

1 of the (inaudible) surrounding that area. I agree
2 with a lot of the comments that have been said up
3 to this point. We currently -- my role in Nemours
4 is as the telehealth administrator. We are doing
5 quite a bit in this field. We are serving
6 children who have acute care needs to chronic care
7 needs within the home, within the school, and even
8 on cruise ships. And we're doing quite a bit of
9 work with primary care organizations and also
10 other community hospitals and health systems.

11 One of our biggest challenges is that we
12 do service a large Medicaid population. While we
13 service many urban areas, a lot of these families
14 don't have access due to the cost of the services.
15 So, that's one of our biggest hurdles, if you
16 will, enabling and allowing us to be able to
17 provide the telehealth services into those
18 settings where they may not have access.

19 So, we're excited about the opportunity
20 not only in the urban settings but also in rural
21 settings to begin to think about what we can do
22 and how we can have a better exchange within the

1 home so that our providers can provide these
2 services into those locations. Many of our
3 patients and families travel many miles in order
4 to access this care, so we think it's very, very
5 important and relevant at this point in time to be
6 able to have this discussion today and really
7 think about what we can do in order to improve the
8 connectivity. So, thank you very much for the
9 opportunity to speak.

10 DR. AHERN: Thank you, Carey. We really
11 appreciate your input. One quick follow-up
12 question, if I may. Of the services that you
13 described, how much of it is wireless would you
14 estimate?

15 MS. OFFICER: Probably over 50 percent.
16 We have found that really works better in the home
17 setting and we have found it to be difficult in
18 other settings like schools. So, we're a little
19 bit challenged from a wireless perspective to have
20 that kind of access so we try to go hard wire
21 wherever we can. We have found that the
22 connectivity especially from a video perspective

1 has been better.

2 DR. AHERN: Great, thank you, Carey.
3 Justin, if you could queue up the next
4 participant.

5 OPERATOR: Certainly. Next we'll go to
6 the line of Bill Jansen of MetalQuest. Your line
7 is open.

8 MR. JANSEN: Good afternoon. Thank you
9 for having me. I'll try to be as eloquent as my
10 colleagues and as concise and succinct.

11 When I originally applied for the
12 listening session, what does MetalQuest have to do
13 with healthcare? Such an odd name. Well,
14 actually, one of the big parts of our business is
15 operating as a trustee for bankrupt healthcare
16 providers, whether it's a large urban center, a
17 critical access hospital, or an individual
18 provider. So, we see every day the need for
19 broadband, just connectivity in general,
20 especially in rural areas or areas where people
21 are more economically challenged.

22 So, we deliver historical data and we

1 deliver real-time data, but oftentimes we can't
2 deliver the data for someone who needs to undergo
3 a test. So, if we had that broadband -- whenever
4 the person is educated enough to use -- we can cut
5 costs tremendously across the country in terms of
6 invasive tests, tests of any kind, and just
7 generally the patient would be happier knowing
8 that they can access their data. So, access to
9 data is critical.

10 We also have the same problem with
11 hospitals. Hospitals will call us, or a provider
12 will call us, they need access to data. We may
13 have a lot of imaging data, but we can't
14 effectively deliver in real-time to, say, a rural
15 facility.

16 So, those are the big challenges that we
17 see every day, and there is definitely a digital
18 divide. We especially see this with low-income
19 and we see it with the elderly population; they
20 just don't know how to use the technology to take
21 care of their healthcare needs. So, that's all I
22 have and thank you.

1 DR. AHERN: Thank you, Bill, that was
2 very helpful. I do have a follow-up question. I
3 think there is a major concern among the provider
4 community about some of the uncertainty with
5 coverage and the implications of changing
6 healthcare insurance policies in terms of impact
7 on providers. So, are you seeing more and more
8 risk for providers as a consequence?

9 MR. JANSEN: Absolutely. I had that
10 conversation today. Changing reimbursement has
11 put especially smaller providers, rural providers,
12 at risk. Large urban providers, it puts them at
13 risk. A lot of that is because the population
14 they serve, they're indigent or they're receiving
15 Medicare, Medicaid or their insurance policies
16 just don't pay enough.

