't have an organized clinic. I
17 would love to have that type of thing, and we've
18 looked at recruiting people. So we actually have
19 somebody that we're recruiting to do that.

20 But I would agree with you that -- I'm not
21 sure that the headache specialist part of it
22 necessarily limits it because I don't think they
23 defined who a headache specialist was, per se, so
24 they -- other than somebody, again, having

1 experience in treating headache.

2 DR. MEDOWS: Okay. And I also just want
3 to wrap up and say I appreciate the comment in
4 pointing out that this would be [an] even more
5 valuable model if it was extended into the
6 commercial or -- and/or Medicaid space, right, for
7 -- to, in fact, a younger population as well.

8 DR. RUBENSTEIN: Absolutely.

9 DR. MEDOWS: Thank you.

10 DR. RUBENSTEIN: Yep.

11 DR. MEDOWS: Thank you for your input. I
12 mean, this has been great.

13 DR. BERENSON: Thank you, Rhonda.

14 I just wanted to just follow up on one
15 question Rhonda asked and then turn it to Kavita.

16 At the University of Pennsylvania, do they
17 try to channel the patients to the headache person,
18 or do most of the neurologists also manage headache
19 patients competently?

20 DR. RUBENSTEIN: No. So we -- so the way
21 it -- the way we work here at Penn from an academic
22 standpoint is we have -- we have multiple specialty
23 -- subspecialty groups. So we have neuromuscular,
24 multiple sclerosis, movement disorder, epilepsy,

1 and those are all subspecialty groups where
2 patients are kind of triaged that go to those
3 places.

4 And then we have a general neurology
5 division, and I'm one of the members of the general
6 neurology division. So our headaches fall under
7 the general neurology division, and so if a patient
8 calls and has a headache, they're going to get
9 referred into the general neurology division.

10 Currently, there's several of us that see
11 headaches that have indicated that we're happy to
12 see headaches. I like to see headache patients. I
13 feel like I do a good job with headache patients,
14 whereas several of my colleagues who are in the
15 general division prefer not to see headaches. And
16 so we kind of have just done it that way. And so
17 those patients get sent into us.

18 Now, places like Thomas Jefferson
19 University, which has one of the primary headache
20 centers in the country, which is Steve Silberstein,
21 who used to be [at] the Germantown Headache Clinic
22 and is now [at] the Jefferson Headache Clinic, they
23 have a freestanding headache clinic with a headache
24 fellowship. It's a very well-known, prominent

1 headache center. It's in Philadelphia here.

2 I see a lot of patients that have been
3 seen there that come to see me who -- for whatever
4 reason, they work on a -- pretty much on a private
5 pay basis, I believe, and they have -- it's
6 multidisciplinary, so they have -- they do neuro-
7 psych testing, they have psychologists, they have
8 nurses, they have all those things, similar to what
9 this model is. But they work on a private pay basis
10 there.

11 DR. BERENSON: Okay. Kavita?

12 [No response.]

13 DR. BERENSON: Kavita?

14 [No response.]

15 DR. BERENSON: We've lost her, I guess, or
16 she's a long way from her mute button, one or the
17 other.

18 Let me just follow up, then, with one or
19 two more that I was then going to ask. Which is,
20 they sort of argued very early in their proposal
21 that for purposes of adequately diagnosing
22 complicated headaches or -- I guess their language
23 was complex undiagnosed headaches -- the Medicare
24 fee schedule is inadequate. It doesn't pay for --

1 enough for -- or have codes that are appropriate.
2 What's your sense of the adequacy of the fee
3 schedule for the time you spend with patients
4 taking history, doing physicals, and diagnosing
5 their problem?

6 DR. RUBENSTEIN: Well, I mean, partially.
7 I would say that -- okay, first, I work now -- I'm
8 now in academics. I've been at Penn for four
9 years.

10 DR. BERENSON: Okay.

11 DR. RUBENSTEIN: I was previously the
12 managing partner of a large -- large neurology
13 group. We had up to eight individuals and, I
14 think, six when I left, and I was the managing
15 partner for 24 years of a private practice. That
16 practice was pretty high-level. We were in the
17 Philadelphia area.

18 You know, here, I spend an hour -- I have
19 an hour to see a new patient, and I feel that
20 that's an adequate amount of time for me to see a
21 new patient. I feel that for -- that the
22 reimbursements are -- I don't have a difficult time
23 doing what I do with the reimbursements from a
24 relative standpoint.

