

BEFORE THE
INDEPENDENT CITIZENS' OVERSIGHT COMMITTEE AND THE
APPLICATION REVIEW SUBCOMMITTEE
TO THE
CALIFORNIA INSTITUTE FOR REGENERATIVE MEDICINE
ORGANIZED PURSUANT TO THE
CALIFORNIA STEM CELL RESEARCH AND CURES ACT
REGULAR MEETING

LOCATION: VIA ZOOM

DATE: OCTOBER 19, 2021
9 A.M.

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

FILE NO.: 2021-21

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OCTOBER 19, 2021; 9:05 A.M.

CHAIRMAN THOMAS: OKAY. THANK YOU. GOOD MORNING, EVERYBODY, AND WELCOME TO THE OCTOBER 2021 REGULAR MEETING OF THE ICOC AND THE APPLICATION REVIEW SUBCOMMITTEE. MARIA, WILL YOU PLEASE CALL THE ROLL.

MS. BONNEVILLE: HAIFAA ABDULHAQ. DAN BERNAL.

MR. BERNAL: PRESENT.

MS. BONNEVILLE: GEORGE BLUMENTHAL.

DR. BLUMENTHAL: HERE.

MS. BONNEVILLE: LINDA BOXER.

DR. BOXER: HERE.

MS. BONNEVILLE: MICHAEL BOTCHAN.

DR. BOTCHAN: HERE.

MS. BONNEVILLE: ALLISON BRASHEAR.

DR. BRASHEAR: HERE.

MS. BONNEVILLE: LE ONDRA CLARK HARVEY.

DR. CLARK HARVEY: HERE.

MS. BONNEVILLE: DEBORAH DEAS.

DR. DEAS: HERE.

MS. BONNEVILLE: ANNE-MARIE DULIEGE.

DR. DULIEGE: HERE.

MS. BONNEVILLE: YSABEL DURON.

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1 MS. DURON: HERE.
2 MS. BONNEVILLE: MARK FISCHER-COLBRIE.
3 DR. FISCHER-COLBRIE: HERE.
4 MS. BONNEVILLE: LEON FINE. FRED FISHER.
5 DR. FISHER: HERE.
6 MS. BONNEVILLE: ELENA FLOWERS.
7 DR. FLOWERS: HERE.
8 MS. BONNEVILLE: JUDY GASSON.
9 DR. GASSON: HERE.
10 MS. BONNEVILLE: LARRY GOLDSTEIN.
11 DR. GOLDSTEIN: HERE.
12 MS. BONNEVILLE: DAVID HIGGINS.
13 DR. HIGGINS: HERE.
14 MS. BONNEVILLE: STEPHEN JUELSGAARD.
15 MR. JUELSGAARD: PRESENT.
16 MS. BONNEVILLE: RICH LAJARA.
17 MR. LAJARA: HERE.
18 MS. BONNEVILLE: PAT LEVITT.
19 DR. LEVITT: HERE.
20 MS. BONNEVILLE: LINDA MALKAS.
21 DR. MALKAS: HERE.
22 MS. BONNEVILLE: DAVE MARTIN.
23 DR. MARTIN: HERE.
24 MS. BONNEVILLE: CHRISTINA MIASKOWSKI.
25 LAUREN MILLER-ROGEN.

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1 MS. MILLER-ROGEN: HERE.
2 MS. BONNEVILLE: ADRIANA PADILLA.
3 DR. PADILLA: HERE.
4 MS. BONNEVILLE: JOE PANETTA. AL ROWLETT.
5 MR. ROWLETT: HERE.
6 MS. BONNEVILLE: MICHAEL STAMOS.
7 DR. STAMOS: HERE.
8 MS. BONNEVILLE: JONATHAN THOMAS.
9 CHAIRMAN THOMAS: HERE.
10 MS. BONNEVILLE: ART TORRES.
11 MR. TORRES: HERE.
12 MS. BONNEVILLE: KRISTINA VUORI.
13 DR. VUORI: HERE.
14 MS. BONNEVILLE: KAROL WATSON. KEITH
15 YAMAMOTO.
16 DR. YAMAMOTO: HERE.
17 MS. BONNEVILLE: THANK YOU.
18 CHAIRMAN THOMAS: THANK YOU, MARIA.
19 SO WE HAVE -- THE MAIN EARLY EVENT HERE IS
20 GOING TO BE HEARING FROM DR. MILLAN ON THE DRAFT
21 STRATEGIC PLAN, BUT A FEW COMMENTS FROM THE CHAIR'S
22 POSITION TO START US OFF HERE.
23 FIRST WOULD LIKE TO INTRODUCE MICHAEL
24 BOTCHAN TO EVERYBODY, WHO IS CHANCELLOR CAROL
25 CRIST'S ALTERNATE. MICHAEL, COULD YOU JUST SAY A

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1 FEW WORDS FOR EVERYONE ABOUT YOUR BACKGROUND?

2 DR. BOTCHAN: YEAH. I GOT MY PH.D. HERE
3 AT UC BERKELEY IN 1972, THEN WENT OFF TO COLD SPRING
4 HARBOR, AND THEN CAME BACK TO CAL. IN 1979 AS AN
5 ASSOCIATE PROFESSOR. I'VE BEEN HERE EVER SINCE.
6 BEEN A PROFESSOR OF BY BIOCHEMISTRY, BIOPHYSICS, AND
7 STRUCTURAL BIOLOGY. AND I'M PRESENTLY THE DEAN OF
8 BIOLOGICAL SCIENCES AND GLAD TO BE HERE.

9 CHAIRMAN THOMAS: THANK YOU. AND VERY,
10 VERY HAPPY TO HAVE YOU ABOARD. SO WELCOME.

11 ALLISON, WOULD YOU LIKE TO SAY A FEW
12 WORDS? WE HAVE SOME SAD CIRM BOARD NEWS FROM A
13 DEPARTURE STANDPOINT. ALLISON, COULD YOU TELL
14 EVERYBODY ABOUT YOUR IMPENDING PLANS HERE?

15 DR. BRASHEAR: IMPENDING PLANS THAT ARE
16 BECOMING MORE REAL EVERY MINUTE. SO I'M ALLISON
17 BRASHEAR. I'M THE DEAN AT UNIVERSITY OF CALIFORNIA
18 DAVIS SCHOOL OF MEDICINE. YESTERDAY I ANNOUNCED
19 THAT I'M TAKING A POSITION AS THE VP OF HEALTH
20 SCIENCES AT THE UNIVERSITY OF BUFFALO AND THE DEAN
21 OF THE JACOB SCHOOL OF MEDICINE AND BIOMEDICAL
22 SCIENCES. SO I WILL BE LEAVING SUNNY CALIFORNIA FOR
23 THIS ROLE AT THE UNIVERSITY OF BUFFALO.

24 IN THAT ROLE I WILL BE HELPING LEAD THE
25 FIVE SCHOOLS OF HEALTH AND THEN THE JACOB SCHOOL OF

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1 MEDICINE IN ADDITION. SO I'M EXCITED, SADDENED TO
2 LEAVE CALIFORNIA, BUT OUR TWO ADULT CHILDREN ARE ON
3 THE EAST COAST. AS WE ALL KNOW, COVID HAS PUT A
4 BRIGHT LIGHT ON FRIENDS AND FAMILY. BUT I'M GOING
5 TO BE WATCHING FROM AFAR AND HAVE BEEN SO PROUD TO
6 BE ASSOCIATED WITH CIRM DURING THIS LAST COUPLE OF
7 YEARS.

8 CHAIRMAN THOMAS: THANK YOU, ALLISON. AND
9 JUST THANK YOU SO MUCH FOR ALL OF YOUR HARD WORK FOR
10 CIRM THESE PAST TWO YEARS. WE'VE GREATLY ENJOYED
11 HAVING YOU AS A COLLEAGUE AND BENEFITED VERY MUCH
12 FROM YOUR PARTICIPATION AND WISH YOU ONLY THE BEST
13 OF LUCK GOING FORWARD.

14 AS EVERYONE MAY RECALL, ALLISON, AMONG
15 OTHER THINGS, WAS ONE OF THE BOARD MEMBERS TO BE ON
16 OUR ACCESSIBILITY AND -- OUR AAWG, AS YOU RECALL.
17 AND ALLISON HAS A LOT OF EXPERIENCE IN THAT REGARD;
18 AND WE HOPE, ALLISON, THAT WE CAN KEEP IN TOUCH WITH
19 YOU TO GET YOUR INPUT ON THESE VERY IMPORTANT ISSUES
20 AS WE LAUNCH INTO THAT EFFORT. SO THANK YOU AGAIN
21 FOR ALL YOUR HARD WORK.

22 DR. BRASHEAR: ABSOLUTELY. MY PLEASURE.

23 MR. TORRES: AS A CAL AGGIE, WE'RE GOING
24 TO MISS YOU. SO YOU TAKE CARE AND BE WELL.

25 DR. BRASHEAR: THANK YOU. THANK YOU. I

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1 WAS WATCHING FOOTBALL LAST NIGHT TO WATCH THE
2 BUFFALO BILLS SADLY LOSE. SO THANK YOU SO MUCH.

3 CHAIRMAN THOMAS: THEY'RE PRETTY GOOD, SO
4 I THINK YOU'RE IN PRETTY GOOD SHAPE FOR THE
5 FORESEEABLE FUTURE AS FAR AS THAT GOES.

6 SEGUEING --

7 MR. TORRES: 49ERS.

8 CHAIRMAN THOMAS: WELL, YES, THAT'S
9 CORRECT, ART. DID YOU SAY SOMETHING ABOUT THE
10 GIANTS, ART? I'M NOT SURE I HEARD THAT.

11 MR. TORRES: I STILL THINK IT'S A GREAT
12 TEAM, AND THEY DID THE BEST THEY COULD GIVEN THAT
13 STUPID CALL BY THE FIRST BASE UMPIRE.

14 CHAIRMAN THOMAS: FAIR ENOUGH. FAIR
15 ENOUGH.

16 SO WITH RESPECT TO THE ACCESSIBILITY AND
17 AFFORDABILITY WORKING GROUP, AS YOU KNOW, THAT BODY
18 WILL CONSIST OF SEVEN BOARD MEMBERS CHAIRED BY ART
19 AND TEN NON-BOARD MEMBERS WHO BRING SPECIFIC
20 ELEMENTS OF EXPERTISE TO THE TABLE. WE'VE SPENT
21 MOST OF THE YEAR, ART, MARIA B. AND I, IN
22 IDENTIFYING FOLKS TO FILL OUT THOSE TEN SLOTS. I'M
23 HAPPY TO REPORT THAT WE HAVE SUCCESSFULLY IDENTIFIED
24 OUR FULL COMPLEMENT NOW AND WILL BE HAVING THE FIRST
25 MEETING OF THAT BODY -- WE'LL GET TO IT LATER IN THE

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1 AGENDA ON THIS TOPIC -- BUT FIRST MEETING OF THAT
2 BODY SOMETIME IN THE NEXT FEW WEEKS TO START
3 ADDRESSING THE GAME PLAN FOR THAT WORKING GROUP ON
4 THIS EXTREMELY IMPORTANT TOPIC GOING FURTHER.

5 OKAY. ANOTHER THING SPECIFICALLY FOR THE
6 NEWER MEMBERS. YOU MAY NOT BE FAMILIAR WITH THIS.
7 THE PRINCIPAL BODY THAT WE AS CIRM REPORT TO IN THE
8 STATE GOVERNMENT IS SOMETHING CALLED THE CITIZENS
9 FINANCIAL ACCOUNTABILITY OVERSIGHT COMMITTEE OR THE
10 CFAOC, WHICH IS CHAIRED BY THE STATE CONTROLLER
11 BETTY YEE, AND MEETS ANNUALLY TO GET AN UPDATE ON
12 CIRM'S FINANCES, BUDGETS, EVERYTHING DEALING WITH
13 HOW WE ARE DEPLOYING OUR FUNDS, AS WELL AS TO GET AN
14 UPDATE ON ALL OF THE BEST-IN-CLASS RESEARCH THAT WE
15 HAVE FUNDED UP TO THAT POINT WITH A PARTICULAR LOOK
16 AT WHAT'S HAPPENED THE PRECEDING YEAR FROM THE LAST
17 REPORT.

18 THAT COMMITTEE HAS FIVE MEMBERS AND HAS
19 MET ANNUALLY FOR THE DURATION SINCE CIRM STARTED
20 BACK IN '04 AND IS A GREAT OPPORTUNITY FOR US TO
21 SHOWCASE TO THE STATE GOVERNMENT ALL OF THE
22 EXCEPTIONALLY FINE WORK THAT EVERYBODY AT CIRM IS
23 DOING AND THE FANTASTIC RESEARCH THAT CIRM IS
24 ENABLING. THAT MEETING IS COMING UP IN NOVEMBER
25 AND, WE HAVE HAD A VERY GOOD RELATIONSHIP WITH THE

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1 CONTROLLER AND WITH THIS COMMITTEE AND, AS ALWAYS,
2 ARE LOOKING FORWARD TO THE OPPORTUNITY TO SHARE
3 WHAT'S GOING ON AT CIRM WITH THE STATE GOVERNMENT.
4 DR. MILLAN WILL BE GIVING THE KEYNOTE ON THE
5 PROGRESS OF THE RESEARCH, WHICH IS SOMETHING THEY
6 ALWAYS REALLY LOOK FORWARD TO BECAUSE IT'S NOT A
7 SUBJECT MATTER THEY TYPICALLY GET TO HEAR A LOT
8 ABOUT. AND SO THIS IS A VERY GOOD CHANCE FOR THEM
9 TO FAMILIARIZE THEMSELVES WITH WHAT WE DO. SO WE'RE
10 LOOKING FORWARD TO THAT AND WILL REPORT BACK IN
11 DECEMBER ABOUT HOW THAT GOES.

12 THE LAST NOTE JUST WANTED TO MAKE HERE IS,
13 AS YOU KNOW, LATER IN THE AGENDA IS THE PERFORMANCE
14 AUDIT WHICH WILL BE PRESENTED BY OUR AUDITORS, MOSS
15 ADAMS. AS YOU WILL HEAR, IT'S A VERY POSITIVE
16 AUDIT. THEY DO -- THESE AUDITORS NEED TO, PER THE
17 PROPOSITIONS, NEED TO DO THIS EVERY THREE YEARS, AND
18 IT'S A GOOD WAY TO CHECK ON ALL THE PERFORMANCE
19 ELEMENTS THAT GO INTO WHAT WE DO ON A DAILY BASIS.
20 AND THIS AUDIT IS VERY, VERY POSITIVE. I THINK
21 YOU'LL BE VERY PLEASED WHEN YOU GET THE REPORT.

22 WANT TO DO A SHOUT-OUT TO MARIA B. WHO
23 SORT OF SPEARHEADED THIS WHOLE EFFORT TOGETHER WITH
24 MANY OTHER MEMBERS OF THE TEAM AND PUT IN MANY, MANY
25 HOURS IN WORKING TO HELP MOSS ADAMS GET ALL THE

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1 INFORMATION THEY NEEDED TO PERFORM THIS AUDIT.

2 SO WITH THAT, LET ME TURN IT OVER TO DR.
3 MILLAN TO TALK ABOUT THE PRESIDENT'S REPORT.

4 DR. MILLAN: THANK YOU, CHAIRMAN THOMAS.
5 DR. PATEL IS GOING TO ADVANCE MY SLIDES FOR ME, SO
6 I'M GOING TO GIVE HIM A CHANCE TO PROJECT THAT. I
7 WANT -- ONE SECOND. I'M JUST NOT SEEING THINGS ON
8 MY SCREEN.

9 DR. GOLDSTEIN: I HAVE A QUICK QUESTION
10 PLEASE. DO YOU WANT US TO ASK QUESTIONS DURING YOUR
11 PRESENTATION OR HOLD THEM TILL THE END?

12 DR. MILLAN: I THINK THAT'S -- WE CAN --
13 WHAT I'LL DO IS I'LL TEE IT UP SO THAT I'LL LET YOU
14 KNOW WHEN I'M GOING START GOING INTO THE SUBSTANCE.
15 AND THEN WHAT WE'LL DO DURING THAT SECTION, WHICH IS
16 WHEN WE'RE TALKING ABOUT THE PROPOSED STRATEGIC PLAN
17 ITSELF, I WILL PAUSE BETWEEN EACH SECTION TO GIVE
18 YOU AN OPPORTUNITY FOR Q AND A AND DISCUSSION
19 BECAUSE THE PURPOSE OF THIS PRESENTATION IS REALLY
20 TO HAVE THE OPPORTUNITY FOR THE BOARD TO DISCUSS
21 THIS ALTOGETHER. MANY OF YOU HAVE BEEN INVOLVED IN
22 VARIOUS ASPECTS OF THIS. SO I HOPE THAT PLAN WORKS
23 FOR YOU.

24 DR. GOLDSTEIN: THANK YOU.

25 DR. MILLAN: ALL RIGHT. HERE'S THE

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1 PRESENTATION. MR. CHAIRMAN, MEMBERS OF THE BOARD,
2 THE PUBLIC, AND CIRM TEAM, FOR THIS MEETING, FOR THE
3 PRESIDENT'S REPORT, I WILL BE FOCUSING PRIMARILY AND
4 EXCLUSIVELY ON THE DRAFT STRATEGIC PLAN FOR CIRM IN
5 THE PROPOSITION 14 ERA. I WILL BE PRESENTING A HIGH
6 LEVEL OVERVIEW. THERE WILL BE NO SPECIFIC CONCEPTS
7 AND NO DETAILS PRESENTED AT THIS MEETING. IT'S
8 INTENDED TO GENERATE DISCUSSION AND PROVIDE AVENUES
9 FOR YOUR INPUT TO GUIDE US TOWARD BRINGING THE PLAN
10 FOR FINAL APPROVAL BY THE BOARD IN DECEMBER. NEXT
11 SLIDE PLEASE.

12 SO JUST BY WAY OF BACKGROUND AND SUMMARY,
13 AND THIS IS A VERY BRIEF SUMMARY, MANY OF YOU KNOW
14 THAT CIRM WAS CREATED BY PROPOSITION 71, A \$3
15 BILLION BOND INITIATIVE IN 2004. AND THANKFULLY IN
16 THE MIDST OF THE CHALLENGES IN 2020, CALIFORNIA
17 CITIZENS SUPPORTED THE PASSAGE OF PROPOSITION 14 IN
18 NOVEMBER REAUTHORIZING CIRM WITH \$5.5 BILLION IN
19 BOND FUNDING.

20 BEFORE PRESENTING THE PROPOSED STRATEGIC
21 PLAN UNDER PROPOSITION 14, I'D LIKE TO TAKE A FEW
22 MOMENTS TO REVIEW CIRM'S EXPERIENCE AND
23 ACCOMPLISHMENTS UNDER PROP 71 AS THEY SERVE AS A
24 SOLID FOUNDATION FOR ANY STRATEGY MOVING FORWARD.
25 NEXT SLIDE PLEASE, SHYAM.