17 So, one thing that's kind of
18 interesting..., if you believe the data, there
19 will be 400 rural hospitals closed in the next
20 several years. So whether that's true or not,
21 whether it's 100 or 500 it's still a lot. So not
22 only will the patients be without an acute care

1 facility to attend to their healthcare needs, they
2 won't even be able to get the data to take another
3 provider. So, yeah, we see reimbursement issues
4 every day as affecting the health of the entire
5 provider community. Thank you.

6 DR. AHERN: Thank you. Again, one
7 follow-up question, Bill. Do you see the
8 providers are doing poorly because they try to
9 adopt broadband health services and aren't
10 successful in doing that? Would that be an
11 accurate appraisal of what you've seen?

12 MR. JANSEN: Yes. So, they want to
13 adopt broadband technology but the implementation
14 costs might be too high and/or but probably more
15 importantly is the interoperability just isn't
16 there. So, if you're a large urban center you may
17 have a healthcare exchange and can easily move
18 information. If you're using a large EHR system
19 maybe you can move information between like users
20 of the same EHR. But, yeah, interoperability is a
21 huge stumbling block for providers, especially
22 smaller providers. They want to provide good care

1 and they do the best they can but they could do
2 better with good broadband, whether it's fixed or
3 whether it's wireless and interoperability issues
4 would go away.

5 DR. AHERN: Thank you, Bill. I
6 appreciate your answers to those questions. We do
7 have one remaining participant but there's a
8 chance that we could get another one before we go
9 to open discussion, so don't miss your
10 opportunity.

11 Justin, if you would go ahead and ask
12 our next participant to introduce themselves.

13 OPERATOR: Certainly. It will come from
14 the line of Edward Miller, MD Anderson Cancer
15 Center. Your line is open.

16 MR. MILLER: Thank you, and thank you to
17 the FCC for hosting this call today. My comments
18 aren't too different from the others that have
19 spoken out.

20 We're the largest cancer hospital in the
21 country and in urban areas often have access to
22 specialty care for either oncology or heart or

1 whatever their complex health condition may be.
2 But we've experienced here in Texas, a large
3 state, a lot of rural areas, especially when you
4 get to west Texas, there aren't enough specialists
5 that can take care of the needs of the community.
6 And of course our experience is only with oncology
7 and a lot of these people cannot travel but just
8 because it's rural or it's underserved
9 communities.

10 So, we have been participating in a
11 program that trains primary care providers with
12 specialties to be more attuned to specialty care,
13 they can provide more care than they would have
14 been able to. And we do this through
15 tele-mentoring and other programs like that and it
16 requires broadband to have videoconferences and
17 share data and slides and pictures, etcetera. By
18 doing this it allows patients to be treated in
19 their community at the right time, it doesn't
20 cause delays in care which can end up making their
21 cases much more complex and it can improve
22 outcomes or reduce costs.

1 But the thing we're running into is that
2 there is a severe lack of broadband, or even
3 wireless services in certain areas that are very
4 rural and the faster uptake in those areas we
5 could definitely expect greater outcomes from
6 these health episodes. And, again, it's not just
7 cancer-specific but you could get a lot more
8 specialty care into primary care offices and
9 they'd be more aware of the conditions that do
10 need to go into in-patient settings in a hospital
11 versus being able to stay home and being able to
12 be monitored remotely as many other groups have
13 already expressed.

14 So, I guess that's kind of what our hope
15 would be, just that access would increase and I
16 think that would open up the door for a lot of the
17 other programs. Again, I thank you for hosting
18 the call.

19 DR. AHERN: Thank you, Edward. Really
20 appreciate that input.

21 I think we're at a point now where we
22 can open up all the lines, Justin, and have an

1 open discussion. If we could go ahead and do that
2 I will ask my colleague, Dr. Gibbons, to maybe
3 begin with a question or two to get the
4 conversation going. This is, again, now an
5 opportunity for all of the participants on the
6 call to comment, respond to the questions, and
7 have a dialogue.

8 DR. GIBBONS: Great, thanks, David.
9 Again, thank you everybody. This has been
10 fantastic. It's gone above and beyond what we'd
11 hoped for.

12 I've heard a number of things that I
13 found very, very interesting and fascinating. For
14 one, Hank, in the beginning you were pretty clear
15 about saying that really the need for speed is
16 going up, and you even said that your T1 lines are
17 basically insufficient currently and that's only
18 going to get worse in the future, if I understand
19 you correctly.

