

BETH C. DRAIN, CA CSR NO. 7152

BEFORE THE
ACCESSIBILITY AND AFFORDABILITY WORKING GROUP OF THE
INDEPENDENT CITIZENS' OVERSIGHT COMMITTEE
TO THE
CALIFORNIA INSTITUTE FOR REGENERATIVE MEDICINE
ORGANIZED PURSUANT TO THE
CALIFORNIA STEM CELL RESEARCH AND CURES ACT
REGULAR MEETING

LOCATION: VIA ZOOM

DATE: MARCH 14, 2023
8 A.M.

REPORTER: BETH C. DRAIN, CA CSR
CSR. NO. 7152

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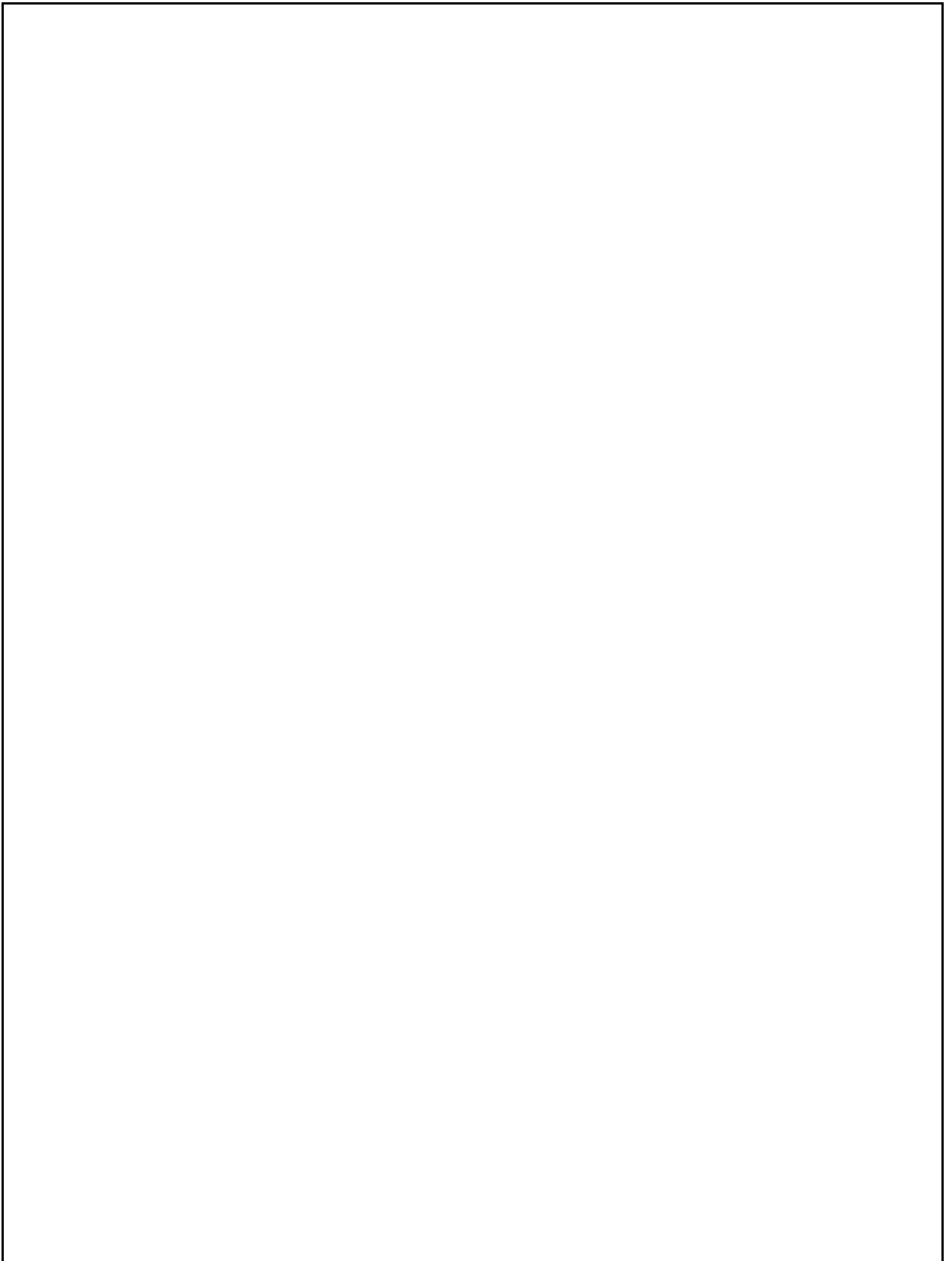
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TUESDAY, MARCH 14, 2023; 1 P.M.

VICE CHAIR BONNEVILLE: GOOD AFTERNOON,
EVERYONE. THANK YOU FOR JOINING US TODAY.
MARIANNE, CAN YOU PLEASE CALL THE ROLL.

MS. DEQUINA-VILLABLANCA: DAN BERNAL.

MR. BERNAL: PRESENT.

MS. DEQUINA-VILLABLANCA: MARIA
BONNEVILLE.

VICE CHAIR BONNEVILLE: PRESENT.

MS. DEQUINA-VILLABLANCA: ANN BOYNTON.

MS. BOYNTON: PRESENT.

MS. DEQUINA-VILLABLANCA: JAMES
DEBENEDETTI. DANA DORNSIFE. DAVID GOLDMAN. TED
GOLDSTEIN.

MR. GOLDSTEIN: HERE.

MS. DEQUINA-VILLABLANCA: DAVID HIGGINS.
HARLAN LEVINE.

DR. LEVINE: HERE.

MS. DEQUINA-VILLABLANCA: PAT LEVITT.

DR. LEVITT: HERE.

MS. DEQUINA-VILLABLANCA: ADRIANA PADILLA.

DR. PADILLA: HERE.

MS. DEQUINA-VILLABLANCA: AMMAR QADAN.

DR. QADAN: PRESENT.

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1 MS. DEQUINA-VILLABLANCA: AL ROWLETT.

2 MR. ROWLETT: HERE.

3 MS. DEQUINA-VILLABLANCA: DAVID

4 SERRANO-SEWELL. MAHESWARI SENTHIL. ADRIENNE

5 SHAPIRO.

6 MS. SHAPIRO: PRESENT.

7 MS. DEQUINA-VILLABLANCA: JONATHAN THOMAS.

8 CHAIRMAN THOMAS: HERE.

9 MS. DEQUINA-VILLABLANCA: OKAY. WE'VE GOT
10 IT.

11 VICE CHAIR BONNEVILLE: THANK YOU,
12 MARIANNE.

13 SO TODAY THE TEAM IS PRESENTING A USE CASE
14 FOR THE ACCESS AND AFFORDABILITY ROADMAP RARE
15 DISEASE. AS YOU ALL KNOW, 50 PERCENT OF OUR
16 PORTFOLIO IS IN DISEASE INDICATIONS. HOWEVER, IT IS
17 THE TEAM'S FEELING THAT THE METHODS AND STRATEGIES
18 PRESENTED WILL BE BROADLY APPLICABLE ACROSS OUR
19 PORTFOLIO PROGRAMS.

20 AS WE GET CLOSER TO JUNE, IT IS VITAL THAT
21 THIS GROUP WEIGH IN ON THE STRATEGIC VISION THAT IS
22 PRESENTED BY THE TEAM, TO THE ACTIVITIES AND
23 PROGRAMS ENVISIONED SEEM REASONABLE AND EFFECTIVE,
24 AND DO THEY FURTHER THE GOALS OF THE ORGANIZATION.

25 AND SO WITH THAT, I'LL TURN IT OVER TO

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1 SEAN TO TAKE US THROUGH THIS.

2 DR. TURBEVILLE: WELL, THANK YOU. I'M
3 GOING TO GO AHEAD AND SHARE MY SLIDES. MAKE SURE WE
4 GET A THUMBS UP YOU CAN SEE THESE.

5 WONDERFUL. VICE CHAIRMAN, NEWLY ELECTED
6 VICE CHAIRMAN, I DON'T KNOW HOW MANY TIMES I HAVE TO
7 SAY THAT, BUT THIS WILL BE THE LAST TIME, OR NOT
8 EVEN CLOSE. IT'S COMING. ALL RIGHT. THANK YOU FOR
9 THE CORRECTION.

10 AAWG, THANK YOU FOR ATTENDING THIS
11 MEETING. THIS IS ACTUALLY A PRETTY ENTHUSIASTIC
12 PRESENTATION FROM MY PERSPECTIVE. AS BONNEVILLE
13 TEED UP, WE ARE GETTING READY TO PRESENT A ROADMAP
14 FOR THE ACCESS AND AFFORDABILITY. AND THAT ROADMAP
15 IS, WITHIN A COUPLE MORE PRESENTATIONS, GOING TO BE
16 FINE-TUNED AND, AS WE DISCUSSED EARLIER, BE
17 PRESENTED TO THIS TEAM, THIS CROSS-FUNCTIONAL TEAM,
18 THAT'S GOT A LOT OF EXPERTISE THAT CAN GIVE US
19 GUIDANCE ON FINE-TUNING THAT FOR THE ICOC
20 PRESENTATION LATER THIS SUMMER.

21 SO AS BONNEVILLE MENTIONED, WE'RE GOING TO
22 TALK ABOUT RARE DISEASE AS THE USE CASE FOR ACCESS
23 AND AFFORDABILITY. AND A COUPLE OF SCENARIOS THAT I
24 REALLY WANT THE TEAM TO CONSIDER FROM POTENTIALLY A
25 FUNDING OPPORTUNITY DOWN THE ROAD, WHETHER THAT'S IN

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1 MEDICAL AFFAIRS OR EVEN ON THE CLINICAL SIDE.

2 SO JUST AS A REMINDER, THESE ARE THE
3 AAWG-APPROVED CATEGORIES WE ARE FRAMING FOR OUR
4 DISCUSSION AROUND ACCESS AND AFFORDABILITY. WE ARE,
5 OF COURSE, ALIGNING WITH OUR FIVE-YEAR STRATEGIC
6 PLAN. WE ARE PROVIDING DIFFERENT COMPONENTS LISTED
7 HERE FOR CONSIDERATION. WE'VE TOUCHED ON SEVERAL OF
8 THESE COMPONENTS IN OUR PREVIOUS PRESENTATIONS.

9 TODAY I WANT TO FOCUS SPECIFICALLY ON RARE
10 DISEASE AND, MORE IMPORTANTLY, THE AREA THAT I
11 FOCUSED HERE UNDER BUILD CLINICAL RESOURCES. AND
12 THAT IS THE POST-MARKETING SURVEILLANCE SCENARIO OR
13 AREA. AND I DON'T KNOW IF MANY OF YOU HAVE BEEN
14 FOLLOWING THE LITERATURE, BUT THIS IS AN AREA THAT'S
15 ACCUMULATED A NUMBER OF CURRENT PUBLICATIONS IN THE
16 LAST TWO WEEKS FOCUSING ON THE IMPORTANCE OF
17 POST-MARKETING SURVEILLANCE FOR CELL AND GENE
18 THERAPY TRIALS. THERE ARE MANY WHITE PAPERS MAYBE
19 IN THE LAST TWO WEEKS, INCLUDING A PUBLICATION IN
20 *NEW ENGLAND JOURNAL OF MEDICINE* FROM A FORMER FDA
21 COMMISSIONER ABOUT THE IMPORTANCE OF POST-MARKETING
22 SURVEILLANCE, AGAIN, FOR CELL AND GENE THERAPIES.