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1 MAYBE GO BACK. I FORGOT TO GIVE YOU THE
2 MOUTHFUL DESCRIPTION OF WHO WE ARE. SO IN THE
3 MIDDLE BUBBLE, THESE ARE KIND OF DESCRIPTORS OF
4 CIRM'S ROLE AND WHAT DISTINGUISHES US. IT'S AN
5 ACCELERATING PATIENT-CENTRIC FUNDER, PARTNER, AND
6 DERISKER FOR BASIC, TRANSLATIONAL, AND CLINICAL
7 RESEARCH, AND FUNDER OF INFRASTRUCTURE AND EDUCATION
8 PROGRAMS. AND IN THE NEXT FEW SLIDES, I'M GOING TO
9 SO CALL UNPACK THAT STATEMENT A LITTLE BIT. NEXT
10 SLIDE PLEASE, SHYAM.

11 FIRST, CIRM IS AN ACCELERATING
12 PATIENT-CENTRIC FUNDER. PATIENTS ARE THE HEART OF
13 OUR MISSION. THEREFORE, THE IMPACT THAT WE HAVE IS
14 REALLY SOMETHING WE CAN MEASURE WHEN WE HAVE AN
15 IMPACT ON PATIENTS. SO THAT'S OUR STRONGEST SIGNAL.
16 CIRM HAS FUNDED OVER A THOUSAND PROGRAMS, INCLUDING
17 OVER 75 CLINICAL TRIALS NOW, ACROSS A BROAD RANGE OF
18 DISEASE INDICATIONS AND INCLUDING FIRST-IN-HUMAN
19 SMALL CLINICAL PHASE 1 TRIALS ALL THE WAY TO LATER
20 STAGE PIVOTAL TRIALS IN COMMON DISEASES SUCH AS
21 DIABETES TO RARE DISEASES SUCH AS INHERITED IMMUNE
22 DEFICIENCIES AND SICKLE CELL DISEASE.

23 OVER 2700 PATIENTS HAVE BEEN ENROLLED IN
24 THE VARIETY OF CIRM TRIALS THAT HAVE BEEN FUNDED TO
25 DATE. AND PICTURED HERE ARE TWO PATIENTS WHO ARE

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1 OVER FIVE YEARS OUT FROM BEING ENROLLED IN CIRM
2 CLINICAL TRIALS.

3 BRANDON ON YOUR LEFT HOLDING THE CIRM GAME
4 BALL WAS CURED OF X-LINK CHRONIC GRANULOMATOUS
5 DISEASE, WHICH IS AN INHERITED DEVASTATING CONDITION
6 WHERE HE WAS BORN WITHOUT THE ABILITY TO FIGHT OFF
7 INFECTIONS. SO THIS DISEASE IS MARKED BY RECURRENT
8 HOSPITALIZATIONS AND INFECTIONS THAT BECOME
9 RESISTANT TO ANTIBIOTICS AND REALLY EXPOSE THOSE
10 AFFECTED TO LIFE-THREATENING CONDITIONS ON A
11 CONTINUAL BASIS. HE RECEIVED A GENE-MODIFIED BLOOD
12 STEM CELL TRANSPLANT TO CORRECT THE UNDERLYING
13 CONDITION. AND IN CLINICAL TRIAL ONE OF THE FIRST
14 PATIENTS TO DEMONSTRATE SIGNAL AND THAT HIS DISEASE
15 WAS REVERSED. HE'S OVER FIVE YEARS OUT AND CURED OF
16 X-LINKED CGD.

17 EVIE ON THE RIGHT, VERY FAMILIAR TO YOU,
18 I THINK THIS IS FROM HER 7TH BIRTHDAY, IS ONE OF THE
19 DOZENS OF PATIENTS WHO HAVE BEEN CURED FROM THE
20 SO-CALLED BUBBLE BABY DISEASE. THE FORM SHE HAS IS
21 CALLED ADA-SCID, ADENOSINE DEAMINASE SEVERE COMBINED
22 IMMUNO DEFICIENCY, WHICH IS A GENETIC-BASED DISEASE.

23 IN A RECENT PUBLICATION IN *BLOOD*, DR. KOHN
24 AND HIS TEAM HAVE REPORTED THAT 90 PERCENT OF
25 PATIENTS WHO ARE OUT EIGHT TO ELEVEN YEARS HAVE HAD

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1 DURABLE CURE. SO ESSENTIALLY THIS CELL/GENE THERAPY
2 APPROACH HAS DEMONSTRATED THAT CURES ARE POSSIBLE.
3 NEXT SLIDE PLEASE, SHYAM.

4 CIRM FUNDS BASIC RESEARCH. GOOD MEDICINE
5 STARTS WITH STRONG SCIENCE. BASIC RESEARCH IS THE
6 FOUNDATION AND THE STARTING POINT FOR ANYTHING THAT
7 COULD BE DEVELOPED INTO THERAPIES. SO CIRM HAS
8 FUNDED RESEARCH ACROSS CALIFORNIA UNIVERSITIES AND
9 RESEARCH ORGANIZATIONS IN CALIFORNIA, GENERATING
10 OVER 3,000 PEER-REVIEW PUBLICATIONS. CIRM HAS ALSO
11 FUNDED THE CREATION OF DEDICATED LABS FOR STEM CELL
12 RESEARCH AS WELL AS SHARED LABS, SHARED RESOURCES,
13 SUCH AS THE WORLD'S LARGEST INDUCED PLURIPOTENT STEM
14 CELL BANK OF 2400 LINES USED FOR RESEARCH, DISEASE
15 MODELING, AND DRUG DISCOVERY. CIRM HAS ENABLED
16 INVENTIONS AND DISCOVERIES, SUPPORTED GENOMICS-BASED
17 APPROACHES IN STEM CELL SCIENCE. NEXT SLIDE PLEASE.

18 IN TERMS OF THERAPY DEVELOPMENT AND
19 CLINICAL TRIALS, CIRM IS DIFFERENTIATED FROM OTHER
20 FUNDING AGENCIES FOR ITS SUPPORT OF TRANSLATIONAL
21 AND THERAPEUTIC DEVELOPMENT WORK. WE'VE SUPPORTED
22 RESEARCH THAT HAS LED TO OVER 90 CANDIDATES
23 ADVANCING TO THE CLINICS FOR TRIAL AND THEN BEYOND.
24 ESTABLISHED THE FIRST IN-KIND STEM CELL AND
25 REGENERATIVE CLINICAL NETWORK, THE SO-CALLED ALPHA

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1 CLINICS NETWORK, WHICH YOU WILL HEAR ABOUT LATER ON
2 IN THIS PRESENTATION. AND CIRM PORTFOLIO PROGRAMS
3 ACTIVELY PARTICIPATED AND ENACTED THE NEW REGULATORY
4 PARADIGM INTRODUCED BY THE 21ST CENTURY CURES ACT OF
5 2016 WHERE THE FDA HAD PROVIDED MECHANISMS TO
6 UNIQUELY EVALUATE STEM CELL REGENERATIVE MEDICINE
7 PROJECTS. THERE WAS AN EXPEDITED PATHWAY
8 DESIGNATION CALLED RMAT, REGENERATIVE MEDICINE
9 ADVANCED THERAPY, DESIGNATIONS FOR CELL AND GENE
10 THERAPIES. AND CIRM PROGRAMS WERE AMONG THE FIRST
11 TO RECEIVE THIS DESIGNATION. AND CURRENTLY CIRM
12 PORTFOLIO PROGRAMS ACCOUNT FOR 15 PERCENT OF THE
13 RMATS THAT HAVE BEEN ISSUED BY THE FDA. THESE
14 PROVIDE EXPEDITED PATHWAYS AND FREQUENT
15 COLLABORATIVE ASSOCIATION WITH THE FDA TO LEARN
16 TOGETHER AND TO DEVELOP THESE INNOVATIVE AND NOVEL
17 TYPES OF THERAPIES.

18 ALL THROUGH ITS FUNDING AND PARTNERSHIP
19 PROGRAMS, CIRM HAS INCREASED THE PROGRESSION OF
20 THERAPIES FROM EARLY STAGE RESEARCH INTO FDA
21 REGULATED CLINICAL TRIALS WITH NOTABLY SHORT
22 TIMELINES. A VERY IMPORTANT EXAMPLE OF THAT IS THE
23 SICKLE CELL PROGRAM THAT'S BEING CONDUCTED BY MARK
24 WALTERS AT UCSF. IT'S IN COLLABORATION WITH DON
25 KOHN AT UCLA AND WITH IGI AT BERKELEY WITH JENNIFER

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1 DABNO'S LAB. IT'S A CRISPR BASED CELL/GENE THERAPY
2 APPROACH FOR CURE SICKLE CELL. AND THIS IS BEING
3 CO-FUNDED WITH THE NIH, THE HEART LUNG BLOOD
4 INSTITUTE, WHO WE HAVE A KIND OF A LANDMARK MOU AND
5 CO-FUNDING PARTNERSHIP FOR CURE SICKLE CELL. NEXT
6 SLIDE PLEASE.

7 IN TERMS OF BUILDING AN ECOSYSTEM, CIRM
8 HAS BUILT A REGENERATIVE MEDICINE ECOSYSTEM IN
9 CALIFORNIA THAT'S UNPARALLELED WORLDWIDE. WE'VE
10 TRAINED OVER 3,000 STUDENTS, STIMULATED THE
11 CALIFORNIA ECONOMY WITH TAX REVENUE AND JOB CREATION
12 AND, ATTRACTED INDUSTRY INVESTMENT INTO CIRM
13 PROGRAMS. MANY OF YOU WHO WERE HERE FOR THE
14 PRESENTATION OF THE LAST STRATEGIC PLAN, THE 2016 TO
15 2020 STRATEGIC PLAN, YOU KNOW THAT ONE OF THE MAJOR
16 GOALS WAS TO INCREASE INDUSTRY PULL BECAUSE AT THAT
17 TIME THERE WAS VERY LITTLE INDUSTRY INVESTMENT. IT
18 WAS JUST TOO RISKY.

19 ALONG WITH THE PROGRESSION OF THE FIELD,
20 CIRM HAS ALSO BEEN INVOLVED IN INCREASING THIS PULL
21 WITH OVER \$18 BILLION IN INDUSTRY INVESTMENT BY WAY
22 OF PARTNERSHIP, IPO'S, FOLLOW-ON FINANCING, AND
23 LICENSING EVENTS. \$18 BILLION JUST OVER THE PAST
24 FIVE YEARS ALONE. NEXT SLIDE PLEASE.

25 SO THAT'S KIND OF A VERY, VERY LIGHTNING

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1 ROUND OVERVIEW OF WHAT'S BEEN ACCOMPLISHED TO DATE
2 UNDER CIRM PROP 71 ERA. GIVEN WHAT CIRM HAS DONE
3 UNDER PROP 71 AND THE FUNDING PROVIDED BY PROP 14,
4 CIRM IS UNIQUELY POSITIONED TO DESIGN A STRATEGIC
5 PLAN TO USHER IN THE NEXT ERA FOR REGENERATIVE
6 MEDICINE.

7 IN EARLY 2020, EVEN BEFORE WE KNEW IF THE
8 PROPOSITION WOULD MAKE IT ON THE BALLOT, LET ALONE
9 PASS, CIRM HAD ALREADY STARTED THE STRATEGIC
10 PLANNING PROCESS ALONG WITH THE BOARD. IT ASSEMBLED
11 INTERNALLY INTO FOUR STRATEGY PROJECT TEAMS TO
12 EXPLORE GAPS IN OPPORTUNITIES IN THE FOLLOWING
13 AREAS: ADVANCING WORLD-CLASS SCIENCE, PATHWAYS TO
14 COMMERCIALIZATION, ADDRESS HURDLES TO PATIENT
15 ACCESS, AND EVALUATE HOW CIRM CAN BRING ITS ENGINE,
16 ITS CIRM FUNDING OPERATIONAL ENGINE, TO EVEN AN
17 HIGHER LEVEL TO ADDRESS THE NEEDS GOING FORWARD.
18 NEXT SLIDE PLEASE, SHYAM.

19 WE ENGAGED IN INTELLIGENCE GATHERING,
20 COLLECTED VALUABLE STAKEHOLDER INPUT, WE GATHERED,
21 EXAMINED, SORTED AND TESTED IN THE FOLLOWING WAYS:
22 WE CONTINUED TO BE INVOLVED IN NATIONAL AND
23 INTERNATIONAL MEETINGS TO REMAIN CURRENT WITH
24 ISSUES, TRENDS, ADVANCES, AND BEST PRACTICES ACROSS
25 THE FOUR STRATEGIC THEMES AND WORKING GROUPS. AND

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1 WE OURSELVES ORGANIZED PRESENTATIONS, WORKSHOPS,
2 PANELS, AND MEETINGS AND KOL, KEY OPINION LEADER,
3 GATHERINGS TO ENGAGE THE BOARD, PATIENT AND GENERAL
4 PUBLIC, SCIENTISTS, INDUSTRY LEADERS, AND EXTERNAL
5 KEY OPINION LEADERS.

6 NOTABLY YOU WILL RECALL THAT IN FEBRUARY
7 THE PRESIDENT OF CIRM -- THE CIRM PRESIDENT, CHAIR,
8 AND JOINT SCIENTIFIC STRATEGY ADVISORY PANEL MEETING
9 WAS CONDUCTED WHERE WE ASSEMBLED THE TOP LEADERS IN
10 THE FIELD TO ADVISE US. AND FROM THAT WE BROUGHT
11 THAT BACK TO THE BOARD IN MARCH. THAT HAS GUIDED US
12 IN TERMS OF THE STRATEGIC FOCUS FOR OUR SCIENCE.

13 IN ADDITION, WE HELD A STAKEHOLDER TOWN
14 HALL MEETING FOR CALIFORNIA SCIENTISTS AND LEADERS
15 AND STUDENTS WHERE WE GAINED EXTREMELY IMPORTANT
16 FEEDBACK. AND WE ACTUALLY CONDUCTED A SURVEY THAT
17 HAS ALSO UNCOVERED SOME NEEDS THAT YOU WILL HEAR
18 ABOUT IN A LITTLE BIT. WE ENGAGED POLICY LEADERS,
19 PATIENT COMMUNITIES, PATIENT NAVIGATION SPECIALISTS,
20 AND PATIENT ACCESS PROFESSIONALS FROM REGENERATIVE
21 MEDICINE COMPANIES AND THE COMMUNITY TO DISCUSS
22 COMMUNITY ENGAGEMENT, PATIENT NAVIGATION, AND
23 HURDLES TO PATIENT ACCESS.

24 WE EXPLORED SPECIFIC TOPIC AREAS SUCH AS
25 DATA SHARING, INDUSTRY ENGAGEMENT, MANUFACTURING,

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1 COMMERCIALIZATION ISSUES WITH ACADEMIC ENTITIES,
2 INDUSTRY, AND THE COMMUNITY.

3 SO FROM THIS I WILL NOW PRESENT THE
4 INFORMATION AS WE HAVE ASSEMBLED IT, HAVE BEEN
5 GUIDED BY OUR BOARD, IN THE VARIOUS TOPIC AREAS AND
6 WILL BE PRESENTING A PROPOSED FIRST MISSION
7 STATEMENT AND DRAFT STRUCTURE FOR OUR STRATEGIC
8 PLAN. NEXT SLIDE PLEASE, SHYAM.

9 FIRST, THE MISSION STATEMENT. AND I WILL
10 PAUSE AFTER THIS MISSION STATEMENT ONLY TO SAY THAT
11 AFTER DISCUSS THE MISSION STATEMENT, I WILL EXPLAIN
12 HOW THIS FITS AND IS ALIGNED WITH THE PROPOSED
13 STRATEGIC PLAN.

14 AS YOU RECALL, OUR CURRENT MISSION
15 STATEMENT IS ACCELERATING STEM CELL TREATMENTS TO
16 PATIENTS WITH UNMET MEDICAL NEEDS. WE ARE PROPOSING
17 THAT WE SHOULD EVOLVE THIS MISSION STATEMENT BASED
18 ON THE INFORMATION GATHERING AND DISCUSSIONS WE'VE
19 HAD OVER THE PAST TWO YEARS TO ACCELERATING
20 WORLD-CLASS SCIENCE, TO DELIVER TRANSFORMATIVE
21 REGENERATIVE MEDICINE TREATMENTS TO CALIFORNIA AND
22 WORLDWIDE. WE BELIEVE THIS IS MORE CURRENT AND WILL
23 LEAD US FORWARD AS A GUIDING LIGHT AS WE'VE ALWAYS
24 USED OUR MISSION STATEMENT. NEXT SLIDE PLEASE.

25 SO TO BREAK THIS DOWN, THE ANATOMY OF THE

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1 MISSION STATEMENT. ACCELERATING, WE KEPT THE WORD
2 "ACCELERATING." THIS IS FUNDAMENTAL TO CIRM'S
3 IDENTITY AND VALUE PROPOSITION. WE ACCELERATE
4 THROUGH OUR FUNDING MODEL, PARTNERSHIPS AND
5 PROMOTING A CULTURE OF COLLABORATION AND TEAM
6 SCIENCE, AND WE WOULD LIKE TO EVEN BUILD AND
7 STRENGTHEN THAT FURTHER.

8 WE CHOSE WORLD-CLASS SCIENCE AND
9 REGENERATIVE MEDICINE IN THE DESCRIPTORS HERE IN THE
10 FIRST AND SECOND LINE OF THE MISSION STATEMENT TO
11 REPLACE STEM CELL TREATMENTS BECAUSE IT REFLECTS A
12 BROADER REMIT OF WHAT CIRM HAS BEEN FUNDING OF THE
13 TRANSFORMATIVE APPROACHES IN CELL AND GENE THERAPY
14 AND OTHER FUTURE VITAL RESEARCH OPPORTUNITIES, ALL
15 SUPPORTED AND ACCOUNTED FOR UNDER PROP 14.

16 DELIVER. DELIVER IS A VERB AND WAS
17 DELIBERATELY CHOSEN TO REFLECT SPECIFIC ACTIONS THAT
18 CIRM WOULD TAKE TO BRING THESE TRANSFORMATIVE
19 ADVANCEMENTS TO BEYOND THE BENCH, BEYOND THE
20 CONTROLS AND LIMITED SETTING OF CLINICAL TRIALS TO
21 THE REAL WORLD. THE REAL WORLD INCLUDES DIVERSE,
22 UNDERREPRESENTED, AND OFTEN DISPROPORTIONATELY
23 AFFECTED COMMUNITIES.

24 DELIVERING, THE FINAL LINE, TO CALIFORNIA
25 AND WORLDWIDE. DELIVERING TO A DIVERSE CALIFORNIA

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1 WILL DELIVER A MORE COMPLETE UNDERSTANDING OF
2 BIOLOGY, MORE COMPLETE REPRESENTATION OF THE
3 INTENDED PATIENT POPULATIONS FOR WHICH WE ARE
4 DEVELOPING THESE THERAPIES. DELIVERING TO A DIVERSE
5 CALIFORNIA INCREASES THE BENEFIT TO OUR DIVERSE
6 WORLDWIDE COMMUNITY.

7 SO THAT IS THE BREAKDOWN AND THE
8 EXPLANATION FOR THE PROPOSED NEW MISSION STATEMENT.
9 I'M HAPPY TO TAKE QUESTIONS AND INPUT AT THIS TIME
10 BEFORE WE MOVE ON. CHAIRMAN THOMAS, IF YOU WANTED
11 TO MODERATE ANY Q AND A HERE. I DON'T SEE ANY HANDS
12 RAISED OR ANYTHING.