1 So I think what you missed, though, is you
2 missed what they're getting at here, which is that
3 the difficulty is that -- is not having the
4 availability of the intake forms. I don't use
5 intake forms. I have kind of a standard -- you
6 know, so nobody has filled anything out before they
7 come to see me. I take all the history when I'm
8 there, and what happens is that allows you to have
9 an intake person who can screen people, make sure
10 they're appropriate, and make sure we have the
11 appropriate information, the right records. The
12 patient then is seen by me or by the neurologist
13 who then gathers the data and comes up with the
14 game plan and makes the diagnosis.

15 It would be wonderful to have the
16 availability of having a support person after they
17 saw me, where the patient could sit, could go over
18 the -- could go over everything again.

19 I think that if you look at the big
20 picture, being able to do that -- and this would be
21 including the Medicare population -- being able to
22 do that would increase the likelihood of success in
23 treating patients. So, many patients come back for
24 a second visit and just need to understand all of

1 the instructions, even though we perhaps wrote them
2 down. So reinforcing them would be helpful, having
3 somebody to perhaps call and check on patients to
4 see how they're doing after the visit and whether
5 they're following through with the plans that were
6 developed, and then also having additional support
7 staff.

8 You know, a nutritionist, so-so. Physical
9 therapist could be helpful perhaps. I think those
10 things would work, so that would be -- that would
11 be the benefit.

12 So I can provide the care that I'm
13 currently providing with the current -- with the
14 current payment model, but what I can't do is I
15 can't have all the supportive staff that are
16 mentioned in this proposal.

17 DR. BERENSON: Yeah, yeah. So one
18 approach to that then would be, as some of my non-
19 PTAC work is involved with, is valuing evaluation
20 or management services higher and reducing the
21 payments from procedures and test interpretations
22 in the --

23 DR. RUBENSTEIN: Yeah. Well, as a
24 neurologist, that's music to my ears.

1 DR. BERENSON: Yeah. So, basically, I
2 mean, if you had 25 percent or 40 percent more
3 payment in your E&M (evaluation and management),
4 you could then support --

5 DR. RUBENSTEIN: Yeah.

6 DR. BERENSON: -- some of those other
7 staff, right? I mean, that's different from, let's
8 say, the PT (physical therapist) or the
9 nutritionists, who are separate professionals, but
10 in terms of supporting your work and diagnosis,
11 that would be a different kind of an approach,
12 right?

13 DR. RUBENSTEIN: Yes. I could have a
14 medical assistant who could -- you know, we could
15 cover part of the medical assistant's pay, and we
16 could have them screening people and doing kind of
17 follow-up education, which their medical assistant
18 is perfectly capable to do that.

19 DR. BERENSON: Yeah.

20 So, Kavita, did you rejoin us?

21 [No response.]

22 DR. BERENSON: I guess not. I heard three
23 new bells go off.

24 DR. MEDOWS: It's weird. It came in and

1 out.

2 DR. BERENSON: Oh, are you there?

3 DR. MEDOWS: No, this is Rhonda.

4 DR. BERENSON: Oh, okay.

5 DR. MEDOWS: So the alternative to -- so
6 adjusting the E&M code would be an alternative to
7 perhaps the care management fee that's proposed?

8 DR. BERENSON: Well, that's what I'm
9 suggesting. I mean, I think systematically -- and
10 I've written about this -- is that the fee schedule
11 is tilted, pays much -- two times -- two to two-
12 and-a-half times more for [unintelligible] work for
13 minor procedures -- I'm going to ignore major
14 procedures -- for minor procedures and for test
15 interpretations. And if we corrected those
16 distortions, that would pay lots more. For example,
17 a level -- I assume you do a lot of Level 5's for
18 new patients and Level 4's for -- 3's and -- well,
19 mostly 4's for follow-up patients that you'd see
20 with --

21 DR. RUBENSTEIN: Yeah. Most of my follow-
22 ups are probably Level 4. I spend half an hour
23 typically with follow-up patients, and most of my
24 new patients are probably Level 4 and 5, about 50-

1 50, and rarely do I have a Level 3 because I rarely
2 have that simple of a person because we see more
3 complex diagnoses typically at Penn, you know, just
4 that are being referred down here.

5 But, yeah, I think that -- I think that if
6 you looked at the ability -- if we're looking at
7 the big picture here -- and the big picture is --
8 are issues with -- so I think the diagnosis part
9 isn't the problem.