23 SO IT'S SORT OF REASSURING FROM A MEDICAL
24 AFFAIRS STANDPOINT BECAUSE WE'RE TRYING TO PREDICT
25 TO SOME EXTENT WHAT THIS ROADMAP IS GOING TO LOOK

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1 LIKE IN THE THREE- TO FIVE-YEAR PROJECTIONS. AND AT
2 THE SAME TIME, I THINK J.T. MENTIONED DURING OUR
3 COMMUNITY CARE CENTERS OF EXCELLENCE THAT ALL OF
4 THIS DATA IS HAPPENING REAL-TIME. THE PAYER SIDE IS
5 HAPPENING IN REAL TIME, ACCESS AND AFFORDABILITY
6 SORT OF HAPPENING REAL-TIME. SO THERE'S NO REAL
7 BENCHMARK THAT WE CAN LOOK AT FOR TRYING TO PREDICT
8 WHAT WE CAN PUT IN PLAY FROM AN ACCESS AND
9 AFFORDABILITY STANDPOINT MOVING FORWARD IN THE NEXT
10 THREE TO FIVE YEARS.

11 SO TODAY'S FOCUS, AND I KNOW ALL OF YOU
12 ARE TERRIBLY BUSY, TRY TO KEEP THIS CONCISE, IS, AS
13 BONNEVILLE MENTIONED, USE RARE DISEASE AS A USE CASE
14 FOR DISCUSSION OF THE ROADMAP TO ACCESS AND
15 AFFORDABILITY. AND AS BONNEVILLE MENTIONED, WHY IS
16 THAT THE CASE? WELL, APPROXIMATELY HALF, ACTUALLY
17 EXACTLY 53 PERCENT OF CIRM'S PORTFOLIO IS IN THE
18 RARE DISEASE SPACE AND ADVANCING TO LATER
19 DEVELOPMENT CLINICAL STAGES IN THE CLINIC.

20 SO STARTING TO TAKE AWARE OF HOW THESE ARE
21 PROGRESSING THROUGH THE CLINIC. MANY OF YOU ARE
22 FAMILIAR WITH THE RARE DISEASE LANDSCAPE. THERE ARE
23 APPROXIMATELY 7,000 RARE DISEASES IN THE UNITED
24 STATES AFFECTING AN ESTIMATED 25 TO 30 MILLION
25 PEOPLE OF WHICH 50 PERCENT ARE IN THE PEDE SPACE OR

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1 CHILDREN. SO CUMULATIVELY A BIG IMPACT FACTOR FOR
2 RARE DISEASES.

3 SO TO GIVE YOU AN IDEA OF THE THERAPEUTIC
4 AREAS THAT CIRM HAS INVESTED IN, THIS IS A SLIDE
5 THAT SHOWS THE ACTIVE CLINICAL TRIAL PORTFOLIO IN
6 THE RARE DISEASE SPACE. SO WE CURRENTLY HAVE 26
7 ACTIVE CLINICAL TRIALS. OF THOSE 26, 46 PERCENT ARE
8 IN THE HEMATOLOGICAL SPACE. SICKLE CELL IS SORT OF
9 ON THE BORDERLINE OF, QUITE FRANKLY, A RARE DISEASE
10 THAT HAS A HIGH INCIDENCE AND PREVALENCE IN THE
11 UNITED STATES AND EVEN GLOBALLY, BUT THERE ARE A
12 NUMBER OF OTHER HEMATOLOGICAL CONDITIONS HERE THAT
13 ARE IN OUR PORTFOLIO, MANY OF WHICH HAVE ABSOLUTELY
14 NO ALTERNATIVE TREATMENT OPTIONS.

15 SO YOU THINK ABOUT THE INVESTMENTS THAT
16 CIRM MADE IN MAKING AN IMPACT OR POTENTIALLY MAKING
17 AN IMPACT IN THIS RARE DISEASE SPACE IS ACTUALLY
18 QUITE IMPRESSIVE.

19 31 PERCENT OF THE PORTFOLIO IS IN THE
20 NEUROLOGICAL SPACE. WE THINK ABOUT AML, SPINA
21 BIFIDA, ONCOLOGY, AND THE BRAIN, BRAIN CANCERS, AND,
22 JUST TO DATE MYSELF, MUCOPOLYSACCHARIDOSIS 1, WHICH
23 IS HURLER SYNDROME. I ACTUALLY WAS INVOLVED WITH
24 THE FIRST ENZYME REPLACEMENT THERAPY FOR THE LAUNCH
25 OF A THERAPY FOR THAT MPS DISEASE, WHICH IS A

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1 DIFFICULT, GUT-WRENCHING DISEASE THAT HAS MADE A LOT
2 OF HEADWAY FROM A SCIENTIFIC AND THERAPEUTIC
3 STANDPOINT.

4 8 PERCENT ARE IN THE BLOOD CANCERS, YOU
5 THINK ABOUT AML TRANSPLANTATION; 4 PERCENT IN THE
6 MUSCULOSKELETAL AREA; 8 PERCENT IN OCULAR; AND ALSO
7 4 PERCENT IN THE RENAL CYSTINOSIS. THIS SLIDE WAS
8 PRESENTED TO US OR PROVIDED BY ABLA AND HER TEAM. I
9 WANT TO THANK HER TEAM FOR PUTTING THIS TOGETHER.
10 WHEN YOU THINK ABOUT RARE DISEASES, THIS AFFECTS
11 CHILDREN AND ADULTS. WE ARE UTILIZING
12 STATE-OF-THE-ART TECHNOLOGIES. AND, AGAIN, WHEN WE
13 START THINKING ABOUT ADVANCING TOWARDS REGISTRATION,
14 WE HAVE 20 TRIALS RIGHT NOW THAT ARE IN PHASE 1,
15 FIVE TRIALS THAT ARE IN PHASE 1 AND 2, AND ONE
16 THAT'S IN PHASE 2. AND, AGAIN, 26 ACTIVE CLINICAL
17 TRIALS IN THE RARE DISEASE SPACE, AND THIS IS AS OF
18 2/27/2023.

19 SO THIS IS A TABLE LISTING THE ACTIVE RARE
20 DISEASE GRANTS WITH ACCELERATED DESIGNATION. SO
21 THIS IS IMPORTANT. ONE, WE LIST, JUST WALKING YOU
22 THROUGH THIS TABLE, THE CLINICAL PHASE, WHICH I
23 MENTIONED EARLIER WITH ACCELERATE DESIGNATIONS, WE
24 HAVE A NUMBER OF TRIALS, AGAIN, PHASE 1, 1 AND 2
25 COMBINED. THE DISEASE AREA WITH RESPECT TO MOSTLY

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1 IN THE HEMATOLOGICAL AREA, WE HAVE ONE IN LEUCOCYTE
2 ADHESION DEFICIENCY 1 DISORDER AND, AGAIN, A NUMBER
3 IN THE SCID THERAPEUTIC AREA.

4 THESE ARE THE INVESTIGATORS THAT MANY OF
5 US HAVE BECOME FAMILIAR WITH. THE INSTITUTIONS, NOW
6 THIS IS IMPORTANT. SO SOME OF THESE ARE BEING RUN
7 NOT ONLY BY PUBLIC INSTITUTIONS, BUT ALSO PRIVATE
8 INSTITUTIONS ON THE BIOTECH SIDE. AND MORE
9 IMPORTANTLY, THE FDA DESIGNATION. SO WE HAVE FDA
10 ACCELERATED DESIGNATION UNDER RMAT FOR FOUR OF
11 THESE, INCLUDING A BREAKTHROUGH DESIGNATION WHICH
12 ACCELERATES NOT ONLY THE DISCUSSION WITH THE FDA,
13 BUT ALSO COMMERCIALIZATION POTENTIAL IF, IN FACT,
14 THE DATA READS OUT AS POSITIVE.

15 SO I THINK IT'S IMPORTANT TO PAUSE HERE
16 JUST TO PROVIDE SOME FEEDBACK. ONE, MANY STUDIES IN
17 RARE DISEASE, AND THERE'S PRECEDENCE FOR THIS, CAN
18 BE APPROVED WITH PHASE 1, PHASE 2 DATA WITH
19 CONFIRMATORY TRIALS THEREAFTER. SO WHEN WE START
20 THINKING ABOUT OPTICS ON THESE TRIALS, IT'S
21 IMPORTANT TO PREPARE THINKING ABOUT THE DATA READOUT
22 AND, MORE IMPORTANTLY, SORT OF THE INFRASTRUCTURE
23 THAT'S GOING TO BE REQUIRED TO SUPPORT THE
24 COMMERCIALIZATION OF THESE THERAPIES.

25 GENERALLY, IN MY EXPERIENCE, IT TAKES

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1 ABOUT ONE TO TWO YEARS, MINIMUM OF ONE, MAYBE TWO
2 YEARS TO PREPARE ALL OF THE INFRASTRUCTURE THAT'S
3 REQUIRED TO GET DRUGS TO PATIENTS ONCE YOU GET FDA
4 APPROVAL. ONE OF THE THINGS I'D LIKE TO PRESENT TO
5 THE AAWG MAYBE MOVING FORWARD IS A COMMERCIAL LAUNCH
6 STRATEGY. WHAT DOES THAT LOOK LIKE? AND SORT OF
7 THE HIGH END COMPONENTS OF EVERYTHING THAT NEEDS TO
8 BE PUT IN PLAY TO SUPPORT ALL THE WAY FROM
9 MANUFACTURING, DISTRIBUTION, PROVIDING A SAFE AND
10 EFFECTIVE USE OF THE DRUG, AND, MORE IMPORTANTLY,
11 WHICH WE'LL TALK ABOUT IN A FEW MINUTES, IS THE
12 POST-MARKETING SURVEILLANCE.

13 SO CIRM IS STRATEGICALLY ALIGNED WITH THE
14 FDA AND NIH WITH RESPECT TO THE FOCUS ON RARE
15 DISEASE. JUST GIVE YOU A COUPLE OF EXAMPLES. ONE,
16 CERTAINLY ALIGNED WITH THE CENTER FOR BIOLOGICAL
17 EVALUATION, RESEARCH THAT CBER WHICH EVALUATES ALL
18 CELL AND GENE THERAPY SUBMISSIONS. THEY ARE
19 EXPANDING OR POTENTIALLY EXPANDING THEIR RARE
20 DISEASE WITH WHAT'S CALLED THE OPERATION WARP SPEED
21 FOR CELL AND GENE THERAPIES. WE'RE OBVIOUSLY
22 ALIGNED WITH CDER, WHO'S BEEN AN HEAVY HITTER, OF
23 COURSE, ON THE SMALL MOLECULE SIDE WITH RESPECT TO
24 RARE DISEASES. THERE'S A NEW INITIATIVE, AND
25 THERE'S MORE INITIATIVES TO INCREASE THE SIZE OF

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1 CDER TO APPROACH MORE NOVEL WAYS OF BRINGING RARE
2 DISEASES OR AT LEAST THERAPIES TO RARE DISEASE
3 POPULATIONS. AND MORE IMPORTANTLY, AS I'VE LEARNED
4 RECENTLY, CIRM HAS JOINED THE ACCELERATING MEDICINES
5 PARTNERSHIP. THIS IS A COLLABORATION, OF COURSE,
6 THROUGH THE BESPOKE GENE THERAPY CONSORTIUM. THIS
7 INCLUDES ABLA AND HER TEAM, OF COURSE, AND SHYAM.
8 THIS IS A PUBLIC/PRIVATE PARTNERSHIP BETWEEN THE
9 NIH, FDA, AND MULTIPLE PUBLIC AND PRIVATE
10 ORGANIZATIONS.

11 POINT OF THIS SLIDE IS TO JUST SAY, HEY,
12 LOOK. WE ARE ALIGNED WITH SOME PRETTY HEAVY HITTERS
13 OUT THERE THAT ARE REALLY PUTTING A LOT OF EMPHASIS
14 IN THE RARE DISEASE SPACE.