13 MS. BONNEVILLE: KEITH HAS HIS HAND
14 RAISED.

15 DR. MILLAN: THANK YOU, MARIA.

16 DR. YAMAMOTO: THANKS, MARIA, FOR THIS.

17 I HAVE A COMMENT ON ONE OF THE VERY FIRST
18 SLIDES THAT YOU SHOWED WHEN YOU NOTED THAT CIRM IS A
19 PATIENT CENTRIC ORGANIZATION AND, THEREFORE, WE
20 MEASURE OUR IMPACT BY -- I'M NOT SURE WHAT YOU SAID
21 HERE -- BY MEASURING IMPROVEMENT IN PATIENT LIVES,
22 SOMETHING LIKE THAT. AND I THINK THAT I HAVE TWO
23 CONCERNS ABOUT FRAMING IT IN THAT WAY. ONE, OF
24 COURSE, IS THE IMPACTS OF BASIC, TRANSLATIONAL,
25 CLINICAL, AND POPULATION RESEARCH ARE NOT PARALLEL

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1 OF IMPACTS ON PATIENT LIVES. THEY ARE NOT PARALLEL;
2 THEY'RE NOT ON PARALLEL TRAJECTORIES. AND SO MAKING
3 A SIMPLE STATEMENT THAT MEASURE IMPACT BY LOOKING AT
4 IMPROVEMENT OF PATIENT LIVES CAN BE MISLEADING IN
5 THAT SENSE AND JUDGING WHAT THE IMPACTS OR
6 IMPORTANCE OF THE DIFFERENT TYPES OF RESEARCH ARE
7 THAT CIRM SUPPORTS.

8 AND, SECONDLY, THE IMPACTS ARE NOT LINEAR
9 IN THE SENSE THAT BOLD IDEAS ARE BOLD BECAUSE THEY
10 HAVE A RELATIVELY HIGH POTENTIAL FOR FAILURE. BUT
11 CIRM FUNDING BOLD IDEAS THAT FAIL IS NOT EVIDENCE OF
12 POOR JUDGMENT IN MAKING FUNDING DECISIONS OR
13 ANYTHING OF THE SORT. IT'S JUST THE NATURE OF
14 FUNDING BOLD IDEAS, AND IT'S IMPORTANT THAT CIRM BE
15 WILLING TO TAKE THOSE KINDS OF RISKS TO ADVANCE
16 THINGS IN A NONLINEAR WAY.

17 SO I JUST THOUGHT THAT IT WAS A BIT
18 SIMPLISTIC TO SAY BECAUSE WE ARE A PATIENT CENTRIC
19 ORGANIZATION, WE MEASURE OUR IMPACT BY MEASURING THE
20 EFFECT OF WHAT WE DO ON PATIENT LIVES.

21 DR. MILLAN: THANK YOU, DR. YAMAMOTO. AND
22 PERHAPS I WAS OVERLY SIMPLISTIC TO MAKE A VERY
23 STRONG STATEMENT. WHAT I INTENDED TO SAY WAS THAT
24 IMPACTS ON PATIENTS IS A VERY STRONG SIGNAL OF THE
25 VALUE OF CIRM. BUT CERTAINLY ALL ASPECTS OF CIRM

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1 FROM BASIC DISCOVERY ALL THE WAY THROUGH, WHETHER
2 PROJECTS SEEMINGLY DON'T WORK OUT INITIALLY TO WHERE
3 IT DOWN THE ROAD DOES BECOME RELEVANT AND
4 DOES IMPACT IN OTHER WAYS IS ABSOLUTELY SOMETHING
5 THAT'S EMBEDDED INTO HOW WE ARE THINKING, FIRST OF
6 ALL, AND HOW WE HAVE RUN CIRM AND HOW WE'RE THINKING
7 OF CIRM GOING FORWARD.

8 SO IT MAY HAVE BEEN MISLEADING FOR ME TO
9 OVEREMPHASIZE THAT, BUT IN EFFECT CALIFORNIA
10 CITIZENS HAVE SUPPORTED US BECAUSE THEIR BELIEF THAT
11 IT WILL IMPACT THEIR LIVES. SO I ACTUALLY FEEL THAT
12 IT'S REALLY IMPORTANT THAT WE FOLLOW THOSE SIGNALS
13 AND MAKE SURE THAT THEY ARE IN FRONT OF US STRONGLY
14 BECAUSE, WHILE WE ARE PUSHING THE SCIENCE FORWARD
15 AND WHILE WE UNDERSTAND THAT THE PROCESS OF SCIENCE
16 DOESN'T ALWAYS HAVE VISIBLE, IMMEDIATE IMPACT, WE
17 ACTUALLY DO NEED TO HAVE SOME INDICATION THAT WE'RE
18 GOING THE RIGHT DIRECTION. SO THAT'S WHAT I
19 INTENDED, AND I APOLOGIZE IF IT SEEMED MISLEADING.

20 MS. BONNEVILLE: LINDA ACTUALLY HAD HER
21 HAND UP AND I LOWERED IT BY ACCIDENT.

22 DR. BOXER: I WONDERED WHO DID THAT.

23 MS. BONNEVILLE: ABSOLUTELY.

24 DR. BOXER: MARIA, I REALLY LIKE THE NEW
25 MISSION STATEMENT. I THINK IT'S REALLY MUCH BROADER

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1 AND EXCITING. THE ONE QUESTION I HAVE ABOUT IT IS
2 IS IT REALLY CLEAR THAT THE EDUCATIONAL COMPONENT IS
3 SO IMPORTANT TO THE MISSION OF CIRM? AND I SEE
4 YOU'VE ADDED IN "AND A TRAINED WORKFORCE," BUT IT'S
5 JUST A QUESTION. WHEN I READ IT, IT DOESN'T
6 IMMEDIATELY STRIKE ME THAT WAY, ALTHOUGH CERTAINLY
7 KNOWING THE HISTORY OF CIRM AND KNOWING THE PLANS,
8 THAT IS THE CASE.

9 DR. MILLAN: DR. BOXER, THANK YOU SO MUCH
10 FOR THAT QUESTION. IN FACT, THAT IS SOMETHING THAT
11 WE WERE TRYING TO CAPTURE. SO DELIVER AND
12 TRANSFORMATIVE KIND OF EMBEDDED IN THERE. WE CAN'T
13 DELIVER IT WITHOUT A TRAINED WORKFORCE. WE CAN'T
14 PRODUCE A PRODUCT WITHOUT A TRAINED WORKFORCE IN
15 MANUFACTURING. WE CAN'T TREAT PATIENTS WITHOUT A
16 TRAINED FORCE, AND THE MEDICAL FIELD CAN'T ADVANCE
17 THIS WITHOUT A TRAINED WORKFORCE AND LEADERSHIP IN
18 THE SCIENTIFIC ARENA.

19 SO DELIVER AS A STRONG VERB HAS THAT
20 ALL -- IN ORDER TO BE ABLE TO DELIVER, THESE ARE ALL
21 THE THINGS THAT NEED TO BE IN PLACE. IF YOU
22 RECALL -- SHYAM, IF YOU CAN BACK UP ONE SLIDE -- IN
23 THE OLD, IN THE PREVIOUS, OUR CURRENT MISSION
24 STATEMENT, WHAT WE NOTED AS ACCELERATING STEM CELL
25 TREATMENTS TO PATIENTS WITH UNMET MEDICAL NEEDS, WE

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1 SAID ACCELERATING, SO YOU ACCELERATE. BUT WHEN YOU
2 SAY TO, WHAT DOES THAT MEAN "TO"? SO WE REALLY
3 NEEDED TO UNDERSTAND WHAT IS THE -- TO IS NOT A
4 VERB, RIGHT, SO WHAT DOES THAT MEAN? THAT'S WHAT WE
5 TRIED TO CAPTURE BY THE WORD "DELIVER."

6 AND AS MANY OF YOU KNOW WHO HAVE BEEN
7 INVOLVED IN STRATEGIC PLANNING AND MISSION STATEMENT
8 CRAFTING, IT IS AN IMPERFECT SCIENCE. WE TRIED TO
9 CAPTURE THAT, BUT WHAT WE DO HOPE IS THAT IN OUR
10 STRATEGIC PLAN THAT THAT IS MORE FULLY DEVELOPED.
11 AND AS WE HAVE BEEN DEVELOPING THE PLAN, WE HAVE
12 BEEN LINKING IT BACK TO THE MISSION STATEMENT AND
13 MAKING SURE THAT EVERYTHING THAT WE ARE TALKING
14 ABOUT IN THE PLAN LINKS SOMEHOW TO A WORD OR TO THE
15 SPIRIT OF THE WORD OR WORDS IN THE MISSION
16 STATEMENT.

17 BUT IF YOU HAVE ANY RECOMMENDATIONS TO ADD
18 TO THIS, THE IDEA IS FOR THE BOARD TO GIVE US
19 ADDITIONAL INPUT. AND WE ARE REALLY HAPPY TO LOOK
20 THROUGH THIS. WE ACTUALLY HAD CHANGED DIFFERENT
21 THINGS. INSTEAD OF TRANSFORMATIVE, WE HAD HIGH
22 IMPACT IN THE PAST, AND THE IMPACT WAS ALSO GOING
23 TO -- THE IMPACT WAS ON THE IMPACT IN TERMS OF THE
24 ECOSYSTEM. WE TOOK THAT OUT AND REPLACED IT WITH
25 TRANSFORMATIVE BECAUSE OF SOME FEEDBACK WE HAD

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1 GOTTEN IN TERMS OF MAKING SURE THAT WE REALLY
2 CAPTURE WHAT THIS MEANS, WHAT THE IMPACT OF CIRM IS
3 AS TRANSFORMATIVE.

4 DR. MARTIN: I WOULD JUST ADD TO WHAT
5 LINDA SAID WITH A SLIGHTLY DIFFERENT EMPHASIS. AND
6 THAT IS EDUCATION IS OBVIOUSLY KEY. AND THERE WAS A
7 QUESTION ASKED AT ONE OF OUR MEETINGS RECENTLY WITH
8 OUTSIDE ADVISORS WHAT -- THE QUESTION WAS WHAT WILL
9 BE THE LEGACY OF CIRM. AND I FIRMLY BELIEVE THAT
10 THE LEGACY IS GOING TO BE THE EFFECT OF OUR
11 EDUCATIONAL PROGRAMS. THAT WILL HAVE THE GREATEST
12 EFFECT.

13 WE'RE ADVANCING SCIENCE, ET CETERA, AND
14 OTHERS ARE AS WELL. AND I THINK THAT'S REALLY
15 CRITICAL IN TREATING PATIENTS. BUT EDUCATING
16 SCIENTISTS OR EVEN JUST OTHER STAKEHOLDERS, EDUCATED
17 POPULATION ON THE SCIENCE OF STEM CELLS AND
18 REGENERATIVE MEDICINE IS GOING TO BE OF
19 EXTRAORDINARY VALUE 15, 20 YEARS FROM NOW. THAT'S
20 WHERE I THINK THE GREATEST IMPACT WILL BE, THE
21 GREATEST LEGACY.

22 MS. BONNEVILLE: PAT, YOU HAVE YOUR HAND
23 UP. YOU'RE NEXT.

24 DR. LEVITT: MARIA, THIS IS ALWAYS MY
25 LEAST FAVORITE EXERCISE, HAVING TO COME UP WITH A

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1 MISSION STATEMENT BECAUSE THE AUDIENCE -- BECAUSE
2 SOMETIMES THE MISSION STATEMENT IS FOR THOSE WHO ARE
3 WITHIN THE INSTITUTION, RIGHT, SO THAT THEY
4 UNDERSTAND WHAT OUR MISSION IS. AND SOMETIMES IT'S
5 DIRECTED OUTWARD, AND IT'S HARD TO COME UP WITH A
6 CHIMERIC MISSION STATEMENT THAT SATISFIES ALL.

7 SO I'M JUST WONDERING. I'M CERTAIN THIS
8 HAS BEEN LOOKED AT BY PATIENTS AND OTHERS TO GET
9 THEIR IMPACT. DELIVER TRANSFORMATIVE REGENERATIVE
10 MEDICINE TREATMENT IS A MOUTHFUL, RIGHT. AND
11 REGENERATIVE MEDICINE IS ALWAYS -- IS ALREADY IN THE
12 TITLE OF THE ORGANIZATION, CALIFORNIA INSTITUTE FOR
13 REGENERATIVE MEDICINE. SO I'M WONDERING WHAT WERE
14 THE RESPONSES TO THIS? WAS THERE A CLEAR
15 UNDERSTANDING OF WHAT THIS MEANS FOR THIS
16 PATIENT-CENTRIC ORGANIZATION?

17 DR. MILLAN: THANK YOU FOR THAT COMMENT,
18 DR. LEVITT. SO REGENERATIVE MEDICINE WAS A TOPIC OR
19 WAS PULLED OUT OF THE MISSION STATEMENT AND ASKED
20 WHY THIS? WHY DID YOU REPLACE STEM CELLS? WHY
21 REGENERATIVE MEDICINE? YES, IT'S A PATIENT-CENTRIC
22 ORGANIZATION, BUT THE REGENERATIVE MEDICINE WAS IN
23 THERE PROBABLY FOR THE RESEARCHERS TO REALIZE THAT
24 IT'S BROADER THAN STEM CELLS, THAT IT ALSO INCLUDES
25 GENE THERAPY, IT ALSO INCLUDES WHATEVER THE NEXT

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1 GENERATION IS, TECHNOLOGIES AND VITAL RESEARCH
2 OPPORTUNITIES.

3 SO THE TREATMENTS WERE THERE FOR THE
4 PATIENTS. THE TRANSFORMATIVE WAS THERE FOR THE
5 COMMUNITY. AND REGENERATIVE MEDICINE IS THERE FOR
6 THE SCIENTISTS. I GUESS IT'S SIMPLY HOW WE TRIED TO
7 MAKE SURE THAT IT SPOKE TO ALL AUDIENCES.

8 DR. LEVITT: OKAY. THANKS.

9 MS. BONNEVILLE: FRED, YOU'RE NEXT.

10 DR. FISHER: GOOD MORNING, EVERYONE. SO
11 WHEN I WAS LISTENING TO THE DISCUSSION ABOUT
12 EDUCATION AND MISSION STATEMENTS AND FROM MY
13 EXPERIENCE, I DON'T NECESSARILY TALK ABOUT HOW
14 YOU'RE GOING TO ACHIEVE THE OUTCOME. THE MISSION
15 STATEMENT IS THE OUTCOME. IT'S HOW YOU KNOW YOU'RE
16 DONE. HOW YOU KNOW YOU'VE ACHIEVED THE 30,000 FOOT
17 GOAL OF THE ORGANIZATION. HOW YOU'RE GOING TO GO
18 ABOUT THAT THROUGH EDUCATION AND SCIENTIFIC PROGRAMS
19 AND ALL THE REST. THAT'S THE HOW, WHICH REALLY
20 ISN'T THE MISSION.

21 AND SO I WANT TO JUST CONGRATULATE AND
22 THANK THE GROUP THAT NOODLED ON THIS FOR COUNTLESS
23 HOURS. BUT FOR ME ALL THE PROGRAMS THAT ARE GOING
24 TO BE NECESSARY TO ACHIEVE THIS OVERARCHING GOAL,
25 THEY'RE ALL IMPORTANT, THEY'RE ALL ESSENTIAL. THEY

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1 SHOULDN'T BE IN A MISSION STATEMENT BECAUSE THAT'S
2 REALLY ABOUT THE HOW, NOT ABOUT THE WHAT. AND THIS
3 IS THE 30,000 FOOT. WHAT ARE WE ABOUT AND HOW WILL
4 WE KNOW WHEN WE'RE DONE? THAT'S THE ONLY CONTEXT I
5 WOULD ADD IN RESPONSE TO THE OTHER COMMENTS.

6 DR. MILLAN: THANK YOU, DR. FISHER. SO DO
7 YOU BELIEVE THAT THIS CAPTURES THAT IN TERMS OF
8 MAKING CLEAR WHAT WE'RE ABOUT AND HOW WE KNOW WE ARE
9 DONE?

10 DR. FISHER: I THINK IT DOES. THE OTHER
11 THING THAT IT DOES IN LISTENING TO THE QUESTIONS
12 BOUT ABOUT TRANSFORMATIVE REGENERATIVE MEDICINE, I
13 DON'T KNOW IF IT'S THE INTENTION, BUT IN MY MIND IT
14 KIND OF CREATES SOME GUIDE RAILS SO THAT IF SOMEBODY
15 COMES UP WITH SOME GREAT IDEA THAT'S CONNECTED TO A
16 SMALL MOLECULE, WELL, I DON'T KNOW IF THE
17 REGENERATIVE MEDICINE NOTION SUGGESTS THAT, YEAH,
18 THAT'S REALLY FOR A DIFFERENT ORGANIZATION, A
19 DIFFERENT FUNDING SOURCE OTHER THAN CIRM.

20 SO I'M COMFORTABLE WITH IT. AND SOMEONE
21 ELSE, YOU'LL TELL ME IF I'M RIGHT OR WRONG ABOUT THE
22 GUIDE RAILS THAT, INCLUDING REGENERATIVE MEDICINE,
23 KIND OF PUTS UP BECAUSE IT HELPS NARROW THE
24 DECISION-MAKING PROCESS FROM A GRANTS POINT OF VIEW
25 OF WHAT KIND OF GRANTS ARE WE OPEN TO LOOKING AT AND

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1 WHAT KIND OF GRANTS, ALTHOUGH MAY BE TERRIFIC IDEAS,
2 ARE NOT APPROPRIATE FOR CIRM FUNDING.

3 DR. MILLAN: THANK YOU SO MUCH.

4 MS. BONNEVILLE: ELENA.

5 DR. FLOWERS: HI, EVERYONE. I REALLY LIKE
6 A LOT OF THESE COMMENTS AND PARTICULARLY THAT THE
7 TRAINING PROGRAMS HAVE A POTENTIAL TO REALLY BE THE
8 LEGACY THAT WILL HAVE THIS LASTING IMPACT.

9 I'M ALSO WONDERING IF THERE WAS SOME
10 DISCUSSION ABOUT SORT OF JUST CALLING OUT A LITTLE
11 BIT MORE AT THE FOREFRONT THE COMMITMENT TO
12 DIVERSITY, EQUITY, AND INCLUSION, PARTICULARLY WITH
13 REGARDS TO THE POPULATION OF CALIFORNIA AND
14 WORLDWIDE. I THINK ALL INSTITUTIONS ARE REALLY
15 GRAPPLING RIGHT NOW WITH HOW TO DO THAT MEANINGFULLY
16 AND HOW TO HAVE THAT REALLY INTEGRATED AND EMBEDDED
17 FROM START TO FINISH WHEN WE'RE CONCEIVING OF IDEAS,
18 DEVELOPING THINGS, EVALUATING PROGRAMS, ET CETERA.
19 AND IF THAT'S SOMETHING THAT WAS DISCUSSED OR MAYBE
20 COULD BE CONSIDERED TO BE INCLUDED IN JUST A REALLY
21 UP-FRONT WAY.