10 My feeling is that the diagnosis in
11 bringing people in and coming up with a diagnosis
12 and even the initial management is not the big
13 issue. The big issue is in compliance, and so when
14 you look at the cost of caring for especially
15 headache patients -- and the cost of caring for
16 headache patients, especially with medications and
17 everything else, and emergency room visits, you're
18 really looking at the compliance issue and follow-
19 up and support.

20 So if I saw a difficult-to-manage patient
21 or difficult-to-diagnose and came up with a game
22 plan -- they'd been on a number -- like I saw a
23 person this morning just like this, and it was a
24 young person, it wasn't a Medicare patient. But, I

1 came up with her game plan, and I think she'll do
2 find because she was insightful, but if she wasn't
3 insightful, I would have loved -- I would love to
4 have somebody to send a message to a support person
5 and say, "Call this person in a week, and make sure
6 they're sticking to what the plan was and go over
7 everything," because that's just going to give you
8 a much, much higher rate of success in treating
9 that patient.

10 DR. BERENSON: Mm-hmm. Okay. So it turns
11 out that Kavita has been trying to be on this call
12 but keeps getting dropped for reasons [sic].

13 Do we have other people who are on the
14 call -- still on the call? Have we lost other
15 people?

16 DR. SAMSON: Anjali, are you still on the
17 call?

18 DR. JAIN: I'm still here.

19 THE REPORTER: The court reporter is still
20 here.

21 DR. BERENSON: Did somebody just join us?

22 [No response.]

23 DR. BERENSON: Well, okay. We're only
24 going to go another five minutes or so, I think.

1 So I'll just ask Kavita's question that she emailed
2 to me.

3 DR. RUBENSTEIN: Okay.

4 DR. BERENSON: In their proposal, they had
5 mentioned from some MEPS (Medical Expenditure Panel
6 Survey) data that the cost associated with a visit
7 for headaches is \$4,000, and I think on the call we
8 had on Wednesday, we clarified that that \$4,000 was
9 the annual --

10 DR. RUBENSTEIN: Correct. Yeah, that's
11 what I would have imagined.

12 DR. BERENSON: So, but we still don't know
13 if that includes Part A or Part B, or is it just
14 related to headache costs or not, but do you have
15 any speculation about what that might represent?
16 We're trying to pin that down. Is it drugs? Is it
17 everybody getting imaging? What thinking might you
18 have had in seeing that number about what that
19 could be about -- and the opportunities for
20 reducing that amount?

21 DR. RUBENSTEIN: Yeah. I mean, I think
22 that amount would -- so I think that amount
23 probably is greatly impacted.

24 I think the imaging can certainly be

1 curtailed by having specifically headache
2 specialists and having, you know, protocol-driven
3 management of these patients, where you're not
4 scanning everybody, and you're, you know, trusting
5 your exam and trusting your history.

6 I think the place where -- the part that
7 this type of plan would be the greatest in, would
8 be preventing emergency room visits and admissions,
9 because that's going to drive that price up. That
10 annual cost for a headache patient is going to
11 drive them up dramatically.

12 So, you have one migraine patient go to
13 the emergency room a couple times, you're double
14 that, probably -- that annual cost, and if they
15 have one admission, you're even beyond that.

16 DR. BERENSON: What would be the typical
17 reasons they go to the emergency room? Intractable
18 vomiting? Severe pain? What would be the reasons
19 for migraine patients?

20 DR. RUBENSTEIN: It would be -- it would
21 be a patient who has -- I mean, who has intractable
22 pain or vomiting, and those are things that can be
23 often head off at the pass by having follow-up and
24 having constant contact with people. And so we

1 frequently see -- I also staff the residents'
2 clinic here, and the residents' clinic at Penn is
3 often patients who basically are either indigent or
4 have other insurances that have come to see them.
5 And those patients are sometimes difficult to
6 manage and have made several emergency room visits
7 in the interim.

8 So, it's not uncommon for me to staff a
9 patient with a resident who's had two emergency
10 room visits in the prior three months before they
11 came. The hope is that those patients would have
12 tried to contact us to prevent that emergency room
13 visit, or we would have been notified, but it's
14 often in different systems, and so we often don't
15 get information regarding it.

16 DR. BERENSON: Yep.

17 So let me ask one final question, and then
18 I think we'll shut down. I'm going to take
19 advantage of having you here and ask something that
20 wasn't part of their proposal.

21 To what extent do you think primary care
22 physicians, internists, family physicians, and
23 pediatricians could do a much better job with
24 diagnosing and managing headache if there was some

1 kind of mentoring program going on with headache
2 specialists? There are some programs that actually
3 either do tele-mentoring or one-on-one mentoring.
4 Do you have any experience or any observations
5 about the opportunities for improving the primary
6 care management of headaches?