15 NOW, THE DELIVERY FOR THERAPIES FOR RARE
16 DISEASE HAS BEEN UNIQUELY CHALLENGING. AND THERE
17 ARE A NUMBER OF COMPONENTS TO A LAUNCH MECHANISM, IF
18 YOU WILL. THERE'S CHALLENGES ON THE CLINICAL SIDE.
19 MANY OF THE CLINICIANS HERE PROBABLY WOULD CONCUR
20 THAT, ONCE THEY ARE EXPOSED TO A RARE DISEASE, ONE,
21 THERE'S NOT A LOT OF INFORMATION THAT'S OUT THERE
22 ABOUT THE DISEASE. THERE'S DIFFICULTY UNDERSTANDING
23 SORT OF THE ENDPOINTS IF YOU WANT TO THINK ABOUT
24 FROM A REGULATORY STANDPOINT. I DON'T WANT TO GO
25 THROUGH ALL THESE. I WANT TO TOUCH ON A COUPLE OF

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1 THINGS BECAUSE IT'S IMPORTANT WITH RESPECT TO CIRM'S
2 FIVE-YEAR STRATEGIC PLAN. IF YOU THINK ABOUT CROSS
3 FUNCTIONALLY OF ALL THE DEPARTMENTS, EACH DEPARTMENT
4 IS PROPOSING OR EVEN IMPLEMENTING MECHANISMS RIGHT
5 NOW THAT COULD FOR THE MOST PART HELP LIFT AND
6 PROVIDE THE OPPORTUNITY FOR A SUCCESSFUL LAUNCH.
7 AND EVEN IF YOU THINK ABOUT ACCESS AND AFFORDABILITY
8 TO PATIENTS OUT THERE WHO A WAITING FOR THE
9 COMMERCIALIZATION OF SOME OF THESE THERAPIES.

10 SO DATA GENERATION HAS ALWAYS BEEN
11 DIFFICULT IN THE RARE DISEASE SPACE. LIMITED NUMBER
12 OF PATIENTS. IF YOU THINK ABOUT PATIENT REGISTRIES,
13 THAT'S A GREAT OPPORTUNITY FOR US TO CONSIDER ON THE
14 ROADMAP ON THE RARE DISEASE SIDE. WE'LL TALK ABOUT
15 THAT IN A FEW MINUTES. MANUFACTURING, CERTAINLY NOT
16 MY AREA OF EXPERTISE. SHYAM COULD PROBABLY PROVIDE
17 A NUMBER OF LECTURES, BUT THERE ARE OBVIOUSLY
18 CHALLENGES FROM TAKING CLINICAL SCALE TO COMMERCIAL
19 SCALE, CMC CONSIDERATIONS. OF COURSE, WE HAVE A
20 NUMBER OF MANUFACTURING INITIATIVES ON THE STATE
21 THAT COULD HELP LIFT SOME OF THOSE HURDLES.

22 REGULATORY, IT'S BECOMING MUCH BETTER. I
23 THINK IN MY EXPERIENCE IN THE PAST, IT WAS DIFFICULT
24 TO UNDERSTAND WHAT THE STANDARDS FOR APPROVAL WERE,
25 WHAT THOSE PRIMARY AND SECONDARY ENDPOINTS WERE

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1 GOING TO BE. I THINK THAT'S GOTTEN MUCH BETTER OVER
2 TIME. IN FACT, WE HAVE A COLLEAGUE WHO IS IN THE
3 INDUSTRY WHO DOES HAVE DIRECT INTERACTION ON THE
4 POLICY SIDE AND ON THE CLINICAL SIDE, WHO HAPPENS TO
5 A CEO OF A BIOTECH COMPANY THAT IS NOW IN
6 DISCUSSIONS, AND HOPEFULLY WE'LL BE ABLE TO WORK
7 WITH THEM OR CONSIDERATION OF WORKING WITH THEM,
8 BIOMARKERS, EARLY BIOMARKERS, SURROGATE BIOMARKERS
9 THAT CAN BE USED FOR PRIMARY AND SECONDARY
10 ENDPOINTS. AND I'M SURE ABLA AND HER TEAM COULD
11 SPEAK AT LENGTH ON THAT TOPIC.

12 THE AREA THAT I WANT US TO CONSIDER TODAY,
13 WHICH, AGAIN, CAN BE PART OF THE ROADMAP,
14 PARTICULARLY FOR RARE DISEASES, IS THE
15 POST-MARKETING REQUIREMENTS. AND THE COMBINATION OF
16 NOT ONLY THE POST-MARKETING REQUIREMENTS, BUT ALSO
17 NOW THE PAYER REIMBURSEMENT. SO HERE'S WHAT'S
18 HAPPENING REAL-TIME. IT'S QUITE INTERESTING.

19 POST-MARKETING IS NOT NEW. THOSE MANDATES
20 HAVE BEEN REQUIRED FOR MANY ACCELERATED THERAPIES,
21 WHETHER IT'S SMALL MOLECULE OR EVEN CELL AND GENE
22 THERAPY. WHAT'S INTERESTING NOW IS THE
23 POST-MARKETING SURVEILLANCE HAS BECOME SO CRITICAL,
24 AND I'LL TALK ABOUT THIS IN A FEW MINUTES. THE
25 PAYER INFORMATION THAT IS COMING OUT OF THAT

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1 CLINICAL DATASET ON THE POST-MARKETING SIDE IS
2 ABSOLUTELY CRITICAL FOR REIMBURSEMENT TO THE PUBLIC
3 AND PRIVATE PAYERS. SO MANUFACTURERS ARE ABSOLUTELY
4 DEPENDENT AND GEARING UP RIGHT NOW TO SET UP THESE
5 SYSTEMS THAT ARE ROBUST TO SUPPORT THE
6 POST-MARKETING REQUIREMENTS FOR THE FDA AND, MORE
7 IMPORTANTLY, THE REQUIREMENTS FROM A PAYER
8 LANDSCAPE, AND THAT'S SOMETHING THAT'S NEW.

9 SO WHY POST-MARKETING COMMITMENTS ARE
10 IMPORTANT. AGAIN, PER FDA, ALL COMMERCIALY
11 APPROVED CELL AND GENE THERAPIES REQUIRE THE
12 MANUFACTURER TO OVERSEE POST-MARKETING COMMITMENTS
13 FOR UP TO 15 YEARS. AND THAT'S A BIG ASK. THAT'S A
14 BIG ASK FOR SMALL BIOTECH, AND IT'S CERTAINLY A BIG
15 ASK FOR POTENTIAL ACADEMIC INSTITUTIONS WHO DO WANT
16 TO FILE A BLA.

17 IN ADDITION, AS I MENTIONED EARLIER,
18 MANDATED SAFETY REPORTING FOR MANY OF THE
19 POST-MARKETING TRIALS. POST-MARKETING DATA HAS
20 BECOME INSTRUMENTAL FOR REIMBURSEMENT THROUGH THE
21 VALUE-BASED AGREEMENTS WITH PAYERS. AND MANY OF YOU
22 ON THE AAWG HAVE EXPERIENCE WITH THIS. I THINK I
23 MENTIONED IN OUR PREVIOUS DISCUSSIONS ABOUT WHAT
24 THOSE VALUE-BASED AGREEMENTS LOOK LIKE. AGAIN, THEY
25 ARE SORT OF PROPRIETARY. THEY ARE. WE'RE GETTING

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1 INTEL ON A DAILY BASIS IN TERMS OF WHAT THAT'S GOING
2 TO LOOK LIKE. AND, AGAIN, HOW THIS FEEDS INTO THE
3 IMPORTANCE OF THE POST-MARKETING SURVEILLANCE.

4 ANOTHER THING WE NEED TO THINK ABOUT, AND
5 I'LL THROW IT OUT THERE, IS THE PATIENT JOURNEY. WE
6 TALKED ABOUT THIS DURING THE PATIENT SUPPORT PROGRAM
7 AND THE INFRASTRUCTURE THAT'S NEEDED JUST TO GET
8 THEM THROUGH THE CLINICAL TRIALS. NOW THERE'S
9 ANOTHER COMPONENT THAT CIRM SHOULD CONSIDER, AAWG,
10 IS WHAT'S THAT LIFT FROM A PATIENT SUPPORT
11 STANDPOINT? MORE IMPORTANTLY, THE PATIENT JOURNEY
12 IN THE POST-MARKETING LANDSCAPE. SO, AGAIN, ALL OF
13 THIS IS SORT OF HAPPENING REAL-TIME. THERE'S SOME
14 REALLY GOOD WHITE PAPERS I CAN DISSEMINATE LATER OF
15 THEORETICAL OPPORTUNITIES FOR WHERE THERE CAN
16 SUSTAINABILITY IN THE SPACE.

17 THIS IS SORT OF A HEAVY SLIDE. THIS SLIDE
18 SORT OF ADDRESSES COMPONENTS OF OUR FIVE-YEAR
19 STRATEGIC PLAN. SO UNDER MEDICAL AFFAIRS, WE ARE
20 LOOKING TO IMPLEMENT, NOT ONLY REAL-WORLD DATA, BUT
21 ALSO HEALTH ECONOMICS OUTCOMES AND RESEARCH. SO
22 THERE'S AN OPPORTUNITY FOR US HERE TO CONSIDER A
23 POTENTIAL FUNDING MECHANISM FOR OUR AWARDEES ON THE
24 POST-MARKETING SURVEILLANCE. AND WE CAN TALK ABOUT
25 THIS IN A FEW MINUTES IN MORE DETAIL. BUT THERE ARE

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1 A NUMBER OF ADDITIONAL OPPORTUNITIES THAT WE CAN
2 THINK THROUGH. AND THAT IS BRIDGING THE GAP TO
3 REAL-WORLD DATA.

4 SO I DON'T THINK IT'S ANY SURPRISE TO THE
5 AAWG, BUT WE DON'T HAVE ACCESS TO A LOT OF DATA. SO
6 THIS COULD BE A BRIDGE POTENTIALLY IF IT'S ENDORSED
7 IN THE ROADMAP WHERE WE CAN START BUILDING THE
8 INFRASTRUCTURE FOR, NOT ONLY THE REAL-WORLD DATA,
9 BUT ACTUALLY THE HEOR, THE HEALTH ECONOMICS OUTCOMES
10 AND RESEARCH COMPONENT.

11 SO I JUST WANTED TO SHARE THIS SLIDE THAT
12 WE ARE THINKING THROUGH NOT ONLY THE OPPORTUNITIES
13 FROM A PATIENT SUPPORT STANDPOINT -- EXCUSE ME --
14 FROM A SURVEILLANCE STANDPOINT, REAL-WORLD DATA
15 RESEARCH TO DETERMINE THE GREATEST IMPACT OF
16 SPECIFIC POPULATIONS WITHIN THAT DATASET, AND, MORE
17 IMPORTANTLY, THE REIMBURSEMENT STRUCTURE
18 INFRASTRUCTURE.

19 NOW, ALSO WHAT'S INTERESTING, YESTERDAY WE
20 HAD OUR STEERING COMMITTEE FOR THE ALPHA CLINICS.
21 AND I SURE HOPE NOBODY TEED ANYBODY UP, BUT VERY
22 FIRST CONVERSATION WAS REALLY ABOUT POST-MARKETING
23 SURVEILLANCE. AND ALREADY MANY OF THE ACADEMIC
24 INSTITUTIONS ARE STARTING TO THINK THROUGH THAT
25 PROCESS FROM A PHARMOCOVIGILANCE STANDPOINT, WHAT

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1 THE OPERATIONS THAT ARE GOING TO BE NEEDED TO
2 SUPPORT THIS ENTIRE MECHANISM.