20 But at the same time, I think I heard
21 from Jon Zasada that -- and I want to make sure
22 I'm hearing the right thing -- that 10-3 is

1 actually okay for you guys, or were you saying
2 that you'll take it because that's all you can
3 get? I'm wondering in general, not only at Hank
4 and Jon, but I'm wondering across all of the
5 groups if the need for broadband speeds are going
6 up as Hank described, and in particular Jon
7 because you mentioned 10-3.

8 And then there is a second question.
9 I'd love to hear more about the virtual ER
10 program, how that is actually working and if
11 others are doing things like that. Thanks so
12 much.

13 MR. FANBERG: This is Hank. I'll
14 comment that, yes, I think you have it correctly.
15 And the specific example that I can give. So have
16 one of our San Antonio hospitals is a transplant
17 center and they have patients literally scattered
18 across the state of Texas. There is a certain
19 amount of testing that needs to be done ahead of
20 time when you go on the registry for an organ
21 transplant. And in some of these communities
22 where we have these people there is insufficient

1 bandwidth just to conduct a virtual visit with the
2 testing that needs to be done to transfer the
3 information from the rural location into San
4 Antonio. And those connections, all that we have
5 available there right now are T1 lines and we're
6 finding that we can't even get these visits done
7 trying to send what I consider to be relatively --
8 the data that would really need minimal bandwidth,
9 but we're having difficulty with that.

10 DR. GIBBONS: Do you have any sense of
11 what a minimum might be for you guys? If you
12 could choose what the minimum would be, what would
13 you say?

14 MR. FANBERG: Well, it's going to depend
15 upon the location and the area. Someone earlier
16 had referenced the FCC has what they consider the
17 standard minimum which I don't recall the number.
18 But, frankly, when you start talking about if
19 you're sending data, if you're sending the visual
20 (inaudible), i.e., any of your images, you really
21 probably need to start with a baseline of about 10
22 megs, and sometimes during the day that probably

1 will not be sufficient but it's a good starting
2 place. We like to do a minimum of 45 if it's
3 available, but that is not always the case.

4 DR. GIBBONS: I want to clarify because
5 I think you're saying something very important.
6 You're suggesting that, first of all, the need is
7 not a static need, it's not whatever, 100 megs all
8 day long, but it can and does vary throughout the
9 day but to the extent that we don't have the
10 availability when the need is greatest then the
11 entire thing is insufficient. I think if I
12 understand you correctly that's an important
13 insight that we have to think about at the FCC in
14 terms of trying to decide what's adequate. It's
15 more than just some sort of a number, whatever
16 that number is, because the needs vary throughout
17 the day, if I understand you correctly.

18 MR. FANBERG: Yeah, although again,
19 there is a minimum threshold that will be needed,
20 and I think experience says that that minimum --
21 and maybe I'm going back to the Connect America
22 Map which came out with some standards, if a

1 certain amount of bandwidth was available they
2 said you had sufficient bandwidth in the
3 community, and our own experience is that their
4 information is not necessarily correct all the
5 time.

6 DR. GIBBONS: Great. Others?

7 MR. ZASADA: This is Jon Zasada from the
8 Alaska Primary Care Association again. I was
9 actually just trying to get back into some
10 testimony that we provided to the Alaska
11 legislature this spring, and I'd also defer to
12 Verné Boerner, our colleague with the Alaska
13 Native Health Board. We will provide some
14 additional data or information after this meeting
15 regarding speed. But I guess in my personal
16 experience in talking with health center directors
17 they are okay with the speed that they have.
18 There are lags that affect the flow of
19 appointments and the flow of work, but I think in
20 particular very isolated communities understand
21 the limitations of the connections that they do
22 have. I will say also that in communities that

1 don't have dedicated connections the need for
2 speed of bandwidth in a dedicated connection is of
3 vital importance. And I think this goes back to
4 the person that was talking last, in non-dedicated
5 connections, in a very small community it can very
6 quickly take up to four hours to transmit out a
7 single image for review by a distant provider and
8 ties up the rest of the online work that the
9 clinic may be doing.