7 DR. RUBENSTEIN: Well, interestingly, I've
8 always been an educator, and before the more recent
9 pharma guidelines that limited physicians,
10 pharmaceutical companies, and allowing me to say go
11 do a lunch talk for primary care, I took a role
12 basically to do education. I considered it
13 disease-state education, and I used to go to
14 primary offices at lunchtime and spend -- and it
15 was always kind of comical because the drug reps
16 would say, "Gosh, we've never seen these primary
17 care doctors spend this much time at lunch." And I
18 would spend an hour talking to them about migraine.

19 And we know from studies that primary care
20 -- that they're most often diagnosed as sinus
21 headaches, migraines are, and there is no ICD-9 or
22 ICD-10 code for sinus headache, there's -- for
23 headaches related to acute rhinosinusitis, perhaps.

24 So many of these patients, and the entire

1 pharmaceutical world who advertises Tylenol Sinus
2 and Advil Sinus, everybody thinks they have sinus
3 headaches.

4 So I think that a mentoring process would
5 work really well. How to support that would be
6 another matter.

7 I do think that I've always taken -- I've
8 always said that as neurologists, we have
9 guaranteed -- we have a guaranteed future because
10 it's kind of a touchy-feely specialty, that -- it's
11 very difficult for other people to pick up because
12 you're not doing tests. It's a lot of history
13 taking and a lot of gestalt.

14 DR. BERENSON: Yeah.

15 DR. RUBENSTEIN: And it passes over a lot
16 of people. It passes over even the very best
17 internist that I've worked with in my career,
18 unless they're focused on that. So unless it's a
19 focus of theirs, it's really tough to get it. So
20 I'm really -- I'm a bit skeptical that they can do
21 as good a job as a neurologist, but I do think that
22 -- what I always -- what I always felt was that I
23 could give them the information they needed to know
24 when they should send a patient to a neurologist.

1 DR. BERENSON: Mm-hmm. Okay.

2 And it was interesting that they did have
3 -- I mean, that there was some language in their
4 proposal about creating a team, including the
5 primary care physician, but when we probed a little
6 bit, it's not real. There is no primary care
7 physician, and I don't --

8 DR. RUBENSTEIN: Yeah. I mean, in the big
9 picture, if you could include the primary, I would
10 have no problem, if I had a stable patient, sending
11 that patient back to the primary saying, "Here's
12 what I'm prescribing. Here's what I'm doing. As
13 long as nothing changes, please continue, and
14 follow the patient up and prescribe these
15 medicines." And to include the primary care doctor
16 and that care team.

17 I mean, how that works from an EHR
18 (electronic health record) standpoint is another
19 matter because our EHRs don't talk to each other.

20 DR. BERENSON: Right.

21 DR. RUBENSTEIN: But if you did that in a
22 letter form or somehow to do that, how to include
23 them in the financial part of it, I'm not sure,
24 unless it was a system approach where they were all

1 part of the same health system.

2 DR. BERENSON: Yep, yep.

3 Well, we've gone up to our time limit.

4 Now let me just process-wise say that it is
5 possible that this proposal will be revised, and if
6 so, we may need to -- if it's substantially
7 different from what we saw, we may want to get back
8 in touch with you.

9 If it's really sort of cosmetic changes
10 and it's really the same proposal, chances are we
11 would not need to be in touch, so we're just not
12 sure how this will evolve. But we want to thank you
13 very much for the time you've given us. It's been
14 very helpful in many ways confirming what we were
15 beginning to move towards but with more precision
16 than what we're capable of doing.

17 So thank you very much.

18 DR. RUBENSTEIN: Yeah. No, it's my
19 pleasure. I'd be happy to hear back from you to
20 give you whatever other assistance -- I took it on
21 because I felt like it was a really interesting
22 idea, and I wanted to actually be helpful and be a
23 part of it to some degree.

24 DR. BERENSON: Well, you have been, so

1 thank you very much, and I'll let you get on with
2 your day.

3 DR. RUBENSTEIN: Okay. Take care.

4 Thanks.

5 DR. BERENSON: So the rest of us will stay
6 on the call.

7 DR. RUBENSTEIN: Okay. Take care. Bye-
8 bye.

9 DR. BERENSON: All righty. Bye-bye.

10 [Whereupon, at 11:45 a.m., the conference
11 call concluded.]

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