3 SO, AGAIN, THIS SLIDE JUST SHOWS YOU SORT
4 OF WHAT WE ARE THINKING THROUGH ON THAT PHASE IV
5 LONGITUDINAL, THE OPPORTUNITIES, AND SOME OF THE
6 INDUSTRY STANDARD, PAYER STANDARDS, SORT OF METRICS
7 THAT ARE REQUIRED AND ANALYSES FROM A POST-MARKETING
8 STANDPOINT.

9 LET ME PAUSE RIGHT NOW BECAUSE I KNOW
10 THERE'S A COUPLE HANDS THAT HAVE COME UP. I KNOW
11 I'M MOVING VERY QUICKLY. BUT, FIRST, IF IT'S OKAY,
12 LET ME TAKE A COUPLE QUESTIONS AT THIS TIME.

13 VICE CHAIR BONNEVILLE: AMMAR HAS HIS HAND
14 RAISED.

15 DR. QADAN: THANK YOU, SEAN. THIS IS
16 REALLY GREAT TO SEE. I THINK IT WAS TWO MEETINGS
17 AGO WHEN ABLA PRESENTED THE CLINICAL TRIAL PROGRAM.
18 I ASKED THE QUESTION AROUND HOW WE ARE GATHERING
19 SOME OF THAT DATA, ESPECIALLY FOR HEALTH ECONOMICS
20 AND OUTCOMES RESEARCH. AND I REMEMBER SHE SAID IN
21 ALL OF THOSE STUDIES WE'RE USING A THIRD PARTY TO
22 COLLECT THAT DATA.

23 SO TO THAT, MAYBE NOW, IF WE THINK WE WANT
24 FOCUS ON POST-MARKETING CONSIDERATIONS FOR THE SAME
25 REASON, IS THERE A POSSIBILITY OF HAVING LIKE

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1 EXPERTISE, LIKE HEALTH ECONOMICS AND OUTCOMES
2 RESEARCH HEAD COUNT, WHO COULD BE PART OF THE TEAM
3 AND OVERSEE ALL OF THOSE THINGS SO THAT WE CAN HAVE
4 AT LEAST A CENTRAL RESOURCE FOR ALL OF THAT? THANK
5 YOU.

6 DR. TURBEVILLE: LET ME RESPOND. GOOD
7 QUESTION. SO WE HAVE BEEN THINKING THROUGH -- WE'RE
8 ONE YEAR DEEP INTO MEDICAL AFFAIRS. BUT THE ANSWER
9 IS WE CAN DO THIS, THROUGH AAWG'S RECOMMENDATION, WE
10 COULD DO THIS TWO WAYS. ONE IS POTENTIALLY BRINGING
11 IT IN-HOUSE WITH AN FTE THAT'S GOT THE EXPERIENCE ON
12 NOT ONLY REAL-WORLD DATA, BUT HEOR AND POTENTIALLY A
13 COMBINATION OF EVEN A CONSULTANT AS WELL.

14 SO THIS IS ONE OF THE HEAD COUNTS THAT
15 MARIA MILLAN AND I DISCUSSED THAT IS NEEDED,
16 PARTICULARLY ALL THE ENERGY THAT'S GOING INTO THIS
17 RIGHT NOW. AND IT IS A GREAT OPPORTUNITY FOR US TO
18 BRIDGE THE GAP TO ALL THOSE DATASETS POTENTIALLY.

19 I KNOW MANY OF YOU WORK IN THIS SPACE ON
20 THE BIG DATA. THERE ARE LOTS OF DATASETS OUT THERE
21 THAT WE HAVEN'T EVEN TAPPED INTO THAT ARE AN
22 OPPORTUNITY FOR THE AAWG TO CONSIDER FROM A ROADMAP
23 PERSPECTIVE. THANK YOU FOR THAT QUESTION.

24 VICE CHAIR BONNEVILLE: SCOTT, DID YOU
25 WANT TO SAY SOMETHING?

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1 MR. TOCHER: SURE. THANKS. SORRY TO
2 INTERRUPT. JUST WITH THE UPDATED DIAL-IN
3 INFORMATION, JUST WANTED TO DRAW THE PUBLIC'S
4 ATTENTION IF THERE'S ANY PUBLIC THAT WANTS TO
5 PARTICIPATE DURING THE PUBLIC COMMENT SESSION, WE
6 HAVE UPDATED THAT CONTACT INFORMATION ON THE AGENDA
7 ON THE WEBSITE. SO BE SURE AND UPDATE THAT
8 INFORMATION, AND WE'LL WELCOME YOUR PUBLIC COMMENT.
9 THANKS, MARIA.

10 DR. TURBEVILLE: THANK YOU, SCOTT.

11 VICE CHAIR BONNEVILLE: ARE THERE ANY
12 OTHER QUESTIONS FROM THE GROUP? OKAY, SEAN. YOU
13 WANT TO CONTINUE.

14 DR. TURBEVILLE: ALL RIGHT. THANK YOU.

15 SO I KNOW THIS IS SORT OF A TRICKY
16 PRESENTATION SINCE WE ARE TRYING TO PRESENT AN
17 OPPORTUNITY HERE, AND THERE'S LOT OF GRANULARITIES
18 WHEN IT COMES TO POST-MARKETING SURVEILLANCE. I DO
19 WANT TO FINALIZE WITH A COUPLE SLIDES AND THEN
20 REALLY OPEN IT UP FOR DISCUSSION. LIKE TO GET THE
21 INPUT FROM THE AAWG ALL THE WAY FROM THE CLINICAL
22 SIDE AND, OF COURSE, THE PATIENT ADVOCACY SIDE
23 REALLY FROM A PATIENT JOURNEY STANDPOINT, SEE WHERE
24 ALL THESE PATIENTS ARE GOING THROUGH THE ENTIRE
25 JOURNEY.

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1 SO WHY IT'S IMPORTANT TO POTENTIALLY FUND
2 POST-MARKETING COMMITMENTS FOR CIRM PROGRAMS. SO
3 WHAT I MENTIONED EARLIER IS WE HAVE THE OPPORTUNITY
4 FOR REAL-WORLD EVIDENCE IS PLAYING AN INCREASING
5 ROLE IN HEALTHCARE DECISION. IT PROVIDES CLINICAL
6 EVIDENCE REGARDING THE USAGE, THE BENEFITS, AND
7 RISKS OF A MEDICAL PRODUCT.

8 THE SECOND, OF COURSE, IS THE HEALTH
9 ECONOMICS AND OUTCOMES RESEARCH, AGAIN, GENERATES
10 THE EVIDENCE FOR THE VALUE OF NEW THERAPY FOR
11 REIMBURSEMENT AND HEALTHCARE PAYERS.

12 SO THIS IS ONE COMPONENT THAT WE WERE
13 THINKING THROUGH FROM THE MEDICAL AFFAIRS STANDPOINT
14 THAT WE WOULD LIKE TO GET INPUT OF POTENTIALLY
15 INCLUDING THIS IN THE ROADMAP. NOT ONLY GIVEN THE
16 IMPORTANCE OF THE POST-MARKETING SURVEILLANCE,
17 THERE'S A NUMBER OF OPPORTUNITIES HERE THAT SORT OF
18 OVERLAP.

19 ONE, WE'VE GOT AN EXPANSION OF THE ALPHA
20 CLINICS, AND IT WAS CONFIRMED YESTERDAY THAT THEY'RE
21 THINKING THROUGH THIS AS WELL.

22 TWO, IF YOU THINK ABOUT TRUE ACCESS AND
23 AFFORDABILITY, THINK ABOUT THE COMMUNITY CARE
24 CENTERS OF EXCELLENCE THAT WE'RE TRYING TO PUT OUT
25 THERE, RIGHT. WE'RE AHEAD OF SCHEDULE WITH THAT.

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1 WE JUST HAD OUR THIRD LISTENING SESSION, WHICH WE'LL
2 GET A DEBRIEF MAYBE IN THE NEXT MEETING, BUT HOW CAN
3 THEY SORT OF POSITION THEMSELVES TO BE ABLE TO
4 PARTICIPATE IN THE POST-MARKETING REQUIREMENTS FOR
5 THE PATIENTS. THESE ARE BIG ASKS. IF YOU THINK
6 ABOUT THE NUMBER OF SICKLE CELL PATIENTS THAT ARE
7 GOING TO BE REQUIRED TO GO THROUGH POST-MARKETING,
8 REALLY DIFFICULT TO GET ALL THE PATIENTS TO THE
9 CENTERS OF EXCELLENCE. AND SO THIS TIES IN NICELY
10 WITH OUR VISION OF WHAT THE COMMUNITY CARE CENTERS
11 OF EXCELLENCE, WHAT ARE THOSE DELIVERABLES THAT THEY
12 CAN PROVIDE FOR PATIENTS AND ALSO ON THE CLINICAL
13 SIDE.

14 AND, AGAIN, JUST TO REITERATE, IT GIVES US
15 THAT FOUNDATION POTENTIALLY TO BUILD THAT REAL-WORLD
16 EVIDENCE AND HEOR. AND SO BEFORE I OPEN IT FOR
17 QUESTIONS AND COMMENTS, I DO WANT TO JUST FOR THIS
18 SLIDE GIVE A SUMMARY OF THE ACCESS AND AFFORDABILITY
19 TOPICS THAT WE TALKED ABOUT SO FAR. SO BACK IN THE
20 DAY, WE TALKED ABOUT, AND WE CONTINUE, ON THE
21 PATIENT SUPPORT SERVICE MODEL. AND I WOULD EVEN
22 ARGUE NOW THAT PATIENT SUPPORT SERVICES IS EVEN MORE
23 IMPORTANT BECAUSE NOW THEY'RE TAKING PATIENTS TO
24 THAT POST-MARKETING STUDY AS WELL.

25 WE TALKED ABOUT NEW PAYER MODELS IN THE

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1 PAST, THE VALUE-BASED AGREEMENTS. THERE'S A NUMBER
2 OF THEM, VERY TECHNICAL. AND, OF COURSE, THOSE ARE
3 PROPRIETARY WITH PAYERS, BUT THOSE ARE ABSOLUTELY
4 INSTRUMENTAL. IT'S SOMETHING THAT, IF, IN FACT, ANY
5 OF OUR ASSETS GO TO MARKET AUTHORIZATION, IT'S
6 SOMETHING THAT EITHER THE MARKETING AUTHORIZATION
7 HOLDER WILL HAVE TO DEAL WITH OR POTENTIALLY WE CAN
8 PROVIDE SOME GUIDANCE.

9 WE TALKED LAST WEEK OR MAYBE THE LAST
10 PRESENTATION ABOUT INPATIENT TO OUTPATIENT SETTING,
11 PARTICULARLY ON THE CAR-T SIDE. HARLAN PROVIDED
12 GREAT GUIDANCE ON THIS. THERE IS A RACE TO GET OUT
13 THERE TO THE COMMUNITY.

14 WE TALKED, BRIEFLY DISCUSSED A LITTLE BIT
15 ABOUT STATE AND FEDERAL POLICY. WE CAN GO INTO MUCH
16 MORE DETAIL. IN FACT, WE'RE DOING SOME MORE DUE
17 DILIGENCE ON THAT LANDSCAPE, BUT CERTAINLY THE
18 CALIFORNIA CARE EQUITY ACT IS SOMETHING THAT WE CAN
19 CERTAINLY REVISIT THAT WOULD HAVE A DIRECT IMPACT
20 FOR PATIENTS.

21 WE HAVE THE EXPANSION OF THE ALPHA CLINICS
22 THAT'S JUST TAKEN PLACE. AND NOW WE ARE STARTING TO
23 THINK THROUGH THAT CONCEPT PLAN FOR THE COMMUNITY
24 CARE CENTERS OF EXCELLENCE.