22 DR. MILLAN: THANK YOU SO MUCH. WE
23 ACTUALLY HAD -- SO AS YOU PROBABLY CAN IMAGINE, WE
24 HAD ALMOST 50 VARIATIONS OF THIS MISSION STATEMENT,
25 AND ONE OF THEM DID HAVE TO A DIVERSE CALIFORNIA, TO

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1 ALL CALIFORNIANS. AND THEN THERE WAS A STATEMENT,
2 WELL, THE IMPACT IS BEYOND CALIFORNIA, AND IT'S
3 TRUE. AND SO THE EXPLANATION THAT I HAD I THINK
4 MAYBE FALLS INTO THE CATEGORY OF WHAT DR. FISHER
5 TALKED ABOUT, WHICH IS THAT THE HOW-TOS, RIGHT, IN
6 TERMS OF HOW WE'RE GOING TO ACCOMPLISH THIS, IF WE
7 DELIVER THIS TO CALIFORNIA, TO ALL CALIFORNIANS, TO
8 A DIVERSE CALIFORNIA COMMUNITY, ALL OF THESE THINGS
9 WILL HAVE HAD TO BE IN THE HOW-TOS IN ORDER TO
10 ACHIEVE THIS. IN ORDER TO SUCCESSFULLY DELIVER IT,
11 THEN THE PRINCIPLES OF DEI, DIVERSITY, EQUITY, AND
12 INCLUSION, AND ALL THE PROBLEM STATEMENTS RELATED TO
13 HOW YOU BEST DELIVER THIS, BOTH FROM AN ACCESS AND
14 EQUITY PERSPECTIVE, FROM THE CHALLENGE OF SCIENTIFIC
15 AND HEALTHCARE DELIVERY, EVERYTHING HAS TO FALL IN
16 PLACE ON ORDER FOR THIS TO HAPPEN.

17 SO IT FALLS IN THE CATEGORY OF MISSION
18 STATEMENT. IT'S ALREADY A MOUTHFUL OF TRYING TO
19 CAPTURE IT ALL AND USE IT AS KIND OF THE NUCLEUS FOR
20 THE REST OF HOW THIS PLAYS OUT AND HOW-TOS AND THE
21 DOWNSTREAM KIND OF PROGRAMS RELATED TO IT. I HOPE
22 THAT THAT'S ANSWERS YOUR QUESTION, BUT IT DEFINITELY
23 IS EXTREMELY IMPORTANT. AND YOU WILL SEE THAT
24 PLAYED OUT A LITTLE BIT MORE WHEN I PRESENT THE REST
25 OF THE STRATEGIC PLAN.

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1 DR. FLOWERS: THAT'S GREAT. I WAS GOING
2 TO SAY IT'S NOT IN THIS MOUTHFUL OF A SENTENCE WHICH
3 I COMPLETELY ACKNOWLEDGE THAT CHALLENGE, THAT IT
4 REALLY IS CALLED TO THE FOREFRONT KIND OF THROUGHOUT
5 AS THE PLAN UNFOLDS.

6 DR. MILLAN: THANK YOU SO MUCH.

7 MS. BONNEVILLE: KRISTINA.

8 DR. VUORI: SO I ALSO WANTED TO
9 CONGRATULATE MARIA AND THE WHOLE TEAM. AS, I THINK,
10 PAT SAID EARLIER, COMING UP WITH MISSION STATEMENTS
11 IS NOT NECESSARILY EITHER FUN, NOR ALWAYS A VERY
12 SORT OF CLEAR OBJECTIVE, BUT I THINK YOU HAVE DONE A
13 GREAT JOB IN CAPTURING LOTS OF, IF NOT ALL OF THE
14 SENSE WHAT CIRM HOPEFULLY WILL BE ABOUT UNDER THE
15 PROP 14.

16 I WAS ALSO LISTENING TO THE CONVERSATION
17 ABOUT THE EDUCATION AND ABSOLUTELY AGREE THAT THAT
18 IS ONE OF THE MANY LEGACIES THAT I HOPE THAT CIRM
19 WILL LEAVE. IT'S A VERY UNIQUE PROGRAM THAT NOBODY
20 ELSE REALLY HAS IN THE WORLD AT THE LEVEL WHAT CIRM
21 IS DOING.

22 BUT SIMILAR TO FRED, I ALSO THINK THAT THE
23 MISSION STATEMENT SHOULD NOT REALLY FOCUS ON HOW WE
24 DO THINGS, BUT TO WHAT END WE ARE DOING THOSE. AND
25 I THINK THE DELIVERABLE FROM MY PERSPECTIVE FOR

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1 EDUCATION IS THAT THROUGH EDUCATION WE WILL
2 ACCELERATE WORLD-CLASS SCIENCE, DELIVER THE
3 TRANSFORMATIVE REGENERATIVE MEDICINE TREATMENTS
4 REALLY TO ALL THE DIVERSE POPULATION OF CALIFORNIA
5 AND IMPACT ALSO GLOBALLY. SO YOU HAVE CAPTURED IT
6 REALLY QUITE NICELY. THERE ARE PROBABLY MANY OTHER
7 WORDS THAT WE COULD ADD HERE, BUT I ALSO THINK THAT
8 THE WAY YOU HAVE EXPLAINED THE WORDS IN THE MISSION
9 STATEMENT COULD BE A VERY NICE DISCUSSION TOOL FOR
10 ALL OF US, ICOC MEMBERS AND OTHERS, TO REALLY HAVE
11 CONVERSATION ABOUT THE MISSION STATEMENT WITH OTHER
12 FOLKS AND THEN SIMPLY GO ABOUT, WELL, LET ME EXPLAIN
13 WHAT THIS MEANS. I THINK THAT'S ONE WAY TO
14 COMMUNICATE THE IMPORTANCE OF CIRM. SO GREAT JOB.

15 MR. MILLAN: THANK YOU, DR. VUORI.

16 MS. BONNEVILLE: DEBORAH.

17 DR. DEAS: YES. I REALLY APPRECIATE HOW
18 THOUGHTFUL THE TEAM HAS BEEN IN FORMING THE NEW
19 MISSION STATEMENT. I WOULD LIKE TO GO BACK TO WHAT
20 ELENA SAID IN TERMS OF THE DIVERSITY. IT REALLY
21 DOESN'T STAND OUT, AND I KNOW THAT IT'S IMPLIED IN
22 MANY ASPECTS. AND AS YOU'VE STATED, IN ORDER FOR US
23 TO DO THIS, WE HAVE TO INTEGRATE DIVERSITY.
24 HOWEVER, IT DOESN'T COME -- IT'S NOT RAISED TO THE
25 LEVEL THAT IS FRONT AND CENTERED OR FULLY INTEGRATED

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1 ON THE FRONT END. IT'S NOT OUTWARD FACING.

2 SO WHAT I WOULD SUGGEST IS THAT IT'S EASY
3 TO ADD A FEW WORDS WHEN I READ THIS, ACCELERATING
4 WORLD-CLASS SCIENCE, TO DELIVER TRANSFORMATIVE
5 REGENERATIVE MEDICINE TREATMENTS TO CALIFORNIA AND
6 WORLDWIDE IN A DIVERSE AND EQUITABLE MANNER. I
7 THINK IF WE ADD A FEW WORDS LIKE THAT IN A DIVERSE
8 AND EQUITABLE MANNER, YOU CAN WORDSMITH IT SOME
9 MORE, THAT IT PUTS DIVERSITY AND EQUITY UP FRONT AND
10 IT DOESN'T CHANGE ANYTHING. I THINK IT ONLY
11 ENHANCES.

12 DR. MILLAN: THANK YOU, DR. DEAS. ONE OF
13 THE CONSIDERATIONS COULD BE TO A DIVERSE CALIFORNIA
14 AND WORLDWIDE WHICH IS SOMETHING WE HAD. BUT
15 ANYWAY, WE CAN FOLLOW UP WITH YOU AND OTHERS AND
16 FURTHER WORK ON THAT ASPECT OF THE MISSION
17 STATEMENT.

18 I THINK DR. HARVEY HAS HER HAND UP.

19 DR. CLARK-HARVEY: YES. THANK YOU.
20 ACTUALLY JUST ONE POINT ON THAT. I DO SUPPORT WHAT
21 DR. DEAS SAID BECAUSE I THINK THAT'S DIFFERENT. SO
22 BY SAYING THE TREATMENT AND THE FOCUS IS ON
23 PROVIDING THESE FOR A DIVERSE CALIFORNIA IS
24 DIFFERENT THAN SAYING THAT THERE IS ALMOST LIKE AN
25 UNDERLYING EQUITY AND DIVERSE APPROACH THAT'S GOING

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1 TO BE TAKEN. IT CALLS OUT COMPETENCY, CULTURAL
2 COMPETENCY, BY SAYING IN A DIVERSE AND EQUITABLE
3 MANNER OR SOMETHING TO THAT EFFECT. I JUST THINK
4 IT'S SEMANTICS, RIGHT, BUT THEY'RE IMPORTANT.

5 AND SO I WOULD SUPPORT FOCUSING ON THE
6 UNDERLYING PRINCIPLE OF DIVERSITY AND EQUITY INFUSED
7 THROUGHOUT THE APPROACH RATHER THAN FOCUSED ON A
8 DIVERSE POPULATION BECAUSE WE WANT TO MAKE SURE THAT
9 THE TREATMENTS, THE MODALITIES IN THEMSELVES ARE
10 CULTURALLY COMPETENT AND FOCUSED ON EQUITY. I HOPE
11 THAT MAKES SENSE.

12 DR. MILLAN: IT DOES. THANK YOU SO MUCH
13 FOR EXPLAINING THE DIFFERENCE BETWEEN THE TWO.

14 MS. BONNEVILLE: FRED, YOU HAD ANOTHER
15 QUESTION?

16 DR. FISHER: IT'S AN INTERESTING
17 DISCUSSION, AND I'M WONDERING WHAT THE VOTERS
18 CHARGED US WITH BECAUSE I DON'T KNOW THAT THAT WAS
19 THE CHARGE OF THE VOTERS. IT DOESN'T MEAN THAT I
20 DON'T VALUE IT. IT JUST MEANS THE MISSIONS
21 STATEMENT OF THE ENTITY IS TIED DIRECTLY TO
22 LEGISLATION OR IN THIS CASE INITIATIVE THAT THE
23 VOTERS PASSED. AND SO I THINK WE'D WANT TO BE
24 CAREFUL THAT THE MISSION, AGAIN SEPARATING THE
25 MISSION FROM THE METHODOLOGIES, THAT THE MISSION IS

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1 COMPLETELY IN ALIGNMENT WITH WHAT THE VOTERS HAVE
2 CHARGED US TO DO WITH THEIR MONEY.

3 AND SO I WOULD GO BACK TO THE INITIATIVE
4 LANGUAGE TO SEE WHERE THAT COMES IN BECAUSE I DON'T
5 THINK WE -- I'M NOT SURE THAT WE ARE IN A POSITION,
6 FRANKLY, TO MODIFY WHAT THE VOTERS APPROVED US
7 DOING.

8 AND THE OTHER CHALLENGE WITH DEI
9 INITIATIVES, IF WE ARE SUCCESSFUL IN CREATING
10 THERAPIES, ACCESS TO THOSE THERAPIES ARE LARGELY
11 OUTSIDE OF THE PURVIEW OF CIRM. THEY WILL BE IN THE
12 HANDS OF THE COMPANIES THAT ADVANCE THOSE TO MARKET
13 IN A COMMERCIAL SPACE. AND WE KNOW THE CHALLENGES
14 ASSOCIATED WITH MAKING SURE EVERYONE WHO NEEDS
15 ACCESS TO A TREATMENT HAS IT.

16 SO I'VE JUST RAISED THOSE QUESTIONS AGAIN
17 AS PART OF THIS CONVERSATION.

18 THE OTHER PIECE THAT I'LL JUST THROW IN
19 BECAUSE I'M NOODLING ON IT MYSELF IS IS THERE
20 REDUNDANCY IN CALIFORNIA AND WORLDWIDE? OR MAYBE
21 YOU CAN EXPLAIN KIND OF SINCE CALIFORNIA IS PART OF
22 THE WORLD --

23 DR. MILLAN: WHY. OKAY.

24 DR. FISHER: A GLOBAL PATIENT POPULATION.
25 IS THERE REDUNDANCY THERE OR MAYBE NOT? I DON'T

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1 KNOW.

2 DR. MILLAN: THANK YOU FOR THAT QUESTION.
3 THE REASON WHY CALIFORNIA WAS SPECIFICALLY MENTIONED
4 IS THAT THAT IS THE TARGET STAKEHOLDER GROUP THAT IS
5 BEING SERVED THROUGH PROP 14, BUT BY DOING SO, IT
6 HAS ITS IMPACT WORLDWIDE. SO IT IS INTENDED TO BE A
7 PRIORITY TYPE STATEMENT BECAUSE IT IS, AFTER ALL,
8 THE VOTERS OF CALIFORNIA WHO HAVE SUPPORTED AND
9 FUNDED THIS INITIATIVE. SO OUR POLICIES AND
10 LEGISLATION RELATED TO THIS ARE COMPATIBLE WITH
11 THAT, THAT THERE ARE RESTRICTIONS ON WHAT WE CAN
12 FUND, AND THEY'RE VERY MUCH BASED ON THE CALIFORNIA
13 PRESENCE OR ACTIVITIES WITHIN CALIFORNIA.

14 MS. BONNEVILLE: YSABEL.

15 MS. DURON: THANK YOU VERY MUCH. I
16 APPRECIATE FRED'S COMMENTS, BUT I DO BELIEVE THAT IF
17 YOU LOOK AT THE BREAKOUT OF THE CALIFORNIA VOTER,
18 YOU WILL SEE THAT MEMBERS OF COMMUNITIES OF COLOR
19 ALSO VOTED FOR THIS INITIATIVE WITH AN EXPECTATION
20 THAT IT WOULD, IN FACT, IMPACT, HAVE SOME EVENTUAL
21 IMPACT ON THEIR INDIVIDUAL FAMILY OR COMMUNITY OVER
22 TIME. AND I THINK THAT PART OF THE PROBLEM
23 OBVIOUSLY HAS BEEN IN OUTWARD COMMUNICATION AND AN
24 UNDERSTANDING BY ALL COMMUNITIES THAT THIS IS MEANT
25 TO SERVE THEM AS WELL WITH THE RIGHT MEDICINE AT THE

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1 RIGHT TIME. WE HOPE AT THE RIGHT TIME.

2 SO I WOULD EXTRAPOLATE THAT IT IS BOTH OUR
3 MORAL AND ETHICAL DUTY TO RECOGNIZE EQUITY AND
4 INCLUSION FOR OUTWARD COMMUNICATION. AND I LIKE THE
5 IDEAS THAT DEBORAH, ELENA, AND EVERYBODY ELSE HAS
6 MENTIONED, THAT IT SHOULD BE VERY OBVIOUS AND VERY
7 OUTWARD FOR OUR PURPOSES OF COMMUNICATIONS TO THESE
8 COMMUNITIES THAT THIS IS INCLUSIVITY OF ALL
9 COMMUNITIES BECAUSE THEY VOTED FOR IT, AND IT'S
10 MEANT TO IMPACT THEIR COMMUNITY.

11 SO I DO APPRECIATE, EVEN AS I NOODLED OVER
12 THIS SOME TIME BACK, ABOUT TRYING TO GET THAT
13 MESSAGE ACROSS, AND I APPRECIATE HOW ELENA AND
14 DEBORAH DEAS AND OTHERS HAVE PUT THOSE LAST TWO
15 WORDS ON IT. THAT MAKES MY HEART SING. I THINK
16 THAT THAT IS A WAY TO MAKE SURE THAT WE, CIRM, AND
17 THE STATE OF CALIFORNIA ARE LEADING THE CHARGE ON
18 EQUITY AND INCLUSION. AND I DON'T THINK THAT THE
19 PEOPLE OF CALIFORNIA AND EVEN THOSE WHO VOTED FOR
20 THIS WILL COME BACK AND SAY, "TAKE THOSE WORDS
21 AWAY." I THINK THAT THEY WILL SUPPORT THIS BECAUSE
22 IT MEANS ME, IT MEANS MY FAMILY, IT MEANS MY
23 COMMUNITY. AND SO I DO LIKE THE ADDITION OF THOSE
24 TWO WORDS, MARIA, OR THOSE THREE WORDS. YOU'LL HAVE
25 TO REPEAT IT FOR ME EXACTLY, DEBORAH, BUT I DO LIKE

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1 THOSE. THANK YOU.

2 DR. MILLAN: THANK YOU SO MUCH. THE WORDS
3 WERE TO ADD "IN A DIVERSE AND EQUITABLE MANNER."

4 MS. BONNEVILLE: CORRECT. ART, YOU'RE
5 NEXT.

6 MR. TORRES: YES. THE CAVEAT IS THAT I
7 WORKED ON THE CAMPAIGN ON MY OWN TIME AND MY
8 VACATION TIME. AND PROBABLY I'M THE ONLY ONE ON
9 THIS CALL THAT ACTUALLY WORKED IN THIS CAMPAIGN AND
10 HELPED WRITE THE INITIATIVE, PROP 14, WHICH INCLUDED
11 THE AFFORDABILITY AND ACCESSIBILITY WORKING GROUP
12 THAT HAS BEEN MENTIONED.

13 ACCESSIBILITY FOR US BEGINS AT CIRM IN THE
14 SUBMISSION OF GRANTS BY PI'S AND GRANTEES. WE HAVE
15 STRESSED CONSISTENTLY WITH OUR REVIEW WORKING GROUP
16 THAT WE WANT TO LOOK FOR DIVERSITY. DIVERSITY WILL
17 BE A HANDLE UPON WHICH WE LOOK TO SEE WHETHER OR NOT
18 WE'RE GOING TO REACH OUT TO THOSE COMMUNITIES THAT
19 ARE UNDERSERVED AND TRADITIONALLY IGNORED.

20 SECONDLY, CIRM ALSO OPERATES WITH
21 ACCESSIBILITY IN MAKING SURE THAT THE GRANTEES ARE
22 CHOOSING A DIVERSE POOL OF PATIENTS FOR THEIR
23 CLINICAL TRIALS. RIGHT NOW THEY ARE NOT. AND I
24 THINK THAT, AS WE GET CLOSER TO INCREASING OUR
25 NUMBER OF CLINICAL TRIALS, WE'RE GOING TO HAVE TO BE

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1 MUCH MORE REFLECTIVE AND MUCH MORE MICROSCOPIC ABOUT
2 THE NATURE OF THE CLINICAL TRIAL PARTICIPANTS TO
3 MAKE SURE THAT THEY ARE DIVERSE SO THAT WE REACH
4 POPULATIONS ACROSS THE STATE, ESPECIALLY THE NATIVE
5 AMERICAN POPULATION, API AND LATINO-X AND, OF
6 COURSE, AFRICAN AMERICAN COMMUNITIES.

7 THE OTHER DYNAMIC THAT WE HAVE TO BE
8 COGNIZANT OF IS THAT USUALLY WHEN BONDS GO OUT FOR
9 SALE, AND I'M FAMILIAR WITH THIS HAVING SERVED ON
10 VARIOUS JURISDICTIONAL COMMITTEES IN THE
11 LEGISLATURE, THE BONDS ARE USUALLY FOR
12 INFRASTRUCTURE FOR THE MOST PART, AND THEY'RE BOUGHT
13 BY RETIREMENT FUNDS. THEY'RE BOUGHT BY LARGE
14 INSTITUTIONS.