10 Again, all that being said, we like
11 everyone else are continuing to modernize our
12 EHRs, our electronic health platforms. We were
13 just talking yesterday about expansion of in-home
14 and in-community monitoring and all of those
15 require a constant increase in both bandwidth and
16 speed. Those changes are being developed by the
17 commercial providers here in Alaska but they come
18 at a very, very large cost which to this point has
19 been borne without interruption by the Rural
20 Healthcare Fund and with 7.5 percent proration
21 that we saw in 2016 and the peril of a much higher
22 proration for 2017 and beyond. The modernization

1 of that fund is of the highest priority for both
2 the non-tribal and tribal systems and for rural
3 hospitals here in Alaska.

4 DR. GIBBONS: Great, great. So, again,
5 correct me if I'm wrong but I'm not hearing you
6 say that lower bandwidths are really adequate.
7 You're working with them and you're happy for what
8 you can get but more would definitely be better.
9 That's what I'm hearing, right?

10 MR. ZASADA: Isn't more always better?

11 (Laughter)

12 DR. GIBBONS: Well, yeah.

13 MR. ZASADA: And, again, I think my
14 homework that I'm taking away for you all and for
15 future sessions will be doing a survey with our IT
16 directors to try and flesh out some of these
17 issues in additional detail so that we can share
18 that information with you going forward.

19 DR. GIBBONS: Okay, great. And just one
20 final question. Can you tell us a little bit more
21 about the virtual ER?

22 MR. ZASADA: I can tell you a little bit

1 and then, again, get you more information as we
2 go. So, basically a patient would present in an
3 emergent situation at the community health center
4 that's located in Dutch Harbor, Alaska which for
5 those that don't know is one of the largest
6 fishing communities in the United States. It has
7 an annual influx of tens of thousands of seafood
8 workers that augment its regular population of I
9 want to say 2,000 to 4,000 people. It does not
10 have a critical care hospital so the emergency
11 room does exist in the community health center.
12 Again, the patient appoints, there's a dedicated
13 connection to Providence Alaska Medical Center in
14 Anchorage. The medical staff at the health center
15 use a range of diagnostic equipment that provides
16 direct feed to the hospital and they are guided in
17 the care of the patient until a medevac can be
18 arranged. Just so you know, a medevac can be
19 arranged -- with the weather in the distant North
20 Pacific can sometimes take a number of days in
21 worst case situations and can cost between \$50-
22 and \$100,000.

1 DR. GIBBONS: Wow. Wow. Thank you very
2 much.

3 DR. AHERN: Thank you, Hank and Jon, for
4 your comments. Any other comments on the topics
5 that we've been discussing?

6 MS. BOERNER: This is Verné Boerner with
7 ANHC.

8 DR. AHERN: Yes, go ahead, Verné.

9 MS. BOERNER: Thank you. I just wanted
10 to add a couple of statements in addition to
11 Jon's. Again, I think he's done a fantastic job
12 describing the situation.

13 Some of the other issues that we have
14 seen with regards to speed, not just with the
15 transmission of medical files and records and
16 such, is actually processing and doing the
17 administrative work. A lot of the enrollments and
18 billing that our members have engaged in, they're
19 all sort of online- based and if there's an
20 interruption in the transmission of that or if the
21 speed is too slow it can cut off hours' worth of
22 work that will have to basically be started over

1 again. So, it does affect the overall
2 productivity of our centers as well. So, that's
3 just one addition that I wanted to add.

4 Parity is something that the tribal
5 health programs have really stood for and fought
6 for as well. So, the 10-3 is a good baseline but
7 the problem we have is that it hasn't always been
8 consistent or consistently available or reliable.
9 Again, I do think that there are improvements
10 being made, but again, it really depends on that
11 sort of consistent and predictable support that
12 the tribes, the broadband providers, our partners,
13 and the state have sort of worked together. And
14 as Jon has said, addressing the Rural Healthcare
15 Program fund is of utmost priority for our IT
16 usage and broadband usage.

17 DR. GIBBONS: Great, thank you.

18 DR. AHERN: Thank you, Verné. I think I
19 might at this point take an opportunity to mention
20 that in the two-page document that you were sent
21 with the questions we also have a request for any
22 research or case studies that you might want to

1 share with us. So, as was mentioned in the
2 previous participants, if there is additional
3 information that you want to provide we would be
4 very pleased to receive that at
5 connect2health@fcc.gov. That would be very
6 helpful to us.