25 THIS DISCUSSION SORT OF TEES UP THAT

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1 REAL-WORLD DATA AND THE OPPORTUNITY TO THINK ABOUT A
2 FUNDING MECHANISM, NOT ONLY IN RARE DISEASE, BUT
3 OUTSIDE OF RARE DISEASE, FOR REAL-WORLD DATA IN THAT
4 POST-MARKETING SURVEILLANCE. AGAIN, THIS TIES INTO
5 THE HEALTH ECONOMICS AND RESEARCH THAT WE ARE
6 LOOKING FORWARD TO PUTTING IN PLAY HERE FROM A
7 MEDICAL AFFAIRS STANDPOINT.

8 AND THEN, FINALLY, WE HAVE ONE MORE
9 PRESENTATION BEFORE I OPEN IT UP FOR DISCUSSION AND
10 COMMENTS. AND THAT IS A FASCINATING SPACE THAT
11 ALSO, AS J.T. MENTIONED, IS EVOLVING REAL-TIME. AND
12 THAT'S THE COVERAGE ANALYSIS, ACCESS AND APPEALS,
13 THE COPAYS, AND THE RISK POOLS. I KNOW THAT'S A
14 LOT, BUT WE ARE TRYING TO JUST TEE UP THE NEXT
15 PRESENTATION THAT I THINK IS GOING TO BE IMPORTANT
16 WHEN WE THINK ABOUT LOCKING DOWN OUR ACCESS AND
17 AFFORDABILITY ROADMAP TO BE PRESENTED, AGAIN, TO THE
18 AAWG AND THEN TO HOPEFULLY THE ICOC FOR A BLESSING
19 FOR POTENTIAL FUNDING MECHANISMS.

20 SO WITH THAT, I KNOW THAT'S A LOT OF
21 INFORMATION, BUT I WANT TO PAUSE HERE. WANT TO
22 THANK YOU. AND OPEN THIS UP FOR DISCUSSION FOR ALL
23 OUR CROSS-FUNCTIONAL COLLEAGUES.

24 VICE CHAIR BONNEVILLE: TED HAS HIS HAND
25 RAISED.

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1 DR. GOLDSTEIN: THANKS. SO I THINK THIS
2 WAS A GOOD INTRODUCTION AND MAYBE FOR THE
3 PRESENTATION AFTER THAT BECAUSE I THINK THE PAYER
4 PRESENTATION IS A GREAT IDEA FOR THE NEXT
5 DISCUSSION. BUT ONE OF THE THINGS IS THERE'S SOME
6 PRAGMATICS ABOUT STEM CELL THERAPIES THAT MIGHT BE
7 USEFUL FOR US TO GET BRIEFED ON.

8 SO AS I UNDERSTAND IT, AND PLEASE, THERE
9 ARE PEOPLE ON THIS CALL WHO KNOW SO MUCH MORE ABOUT
10 IT THAN I TO CORRECT, THAT ESSENTIALLY WHAT WE'RE
11 DOING HERE IS PRECISION THERAPEUTICS WHERE WE ARE
12 LOOKING AT THE ACTUAL GENETIC MALFUNCTION THAT'S
13 CAUSING THESE RARE DISEASES IN MANY CASES. AND WE
14 HAVE THREE BROAD CATEGORIES OF THERAPIES,
15 THERAPEUTIC WAYS OF FIXING THE BROKEN CELLS, TO PUT
16 IT IN KIND OF LAYMAN'S LANGUAGE, A LENTIVIRAL VECTOR
17 MODIFICATION, A CRISPR MODIFICATION, OR A
18 MODIFICATION OR CREATING A GENERIC CELL THAT IS
19 PORTABLE TO MANY PEOPLE.

20 THE FIRST TWO THERAPIES, WE ARE TAKING THE
21 PATIENT'S OWN CELLS, MODIFYING THEM, AND PUTTING
22 THEM BACK. IN THE THIRD ONE, WE'RE TAKING THINGS
23 FROM A DONOR OR MANUFACTURED THROUGH SOME PROCESSES.
24 I BELIEVE THAT ONE OF THE REASONS WHY WE ARE BEING
25 ASKED TO DO THE KIND OF POST-MARKETING SURVEILLANCE

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1 IS WE DO NOT UNDERSTAND THE FULL IMPLICATIONS OF
2 THOSE THERAPIES, THAT THERE ARE THE SIDE EFFECTS
3 POSSIBLE, OFF-TARGET EFFECTS, AND SO ON. AND, OF
4 COURSE, THE NOVELTY OF THIS NEW CLASS OF THERAPY, WE
5 NEED TO LOOK DEEPER.

6 WOULD IT BE POSSIBLE FOR US TO GET PERHAPS
7 A MORE RIGOROUS DISCUSSION ABOUT THIS SO THAT WHEN
8 WE PROVIDE OUR FEEDBACK AND RECOMMENDATIONS, WE
9 UNDERSTAND WHICH OF THESE DIFFERENT CLINICAL TRIALS
10 THAT WE ARE SUPPORTING SHOULD BE FOCUSED ON SO THAT
11 WE CAN HELP DETERMINE WHAT ARE THE RIGHT
12 IMPLICATIONS SO THAT WE HAVE A BALANCED PORTFOLIO OR
13 WE ARE NOT. WE DECIDE TO FOCUS ON ONE AVENUE OF
14 THOSE THREE.

15 DR. TURBEVILLE: YEAH. VERY GOOD. WE
16 HAVE DONE DUE DILIGENCE ON ALL OF THE POST-MARKETING
17 REQUIREMENTS THAT HAVE TAKEN PLACE TO DATE FOR
18 APPROVED CELL AND GENE THERAPIES. WHAT I CAN DO
19 AFTER THIS PRESENTATION, IF IT'S OKAY WITH THE VICE
20 CHAIRMAN, IS SEND THAT OUT TO THE ENTIRE TEAM. IT
21 WAS ORIGINALLY IN THIS DISCUSSION, BUT I THOUGHT IT
22 WAS A LITTLE BIT TOO HEAVY. BUT, YEAH, I THINK THAT
23 WOULD BE A GOOD STARTING POINT JUST TO SEE WHAT THE
24 BENCHMARKS ARE NOW FOR CELL AND GENE THERAPIES THAT
25 HAVE BEEN APPROVED.

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1 DR. GOLDSTEIN: BUT ALSO TO UNDERSTAND
2 WHAT ARE THE CAUSES AND WHY, WHY CELL AND GENE
3 THERAPIES ARE DIFFERENT.

4 DR. TURBEVILLE: CERTAINLY. THERE'S A LOT
5 OF -- THAT'S REALLY -- I THINK YOU BRING UP A GREAT
6 POINT. THAT'S ONE OF MAIN MECHANISMS OF THE
7 POST-MARKETING SURVEILLANCE IS THAT LONG-TERM
8 SAFETY, EFFICACY, AND DURABILITY. YEAH, I HEAR YOU.
9 I THINK THAT MIGHT BE HELPFUL.

10 DR. GOLDSTEIN: THANK YOU.

11 VICE CHAIR BONNEVILLE: TED, WERE YOU
12 ASKING HOW IT RELATES, THEN, TO WHAT WE ARE
13 CURRENTLY FUNDING, WHAT THAT INTERSECTION IS?

14 DR. GOLDSTEIN: YES. THERE'S KIND OF A
15 SWEET SPOT IN TRADITIONAL DRUG THERAPIES, LARGE
16 ENOUGH MARKET AND ACCESSIBILITY AND SAFETY AND SO
17 ON. WE ARE NOT IN THAT SWEET SPOT. WE ARE
18 EXPANDING BEYOND THAT WITH THIS NEW CLASS OF
19 THERAPIES.

20 VICE CHAIR BONNEVILLE: THANKS, TED.
21 HARLAN.

22 DR. LEVINE: GOOD AFTERNOON. I HAVE
23 MOSTLY QUESTIONS, AND MAYBE THERE'S A COMMENT
24 INHERENT IN THE QUESTION. SO I THINK THESE ARE
25 BEING HELD SEPARATELY BECAUSE THE VOLUMES ARE SO LOW

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1 BEFORE APPROVAL AND THEY'RE SO TAILORED TO
2 INDIVIDUALS, THAT I THINK THERE'S JUST ADDED CONCERN
3 THAT, AS THE NUMBERS EXPAND AND WE GET
4 MORE -- THERE'S A BALANCE BETWEEN TRYING TO GET
5 SOMETHING TO MARKET FOR BENEFIT VERSUS TRYING TO
6 RECOGNIZE IN THESE RARE CONDITIONS OR PERSONALIZED
7 CONDITIONS THAT YOU CAN'T GET THE NUMBERS THAT YOU
8 GET FOR TRADITIONAL TRIALS. THEREFORE, THERE'S MORE
9 EMPHASIS ON POST-MARKETING OR POST-APPROVAL RECORD
10 COLLECTION.

11 SO, ANYWAY, THAT'S MY COMMENT THAT I HOPE
12 IS CORRECT AND COULD BE WRONG.

13 MY QUESTIONS FOR CONTEXT ARE, ONE, IF WE
14 DON'T GET INVOLVED IN THIS, HOW WOULD FUNDING OCCUR?
15 BECAUSE IT SEEMS LIKE POST-MARKETING, THERE'S A
16 MARKET OUT THERE THAT WOULD BE WILLING TO INVEST AND
17 DO THIS. SO THAT'S QUESTION NO. 1.

18 QUESTION NO. 2 IS IN JOE BIDEN'S BUDGET
19 THAT CAME OUT THIS WEEK, HE TALKED ABOUT GETTING
20 STRICTER ACROSS THE BOARD ON POST-MARKETING DATA
21 COLLECTION AND THAT THERE WOULD BE THINGS THAT WOULD
22 BE CONDITIONALLY APPROVED; BUT IF THE MARKETING
23 WASN'T DONE, THERE WOULD BE PENALTIES OR WITHDRAWAL
24 OF APPROVAL FOR PAYMENT. HOW DOES THAT RELATE TO
25 THIS TOPIC IF AT ALL? THAT'S WHERE --

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1 AND THEN MY THIRD COMMENT IS I'M NOT
2 EXPERT AT THIS EITHER. SO I'M SURE THERE'S A
3 THOUSAND OTHER QUESTIONS THIS GROUP SHOULD BE
4 CONSIDERING. WHAT ARE SOME OF THE OTHER
5 GEOPOLITICAL ISSUES THAT ONE MIGHT SAY THAT WE
6 SHOULD BE TAKING INTO ACCOUNT AS WE ARE THINKING
7 ABOUT WHAT CIRM'S RESPONSIBILITIES ARE?

8 DR. TURBEVILLE: LET ME SEE IF I CAN
9 PIECEMEAL EACH ONE OF THOSE. THANK YOU, HARLAN, FOR
10 THE QUESTIONS. ONE, YEAH. FOLKS ARE REALLY GEARING
11 UP. I THINK WE ARE INTERACTING OR JUST TRYING TO
12 GET AS MUCH INTEL AS POSSIBLE ABOUT THE NEED NOW TO
13 REALLY RAMP UP FROM THE POST-MARKETING SURVEILLANCE
14 SERVICES. AGAIN, IT'S BECOMING EVEN MORE CRITICAL
15 NOW BECAUSE THEY WERE NOT REALLY PREPARED FOR THE
16 REIMBURSEMENT DATA THAT'S SO CRITICAL THAT'S COMING
17 OUT OF THAT POST-MARKETING, AND THIS TIES INTO THE
18 SORT OF BIDEN DISCUSSION WHERE WE ARE NOW SEEING
19 LITERALLY IN THE LAST WEEK OR TWO HOW IMPORTANT THE
20 METHODOLOGY AND THE INFRASTRUCTURE THAT'S REQUIRED
21 FOR THESE POST-MARKETING TRIALS. IT IS WHAT IT IS.
22 AND THEY WANT ROBUST, METHODOLOGICALLY SOUND DATA,
23 AND HERE'S SORT OF WHERE WE MIGHT BE ABLE TO BRIDGE
24 THE GAP.