15 WHEN OUR BONDS FIRST WENT OUT FOR SALE, WE
16 WERE ASTONISHED THAT 80 PERCENT OF THE PURCHASERS
17 WERE SINGLE PEOPLE. IN OTHER WORDS, SINGLE BUYERS,
18 NOT INSTITUTIONS, NOT RETIREMENT FUNDS. AND WE
19 REALIZED THAT THE REASON FOR THAT THERE WAS AN
20 AFFINITY AND A CLOSENESS AND A NEXUS TO A PARTICULAR
21 DISEASE, A SPOUSE, A FAMILY MEMBER, A FRIEND, A
22 CHILD. AND SO THAT INCREASED THE POTENTIAL, NOT
23 ONLY IN CALIFORNIA, BUT, AS YOU KNOW, BONDS CAN BE
24 BOUGHT BY ANYONE IN THE U.S. OR WORLDWIDE. SO THERE
25 WAS AN INITIAL REACTION ON OUR PART WAS, WOW, THIS

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1 IS VERY INTERESTING BECAUSE THEY WILL FORM THE BASIS
2 FOR ANY FUTURE CAMPAIGNS.

3 WHEN WE DID MESSAGES OUT TO VARIOUS
4 COMMUNITIES, IT WAS DIFFICULT. IT WAS DIFFICULT IN
5 THE AFRICAN AMERICAN COMMUNITY BECAUSE OF
6 TRADITIONAL PROBLEMS AND BIASES AND DISCRIMINATION
7 IN THE PAST. IT WAS DIFFICULT IN THE LATIN-X
8 COMMUNITY BECAUSE OF FEAR OF GOVERNMENT INTRUSION.
9 WHAT ARE WE GOING TO GET? VERY SIMILAR TO REACTIONS
10 THAT PEOPLE HAVE HAD IN MY COMMUNITY IN RESPECT TO
11 THE VACCINE. AND THERE ARE OTHER CULTURAL ISSUES
12 THAT WERE NOT RELIGIOUS, BUT BASICALLY BASED UPON
13 WHY ARE WE SPENDING SO MUCH MONEY FOR THIS TYPE OF
14 RESEARCH.

15 AT THE END THE MARGIN WAS CLOSER THAN IT
16 WAS IN 2004, BUT NONETHELESS WE WON. WHY DID WE
17 WIN? WE WON NOT BECAUSE WE HAD MORE MONEY, BECAUSE
18 WE HAD MORE MONEY IN 2004. WE WON BECAUSE WE RELIED
19 UPON THE NETWORK OF PATIENT ADVOCATES WHO TOOK THEIR
20 EFFORT AND VOLUNTEERISM TO A NEW HEIGHT, REACHING
21 OUT TO THEIR FAMILY MEMBERS, TO THEIR FELLOW PATIENT
22 ADVOCATES, TO THIS TREE OF WONDERFUL TREASURES OF
23 PEOPLE WHO REALLY WENT OUT. AND HOW DID THEY COME
24 OUT? THEY CAME OUT BY COLLECTING SIGNATURES FIRST.
25 WHEN COVID CAME IN, OUR SIGNATURE GATHERING STOPPED.

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1 WE HAD TO FIND NEW WAYS TO COLLECT SIGNATURES IN
2 ORDER TO EVEN QUALIFY.

3 OF COURSE, ONCE THE DIRECT MAIL ISSUE CAME
4 OUT, WE HAD TO REACH OUT TO VOTERS AGAIN IN A VERY
5 DIFFERENT WAY, NOT THROUGH TRADITIONAL TELEVISION,
6 ALTHOUGH WE DID SOME OF THAT, BUT MORE
7 NONTRADITIONAL, EMAIL, TEXT, RELYING UPON COMMUNITY
8 GROUPS. SO WHEN WE LOOK AT THIS INITIATIVE AND SEE
9 WHO VOTED FOR IT, THERE ARE A NUMBER OF
10 STAKEHOLDERS, AND A LOT OF THEM ARE DIVERSITY
11 STAKEHOLDERS. THEY'RE EXPECTING RESULTS AND THEY'RE
12 EXPECTING FOR OUR PARTICIPATION IN THOSE RESULTS.
13 AND THEY START NOT AFTER THE TREATMENT IS FOUND AND
14 READY TO GO TO THE PUBLIC. NO, IT'S FOUND AT THE
15 VERY BEGINNING OF HOW OUR PROCESS BEGINS. THANK
16 YOU.

17 MS. BONNEVILLE: ALLISON.

18 DR. BRASHEAR: THANK YOU. SO I JUST WANT
19 TO SUPPORT SENATOR TORRES AND DEAN DEAS' COMMENTS.
20 AS SOMEONE WHO'S BEEN TRAVELING ACROSS THE COUNTRY
21 MULTIPLE TIMES OVER THE LAST MONTH, CALIFORNIA
22 SPEAKS THE WORD DIVERSITY AND ACCESS ARE THINGS THAT
23 CALIFORNIA IS KNOWN ABOUT ACROSS THE COUNTRY AND
24 WORLDWIDE. AND SO ONE OF THE THINGS ABOUT CIRM IS
25 MAKING SURE THAT THESE TREATMENTS ARE GOING TO GET

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1 TO THE PEOPLE THAT NEED THEM REGARDLESS OF THEIR
2 ABILITY TO PAY. AND SO I WOULD REALLY CHAMPION DEAN
3 DEAS' ADDITIONS. AND SOMEWHERE IF THE WORD "ACCESS"
4 COULD BE ADDED, I THINK THAT WOULD SEND A BIG
5 MESSAGE.

6 MS. BONNEVILLE: J.T.

7 CHAIRMAN THOMAS: SO DR. MILLAN AND THE
8 TEAM PREVIEWED THIS MISSION STATEMENT WITH ART AND
9 ME. AND ONE OF THE THINGS THAT WE FOCUSED ON AS IT
10 WAS PRESENTED, IT ONLY HAD "TO CALIFORNIA," WHICH,
11 OF COURSE, FIRST AND FOREMOST IS THE MOST IMPORTANT
12 THING HERE SINCE THE TAXPAYERS OF THE STATE ARE
13 PAYING FOR THIS RESEARCH. HOWEVER, IT WAS OUR
14 FEELING THAT LIMITING IT TO CALIFORNIA WOULD WHEN IN
15 FACT THE WORLD WOULD BENEFIT SENT SORT OF AN
16 EXCLUSIONARY MESSAGE AND THAT IT WOULD BE BETTER
17 NOTING IN THE MISSION STATEMENT THAT THIS WAS GOING
18 TO BE FOR THE BENEFIT OF THE ENTIRE WORLD OBVIOUSLY
19 INCLUDING BUT WELL BEYOND THE STATE BOUNDARIES.

20 SO THAT, FRED, IS WHERE THAT CHANGE CAME
21 FROM.

22 SECONDLY, I DO WANT TO ECHO WHAT EVERYBODY
23 HAS BEEN SAYING ABOUT THE ADDITIONAL WORDS THAT DEAN
24 DEAS SUGGESTS AND I WAS GOING TO SECOND, IF ART HAD
25 NOT MADE THE POINT ALREADY WHICH HE DID VERY

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1 ELOQUENTLY, THAT IF YOU'RE LOOKING FOR A TEXTUAL
2 HOOK TO HANG ON, THE ADVENT OF THE AAWG DEALS
3 DIRECTLY WITH THESE ISSUES AND UNAMBIGUOUSLY SHOWS
4 THAT THE STATE INTENDS TO HAVE DIVERSITY, EQUITY,
5 AND INCLUSION FRONT AND CENTER. SO I THINK THAT
6 THAT IS SOMETHING THAT WOULD BE VERY HELPFUL TO ADD
7 IN THE FASHION DEAN DEAS SUGGESTS. THANK YOU.

8 MS. BONNEVILLE: MARIA, I BELIEVE THAT'S
9 ALL THE COMMENTS. SO IF YOU'D LIKE TO CONTINUE.

10 MR. TORRES: I FORGOT TO THANK DR.
11 GOLDSTEIN FOR HIS CONTRIBUTIONS AND EFFORTS DURING
12 THE CAMPAIGN. SO, LARRY, FORGIVE ME.

13 DR. FISHER: AS A HOPEFULLY NEWLY
14 APPOINTED MEMBER OF THE GRANTS WORKING GROUP AND AS
15 A PATIENT ADVOCATE WHERE A DEI SCORE IS REALLY WHERE
16 MY INFLUENCE COMES IN, HAVING THAT IN THE MISSION
17 STATEMENT IS GOING TO -- I DON'T KNOW IF THAT WILL
18 CHANGE THE WEIGHTING OF THE WAY DEI SCORES INFLUENCE
19 THE OUTCOME OF A FUNDING REQUEST, BUT HAVING IT IN
20 THE MISSION STATEMENT WOULD CERTAINLY LEND WEIGHT TO
21 THAT SCORE, AT LEAST THEORETICALLY. MAYBE NOT, BUT
22 IT WILL BE INTERESTING TO FIND OUT.

23 DR. MILLAN: THANK YOU SO MUCH, EVERYBODY.
24 THIS WAS A REALLY AMAZING DISCUSSION AND VERY
25 HELPFUL TO US. WE WILL COME BACK WITH A REVISED

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1 MISSION STATEMENT BASED ON TODAY'S CONVERSATION.

2 AND IF IT'S OKAY, I'M GOING TO GO AHEAD
3 AND MOVE ON. CHAIRMAN THOMAS, IS THAT OKAY? YES.
4 I ASSUME IT'S YES.

5 CHAIRMAN THOMAS: SORRY. THAT WAS A MUTED
6 YES. YES.

7 DR. MILLAN: SHYAM, PLEASE ADVANCE THE
8 SLIDE.

9 SO WITH THE MISSION STATEMENT OR THE
10 REVISED MISSION STATEMENT AS OUR GUIDING LIGHT, THE
11 OVERALL GOAL OF THE NEW STRATEGY AND THE STRATEGIC
12 PLAN IS TO ADDRESS THE CHALLENGES AND OPPORTUNITIES
13 OF THIS RAPIDLY ADVANCING REGENERATIVE MEDICINE
14 FIELD THAT HAS BEEN VERY MUCH INFLUENCED BY CIRM
15 WHO'S PLAYED A LEADERSHIP ROLE AND WILL CONTINUE TO
16 PLAY A LEADERSHIP ROLE IN THIS FIELD.

17 SO I JUST WANTED TO INTRODUCE KIND OF THE
18 ORGANIZATIONAL WAY WE LOOK AT OUR STRATEGIC GOALS
19 INTO THREE OVERARCHING THEMES. NOW IT'S THREE
20 VERSUS FOUR THAT WE STARTED OFF WITH THE WORKING
21 GROUPS BECAUSE OPERATIONAL EXCELLENCE IS EMBEDDED IN
22 EVERYTHING IN MAKING THIS HAPPEN. BUT THE THEMES
23 ARE TO ADVANCE WORLD-CLASS SCIENCE, DELIVER
24 REAL-WORLD SOLUTIONS, PROVIDE OPPORTUNITY FOR ALL.
25 THE THIRD ONE IS THE THEME THAT WE SPENT A LOT OF

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1 TIME ON MAKING SURE WE INCORPORATE MORE OF THAT INTO
2 THE MISSION STATEMENT. SO WE'LL TAKE THAT UNDER
3 CONSIDERATION AS WE REVISE THAT PIECE.

4 SO I'M GOING TO GO AHEAD. IN THE NEXT FEW
5 SLIDES WE DESCRIBE THE THINKING, AND THEN WE'LL
6 START TO GO INTO SOME BROAD IDEAS OF CONCEPTS,
7 CONTOURS OF CONCEPTS THAT WOULD HELP GUIDE US
8 THROUGH ACHIEVING THE STRATEGIC GOALS. NEXT SLIDE
9 PLEASE.

10 SO IN THE FIRST PART OF THIS PRESENTATION,
11 I REVIEWED THE OUTCOMES AND THE POWER OF THE CIRM
12 FUNDING PROGRAM AND MODEL AND GROWING AN ECOSYSTEM
13 AND FUNDING PROGRAM ACROSS THESE PILLARS. THEY'RE
14 ESTABLISHED CORE OFFERINGS OF CIRM: EDUCATION
15 PROGRAMS, INFRASTRUCTURE, DISCOVERY, TRANSLATION,
16 AND CLINICAL AWARDS. MANY OF THESE HAVE ALREADY
17 BEEN BROUGHT IN FRONT OF YOU. AFTER THE PASSAGE OF
18 PROP 14, WE IMMEDIATELY RESTARTED MANY OF THESE
19 PROGRAMS AS SOON AS PROPOSITION 14 PASSED. IT'S A
20 SO-CALLED ENGINE, AND THOSE HAVE BEEN A PROVEN
21 FUNDING MECHANISM, FUNDING MODEL, AND THE NEW
22 STRATEGIC PLAN IS DESIGNED TO ENHANCE, ORGANIZE, AND
23 INTERCONNECT THE COMPONENTS OF THE CURRENT FUNDING
24 MODEL TO ACHIEVE THE OVERARCHING GOALS ACROSS THESE
25 THREE THEMES: ADVANCE WORLD-CLASS SCIENCE, DELIVER

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1 REAL-WORLD SOLUTIONS, AND PROVIDE OPPORTUNITY FOR
2 ALL.

3 SO IN THE UPCOMING SLIDE, I'LL BE
4 DESCRIBING GENERAL CONCEPTS AROUND THESE THREE
5 THEMATIC GOALS, OPPORTUNITIES, AND PROPOSE
6 NEAR-TERM, MEASURABLE, FIVE-YEAR GOALS RELATED TO
7 THESE STRATEGIC THEMES. AND AFTER EACH ONE, IT
8 WOULD BE GREAT TO CONTINUE TO HAVE THE CONVERSATION
9 AS WE HAD WITH THE MISSION STATEMENT. NEXT SLIDE
10 PLEASE.

11 SO THEME ONE, ADVANCE WORLD-CLASS SCIENCE.
12 WE THOUGHT WE'D START OFF WITH A PROBLEM STATEMENT.
13 SO THE REGENERATIVE MEDICINE FIELD IS ADVANCING
14 RAPIDLY, GENERATING MASSIVE AMOUNTS OF INFORMATION,
15 SCIENTIFIC DATA, BUT EFFECTIVE TREATMENTS ARE STILL
16 LIMITED FOR DEVASTATING DISEASES. A MAJOR HURDLE
17 IDENTIFIED BY OUR SCIENTIFIC COMMUNITY IS THAT WE
18 HAVE AN INCOMPLETE OR WEAK UNDERSTANDING OF THE
19 SCIENTIFIC BIOLOGY AND FOUNDATIONAL BASIS OF THE
20 DISEASE ITSELF.

21 CIRM HAS FUNDED PROMISING SCIENCE AND
22 CONTINUES TO DO SO THROUGH ITS CORE PILLAR
23 OFFERINGS. THE NEW CHALLENGE FOR CIRM, AND IT'S
24 STATED BY OUR ADVISORS AND STAKEHOLDERS, IS TO BE A
25 LEADER IN A PARADIGM SHIFT THAT OPTIMIZES THE

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1 COLLECTIVE OUTPUT FROM THESE INDIVIDUAL PROJECTS
2 THAT WE FUND TO LEAD TO BETTER UNDERSTANDING OF
3 DISEASE BIOLOGY, PROMOTE NOVEL INSIGHT AND
4 DISCOVERIES THAT, IN TURN, CAN LEAD TO MORE
5 SUCCESSFUL THERAPEUTIC APPROACHES SO THAT WE CAN PUT
6 IT INTO MACHINERY, THE TRANSLATIONAL MACHINERY, THAT
7 PROVEN MACHINERY THAT WE HAVE TO ADVANCE PROGRAMS TO
8 THE CLINIC.

9 CIRM CAN PLAY AN INSTRUMENTAL LEADERSHIP
10 ROLE IN INCENTIVIZING COLLABORATIVE SCIENCE,
11 INTEGRATING DATA SHARING INTO CIRM'S SYSTEM, MAKING
12 TECHNOLOGICAL AND ENABLING RESOURCES BROADLY
13 AVAILABLE. WE KNOW THAT THERE'S A WEALTH OF
14 EXPERTISE AND VERY UNIQUE INNOVATIONS ACROSS
15 CALIFORNIA. WHAT IF WE WERE ABLE TO FIND A WAY TO
16 MAKE THIS ACCESSIBLE FOR MORE SCIENTISTS TO
17 ACCELERATE THE RESEARCH?

18 TURNING RESULTS AND DATA INTO KNOWLEDGE,
19 KNOWLEDGE NETWORKS, AND PROMOTING THE PRINCIPLES OF
20 DIVERSITY, EQUITY, AND INCLUSION IN EVERY ASPECT OF
21 THE SCIENCE, THE APPROACH TO SCIENTISTS, TO
22 SCIENTISTS THEMSELVES, AND HAVING THAT IN MIND AS
23 SCIENCE IS TRANSLATED TOWARD CLINICAL APPLICATION.
24 NEXT SLIDE PLEASE.

25 WE FIRMLY BELIEVE THAT WE CAN DEVELOP A

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1 SYSTEMIC APPROACH TO OUR FUNDING PROMISE AND FORMAT
2 THAT WILL POSITION US TO MEET THIS CHALLENGE. WE
3 COULD FOSTER A CULTURE OF COLLABORATION TO
4 STRENGTHEN AND POWER THE SCIENTIFIC OUTPUT OF OUR
5 BASIC, TRANSLATIONAL, AND CLINICAL RESEARCH PROGRAMS
6 BY ENABLING RESEARCHERS TO SHARE UNIQUE COMPETENCIES
7 IN SO-CALLED COMPETENCY HUBS AND PROVIDE A RELIABLE
8 APPROACH FOR DATA SHARING TO CREATE VALUABLE
9 KNOWLEDGE NETWORKS, INCREASING THE PROBABILITY AND
10 MULTIPLIER EFFECTS DOWNSTREAM.

11 THIS INTEGRATED APPROACH WOULD INCREASE
12 THE CHANCES OF DELIVERING FOUNDATIONAL INSIGHTS AND
13 BASIC DISEASE MECHANISMS, INCREASE DISCOVERY OUTPUT,
14 AND ENABLE THE MORE DIRECTED AND INFORMED
15 DEVELOPMENT OF TREATMENTS AND CURES. NEXT SLIDE
16 PLEASE.

17 WE PROPOSE THAT IN FIVE YEARS WE COULD
18 LEVERAGE COLLECTIVE SCIENTIFIC KNOWLEDGE THROUGH
19 BROAD CONCEPTS OF DEVELOPING TECHNOLOGY COMPETENCY
20 HUBS THAT BROADLY EMPOWER AND CONNECT CALIFORNIA,
21 THE CALIFORNIA RESEARCH ECOSYSTEM. ONE SUCH
22 COMPETENCY HUB WOULD BE NEXT GENERATION SHARED LABS,
23 A CATEGORY STIPULATED IN PROPOSITION 14.