7 On that note, I might ask if Lovisa
8 Gustafsson is still on the call from the
9 Commonwealth Fund. Lovisa, I know that the
10 Commonwealth Fund has been working on a
11 breakthrough portfolio and I wondered if there
12 were any projects that you might be able to talk
13 about that would be relevant here in our
14 discussion.

15 MS. GUSTAFSSON: Hi, yes. I think a lot
16 of our work to date has been focused around
17 consumer access to their healthcare data,
18 interoperability, and a lot of those sorts of
19 issues. So, this is a newer area that we're
20 starting to wade into in relation to that sort of
21 work. So, it's really helpful for me to hear a
22 lot of these issues and the problems that

1 providers are bringing up given that we're not out
2 in the field working with providers on a
3 day-to-day basis to help inform us in terms of
4 what our priorities are going to be going forward
5 in terms of how we can be thinking about these
6 issues and how we can potentially be doing
7 grant-making around them to solve some of these
8 problems that you are raising. So, really
9 appreciate the opportunity to hear from all of you
10 and your experiences and any of the problems that
11 you are experiencing today or potentially foresee
12 coming down the road. So, thank you.

13 DR. AHERN: Wonderful. Thank you,
14 Lovisa, I appreciate that. Chris, did you have
15 another question that you wanted to pose?

16 DR. GIBBONS: Yeah, sure. I was
17 thinking about what we've heard and I also found
18 what Bill Jansen at MetalQuest said very
19 interesting. Similar in some ways to Lovisa
20 because these are not provider organizations, yet
21 the work that they do is critical to provider
22 organizations. At one level, it illustrates for

1 us -- if I'm understanding you correctly and you
2 can correct me if I'm wrong -- that when we think
3 about broadband and supporting health and
4 supporting providers we have to think more broadly
5 than just supporting hospitals and doctors and
6 maybe consumers in their homes and there are other
7 types of organizations like MetalQuest that are
8 critical to the healthcare process.

9 I'm wondering if, Bill, you or others
10 might have any thoughts for us about any other
11 kinds of organizations that may not be providing
12 healthcare from a physician or other typically
13 recognized healthcare provider, but are critical
14 in the healthcare process that you think it would
15 be important to have us think about and try to be
16 inclusive of as we strive to develop or inform the
17 development of priorities and other things at the
18 FCC.

19 MR. JANSEN: Hi, this is Bill Jansen. I
20 can think of any number of companies and probably
21 industries that need to be included in the
22 discussions. But one thing that comes to mind

1 easily is just companies that are working on
2 clinical systems and their ability to provider
3 interoperability. So, those kinds of companies
4 really affect not only the provider and the
5 consumer but all the players that are in between.
6 And, of course, you need to have the big carriers
7 involved in it. One of the last things you want
8 to see is limited speeds.

9 And to answer the previous question, I
10 think really your kind of baseline minimum is 10
11 megabits at the very minimum. We can hardly push
12 data out for less than that unless it's highly
13 compressed.

14 But I think that most of these questions
15 are not a question of technology, it's really a
16 question of economics. I mean, we communicate
17 with the Voyager that's beyond our solar system
18 all the time. So, if we can do that on technology
19 built back in the '60s and '70s surely all these
20 other issues can be easily solved.

21 But, again, I think one of the biggest
22 challenges we have are people that are either

1 elderly, they don't understand the technology, and
2 people who are of low income, who don't have
3 access to technology. And, of course, there are
4 people in rural areas who don't have access to
5 technology. But, again, that goes back to if
6 you're a provider of technology do you want to go
7 after three people? You want to go after 100
8 people that live in Alaska or some other far-flung
9 location.

10 So, that's really, I think, maybe at the
11 heart of it. I don't think it's much of a
12 technology issue. It's really a question of what
13 policy do we want to create to help our country
14 move ahead in terms of its health.

15 DR. GIBBONS: So, assuming that to be
16 true -- and I'm not saying it's not, I believe you
17 -- what would your suggestions be for an FCC? I
18 mean, okay, this is not a technology issue or at
19 least not mainly, you say; if that's the case, do
20 you see a role for the FCC assuming that these
21 things would be within its mandate? I'm just
22 really trying to get your perspectives on how an

1 FCC can help address the problems that you see
2 that are impacting utilization of broadband in
3 greater ways to achieve health outcomes. What can
4 we do or what recommendations might you have for
5 an agency if you assume the problem is not a
6 technology problem at its core?