25 MANY SMALL BIOTECH COMPANIES, AND I'VE

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1 LAUNCHED A PHASE IV TRIAL, THEY ARE HEAVY. IT'S A
2 HEAVY ASK FROM A FINANCIAL AND FROM AN OPERATIONAL
3 STANDPOINT. AND IF WE THINK ABOUT EVEN THE ACADEMIC
4 INSTITUTIONS THAT ARE THINKING ABOUT TAKING THIS TO
5 A BLA, YOU REALLY HAVE TO START THINKING TO WHERE WE
6 MIGHT BE ABLE TO FILL THE GAPS FROM AN OPERATIONAL
7 STANDPOINT.

8 IT IS AN OPPORTUNITY FOR US FOR THE
9 COMMUNITY CARE CENTERS OF EXCELLENCE, INCLUDING THE
10 ALPHA CLINICS. AND IT'S OPEN FOR DISCUSSION.
11 THINGS ARE HAPPENING REAL-TIME. SO THE DISCUSSIONS
12 WE'RE HAVING WITH PAYERS, AS FAR AS I CAN TELL, IS
13 ALL ABOUT HOW ROBUST THAT DATA IS FROM A
14 POST-MARKETING STANDPOINT. THIS GETS KIND OF INTO
15 METHODOLOGY. AND I DON'T KNOW IF I'M ANSWERING THE
16 THIRD QUESTION, BUT I USED THE TERM "TSUNAMI" IN THE
17 PAST IN TERMS OF NOT ONLY THE APPROVALS THAT ARE
18 TAKING PLACE IN THE FDA, BUT NOW THERE'S SORT OF A
19 TSUNAMI OF SETTING UP THIS INFRASTRUCTURE TO FILL
20 ALL THE REQUIREMENTS, NOT ONLY FROM, AGAIN, FDA'S
21 COMPETENT AUTHORITIES REQUIREMENTS, BUT ALSO FROM
22 THE PAYERS REQUIREMENTS FOR EFFICACY, SAFETY, AND
23 DURABILITY OF THE THERAPIES.

24 LET ME SEE IF I ANSWERED THE THIRD
25 QUESTION OKAY, HARLAN, IF I ADDRESSED THAT.

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1 DR. LEVINE: IT'S ALL RIGHT. MOOT ISSUE.
2 I DIDN'T KNOW WHAT I WAS ASKING. I JUST WANTED TO
3 KIND OF GET A BROADER VIEW OF THE THINGS THAT WE'RE
4 CONSIDERING. I THINK THAT WAS HELPFUL.

5 I DO THINK -- I JUST CAN'T SEE HOW THIS IS
6 GOING TO PLAY OUT. THE DRUGS COMING OUT HAVE SOME
7 ASTRONOMICAL PRICE TAGS. I THINK THE PAYERS PLAY AN
8 IMPORTANT ROLE IN TRYING TO CONTROL COST. I DON'T
9 THINK AT THE END OF THE DAY THEY SHOULD BE THE FINAL
10 ARBITER OF WHETHER SOMETHING HAS VALUE OR NOT. SO I
11 DON'T WANT TO GIVE IN TO THE CURRENT DEFAULT, WHICH
12 THE PAYERS ARE GOING TO DECIDE WHETHER OR NOT AND
13 HOW MUCH TO PAY FOR THIS. THIS IS LIKE A NEW WORLD
14 FOR US.

15 2017, ONE NEW DRUG HAD A PRICE OVER
16 \$200,000. THIS YEAR SIX OUT OF EIGHT OF THE NEW
17 DRUGS HAVE PRICES OVER 200,000, AND WE'RE NOT EVEN
18 TALKING ABOUT THE TYPE OF DRUGS WE'RE TALKING ABOUT
19 HERE, WHICH ARE GENE THERAPIES AND CELL-BASED
20 THERAPIES.

21 SO I THINK WE SHOULD BE VERY THOUGHTFUL
22 ABOUT WHAT'S OUR POINT OF VIEW POLITICALLY ON WHO
23 SHOULD BE DETERMINING THE PRICES OF THESE THINGS AND
24 WHETHER OR NOT THEY'RE PAID FOR OR NOT.

25 VICE CHAIR BONNEVILLE: AGREE COMPLETELY.

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1 SOMETHING YOU WERE SAYING EARLIER, HARLAN, ABOUT
2 WHOSE RESPONSIBILITY IS IT, IS THIS A CIRM PROBLEM
3 FOR THE POST-MARKETING DATA AND SETTING UP THOSE
4 SYSTEMS AND PAYING FOR IT. SOMETHING TO CONSIDER IS
5 BY THE TIME WE MOVE FORWARD IN THIS DIRECTION AND
6 THEN IF IT'S A 15-YEAR FOLLOW-UP, CIRM MAY NOT BE
7 AROUND. AND WHO KNOWS WHAT THAT SORT OF LANDSCAPE
8 IS AND WHERE WE ARE IN OUR FUTURE. SO WHATEVER GETS
9 SET UP OR WHATEVER WE FUND HAS TO HAVE THE ABILITY
10 TO SUSTAIN ITSELF, WHETHER IT'S PLATFORMS OR
11 TECHNOLOGIES THAT WE ENABLE JUST FROM A PRACTICAL
12 PERSPECTIVE AND WHAT DOES THAT MEAN.

13 SO THAT REALLY SHOULD PLAY INTO THE
14 CONVERSATION WHEN WE START TALKING MORE ABOUT HOW WE
15 FUND AND WHAT WE ARE FUNDING.

16 DR. TURBEVILLE: IF I MIGHT OPINE.
17 HARLAN, TO BE HONEST WITH YOU AND AMMAR, WHO IS OUR
18 MARKET ACCESS EXPERT, PROBABLY COULD OPINE HERE.
19 THOSE DISCUSSIONS ARE TAKING PLACE WITH THE PAYERS
20 IN TERMS OF WHAT THOSE CLINICAL ENDPOINTS LOOK LIKE.
21 AND THOSE ARE, OF COURSE, PROPRIETARY. AND WE'VE
22 EVEN ASKED CMS TO HAVE MORE AUTHORITY IN TERMS OF
23 WHAT'S REQUIRED FOR REIMBURSEMENT.

24 SO, YEAH, PAYERS ARE MAKING THOSE
25 NEGOTIATIONS WITH THE MARKETING AUTHORIZATION, THE

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1 MANUFACTURER WHAT'S VALUE. AND SO THOSE DISCUSSIONS
2 ARE TAKING PLACE. I DON'T KNOW IF AMMAR HAS ANY
3 COMMENTS ON THIS.

4 DR. QADAN: I UNDERSTAND EXACTLY HARLAN'S
5 CONCERNS BECAUSE YOU COULD GO EASILY INTO A RABBIT
6 HOLE WITH ALL THE THINGS THAT PAYERS PUT IN PLACE.
7 I WOULD FAIRLY BALANCE THAT BY SAYING THAT, EVEN IN
8 HEALTHCARE SYSTEMS OUTSIDE THE U.S. WHERE PAYERS ARE
9 INTEGRATED WITHIN THE HEALTHCARE SYSTEM LIKE IN THE
10 UK AND FRANCE AND MANY OTHER COUNTRIES, WE HAVE SEEN
11 THAT THEY'RE PLAYING AN IMPORTANT ROLE. THEY NEED
12 SUCH TYPE OF DETAIL IN ORDER TO MAKE DECISIONS.

13 SO IT'S NOT UNIQUE TO WHAT WE SEE
14 DEFINITELY IN THE U.S. IT IS A GLOBAL TREND. AND
15 WHAT WE HAVE SEEN GENERALLY, EVEN OUTSIDE THE U.S.,
16 IS THAT THERE IS A FASTER ADOPTION OF SOME OF THOSE
17 INNOVATIONS, MORE THAN THE U.S. STILL THEY REQUIRE
18 MANY OF THAT DATA TO MAKE THOSE FUNDING DECISIONS TO
19 START WITH.

20 DR. LEVINE: TO GIVE A LITTLE COLOR TO MY
21 COMMENT, I'M NOT SAYING THERE'S A YES OR A NO OR
22 IT'S A BLACK-AND-WHITE ISSUE. I JUST KNOW THAT I'VE
23 BEEN IN THE BUSINESS FOR 30 YEARS, AND I KNOW THAT
24 PROZAC WASN'T COVERED AS A FIRST-LINE THERAPY UNTIL
25 IT WAS PROVEN THAT YOU HAD FEWER ER VISITS AND

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1 BETTER COMPLIANCE THAN YOU DID WITH THE TRADITIONAL
2 ONES THAT WERE SO MUCH CHEAPER THAN OVERALL TOTAL
3 COST TO CARE. SO THAT GOT DELAYED SEVERAL YEARS.
4 OBESITY SURGERY WASN'T COVERED FOR YEARS AFTER IT
5 WAS PROVEN TO BE MEDICALLY HELPFUL. THERE'S STILL
6 STEP THERAPY GOING ON IN CANCER CARE WHICH WE KNOW
7 IS COUNTERPRODUCTIVE.

8 SO MY POINT ISN'T THAT ONE CONSTITUENT OR
9 ONE STAKEHOLDER SHOULD BE LEFT OUT VERSUS ANOTHER,
10 ONLY THAT WE TEND TO DEFER THESE DECISIONS TO PAYERS
11 BECAUSE IT'S SO IMPORTANT THAT THEY GET PAID FOR.
12 BUT I THINK WE'RE JUST IN A NEW WORLD, THAT WE WANT
13 TO NOT LET -- THE PAYER'S APPROACH HAS ALWAYS BEEN
14 TO GO SLOW BECAUSE IT'S TO THEIR BENEFIT.

15 BY THE WAY, I'VE WORKED FOR PAYERS FOR
16 OVER TEN YEARS. I DON'T WANT TO BE HYPOCRITICAL.
17 I'VE BEEN PART OF THAT ECOSYSTEM. BUT I'M JUST
18 SAYING WE SHOULD BE THOUGHTFUL ABOUT DO WE WANT TO
19 DEFAULT TO THE CURRENT PATTERNS, OR DO WE WANT TO
20 SET UP WHAT OCCURS IN THESE OTHER GLOBAL
21 ENVIRONMENTS WHERE I THINK THEY'RE BETTER INTEGRATED
22 BETWEEN ETHICISTS AND PATIENTS AND GOVERNMENT,
23 PHYSICIANS, AND PAYERS ALL WORKING TOGETHER.

24 OTHER PLACES YOU HAVE NICE, AND HERE WE
25 HAVE ICER. THERE'S ALL SORTS OF OTHER MODELS THAT

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1 WE CAN LOOK AT IS MY COMMENT. AND, AGAIN, I'M
2 HESITANT TO SAY ANYTHING HERE BECAUSE I'M REALLY NOT
3 THE MOST INFORMED IN THIS AREA. BUT I'M JUST TRYING
4 TO BRING MY EXPERIENCES FROM NONREGENERATIVE
5 MEDICINE LESSONS. AND THINGS MOVE VERY SLOWLY WHEN
6 YOU LEAVE IT IN THE HANDS OF THE PAYER.

7 VICE CHAIR BONNEVILLE: THANK YOU.
8 ANYBODY HAVE ANY OTHER QUESTIONS ON THIS TOPIC?

9 WE HAVE ANOTHER PRESENTATION. I WANTED TO
10 SEE IF THERE WAS ANY PUBLIC COMMENT SPECIFICALLY ON
11 THIS TOPIC CURRENTLY. SO, MARIANNE, I DON'T KNOW IF
12 YOU SEE ANY HANDS RAISED.