24 THE SECOND PART, CIRM ALREADY REQUIRES
25 DATA SHARING AND DATA SHARE PLANS FROM OUR GRANTEES,

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1 AND BOARD MEMBERS WHO SERVE ON THE GWG KNOW THAT
2 THIS IS A COMPONENT OF THE REVIEW. THE PROBLEM IS
3 THAT WE DON'T HAVE A DELIBERATE AND ORGANIZED WAY TO
4 REALLY LEVERAGE THAT DATA SHARING. WE CAN EMPOWER
5 OUR SCIENTISTS AND THE BROADER SCIENTIFIC COMMUNITY
6 IF WE PROVIDE A WELL-DESIGNED DATA SHARING AND
7 ANALYSIS PLATFORM THAT ALLOWS THEM TO STORE AND
8 ANALYZE THE DATA, BUT ALSO COMBINE AND CONNECT WITH
9 OUR DATA POOLS. SETTING UP THIS TYPE OF DATA
10 INFRASTRUCTURE COULD LEAD TO MEANINGFUL AND
11 POTENTIALLY GAME CHANGING MULTIPLIER EFFECTS AND
12 SCIENTIFIC PROGRESS.

13 SO I THINK THOSE ARE TWO BROAD CONCEPTS.
14 IN THE BACKGROUND THESE ARE BEING WORKED OUT,
15 ASSUMPTIONS ARE BEING TESTED, DUE DILIGENCE IS BEING
16 DONE, KOL'S ARE BEING ASSEMBLED, BROADER STAKEHOLDER
17 DISCUSSIONS ARE BEING PLANNED. BUT I WANTED TO OPEN
18 IT UP FOR THE BOARD TO COMMENT, ASK QUESTIONS, AND
19 PROVIDE INPUT TO THESE TWO BROAD CONCEPTS. CHAIRMAN
20 THOMAS.

21 MS. BONNEVILLE: J.T., YOU'RE ON MUTE.

22 CHAIRMAN THOMAS: SORRY. I WAS TRYING TO
23 KEEP THE BARKING DOG OFF THE DISCUSSION AS MUCH AS
24 POSSIBLE. THANK YOU VERY MUCH, MARIA, FOR LAYING
25 THIS OUT. YOU AND I HAD AN E-MAIL EXCHANGE ON THE

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1 FOLLOWING QUESTION, BUT I THOUGHT IT MIGHT BE
2 HELPFUL FOR THE BOARD TO HEAR, WHICH WAS ON THE
3 SUBJECT OF COMPETENCY HUBS. BEYOND THE DATA SHARING
4 IDEA, WHAT OTHER NOTIONS MIGHT WE EXPECT TO SEE DOWN
5 THE ROAD?

6 DR. MILLAN: I'LL JUST GIVE SOME EXAMPLES.
7 AND BECAUSE WE'RE NOT BRINGING SPECIFIC CONCEPTS TO
8 THE BOARD, I JUST WANTED TO JUST MAKE SURE THAT THE
9 BOARD KNOWS THAT THESE ARE STILL UNDER DISCUSSION.
10 WE INTEND TO CONTINUE TO ENGAGE WITH YOU AS WE
11 DEVELOP THE CONCEPTS.

12 SOME OPPORTUNITIES THAT ARE IMMEDIATELY
13 KIND OF VISIBLE IS THE NEXT GENERATION SHARED LABS
14 CONCEPT. AS YOU RECALL, IN PROP 71 THE SHARED LABS
15 WERE INTENDED TO PROVIDE A PLACE WHERE EMBRYONIC
16 STEM CELL RESEARCH AND CULTURE METHODS AND THE
17 EVOLVING UNDERSTANDING OF THAT BIOLOGY AND THOSE
18 SKILL SETS IS SOMETHING THAT COULD THEN BE PROVIDED
19 FOR RESEARCHERS GETTING STARTED FOR THE INSTITUTION.
20 IT SERVED WELL. AND I HAVE DR. SHEPARD AND DR.
21 AVILES ON THE LINE WHO CAN KIND OF GIVE SOME
22 OVERVIEW OF WHAT THE RESULTS OF THOSE PROGRAMS HAVE
23 BEEN.

24 THE NEXT GENERATION OF THIS COULD BE
25 LEVERAGING ADVANCEMENTS IN OTHER TYPES OF CELL

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1 MODELS AND CELL ASSETS SUCH AS INDUCED PLURIPOTENT
2 STEM CELLS, ORGANOID MODELS, ET CETERA, THAT IF
3 THOSE TYPES OF RESOURCES COULD BE SHARED, ONLY THOSE
4 THAT ARE READY TO BE SHARED, WELL CHARACTERIZED,
5 THERE'S VALUE IN THAT BEING SOMETHING THAT'S
6 ACCESSIBLE TO MORE. SO THAT REPRODUCIBILITY AND
7 STANDARDS TO BE SET IN TERMS OF HOW THE SCIENTIFIC
8 DATA IS LOOKED AT, THAT'S ONE EXAMPLE. AND THAT
9 WOULD BE SOMETHING THAT'S VERY MUCH KIND OF A NEXT
10 GENERATION TO THE PREVIOUS SHARED LABS.

11 OTHER EXAMPLES ARE GENE THERAPY CORES
12 WHERE THERE'S NO REASON THAT EVERYBODY NEEDS TO
13 START FROM SCRATCH WHEN THEY HAVE A PROGRAM INTENDED
14 TO FOLLOW A POTENTIAL GENE THERAPY APPROACH.
15 THERE'S SOME KIND OF BASIC, WELL-ESTABLISHED
16 TECHNIQUES BY THOSE WHO HAVE SPECIALIZED IN THIS
17 THAT COULD BE POTENTIALLY SHARED.

18 AND THEN OTHERS THAT COULD RELATE TO A
19 PAST PROGRAM SUCH AS AN INDUCED PLURIPOTENT STEM
20 CELL BANK IS HAVING DIVERSE CELL AND REPRESENTATIVE
21 CELLS TO WORK FROM. A VERY KIND OF RECENT EXAMPLE
22 IS DURING OUR COVID ROUND, WHEN WE INTRODUCED
23 DIVERSITY, EQUITY, AND INCLUSION INTO OUR
24 APPLICATION AND REVIEW PROCESS, ONE OF THE PROGRAMS
25 TO VACCINE DEVELOPMENT WAS USING KIND OF STANDARD

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1 CELL LINES TO DEVELOP THE VACCINE. AND THOSE
2 STANDARD CELL LINES HAPPENED TO BE ON BACKGROUND OF
3 THE HLA OF NORTHERN EUROPEAN BACKGROUND AND WERE NOT
4 REPRESENTATIVE OF ALL THOSE WHO COULD BE AFFLICTED
5 OR INFECTED WITH COVID. SO THERE WAS AN OPPORTUNITY
6 FOR THOSE INVESTIGATORS TO BE FUNDED BY CIRM TO
7 CREATE MORE DIVERSE CELL LINES THAT WERE MORE
8 REPRESENTATIVE, MORE REPRESENTATIVE OF THE
9 COMMUNITY. SO WHEN THESE TECHNOLOGIES ARE
10 DEVELOPED, THEN THEY'RE NOT JUST DEVELOPED FOR A
11 SMALL PORTION OF THE POPULATION THAT IT'S INTENDED
12 FOR.

13 SO CREATING A WAY TO BE ABLE TO ACCESS
14 DIVERSE REFERENCE CELLS OR STARTING CELLS IS ANOTHER
15 AREA THAT'S BEING EXPLORED. AND THERE ARE KIND OF
16 ON THE LATER STAGE PROGRAMS IN CLINICAL RESEARCH
17 THINGS SUCH AS STATISTICAL CORES OR IMAGING CORES
18 WHERE NOT ALL INSTITUTIONS HAVE THE SAME CAPACITY IN
19 TERMS OF SPECIALIZED IMAGING THAT COULD ENABLE
20 CLINICAL RESEARCH.

21 SO THOSE ARE JUST EXAMPLES, AND WE WILL
22 HAVE A MUCH MORE DEVELOPED AND WELL-INFORMED CONCEPT
23 SHOULD THE BOARD AGREE THAT THE IDEA OF THIS BROAD
24 CATEGORY OF TECHNOLOGY COMPETENCY HUBS WOULD BE
25 IMPORTANT TO ENABLE OUR SCIENTIFIC COMMUNITY TO DO

1 THEIR WORK.

2 MS. BONNEVILLE: LARRY, YOU HAD YOUR HAND
3 RAISED.

4 DR. GOLDSTEIN: YES. THANK YOU. MARIA,
5 THAT'S A TERRIFIC SUMMARY AND APPROACH TO THE FIRST
6 PART OF THIS STRATEGIC PLAN. I THINK YOU'VE DONE A
7 GENERALLY GOOD JOB WITH YOU AND YOUR TEAM.

8 I DO HAVE A COUPLE OF SUGGESTIONS TO
9 CONSIDER. ONE IS THAT IN LOOKING AT THIS VERY BROAD
10 MISSION STATEMENT, LEVERAGE COLLECTIVE SCIENTIFIC
11 KNOWLEDGE, ET CETERA, WHEN I LOOK DOWN AT THE
12 FIVE-YEAR STRATEGIC GOALS, I FIND THAT THOSE GOALS
13 ARE ACTUALLY QUITE A BIT LIMITED RELATIVE TO THAT
14 BROAD WORDING. AND I WONDER IF IT MIGHT BE GOOD TO
15 INCLUDE SOMETHING LIKE A PROGRAMMATIC EFFORT CLOSE
16 TO MY HEART, WHICH IS TO INCENTIVIZE HIGH IMPACT,
17 HIGH RISK SCIENTIFIC RESEARCH INTO REGENERATIVE
18 MEDICINE.

19 I THINK WE ARE AS AN ORGANIZATION
20 DEDICATED TO FINDING THOSE REALLY GREAT PROJECTS
21 THAT ARE NONETHELESS RISKY. AND I THINK THIS IS A
22 REALLY GREAT PLACE TO CALL OUT THAT SORT OF HIGH
23 RISK, HIGH IMPACT STUFF. IN SOME WAYS THAT'S THE
24 BASIS OF THE ENTIRE CALIFORNIA BIOTECH INDUSTRY WAS
25 HIGH RISK, HIGH IMPACT SCIENCE. I THINK WE WANT TO

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1 KEEP THAT IN MIND AS WE PROCEED.

2 THE SECOND COMMENT I WANTED TO MAKE IS
3 SOMETHING THAT MIGHT SPEAK TO INTEGRATING SCIENTISTS
4 INTO THE CLINICAL TRIAL TEAMS IN SOME WAYS. WHAT
5 I'M THINKING OF THERE IS THAT WE ALWAYS HAVE
6 PATIENTS IN CLINICAL TRIALS THAT JUST DON'T SEEM TO
7 RESPOND TO THE THERAPY. AND IF BASIC SCIENTISTS ARE
8 AWARE OF THOSE KINDS OF PROBLEMS, WHICH I WOULD
9 ARGUE AT THE MOMENT THEY'RE NOT NECESSARILY BECAUSE
10 THEY'RE NOT INTEGRATED INTO CLINICAL TRIAL TEAMS,
11 EXPLAINING THAT RARE (UNINTELLIGIBLE), HOW RESISTANT
12 TO REALLY HIGH QUALITY THERAPY AND FIGURING OUT WHY
13 IS A TERRIFIC THING TO INCENTIVIZE BECAUSE I THINK
14 WE LEARN A LOT FROM THE PATIENTS THAT FAIL TRIALS
15 FOR REASONS WE DON'T UNDERSTAND.

16 DR. MILLAN: DR. GOLDSTEIN, THANK YOU FOR
17 THOSE COMMENTS. IN TERMS OF HIGH IMPACT, HIGH RISK,
18 WE LIKE TO BELIEVE THAT THE CIRM PROGRAMS IN
19 GENERAL, THAT THESE ARE THE PROGRAMS WE FUND. SO
20 IT'S KIND OF THE NATURE AND THE FABRIC OF OUR
21 FUNDING. WE ARE KNOWN TO FUND HIGH RISK, HIGH
22 REWARD PROGRAMS. BUT DEFINITELY WE'LL TAKE THAT --
23 CONTINUE TO LOOK AT THAT AND MAKE SURE THAT WE'VE
24 DONE EVERYTHING WE POSSIBLY CAN TO LOWER ARTIFICIAL
25 BARRIERS TO BRING THOSE TYPE OF PROGRAMS IN.

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1 THE SECOND PIECE ABOUT THIS UNDERSTANDING
2 OF SCIENTISTS TO WHAT HAPPENS DOWN THE ROAD, I
3 ABSOLUTELY AGREE WITH THAT. AND, IN FACT, WE'VE
4 BEEN IN CONVERSATION WITH THE SOCIETIES SUCH AS
5 ISSCR AND TRYING TO FIGURE IT OUT AND A BROAD
6 APPROACH TO THAT BECAUSE I AGREE. AND I THINK WE
7 CAN HAVE THAT TYPE OF EXPOSURE AS PART OF OUR
8 EDUCATION PROGRAMS, AND I WILL DESCRIBE THAT IN
9 BROAD TERMS LATER.

10 BUT IN TERMS OF PARADIGM SHIFTING CULTURE
11 SHIFT, WE REALLY NEED TO DO IT KIND OF ON A BROAD
12 BASIS, AND WE ARE IN DISCUSSIONS WITH PARTNER
13 ORGANIZATIONS IN TERMS OF HOW WE CAN DO THESE TYPES
14 OF PROGRAMS TOGETHER WHERE WE HAVE AN AWARENESS OF
15 BOTH THE SCIENTISTS TO THE COMMUNITY, BUT ALSO A
16 COMMUNITY IN TERMS OF BEING ABLE TO TRUST WHAT'S
17 GOING ON WITH THE SCIENCE AND HAVE JUST THAT LEVEL
18 OF INTERACTION THAT'S MORE LIKE -- SO WE HAVE HERE,
19 YOU CAN SEE THIS NEW KIND OF BRANDING OF REAL LIFE.
20 LIFE IS ABOUT PEOPLE. AND ONCE YOU KIND OF BREAK
21 DOWN THOSE BARRIERS AND PEOPLE START ACTUALLY
22 UNDERSTANDING WHAT IT IS THAT THE OTHER COMMUNITIES
23 ARE ABOUT, THAT PARTNERED WITH A SYSTEM THAT WE HOPE
24 TO CREATE AT CIRM, THAT THAT SHOULD BRING US
25 FURTHER.

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1 I'M WAXING KIND OF PHILOSOPHICAL NOW, BUT
2 JUST TO LET YOU KNOW THAT WE REALLY ARE LOOKING AT
3 TANGIBLE STEPS IN THAT DIRECTION.

4 DR. GOLDSTEIN: THANK YOU.

5 DR. MILLAN: MARIA.

6 MS. BONNEVILLE: STEVE.

7 MR. JUELSGAARD: YES. I WANT TO JUST GO
8 BACK TWO SLIDES. YOU DON'T REALLY NEED TO BACK IT
9 UP, BUT THAT'S WHERE I'M GOING TO START. SO IN THE
10 HEADLINE, THE BACK PART OF THE HEADLINE SAYS,
11 "EFFECTIVE TREATMENTS ARE STILL LIMITED FOR
12 DEVASTATING CONDITIONS," AND THEN PARENTHETICALLY,
13 "INCLUDING CNS AND DISEASES OF THE BRAIN," WHICH ARE
14 FOOTNOTED TO SAY, "PROP 14 STIPULATES FUNDING FOR
15 RESEARCH IN CNS AND DISEASES OF THE BRAIN." THAT'S
16 WHAT I WANT TO FOCUS ON BECAUSE WHAT PROP 14
17 ACTUALLY SAYS IS THAT DEDICATING \$1.5 BILLION FOR
18 THE SUPPORT OF RESEARCH AND THE DEVELOPMENT OF
19 TREATMENTS FOR DISEASES AND CONDITIONS OF THE BRAIN
20 AND CENTRAL NERVOUS SYSTEM. \$1.5 BILLION REPRESENTS
21 A LITTLE OVER 27 PERCENT OF THE \$5.5 BILLION THAT
22 WAS APPROVED FOR PROP 14.

23 SO THE TAKEAWAY FOR ME IS THAT THIS IS
24 SOMETHING THAT THE VOTERS, WHEN THEY VOTED FOR THIS,
25 THOUGHT WAS REALLY IMPORTANT. WE NEEDED TO MAKE

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1 SOME PROGRESS IN THIS PARTICULAR AREA. AND SO ONE
2 THOUGHT ON MY PART IS IN TERMS OF EFFORTS TO TRY AND
3 ADVANCE WORLD-CLASS SCIENCE IN THE WAYS THAT YOU'VE
4 DESCRIBED POTENTIALLY IS TO HAVE A REAL FOCUS, AT
5 LEAST IN ONE OF THEM, ON DISEASES OF THE BRAIN AND
6 OF THE CENTRAL NERVOUS SYSTEM WHERE THERE CAN BE
7 COLLABORATIVE WORK, NOT JUST AMONG ACADEMIC CENTERS,
8 BUT ALSO, IF THEY'RE WILLING TO PARTICIPATE,
9 COMPANIES, ET CETERA.

10 SO I'LL END IT THERE. BUT I DO THINK IT
11 WOULD BE NICE TO HAVE A LITTLE MORE EMPHASIS ON THIS
12 PARTICULAR AREA GIVEN THE AMOUNT OF EMPHASIS THAT'S
13 BEING PLACED IN THE PROPOSITION BASED ON THE AMOUNT
14 OF MONEY THAT'S BEEN DEDICATED TO PURSUING IT.

15 DR. MILLAN: THANK YOU SO MUCH FOR THAT
16 COMMENT, AND THANK YOU FOR THE OPPORTUNITY TO
17 ACTUALLY TALK ABOUT THAT.

18 SO \$1.5 BILLION OF THE \$5.5 BILLION THAT
19 PROP 14 HAS EARMARKED FOR CNS RESEARCH AND DISEASES
20 OF THE BRAIN INCLUDING NEUROPSYCHIATRIC RESEARCH.
21 THE REASON THAT THESE ARE THE FIVE-YEAR STRATEGIC
22 GOALS AND CREATING COMPETENCY HUBS AND KNOWLEDGE
23 NETWORKS ARE THESE ARE ENABLING MECHANISMS THAT WE
24 CAN EXTRACT THE MOST VALUE AND ORGANIZE THE EFFORTS
25 SO THAT WE CAN DEPLOY THEM TOWARD SPECIFICALLY CNS

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1 AND DISEASES OF THE BRAIN.

2 JUST BY WAY OF BACKGROUND, I NOTE CHAIRMAN
3 THOMAS HAD MENTIONED THIS BEFORE, ORGANICALLY
4 THROUGH OUR PILLAR PROGRAMS AND STILL TO THIS DAY AS
5 WE'RE TRACKING IT, IT'S EASILY THAT PROPORTION OF
6 WHAT OUR FUNDING GOES OUT TO THAT GOES TO CNS
7 RESEARCH EVEN IF IT WASN'T EARMARKED. THAT'S WHAT
8 IT TURNS OUT TO BE, EVEN A LITTLE BIT MORE THAN
9 THAT. SO OKAY. SO WE'RE GOING TO BE ABLE TO HIT
10 THAT MARK BECAUSE WE JUST HAVE THIS ENGINE TO BRING
11 IN TOP SCIENCE. WE ARE READY ORGANICALLY TO GET
12 NEURAL PROGRAMS, NOT AS MUCH NEUROPSYCHIATRIC, MIND
13 YOU, BUT NEURAL PROGRAMS.