7 MR. JANSEN: Well, I think that this is
8 a very good start, bringing together interested
9 parties and stakeholders with the FCC acting as a
10 facilitator in a policy body that can bring
11 together all these disparate groups and kind of
12 make sense out of it. That's one of the biggest
13 challenges, right? Getting the people together
14 and figuring out some kind of consensus on a path
15 forward. I mean, that's the toughest part.

16 Again, I don't think it's the technology
17 but in this case how do you bring groups together,
18 how do you reach a consensus. I think that's the
19 role of the FCC. Then, of course, once that
20 consensus is reached being able to put out the
21 regulations so we're all playing by the same
22 rules.

1 But, you know, that's tough and with all
2 the changes in technology, technology getting
3 better, of course keeping up with change is its
4 own set of issues. So, it's definitely a big
5 challenge to overcome but it's definitely not
6 impossible.

7 DR. GIBBONS: Great. Thanks so much.

8 DR. AHERN: Thank you, Bill. Chris, if
9 I may, we have another question thinking about the
10 future, and that is certainly part of the question
11 set that we had sent out. If participants on the
12 call have thoughts about current and future
13 broadband- enabled health applications could they
14 comment on that? And what kinds of services are
15 we talking about and what kinds of bandwidths and
16 speeds will be need, thinking about the future as
17 healthcare continues to transform? Do folks have
18 thoughts about that?

19 MR. FANBERG: I think, David -- it's
20 Hank. I'd just like to make a quick comment that
21 I think will touch on your question, but I want to
22 go back to the immediate prior discussion.

1 The FCC sets the regulations as to how
2 we can -- I don't want to say use broadband, but
3 in terms of the programs that it has to subsidize
4 the cost of broadband. And when I talk about the
5 need for speed I'm also talking about the need for
6 speed within the FCC to change its policies. Two
7 years ago I petitioned the FCC to do some of the
8 things that we're talking about today and I'm
9 still waiting for a reply.

10 So, as the policymaker which impacts
11 what we all can do and how we can do it and who is
12 eligible to be a part of it are going back to the
13 pilot program, and I think this rule still stands,
14 where there were prohibitions on being able to
15 share your circuits with non-healthcare providers.
16 These are policies that need to be addressed, that
17 need to be changed, and in my opinion these are
18 regulatory issues and not legislative issues and
19 those are things that need to be addressed in the
20 process also. And if we can address some of those
21 things that will help the innovation and help us
22 get to where we need to go in terms of being able

1 to reach new places, new locations, reach
2 mobility, and provide a variety of services. But
3 it's those underlying policies that need to be
4 addressed.

5 DR. AHERN: Thank you, Hank. Appreciate
6 that. I think the question on the table was about
7 the future and services that we can imagine two
8 years out, five years out. Things are moving very
9 quickly with respect to healthcare reform and
10 digitalization of healthcare which we see every
11 day now in many ways. What are some of the
12 opportunities and solutions that we think are
13 going to emerge for which broadband is going to be
14 critical?

15 MS. OFFICER: This is Carey Officer with
16 Nemours. As we think about what the future
17 entails for the children that we're serving across
18 a pretty wide geographic area, we really foresee
19 remote monitoring and providing care within the
20 home as a critical aspect, predictive, analytic,
21 and really getting to the source before and being
22 proactive before something sets in and a child

1 ends up in our emergency room or ends up as an
2 inpatient in our health system. So, it's really
3 pushing care into the home and if we don't have
4 the right type of connectivity into the home and
5 at a cost point that these families can subscribe
6 to then that will never become a reality.

7 MS. HAHN: This is Beth. Also, to
8 understand that we're all out here trying to do
9 this without any funding. There is no
10 reimbursement for telehealth, telemonitoring, in
11 patients' homes but we're doing this because we
12 know that this is for the benefit of the patient
13 and the care that they need to receive.