13 MS. DEQUINA-VILLABLANCA: I DON'T SEE ANY
14 HANDS RAISED. IF ANYONE NEEDS A REMINDER ON HOW TO
15 UNMUTE THEMSELVES, IT'S STAR NINE. BUT CURRENTLY,
16 MARIA, I DO NOT SEE ANY HANDS RAISED.

17 VICE CHAIR BONNEVILLE: GREAT.

18 OUR NEXT PRESENTATION IS BY GEOFF LOMAX.

19 DR. LOMAX: GOOD AFTERNOON. AND THANKS
20 VERY MUCH, MARIA.

21 I'M GOING GIVE YOU A BRIEF UPDATE ON OUR
22 MOST RECENT LISTENING SESSION. AS YOU MAY RECALL,
23 AT THE FEBRUARY MEETING, I UPDATED YOU ON THE
24 COMMUNITY CARE CENTERS OF EXCELLENCE PROGRAM, WHICH
25 SEAN ALLUDED TO IN THE PREVIOUS PRESENTATION. THIS

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1 IS REALLY A PROGRAM MEANT TO EXTEND OUR CLINICAL
2 REACH BEYOND THE ACADEMIC CENTERS AND INTO THE
3 COMMUNITY, PARTICULARLY THOSE THAT HAVE BEEN LESS
4 SERVED BY CLINICAL TRIALS AND SOME OF OUR CLINICAL
5 PROGRAMS.

6 AND I DESCRIBED OUR CONVERSATION AT UC
7 RIVERSIDE, WHICH IS PART OF OUR INLAND EMPIRE NEEDS
8 ASSESSMENT. AND LAST WEEK, AND I'M JUST GIVING YOU
9 A VERBAL BECAUSE WE JUST GOT BACK AND WE DIDN'T HAVE
10 TIME TO MEET THE POSTING DEADLINE FOR SLIDES. BUT
11 WE WILL HAVE SOME MATERIALS IN THE FUTURE AND CAN
12 SEND THOSE OVER TO YOU.

13 LAST WEEK WE TRAVELED TO PALM DESERT WITH
14 THE AIM OF ENGAGING COMMUNITY-BASED ORGANIZATIONS
15 AND REGIONAL HEALTHCARE PROVIDERS. THAT WAS AN
16 AUDIENCE WE WANTED TO MAKE SURE WE INCLUDED IN THIS
17 FIRST PHASE OF THE NEEDS ASSESSMENT. AND THESE
18 LISTENING SESSIONS ARE REALLY AIMED TO UNDERSTAND
19 REGIONAL NEEDS AND CAPACITIES. AND SPECIFICALLY, WE
20 ORGANIZE OUR CONVERSATION INTO SORT OF THREE AREAS:
21 THE CLINICAL CAPACITY TO SUPPORT PATIENTS IN THEIR
22 JOURNEY, TRAINING AND EDUCATION NEEDS AMONG
23 HEALTHCARE PROVIDERS, EDUCATORS, OR NAVIGATORS, AND
24 THE THIRD BEING MORE THE GENERAL INFORMATION NEEDS
25 FOR PROVIDERS, PATIENTS, THE PUBLIC. SO KIND OF A

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1 CLINICAL, A TRAINING, AND THEN A COMMUNITY
2 ENGAGEMENT ASPECT IN TRYING TO UNDERSTAND WHAT WE
3 CAN DO IN THOSE AREAS TO REALLY ADVANCE CIRM'S
4 MISSION AND PROPOSITION 14'S MANDATED ROLE OF THE
5 COMMUNITY CARE CENTERS.

6 AGAIN, I REPORTED ON THESE AREAS IN THE
7 PAST, AND THERE'S SOME SLIDES THAT I THINK REALLY
8 CAPTURE SOME OF THE THINKING. SO I'M GOING TO MAKE
9 SOME BRIEF REMARKS ABOUT HOW THEY RELATE TO THE
10 INLAND EMPIRE CONVERSATION WHICH, AGAIN, WAS A
11 LITTLE BIT OF A DIFFERENT CONVERSATION IN THE SENSE
12 THAT WE WERE ENGAGING WITH COMMUNITY-BASED
13 ORGANIZATIONS AND THEN SOME ORGANIZATIONS WITH A
14 UNIQUE FOOTPRINT IN THE INLAND EMPIRE.

15 ON THE CLINICAL SIDE, WE VISITED A
16 CLINICAL RESEARCH CENTER OPERATED BY A REGIONAL
17 PROVIDER SERVING ABOUT 65,000 PATIENTS IN THE
18 REGION. PERHAPS THE HIGHEST VALUE OBSERVATION WE
19 HAD FROM THE PERSPECTIVE OF CLINICAL TRIALS WAS THE
20 PATIENTS COULD PARK WITHIN ABOUT A HUNDRED FEET OF
21 THE CENTER AND ACCESS IT VERY EASILY AND
22 EFFICIENTLY, WHICH COMPARED TO SOME OF OUR URBAN
23 MEDICAL CENTERS, THAT'S A HUGE PLUS. THE KIND OF
24 ACCESSIBILITY AND SORT OF COMMUNITY-FACING NATURE OF
25 THESE CENTERS IS ACTUALLY VERY IMPRESSIVE. I FOUND

1 IT QUITE STRIKING. AGAIN, VISITED ALL THE ALPHA
2 CLINICS AND HALF THE TIME GETTING LOST TRYING TO
3 ACTUALLY FIND THE PLACE I'M SUPPOSED TO MEET WITH
4 FOLKS. SO THAT LOCAL TOUCH IS ACTUALLY, I THINK,
5 GOING TO SERVE US WELL.

6 THE CLINICAL CENTER WAS ACTUALLY WELL
7 VERSED IN CLINICAL TRIAL OPERATIONS AND, IN
8 ADDITION, DID HAVE RELATIONSHIPS WITH MULTIPLE ALPHA
9 CLINIC SITES. SO THE IDEA THAT THESE CENTERS CAN
10 WORK WITH OUR EXISTING NETWORKS SEEMS LIKE A VERY
11 VALID HYPOTHESIS THAT WE CAN DEVELOP THROUGH THIS
12 PROGRAM.

13 CELL AND GENE THERAPY WAS NOT AN AREA OF
14 EXPERIENCE OR EXPERTISE; BUT IF WE ASSUME A PATIENT
15 MIGHT STILL RECEIVE TREATMENT, SAY, IN A MAJOR
16 CENTER AND THAT THERE ARE CERTAIN PRE- AND
17 POST-TREATMENT ACTIVITIES THAT COULD GO IN THE LOCAL
18 AREA, ONE COULD REASONABLY ANTICIPATE THAT THESE
19 CENTERS COULD THEN SUPPORT THE PROGRAMS BASED ON
20 THAT HYPOTHESIS. SO ON THE CLINICAL SIDE, IT WAS,
21 LIKE I SAY, WE LEARNED A LOT AND SAW A LOT THAT WAS
22 VERY PROMISING.

23 ON TRAINING AND EDUCATION, I THINK THE
24 MESSAGE THAT'S REALLY BUILDING, KIND OF THE WEIGHT
25 OF EVIDENCE THAT'S BUILDING THROUGH THESE

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1 CONVERSATIONS IS THAT THERE IS AN OPPORTUNITY TO
2 LEVERAGE EXISTING CAPACITIES. THOSE CAPACITIES,
3 SOME OF THEM MIGHT BE HOMEGROWN CIRM CAPACITIES; FOR
4 EXAMPLE, THE BRIDGES PROGRAM. THERE'S A SAN
5 BERNARDINO PROGRAM OUT THERE AND THEY'RE QUITE
6 ACTIVE. SO SOME OF OUR EXISTING EDUCATION PROGRAMS
7 CAN REALLY BE BROUGHT IN AND LEVERAGED HERE.

8 BUT IN ADDITION, I THINK ONE EXAMPLE THAT
9 REALLY STOOD OUT IN THIS CONVERSATION WAS THE
10 POTENTIAL FOR THE PROMOTORES THAT REALLY PROVIDES A
11 HIGH LEVEL, A HIGH DEGREE OF MEDICALLY RELEVANT
12 NAVIGATION GUIDANCE AND INFORMATION TO COMMUNITIES
13 THAT REALLY HAVEN'T TRADITIONALLY, I THINK, BEEN
14 REPRESENTED IN CIRM PROGRAMS, PARTICULARLY CLINICAL
15 PROGRAMS. AND IT MAY NOT BE EVEN -- I THINK WE
16 COULD LOOK AT IT FROM THE STANDPOINT OF, EVEN IF THE
17 PROMOTORES AREN'T -- THE END GAME ISN'T THEY'RE
18 GOING TO GET PATIENTS INTO CLINICAL TRIALS. THERE'S
19 A LOT OF VALUE THEY CAN BRING.

20 SO, FOR EXAMPLE, WE HAD A LOT OF
21 INTERESTING DISCUSSION ABOUT THE FACT THAT
22 HEALTHCARE DELIVERY IN THAT REGION INCLUDES MEDICAL
23 TOURISM FOR VERY LEGITIMATE PURPOSES BECAUSE OF
24 COST. SO THAT YOU HAVE INDIVIDUALS MOVING BACK AND
25 FORTH IN THE BORDER REGION, AND PROMOTORES PROVIDE A

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1 VERY IMPORTANT ROLE IN TERMS OF HELPING NAVIGATE
2 SOME OF THOSE PATIENTS.

3 IN ADDITION, THEY HAVE A CERTIFICATION
4 PROGRAM NOW. SO ONE OF THE THOUGHTS WAS TO WHAT
5 EXTENT COULD THIS INITIATIVE HELP INFORM THOSE
6 CERTIFICATION PROGRAMS. SO CERTAINLY THEY'RE ABLE
7 TO DISTINGUISH BETWEEN, SAY, WHAT DOES A TESTED AND
8 WELL-EVALUATED TREATMENT LOOK LIKE VERSUS A
9 COMPLETELY UNREGULATED TREATMENT AND GIVING PATIENTS
10 TOOLS TO MAKE THOSE DISTINCTIONS.

11 THOSE WERE SOME OF THE IDEAS, SOME OF THE
12 THINGS THAT CAME UP IN THE TRAINING AND EDUCATION
13 PIECE.

14 AND THEN FINALLY, ON THE PUBLIC-FACING
15 COMMUNICATIONS, I THINK IT'S REALLY IMPORTANT THAT,
16 AND WE GOT THIS MESSAGE COMING ACROSS, AND THE
17 COMMUNICATIONS TEAM HAS NOW BECOME VERY INVOLVED
18 WITH THESE SESSIONS, IS THAT REALLY LOOKING -- CIRM
19 CAN DEVELOP TOOLS AND COMMUNICATIONS TOOLS THAT THEN
20 REALLY THE ONLY WAY THEY'RE GOING TO HAVE AN IMPACT,
21 WE SEE, IS REALLY BY DISSEMINATING THOSE TOOLS INTO,
22 AGAIN, BOTH OUR EXISTING PROGRAMS, BUT PERHAPS LIKE
23 THESE PROMOTORES PROGRAMS, GOING BACK TO THE CLINIC,
24 LIKE WORKING WITH THE CLINICS TO HAVE CUSTOMIZABLE
25 EDUCATION TOOLS THAT ARE A FIT FOR THEIR PARTICULAR

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1 AUDIENCE. SO HAVING SOME CAPACITY TO START WITH
2 WELL-DEVELOPED CIRM INFORMATION TOOLS THAT COME OUT
3 OF THE CIRM SHOP AND THEN DISSEMINATE THROUGH OUR
4 NETWORKS IN A WAY THAT STILL ALLOWS FOR FURTHER
5 CUSTOMIZATION, AGAIN, BY A COMMUNITY CARE CENTER, BY
6 A PROGRAM AWARDED THROUGH THAT CENTER.