14 HOW DO WE OPTIMIZE THE IMPACT OR -- I
15 DON'T WANT TO SAY IMPACT. HOW CAN WE ORGANIZE IT SO
16 THAT THE PROBABILITY OF GETTING SOMETHING MORE THAN
17 THE SUM OF ITS PARTS OR JUST THAT EACH PROJECT THAT
18 HAPPENS TO SUCCEED, HOW DO WE GET THAT COLLECTIVE
19 SUCCESS? AND THE REASON FOR THESE FIVE-YEAR
20 STRATEGIC GOALS IS TO CREATE A WAY THAT WE CAN
21 ENABLE A CONSORTIUM APPROACH TO THIS SO THAT WE CAN
22 PROVIDE EFFICIENCIES, INCREASE THE KNOWLEDGE BASE,
23 THE DENOMINATOR OF DATA SETS THAT GO INTO ALL THE
24 RESEARCHERS THAT ARE FUNDED IN THIS AREA SO THEY
25 HAVE ACCESS TO A GREATER DENOMINATOR OF DATA THAN

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1 THEY WOULD PRODUCE THEMSELVES OR WITH THEIR INTENDED
2 LIMITED COLLABORATORS. SO THAT'S THE REASON FOR
3 THIS.

4 WE DO HAVE IN MIND CNS WHEN WE'RE TALKING
5 ABOUT LAYING DOWN THESE TYPES OF FRAMEWORK, BUT IT'S
6 ALSO SOMETHING THAT'S RELEVANT TO ALL OF THE
7 DIFFERENT AREAS THAT WE FUND. WE ACTUALLY HAVE
8 PILOT STUDIES ALREADY IN THIS KIND OF -- FOR SICKLE
9 CELL, FOR INSTANCE, WHERE THERE IS, DRIVEN BY OUR
10 PARTNERSHIP WITH THE NIH, DATA SHARING PLATFORMS
11 THAT ARE BEING DEVELOPED. THERE IS ALREADY A
12 COLLABORATION IN TERMS OF HOW, AS A SCIENTIFIC UNIT,
13 WE ALL ADDRESS ISSUES REGARDING THE GENOMICS AND
14 OTHER ASPECTS EVEN AS WE ARE FUNDING CLINICAL
15 TRIALS.

16 SO I HOPE THAT ANSWERS YOUR QUESTION. YOU
17 WILL SEE MORE OF THIS UNFOLD. THE IDEA OF THE
18 STRATEGIC PLAN IS TO HAVE JUST A GENERAL
19 UNDERSTANDING AND GUIDANCE FROM THE BOARD AS TO
20 WHETHER TO PURSUE THESE BROAD DIRECTIONS THAT WILL
21 ENABLE KIND OF THE DOWNSTREAM OUTPUT WHICH IS
22 RELATED TO THINGS SUCH AS PUSHING FORWARD CNS
23 RESEARCH AND DISEASES OF THE BRAIN, NEUROPSYCHIATRIC
24 RESEARCH.

25 MS. BONNEVILLE: KEITH.

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1 DR. YAMAMOTO: SO MARIA KNOWS THIS, THAT
2 KNOWLEDGE NETWORKS ARE AT THE HEART OF OUR
3 DEVELOPMENT OF PRECISION MEDICINE CONCEPTS THAT I
4 WAS INVOLVED IN WITH THE NATIONAL ACADEMIES 12 YEARS
5 AGO. AND SOMETHING THAT I REALLY PROMOTED, THAT
6 CIRM CAN BE INVOLVED IN AS WELL BECAUSE OF WHAT
7 MARIA JUST SAID, BECAUSE IT IS A TOOL, AN ENABLING
8 TOOL, THAT DELIVERS TO EVERYONE THE INTEGRATED
9 INFORMATION THAT SHOWS HOW THE WORK THAT ANY
10 INDIVIDUAL INVESTIGATOR IS DOING IS LINKED TO AND
11 CAN CONTRIBUTE TO EFFORTS OF RESEARCHERS WHO TAKE AN
12 ENTIRELY DIFFERENT APPROACH TO A PROBLEM.

13 AND SO, MARIA, I'M MAKING THIS COMMENT NOW
14 BECAUSE OF THE COMMENT EARLIER THAT LARRY MADE TO
15 SOMEHOW MAKE BASIC SCIENTISTS MORE AWARE OF OUTCOMES
16 OF CLINICAL TRIALS SO THAT IT WILL FEED THEIR
17 INTERESTS IN CREATING NEW HYPOTHESES TO BE TESTED IN
18 A BASIC SCIENCE LAB. AND I THINK THAT THAT'S GREAT,
19 BUT I DON'T ACTUALLY WANT TO MAKE BASIC SCIENTISTS
20 BECOME TRANSLATIONAL RESEARCHERS. IF THEY DO,
21 THAT'S GREAT AND WE'RE SEEING THAT INCREASINGLY
22 ACROSS THE RESEARCH SPHERE. BUT I WANT TO BE
23 RESPECTFUL OF BASIC SCIENTISTS WHO ARE CURIOSITY
24 DRIVEN AND JUST WANT TO UNDERSTAND A BIOLOGICAL OR
25 PATHOLOGICAL PROCESS BETTER, NOT BECAUSE THEY WANT

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1 TO CURE THE DISEASE OR MAKE A DRUG, THAT'S LEFT FOR
2 SOMEONE ELSE TO DO, BUT HAVING A TOOL OF A KNOWLEDGE
3 NETWORK THAT BASICALLY DELIVERS TO THEM INFORMATION
4 THAT IS THE PRODUCT OF OTHER RESEARCH THAT THEY
5 WOULDN'T OTHERWISE BE AWARE OF WILL CHANGE THE WAY
6 THAT THEY THINK ABOUT THEIR CURIOSITY DRIVEN
7 PROJECTS.

8 AND SO THAT'S WHAT THE KNOWLEDGE NETWORK
9 REALLY DOES DO. SO INSTEAD OF ASKING BASIC
10 SCIENTISTS TO SAY, ALL RIGHT. I'LL JOIN A CLINICAL
11 TRIAL TEAM THAT THEY BASICALLY MAY NOT BE INTERESTED
12 IN, INFORMATION WILL GET TO THEM IN OTHER WAYS
13 THROUGH ACCESS IN THE KNOWLEDGE NETWORK. AND SO I
14 THINK THAT THESE STRATEGIC GOALS THAT ARE LAID OUT
15 ARE APPROPRIATE. THEY ARE ENABLING TOOLS THAT ALLOW
16 CIRM TO BETTER ADVANCE WORLD-CLASS SCIENCE AND TAKE
17 ON THE CHALLENGE OF THE FACT THAT DIFFERENT KINDS OF
18 RESEARCHERS COME AT THE SAME PROBLEM FROM VERY
19 DIFFERENT DIRECTIONS. AND WE ARE ALL BLUDGEONED
20 WITH KNOWLEDGE AND NEW INFORMATION COMING AT US IN
21 THE FORM OF DATA. AND CONVERTING THAT INTO
22 KNOWLEDGE IS A VERY DIFFICULT TASK IF WE DON'T EVEN
23 KNOW ABOUT WHAT OTHER GROUPS ARE DOING. THAT'S WHAT
24 THE KNOWLEDGE NETWORK DOES. AND I THINK IT WILL
25 PROVIDE THE KIND OF DRIVER FOR ADVANCING WORLD-CLASS

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1 SCIENCE THAT WE ARE LOOKING FOR IN CIRM.

2 DR. MILLAN: THANK YOU, DR. YAMAMOTO.

3 MS. BONNEVILLE: AL.

4 MR. ROWLETT: SO, MARIA, IF YOU COULD GO
5 BACK TO THE PREVIOUS SLIDE, I'M JUST TO GOING TO
6 TAKE A BRIEF OPPORTUNITY TO AGAIN THANK THE STAFF
7 FOR THE WORK THAT THEY'VE DONE ON PUTTING THIS
8 TOGETHER.

9 THE LANGUAGE HERE IN THE PREAMBLE OF
10 "CREATING A SYSTEMIC APPROACH TO FOSTER A CULTURE OF
11 COLLABORATION, EFFICIENT KNOWLEDGE TRANSFER, AND
12 DIVERSITY AND INCLUSION TO STRENGTHEN AND EMPOWER
13 SCIENTIFIC OUTPUT," I KNOW I DIDN'T HAVE TO READ IT,
14 BUT IT READS -- I THINK IT COULD BE STRENGTHENED A
15 BIT, AND YOU MIGHT WANT TO CONSIDER HOW YOU TALK
16 ABOUT DIVERSITY AND INCLUSION. AND I THINK ABOUT
17 THIS IN THE CONTEXT OF THE EXAMPLE THAT YOU PROVIDED
18 FOR US IN ENSURING THAT THE WORK THAT WE FUNDED DID
19 NOT INCLUDE JUST PEOPLE OF EUROPEAN ANCESTRY. AND
20 THAT WAS THE REFERENCE POINT WHEN YOU SHOWED THIS
21 SLIDE.

22 AND SO PERHAPS, AGAIN, THINKING ABOUT
23 ACHIEVING DIVERSITY AND INCLUSION OR ADVANCING
24 DIVERSITY AND INCLUSION, AND I'M BEING A BIT
25 EXTEMPORANEOUS, BUT I THINK THAT THAT STATEMENT CAN

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1 BE STRENGTHENED AND THERE ARE WAYS TO DO THAT.

2 DR. MILLAN: THANK YOU SO MUCH. ONE OF
3 THE THINGS IS THAT DIVERSITY AND INCLUSION WILL BE A
4 THEME THAT WILL COME UP ALL THROUGHOUT, SO IT'S
5 INTERWOVEN IN EVERY KIND OF ASPECT OF THE STRATEGY.

6 IN THIS CASE, AND PERHAPS IT'S NOT AS
7 ARTICULATE AS IT COULD HAVE BEEN, IT'S A MATTER OF
8 THE BASIC PRINCIPLE OF UNLESS THIS IS ACTUALLY
9 INCLUDED, THE SCIENCE IS NOT STRONG. SO IT'S NOT
10 COMPLETE WITHOUT THIS. AND SO WE WANT TO MAKE SURE
11 TO CAPTURE THAT, BUT WE'LL DEFINITELY TAKE A LOOK AT
12 THE WORDING TO MAKE SURE THAT THAT MESSAGE IS
13 CLEARER IN THIS PARTICULAR APPLICATION.

14 MR. ROWLETT: AND, AGAIN, LET ME ENDORSE
15 WHAT YOU SAID. I AM NOT SUGGESTING THAT YOU REMOVE
16 DIVERSITY AND INCLUSION. IN FACT, I THINK THAT YOU
17 WANT TO ACHIEVE EXACTLY WHAT YOU JUST DESCRIBED.
18 AND SO POTENTIALLY I THINK THAT, AGAIN, THE
19 CONJUNCTIVE THERE, SOMEHOW IT WEAKENS THE STATEMENT.
20 AND FROM MY PERSPECTIVE, THE PERSPECTIVE OF ONE,
21 HOWEVER, WHAT YOU SAID IN YOUR PREAMBLE CERTAINLY
22 SPOKE TO THE HEART OF WHAT YOU WERE TRYING TO
23 ACHIEVE TO MAKE SURE TRIALS DID NOT JUST REFLECT
24 PEOPLE OF EUROPEAN ANCESTRY.

25 DR. MILLAN: THANK YOU SO MUCH --

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1 MS. BONNEVILLE: KRISTINA.

2 DR. VUORI: THANKS, MARIA. JUST WANTED TO
3 QUICKLY FOLLOW UP ON COMMENTS BY STEVE, LARRY, AND
4 KEITH. FIRST ON STEVE'S COMMENT ON THE PROP 14
5 SPECIFICALLY CALLING OUT BRAIN AND CNS DISORDERS. I
6 DO UNDERSTAND THAT THE HIGH LEVEL, THE VARIOUS --
7 VERY INTERESTING, GREAT THINGS THAT YOU HAVE
8 OUTLINED HERE TO ADVANCE WORLD-CLASS SCIENCE ALSO
9 ADVANCE AND ENABLE RESEARCH ON BRAIN AND CNS AS
10 WELL. BUT I THINK IT REMAINS THAT WE COLLECTIVELY,
11 NOT ONLY CIRM, BUT THE RESEARCH COMMUNITY AT LARGE,
12 HAS NOT REALLY GIVEN US ANY CLEAR BREAKTHROUGHS, AND
13 ONE WOULD EVEN ARGUE NOT EVEN INCREMENTAL ADVANCES
14 IN NEURODEGENERATIVE OR NEUROPSYCHIATRIC DISORDERS.

15 I'M WONDERING IF THERE WOULD BE AN
16 OPPORTUNITY FOR CIRM AND MAYBE THE EXPECTATION ALSO
17 BY THE VOTERS THAT WE COULD TRY TO TAKE A REALLY
18 DEDICATED STAB AT SOME THINGS THAT WE THINK COULD
19 ACCELERATE THOSE FIELDS SPECIFICALLY. ONE WAY MIGHT
20 BE TO HAVE SOME SORT OF A GRANT CHALLENGES PROGRAM,
21 REALLY IN AN EDUCATED MANNER COME UP WITH TOPICS OR
22 QUESTIONS IN A MANNER THAT, IF WE ONLY KNEW ANSWER
23 TO THIS, WE COULD MAYBE MOVE THESE SPECIFIC FIELDS
24 FORWARD. SO JUST A THOUGHT THERE.

25 AND SOMETHING LIKE THAT MIGHT ALSO HELP IN

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1 THE TOPIC THAT LARRY AND KEITH DISCUSSED. AND THAT
2 IS AS IT COMES FROM BASIC SCIENTIST PERSPECTIVE, I
3 ABSOLUTELY AGREE THAT THE POWER THERE IS THE
4 CURIOSITY-DRIVEN RESEARCH, BUT AT THE SAME TIME, IT
5 WOULD BE VERY HELPFUL TO FIND WAYS TO HARNESS THE
6 BIOLOGICAL KNOWLEDGE THAT SCIENTISTS HAVE TO SOLVE
7 MEDICAL QUESTIONS ONLY IF THOSE FOLKS WHO HAVE THESE
8 BIOLOGICAL SOLUTIONS WOULD KNOW WHAT THESE QUESTIONS
9 ARE. AND THAT MIGHT BE, AGAIN, IN SOME FORM OF VERY
10 TARGETED QUESTIONS THAT THIS IS WHAT WE WOULD LIKE
11 TO SOLVE, WHATEVER IT MIGHT BE IN THE BROAD FIELD OF
12 REGENERATIVE MEDICINE, AND TARGET SOME RFA'S SO THAT
13 THE BASIC SCIENCE MAY THINK, WELL, THIS IS A KEY
14 QUESTION IN THE CLINIC, THE MEDICINE, AND I HAVE
15 SOME KNOWLEDGE AT THE BENCH SCIENCE LEVEL THAT MIGHT
16 HELP TO ADDRESS THIS. SO JUST A FEW THOUGHTS.

17 DR. MILLAN: THANK YOU, DR. VUORI. IN
18 FACT, THIS IS WHAT WE -- WHAT WE'RE TRYING TO LAY
19 DOWN THE FOUNDATION FOR IS BEING ABLE TO HAVE THE
20 RIGHT CONNECTORS SO THAT IF WE PUT OUT A CHALLENGE
21 GRANT, A MOONSHOT PROJECT, OR CONSORTIUM CHALLENGE,
22 THAT THIS HAS ALREADY KIND OF WORKED INTO OUR
23 SYSTEMS, RIGHT, SO THAT THESE KIND OF INFRASTRUCTURE
24 ARE SET UP TO INCREASE THE PROBABILITY OF SUCCESS
25 FOR THOSE PROGRAMS COMING IN.

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1 SO THE FIVE-YEAR STRATEGIC GOALS ARE
2 INTENDED TO START LAYING THIS DOWN. WE BELIEVE
3 ORGANICALLY SOME OF THOSE KIND OF FOCUSED TEAMS WILL
4 EMERGE, AND TEAMS WILL EMERGE BASED ON WHAT WE'RE
5 SEEING IN TERMS OF WHAT TYPES OF PROGRAMS ARE COMING
6 IN, THAT EVENTUALLY THOSE WOULD EITHER ORGANICALLY
7 OR THROUGH INCENTIVIZING OR ORGANIZING THROUGH
8 PROGRAM ANNOUNCEMENTS WOULD COME TOGETHER AS THESE
9 TYPE OF TEAMS ADDRESSING KEY QUESTIONS OR LOOKING AT
10 SHARED PATHWAYS OR WHATEVER THE THEME HAPPENS TO BE.
11 SO THANK YOU FOR THAT COMMENT.

12 DR. VUORI: THANK YOU.

13 MS. BONNEVILLE: JUDY.

14 DR. GASSON: I WANT TO SECOND WHAT
15 KRISTINA SAID ABOUT THE LACK OF PROGRESS IN CERTAIN
16 AREAS OF NEUROPSYCH AND THE REAL IMPORTANCE OF
17 GETTING BASIC SCIENTISTS TO FOCUS ON GENETICS AND
18 GENOMICS, ET CETERA, OF THESE DISEASES. I THINK
19 THAT THAT'S REALLY CRITICALLY IMPORTANT. AND
20 HOPEFULLY THAT WILL BE CARRIED OUT AS THE RFA'S ARE
21 ROLLED OUT IN THIS AREA.

22 MY SECOND COMMENT IS ABOUT THE KNOWLEDGE
23 NETWORKS. AND I ENDORSE WHAT KEITH SAID ABOUT THE
24 IMPORTANCE AND THAT WE'RE ALL BARRAGED BY SO MUCH
25 INFORMATION AND DATA AND SO ON. I JUST WANT TO MAKE

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1 THE POINT THAT I THINK IT'S GOING TO BE REALLY
2 IMPORTANT TO INVOLVE THE ACADEMIC HEALTH CENTERS IN
3 THESE CONVERSATIONS BEFORE THESE NETWORKS GET
4 DESIGNED. THE REASONS ARE PRETTY STRAIGHTFORWARD.
5 THAT'S WHERE THE PATIENTS ARE, THAT'S WHERE THE
6 CLINICAL TRIALS WILL OCCUR, AND THAT'S WHERE THE
7 SUBJECT MATTER EXPERTS ARE, CLINICALLY AT LEAST, IN
8 MANY OF THESE DISEASES. SO I THINK IT'S IMPORTANT
9 TO ASK THEM AS THE END USERS WHAT KINDS OF
10 INFORMATION WOULD THEY LIKE TO SEE IN THESE
11 KNOWLEDGE NETWORKS SO THAT WE CAN, IN FACT,
12 EXPERIENCE THIS CONTINUING GROWTH AND IMPACT THAT
13 THESE DATA CAN HAVE. THANK YOU.