14 Our cardiology patients and one care
15 patients, if they have connectivity to their
16 doctor they can save travel of 80 to 100 miles and
17 a two-hour travel to providers where there is a
18 lack of providers and they have to wait weeks to
19 get into a specialty provider sometimes. So,
20 we're all grassroots trying to do what needs to be
21 done behind the scenes with the capabilities that
22 we have and without reimbursement. The medical

1 community isn't supportive because they know there
2 is a lack of providers and that they can't see
3 everybody one-on-one as much as they would like
4 to. We get referrals, "Do you have cardiology
5 telehealth?" Because the providers know that this
6 is what's needed. But we're here in the
7 background scrambling trying to figure out how to
8 provide it to them at our own cost.

9 DR. AHERN: Thank you, Beth. So, one of
10 the barriers, one of the challenges, is obviously
11 the funding and sustainable funding in order to
12 support the development of these initiatives, the
13 deployment, and that's sort of part of the
14 challenge that you face and I'm sure many
15 providers are facing today.

16 MS. HAHN: Yes.

17 MS. BOERNER: This is Verné with the
18 Alaska Native Health Board. I just wanted to --
19 the last three speakers I think really did a great
20 job in addressing some of the in-home care issues
21 and some of the innovations that might occur but
22 the lack of access, again, in rural communities is

1 so incredibly high across the United States and
2 thinking about the regulatory barriers that have
3 impacted the -- I mean, there are efficiencies
4 that are not being tapped into that because of the
5 limitations as to how they can be used is part of
6 that.

7 When you think about non-technical
8 issues, if you look at immunizations and you don't
9 have a critical mass having access to those
10 immunizations they're not effective. And
11 similarly, with broadband if you don't have that
12 critical mass with access to it you're not going
13 to build that sort of awareness of it overall and
14 then these innovative approaches can't get off the
15 ground quite as easily. So, I think that's a part
16 of an artificial barrier that might need to be
17 addressed. Thank you.

18 MS. ZASADA: This is Jon, also in
19 Alaska. I guess I had an experience recently that
20 kind of gave me a little bit of perspective. I'm
21 pessimistic about the increased affordability of
22 rural broadband for residential use and I'm also

1 somewhat pessimistic about how much more
2 affordable cell plans are going to become. I was
3 recently in rural northern Canada, the Yukon
4 Territory and the Northwest Territories, and in
5 response to their desire to lower costs and
6 increase access to in-home monitoring, they
7 actually deployed old school 3G teleconnectivity
8 and monitors that maximize at that level of speed
9 in order to at least have a minimum base of home
10 monitoring available for their patients. I know
11 in talking to them that this is also a model that
12 has been used in other rural countries that have
13 centralized health systems. So, again, I think
14 it's good to get it out on the record as one
15 opportunity that other places are trying.

16 DR. AHERN: Thank you, Jon. I want to
17 be respectful of time for participants. We're
18 near our two-minute mark. Are there any other
19 brief comments that any of our remaining
20 participants would like to make before I turn it
21 over to Chris for final comments? Hearing none,
22 Chris, did you want to wrap up?

1 DR. GIBBONS: Sure, thanks, David.

2 Again, let me on behalf of David and the entire
3 Connect2Health Taskforce and the FCC thank each
4 and every one of you for taking the time out of
5 your busy schedule to give us your critical
6 insights, your findings, and your thoughts.

7 We heard many things and I'll just
8 briefly tick off a few of the top ones that
9 impacted me. The increased need for more speed,
10 problems around access and affordability,
11 reimbursement. But also there are non-technical
12 issues that get in the way and that there is a
13 feeling that the FCC can have a role in overcoming
14 those non-technical issues, if it's coordinating,
15 getting people together, particularly in community
16 is important. And also, as the last caller just
17 talked about, sometimes low-tech technologies can
18 be useful on an interim basis to get through a
19 problem.

20 These are all fantastic. We look
21 forward to continuing the conversation with you
22 again. Please feel free to send us anything else

1 you would like us to know or did not get the
2 chance to tell us. Our email is
3 connect2health@fcc.gov. Thank you, again, for
4 joining us today.

5 DR. AHERN: I would just also thank you
6 all for joining us on the call today. We greatly
7 appreciate the time that you've provided and your
8 input. We will now conclude the session. Thank
9 you.

10 OPERATOR: Ladies and gentlemen, that
11 does conclude the conference for this afternoon.
12 We do thank you very much for your participation
13 and using the Executive Teleconference Service.
14 You may now disconnect.

15 (Whereupon, at 2:59 p.m., the
16 PROCEEDINGS were adjourned.)

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