7 SO, AGAIN, A LOT OF GOOD EXAMPLES, A LOT
8 OF RICH DISCUSSION CAME OUT OF THAT. WITH THAT,
9 I'LL STOP AND TURN IT BACK TO THE COMMITTEE.

10 VICE CHAIR BONNEVILLE: I WANTED TO JUST
11 MENTION THE TEAM'S DONE EXTRAORDINARY WORK ON THESE
12 LISTENING SESSIONS. THERE HAVE BEEN THREE. THERE
13 WILL BE ANOTHER ONE IN MAY IN SACRAMENTO WHICH WILL
14 BE OPEN TO THE PUBLIC AND OPEN TO ANY OF THE MEMBERS
15 OF THIS COMMITTEE THAT WOULD LIKE TO ATTEND AS WELL
16 AS BOARD MEMBERS.

17 SOMETHING WE'VE HEARD OVER AND OVER AGAIN,
18 AND I KNOW GEOFF WILL AGREE WITH THIS, IS JUST THE
19 WHOLE CONCEPT OF TRUST AND HOW WE BUILD THAT IN
20 THESE COMMUNITIES. AND I KNOW THAT THAT'S NOT A
21 SHOCK TO ANYONE. IT'S ALSO, THOUGH, TRUST IN US AS
22 AN ORGANIZATION. SO THEY DON'T KNOW US. THEY DON'T
23 KNOW THE WORK WE FUND. SO BUILDING THAT TRUST FOR
24 CIRM IS ALSO REALLY IMPORTANT AND WE HEARD THAT.

25 SO I JUST REALLY WANT TO THANK THE MED

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1 AFFAIRS FOR ALL THE HARD WORK THEY'VE DONE AT THESE
2 VARIOUS LISTENING SESSIONS. AND THEY'VE ALL BEEN
3 GREAT TO ATTEND, AND THE INFORMATION WE'VE GOTTEN
4 HAS BEEN REALLY WONDERFUL.

5 J.T.

6 CHAIRMAN THOMAS: I'D LIKE TO ECHO THAT AS
7 WELL. THEY'VE BEEN EXCELLENT, AND THE THREE HAVE
8 ALL BEEN SIMILAR IN CERTAIN RESPECTS AND DIFFERENT.
9 IT'S A FUNCTION OF GEOGRAPHY AND PATIENT GROUP, ET
10 CETERA.

11 I WANTED TO ADD, I WAS GOING TO COMMENT ON
12 THE TRUST POINT AS WELL, BUT THE OTHER CHALLENGE
13 THAT WE HAVE IS THE FIELD ITSELF IS ONE THAT IS NOT
14 AT ALL WELL UNDERSTOOD BY THE POTENTIAL PATIENT BASE
15 OR MANY OTHER PEOPLE, FOR THAT MATTER, BECAUSE IT'S
16 NEW AND IT'S EVOLVING, ET CETERA. SO A MAJOR
17 CHALLENGE, GETTING BACK TO THE EDUCATIONAL
18 COMPONENT, IS TO EDUCATE THE MEMBERS OF THE PUBLIC
19 IN ANY GIVEN AREA THAT WE ARE LOOKING TO GO INTO ON
20 WHAT THE FIELD OF REGENERATIVE MEDICINE IS ALL
21 ABOUT, WHICH IS NOT AN EASY LIFT. BUT IF YOU CAN'T
22 DO THAT, THAT THEN FEEDS FURTHER INTO THE MISTRUST
23 ELEMENT BECAUSE THE POTENTIAL PATIENTS IN THE
24 PROGRAMS OR THE TRIALS OR WHATEVER ARE NOT GOING TO
25 KNOW SORT OF WHAT IT IS THEY'RE ACTUALLY GETTING

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1 INTO. SO IT'S DIFFICULT TO UNDERSTATE THE
2 IMPORTANCE OF THE EDUCATIONAL COMPONENT OF ALL THIS.

3 AND I THINK THAT WE ARE DOING A VERY GOOD
4 JOB OF PUTTING TOGETHER THINGS FOR THE PUBLIC, BUT
5 IT'S SOMETHING WE NEED TO DO EVEN BETTER BECAUSE
6 IT'S TRICKY TO COMPREHEND.

7 BUT TO GO FULL CIRCLE, THOUGH, I JUST DO
8 WANT TO SAY THAT THE MED AFFAIRS TEAM HAS DONE JUST
9 AN EXCELLENT JOB. AND THAT SESSION IN MAY, FOR
10 THOSE OF YOU WHO ARE IN NORTHERN CALIFORNIA, WOULD
11 BE, IF YOU HAVE AN OPPORTUNITY TO COME TO THAT, IT
12 WOULD BE WELL WORTH YOUR TIME.

13 DR. LOMAX: THE MAY SESSION WILL BE HYBRID
14 AS WELL, BUT WE'D LOVE TO HAVE YOU IN SACRAMENTO.

15 JUST ONE OTHER, I THINK IT'S A NICE STORY
16 TO TELL BECAUSE IT REALLY SHOWS HOW ALL THE CIRM
17 WORK GROUPS, HOW WE'RE CROSS POLLINATING THESE
18 EFFORTS.

19 I JUST WANT TO, DR. LEVINE, ACKNOWLEDGE
20 WHEN WE HAD THIS DISCUSSION AT THE LAST MEETING, YOU
21 MADE SOME VERY POIGNANT STATEMENTS ABOUT SORT OF
22 WHAT THE CLINICAL TRIALS WE ARE FUNDING REALLY MEANS
23 TO PATIENTS. IT'S KIND OF LIKE AHA. IT WAS JUST
24 THE WAY YOU KIND OF FRAMED THAT. WE ACTUALLY SORT
25 OF WORKED THAT INTO THE CONVERSATION. I THINK IT

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1 WAS A VERY IMPORTANT POINT, THAT THESE AREN'T JUST
2 SORT OF RANDOM MEDICAL EXPERIMENTS. IN MOST CASES
3 THEY'RE THE BEST OPTION THE PATIENT HAS. AND THAT
4 ARTICULATION WAS QUITE VALUABLE, AND SO YOUR
5 FEEDBACK DOES KIND OF GO BACK INTO THESE SESSIONS
6 AND VICE VERSA. SO APPRECIATED THAT ONE.

7 DR. LEVINE: THANKS.

8 DR. TURBEVILLE: I THINK WE MAY HAVE LOST
9 BONNEVILLE THERE. YEAH, MAYBE WE DID. OKAY. I
10 WANT TO THANK EVERYBODY FOR THEIR CONSIDERATION. I
11 KNOW WE ARE MOVING RAPIDLY FOR THE ROADMAP TO ACCESS
12 AND AFFORDABILITY. AGAIN, I MENTIONED THE NEXT
13 TOPIC, WHICH IS VERY INTERESTING, ON THE COVERAGE
14 ANALYSIS, ACCESS AND APPEALS SPECIFICALLY FOR CELL
15 AND GENE THERAPY.

16 WITH THAT, LET ME OPEN IT UP TO ANY FINAL
17 COMMENTS OR QUESTIONS. I THINK BONNEVILLE MAY HAVE
18 DROPPED OFF.

19 MR. TOCHER: SHE SHOULD BE COMING BACK ON.
20 SHE JUST LOST HER POWER BUT IT'S RESUMING.

21 MS. DEQUINA-VILLABLANCA: CURRENTLY I
22 DON'T SEE ANY HANDS RAISED OR QUESTIONS.

23 DR. TURBEVILLE: OKAY. VERY GOOD. I DO
24 HAVE SOME FOLLOW-UP. I'LL SEND OUT SOME INFORMATION
25 FOR THE REQUEST PARTICULARLY ON POST-MARKETING, THE

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1 DUE DILIGENCE THAT WE HAVE FOR OTHER CELL AND GENE
2 THERAPIES THAT ARE NOW COMMERCIALY APPROVED. I
3 THINK THAT WOULD PROVIDE SOME GOOD INSIGHT. AND
4 LOOK FORWARD TO THE NEXT PRESENTATION ON ACCESS AND
5 AFFORDABILITY. WITH THAT, GO AHEAD AND CLOSE US
6 DOWN UNLESS, J.T., YOU HAVE ANY.

7 CHAIRMAN THOMAS: I WOULD JUST GIVE MARIA
8 A SECOND TO GET BACK ON HERE.

9 MR. TOCHER: SHE'S HAVING DIFFICULTY. I
10 THINK WE CAN WRAP IT UP.

11 MS. DEQUINA-VILLABLANCA: WE DO NEED TO
12 CALL FOR PUBLIC COMMENT, WHICH I DON'T SEE ANY
13 CURRENTLY. SO I THINK WE ARE GOOD.

14 DR. TURBEVILLE: OKAY. WITH THAT, I
15 APPRECIATE EVERYBODY'S TIME. I KNOW YOU'RE TERRIBLY
16 BUSY, AND I LOOK FORWARD TO THE NEXT AAWG.

17 CHAIRMAN THOMAS: SEAN, LET ME JUST ADD
18 ONE LAST THING, IF I MAY. SO FOR THOSE OF YOU ON
19 THE AAWG OUTSIDE OF CIRM, YOU MAY KNOW WE ELECTED A
20 NEW CHAIR ON JANUARY 26TH. HE IS DR. VITO
21 IMBASCIANI, CURRENTLY THE SECRETARY OF VETERANS
22 AFFAIRS IN GOVERNOR NEWSOM'S ADMINISTRATION. HE
23 WILL BE SWORN IN AT OUR MARCH 28TH BOARD MEETING.
24 AND AS A RESULT, THAT MAKES THIS MY LAST AAWG AS
25 CHAIR OF CIRM. AND I JUST WANTED TO THANK ALL OF

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1 YOU FOR YOUR PARTICIPATION AND YOUR GREAT INSIGHTS
2 AND HELP IN THIS CRITICAL AREA GOING FORWARD, WHICH
3 IS A VERY DIFFICULT ONE. BUT ALL OF YOUR THOUGHTS
4 AND COUNSEL GREATLY AIDS CIRM IN BEING ABLE TO
5 ADVANCE THE BALL HERE UNDER THE MEDICAL AFFAIRS
6 TEAM. SO THANK YOU, EVERYBODY. AND I KNOW THINGS
7 WILL ONLY GET BIGGER AND BETTER AS WE GO ON, AND
8 IT'S BEEN A PLEASURE WORKING WITH ALL OF YOU. AND I
9 WILL BE VIEWING FROM AFAR TO ROOT YOU GUYS ON. SO
10 THANKS VERY MUCH.

11 (THE MEETING WAS THEN CONCLUDED AT 2:04 P.M.)

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REPORTER'S CERTIFICATE

I, BETH C. DRAIN, A CERTIFIED SHORTHAND REPORTER IN AND FOR THE STATE OF CALIFORNIA, HEREBY CERTIFY THAT THE FOREGOING TRANSCRIPT OF THE VIRTUAL PROCEEDINGS BEFORE THE ACCESSIBILITY AND AFFORDABILITY WORKING GROUP OF THE INDEPENDENT CITIZEN'S OVERSIGHT COMMITTEE OF THE CALIFORNIA INSTITUTE FOR REGENERATIVE MEDICINE IN THE MATTER OF ITS REGULAR MEETING HELD ON MARCH 14, 2023, WAS HELD AS HEREIN APPEARS AND THAT THIS IS THE ORIGINAL TRANSCRIPT THEREOF AND THAT THE STATEMENTS THAT APPEAR IN THIS TRANSCRIPT WERE REPORTED STENOGRAPHICALLY BY ME AND TRANSCRIBED BY ME. I ALSO CERTIFY THAT THIS TRANSCRIPT IS A TRUE AND ACCURATE RECORD OF THE PROCEEDING.

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