14 DR. MILLAN: DR. GASSON, I BELIEVE YOU AND
15 SOME OTHER BOARD MEMBERS PARTICIPATED IN KIND OF A
16 PLANNING MEETING FOR A BROADER STAKEHOLDER GROUP
17 REGARDING FORMATION OF KNOWLEDGE NETWORKS, DATA
18 PLATFORMS, WHAT ARE SOME OF THOSE THAT ARE OUT THERE
19 ALREADY? WHAT MAKES SENSE? WHAT'S IN CALIFORNIA?
20 AND SO THERE WILL BE A BROAD STAKEHOLDER MEETING, A
21 CONFERENCE, THAT'S BEING ORGANIZED BY DR. AVILES,
22 OUR VP OF SCIENTIFIC PROGRAMS HERE AT CIRM, AND HER
23 TEAM ALONG WITH THE SCIENTIFIC LEADERSHIP IN
24 CALIFORNIA AND OTHER PROMINENT PLAYERS IN THE FIELD,
25 SUCH AS THE BROAD AND NIH AND OTHERS WHO VERY MUCH

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1 HAVE ALREADY STARTED BUILDING THESE PLATFORMS AS
2 WELL AS OUR CALIFORNIA INSTITUTIONS. AND SO
3 ABSOLUTELY.

4 AND AT THAT PLANNING MEETING, WE HAD END
5 USERS IN TERMS OF SCIENTISTS AND TRANSLATIONAL
6 SCIENTISTS WHO WERE THERE, AND THEY VERY MUCH
7 PROVIDED KIND OF AN IMPORTANT INSIGHT. AND ONE OF
8 THE KEY TOPICS WAS THERE ARE SOME THINGS THAT ARE
9 READY FOR PRIME TIME IN TERMS OF IT'S ALREADY KNOWN.
10 AND FOR THOSE, THERE'S ONE APPROACH, AND THEN FOR
11 OTHERS WHERE IT'S JUST GOING TO BE CONTINUALLY
12 COLLECTING IMPORTANT INFORMATION SO DOWNSTREAM, WHEN
13 IT'S READY, IT'S AVAILABLE TO VALIDATE KIND OF A
14 GENERAL BODY OF INFORMATION. SO ALL THOSE TYPES OF
15 CONVERSATIONS ARE HAPPENING, AND FOR SURE IT WILL BE
16 AN INCLUSIVE CONVERSATION, INCLUDING THE COMMUNITY
17 AND PATIENT ADVOCATES WHO -- THE PATIENT COMMUNITY,
18 WHO WOULD HAVE TO BE PARTNERS. AFTER ALL, PATIENTS
19 OWN THEIR DATA. AND SO THERE'S A LOT OF THAT
20 CONVERSATION THAT'S GOING TO OCCUR IN THE UPCOMING
21 YEAR. THANK YOU.

22 MS. BONNEVILLE: AL.

23 MR. ROWLETT: I WOULD BE REMISS IF I
24 DIDN'T ENDORSE WHAT DR. VUORI SAID. IT IS CLEARLY
25 THE ISSUE OF THE DAY OTHER THAN COVID AND

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1 HOMELESSNESS. IT'S BEHAVIORAL HEALTH AND MENTAL
2 HEALTH. AND CLEARLY I THINK THE COLLOQUIALISM THAT
3 WAS USED WAS THE NOTION OF A MOONSHOT. I'M NOT
4 OFFENDED BY THAT, AND I THINK THAT THERE ARE LOTS OF
5 PEOPLE IN OUR STATE WHO WOULD BE ENTHUSIASTIC
6 SUPPORTERS OF AN OPPORTUNITY FOR THE SCIENTIFIC
7 COMMUNITY TO BE CHALLENGED TO COME UP WITH WHAT IS
8 CLEARLY TODAY STILL INCURABLE IN TERMS OF
9 NEUROPSYCHIATRIC DISORDERS. AND FOR PEOPLE WHO ARE
10 EXPERIENCING THAT AND THE WORK THAT JUDY GASSON HAS
11 DONE IS REFLECTIVE OF THAT. FROM THE PATIENT
12 ADVOCATE COMMUNITY, I WANT TO SAY AGAIN THANK YOU.
13 I LOOK FORWARD TO SEEING THAT ADDITION VERY CALLED
14 OUT IN OUR STRATEGIC PLAN.

15 DR. MILLAN: THANK YOU.

16 MS. BONNEVILLE: MARK.

17 DR. FISCHER-COLBRIE: I THINK IT GOES
18 WITHOUT SAYING, BUT GIVEN THE EXPLOSION OF ACTIVITY
19 WITHIN THE BROAD REGIME OF DATA SCIENCE, WHICH
20 INCLUDES MINING OF PUBLIC DATABASES AND PERIODICALS
21 AND JOURNAL ARTICLES, AND THE EXPLOSION OCCURRING IN
22 THE ADVENT OF EVERYTHING FROM BEING ABLE TO IN
23 SILICO ON A COMPUTER DESIGN A COMPOUND, AND THE
24 OPPORTUNITIES FOR UNDERSTANDING PROTEIN STRUCTURES
25 AND EVERYTHING ELSE, THAT ALL THOSE MACHINE

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1 LEARNING, DEEP LEARNING KINDS OF ACTIVITIES ARE
2 EMBEDDED WITHIN THE CONCEPT OF A KNOWLEDGE NETWORK
3 RELATED TO THAT. SO I JUST WANTED TO UNDERSTAND
4 THAT CLARIFICATION TO ASSUME THAT THAT'S COVERED AS
5 PART OF THAT ACTIVITY.

6 DR. MILLAN: ABSOLUTELY. SO WHENEVER WE
7 START HAVING THE CONVERSATION ABOUT THIS TOPIC, IT
8 CAN GET VERY DEEP VERY QUICKLY. SO I'M GOING TO TRY
9 TO KEEP IT AT A LEVEL THAT IT'S STILL HELPFUL AND
10 CLARIFYING.

11 WHEN WE ARE TALKING ABOUT WHAT CIRM COULD
12 FUND, WE FIRST WANT TO LAY DOWN KIND OF THE
13 PLATFORMS THAT CAN ENABLE THINGS SUCH AS MOONSHOT
14 PROJECTS OR SECONDARY DATA ANALYSIS, AI, MACHINE
15 LEARNING TYPE OF ACTIVITIES. FIRST WE NEED TO LAY
16 DOWN THE PATHWAY AND THE FOUNDATION FOR THIS. AND
17 THAT DOESN'T CURRENTLY EXIST. SO THE CHALLENGE WE
18 HAVE IN FRONT OF US IS WHAT MAKES SENSE. WE ARE NOT
19 TRYING TO SOLVE DATA SHARING FOR THE ENTIRE WORLD.
20 WE ARE TRYING TO BE RESPONSIBLE AND ACTIVE AND
21 MEANINGFUL MEMBERS OF THE COMMUNITY THAT'S TRYING TO
22 ACHIEVE THIS IN SERVICE OF OUR SCIENTIFIC COMMUNITY.

23 AND SO IT REALLY BECOMES SOMEWHAT A
24 HARDWARE/SOFTWARE ISSUE IS WHAT WE HAVE TO FIRST
25 SOLVE. WHAT IS THE BEST PLATFORM? AND THEN ALL OF

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1 THE KIND OF SOUL OF IT, LIKE THE KIND OF THE CONTENT
2 COMES FROM THE TYPE OF RESEARCHERS WE FUND, RIGHT,
3 AND THEN ALSO THE SECONDARY USERS BECAUSE IT'S NOW
4 ACCESSIBLE. THERE'S ALSO SOME BENEFIT TO THIS THAT
5 CAN OCCUR EVEN WHEN CIRM DOESN'T DIRECTLY FUND
6 PROGRAMS, THAT THERE'S STILL BENEFITS TO SCIENTISTS
7 IN THEIR OWN WORK JUST BECAUSE THIS EXISTS. THAT'S
8 WHAT WE ARE TALKING ABOUT WHEN WE SAY BUILD
9 KNOWLEDGE NETWORKS. IT SAYS BUILD KNOWLEDGE
10 NETWORKS; BUT WHEN IT COMES DOWN TO IT, WHAT YOU
11 COULD EXPECT DOWN THE LINE IS A CONCEPT PROPOSAL TO
12 FUND KIND OF THE HEAVY-DUTY CREATION OF THE PLATFORM
13 AND INTERCONNECTIVITY WITH LARGE PLATFORMS OR EVEN A
14 CLONE OF MAJOR PLATFORMS, THE HIGHWAYS FOR THIS
15 INFORMATION ECOSYSTEM. I HOPE THAT MAKES SENSE.

16 DR. FISCHER-COLBRIE: JUST A QUICK
17 FOLLOW-ON. THAT'S GREAT. AND THAT ALSO POINTS TO
18 POSSIBLY SETTING UP STANDARDS AROUND DATA THAT CAN
19 FURTHER BE EMPLOYED WITH THESE DIFFERENT MODELING
20 CAPABILITIES UNDER FAIR DATA STANDARDS AS THEY'RE
21 CALLED JUST FOR FURTHER REFERENCE. THANK YOU FOR
22 THE CLARIFICATION. THAT WAS EXCELLENT.

23 DR. MILLAN: THANK YOU SO MUCH.

24 MS. BONNEVILLE: LEON.

25 DR. FINE: JUST BY WAY OF FOLLOW-UP ON THE

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1 ISSUE OF NEUROPSYCHIATRIC DISEASES. WHILE THE NEED
2 FOR PROGRESS IN THIS AREA IS UNDENIABLE, WITHOUT
3 BEING OVERLY CYNICAL, I THINK THE CHANCES OF MAKING
4 HEADWAY ARE PROBABLY SMALLER IN THIS AREA THAN IN
5 MOST OTHER AREAS. I THINK IT WOULD BE HELPFUL TO
6 HAVE SOME SORT OF COMPILATION OF DISCOVERIES MADE
7 THUS FAR BY CIRM FUNDEES IN THIS AREA. I UNDERSTAND
8 THAT THE WORD "DISCOVERIES" IS OPEN TO
9 INTERPRETATION, BUT IT WOULD BE NICE TO BE ABLE TO
10 WAVE AROUND A SET OF DISCOVERIES MADE THUS FAR
11 SIMPLY TO SHOW THAT THE BASELINE IS NOT AS LOW AS IT
12 MIGHT BE PERCEIVED TO BE.

13 DR. MILLAN: THANK YOU VERY MUCH. SO JUST
14 TO REPEAT BACK, THE IDEA IS TO EVALUATE WHAT WE HAVE
15 SO FAR IN OUR PORTFOLIO RELATED TO NEUROPSYCHIATRIC
16 RESEARCH AND DISCOVERIES THAT HAVE SO FAR BEEN OR
17 OUTPUT OF THAT RESEARCH SO FAR TO ESTABLISH OUR
18 BASELINE. AND THEN FROM THAT, IS IT BY WAY OF
19 JUSTIFICATION FOR PROCEEDING FORWARD WITH FUNDING
20 ADDITIONAL OR IS IT --

21 DR. FINE: I'M USING THE WORD "DISCOVERY"
22 HERE RATHER THAN PORTFOLIO. IN OTHER WORDS, WITHIN
23 THE PORTFOLIO, CAN ONE HANDPICK A SERIES OF WHAT YOU
24 WOULD OR WHAT WE WOULD COLLECTIVELY CALL REAL
25 DISCOVERIES WHICH COULD BE SHOWN TO HAVE ALREADY

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1 MADE SOME ADVANCES IN THE FIELD? IT'S NOTHING MORE
2 THAN A DEMONSTRATION THAT THERE'S ACTIVITY AND THAT
3 THERE'S PROGRESS BEING MADE.

4 DR. MILLAN: THANK YOU VERY MUCH. WE'LL
5 DEFINITELY BRING THAT BACK TO THE TEAM. I CAN
6 SAFELY SAY THAT IT'S NOT A MAJOR PART OF OUR
7 PORTFOLIO. I KNOW YOU'RE NOT TALKING ABOUT
8 PORTFOLIO. THERE MAY BE DISCOVERIES THAT ARISE FROM
9 OTHER PLACES IN THE COURSE OF CARRYING OUT THE
10 RESEARCH IN THE PORTFOLIO. WE'LL HAVE A LOOK AT
11 THAT FOR SURE. THANK YOU.

12 MS. BONNEVILLE: MARIA, THAT WAS THE LAST
13 QUESTION IN THIS SECTION.

14 DR. MILLAN: THANK YOU SO MUCH. MARIA,
15 DID YOU WANT TO GIVE PEOPLE A BREAK, OR SHOULD WE
16 JUST KEEP GOING?

17 MS. BONNEVILLE: YOU GUYS WANT A
18 FIVE-MINUTE BREAK? HOW DOES EVERYONE FEEL ABOUT
19 THAT? J.T.?

20 CHAIRMAN THOMAS: HOW IS BETH DOING ON
21 THIS?

22 THE REPORTER: BETH IS FINE. THANKS
23 ANYWAY.

24 CHAIRMAN THOMAS: I WOULD PROPOSE WE KEEP
25 GOING HERE BECAUSE WE HAVE A NUMBER OF THINGS TO GET

1 THROUGH.

2 MR. TORRES: HERE. HERE. UNTIL BETH
3 CRIES.

4 CHAIRMAN THOMAS: IT'S ALL BETH DRIVEN.

5 DR. MILLAN: NEXT SLIDE PLEASE. OKAY.
6 THEME TWO, DELIVER REAL-WORLD SOLUTIONS. PROBLEM
7 STATEMENT: THE REGENERATIVE MEDICINE FIELD IS
8 ADVANCING RAPIDLY, BUT PERVASIVE BOTTLENECKS SLOW
9 CLINICAL DEVELOPMENT AND STALL THE APPROVAL OF THESE
10 POTENTIALLY TRANSFORMATIVE THERAPIES. WE'VE HAD
11 RECURRENT AND STRONG FEEDBACK THAT WE NEED TO BUILD
12 THE INFRASTRUCTURE AND THE EXPERTISE IN CERTAIN
13 AREAS IN CALIFORNIA, INCLUDING MANUFACTURING, WHICH
14 IS A RISK POINT FOR THE DEVELOPMENT OF THESE
15 PROGRAMS, AS WELL AS TO INCREASE THE PROBABILITY OF
16 BEING ABLE TO PROVIDE ENOUGH REGULATORY, CLINICAL,
17 AND MANUFACTURING SUPPORT FOR OUR PROGRAMS BY WAY OF
18 ADVISORY OR FUNDING THE RESEARCH TO ENABLE THIS TO
19 OCCUR. NEXT SLIDE PLEASE.

20 JUST TO BE VERY, VERY CONCRETE, THERE ARE
21 PROMINENT AND WELL-RECOGNIZED BOTTLENECKS IN CELL
22 AND GENE MANUFACTURING. THE CAR-T FIELD HAS SEEN
23 THIS IN TERMS TRYING TO FIGURE OUT HOW TO GET IT OUT
24 OF THE ACADEMIC INSTITUTIONS TO LARGE PHARMA.
25 THERE'S STILL CONTINUED CHALLENGES WITH THIS, BUT

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1 ESPECIALLY FOR THE EARLY STAGE CELL AND GENE THERAPY
2 PROGRAMS IN REGENERATIVE MEDICINE PROGRAMS IN OUR
3 ACADEMIC INSTITUTIONS.

4 THIS STEMS FROM SOME MAJOR REALITIES. ONE
5 IS JUST THE NATURE OF THE CELL AND GENE THERAPIES.
6 THESE LIVING MEDICINES ARE VERY COMPLEX COMPARED TO
7 TRADITIONAL DRUGS AND BIOLOGICS. THE RULES DON'T
8 APPLY. THE TYPICAL QUALITY SYSTEMS AND APPROACHES
9 IN PRODUCT DEVELOPMENT JUST DON'T APPLY.

10 SECONDLY, MOST OF THESE REGENERATIVE
11 MEDICINE PROGRAMS ARE FIRST DEVELOPED IN ACADEMIA.
12 IN FACT, THE EARLY STAGE TRIALS AND THE MANUFACTURE
13 OF PRODUCTS FOR THESE TRIALS OCCUR IN ACADEMIC GMP
14 FACILITIES. AND IT'S CHALLENGING TO TRANSFER THESE
15 ACADEMIC PROCESSES TO INDUSTRY ACCORDING TO INDUSTRY
16 STANDARDS. THERE'S A LITTLE BIT OF A DIFFERENT
17 CULTURE AND LANGUAGE THAT IS SPOKEN AT ACADEMIC
18 MANUFACTURING SITES FROM INDUSTRY.

19 AND THEN IN ADDITION, IN THIS NEW FIELD
20 THERE IS NO ESTABLISHED WORKFORCE PIPELINE. SO
21 THERE'S DEFINITELY A TALENT GAP, TALENT POOL GAP IN
22 THIS FIELD.

23 FROM OUR ACADEMIC AND INDUSTRY
24 STAKEHOLDERS, THERE'S A HUGE AMOUNT OF SUPPORT FOR
25 THE BUILDING OF SOME ORGANIZED APPROACH BY WAY OF A

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1 NETWORK AND PUBLIC-PRIVATE PARTNERSHIP TO ACCELERATE
2 MANUFACTURING DEVELOPMENT AND OVERCOME THESE
3 BOTTLENECKS.

4 SECONDLY, THERE IS A REQUEST, BOTH FROM
5 ACADEMIC AND INDUSTRY, FOR CIRM TO SUPPORT THE
6 TRAINING AND DEVELOPMENT OF LEADERSHIP WITHIN THE
7 FIELD AND CREATING ONRAMPS FOR MANUFACTURING
8 CAREERS. NEXT SLIDE PLEASE.

9 SO HERE'S A BROAD CONCEPT THAT, BASED ON
10 THIS FEEDBACK AND BASED ON THE LAY OF THE LAND IN
11 TERMS OF HOW THINGS ARE DONE CURRENTLY WITH PRODUCT
12 DEVELOPMENT AND MANUFACTURE, CIRM COULD FUND AN
13 ACADEMIC GMP NETWORK THAT WOULD ADDRESS THESE
14 BOTTLENECKS. THE THREE OUTCOMES ARE TO ACCELERATE
15 AND DERISK PATHS TO COMMERCIALIZATION, ADVANCE
16 STANDARDS AND QUALITY BY DESIGN, AND BUILD
17 MANUFACTURING LEADERSHIP AND WORKFORCE.

18 HOW WOULD THIS HAPPEN? THE NETWORK AND
19 THE INTEGRATED PUBLIC-PRIVATE PARTNERSHIP THAT IS
20 COORDINATED BY CIRM WITH OUR INDUSTRY PARTNERS AND
21 OUR FORMAL INDUSTRY ALLIANCE PROGRAM WOULD BE
22 DESIGNED TO ACCELERATE COMMERCIALIZATION BY
23 DERISKING THE PATH. BY HAVING EARLY INVOLVEMENT OF
24 INDUSTRY ALONG WITH OUR ACADEMIC GMP NETWORK, WE
25 COULD LEVERAGE INDUSTRY INPUT AND PARTICIPATION AND

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1 CREATE MORE ROBUST STANDARDS, QUALITY SYSTEMS, AND
2 TECH TRANSFER APPROACHES, TECHNOLOGY TRANSFER
3 APPROACHES, THAT DERISKS DOWNSTREAM WHEN THEY
4 FINALLY ARE READY TO TRANSFER THIS FOR FINAL
5 APPROVAL AND COMMERCIALIZATION TO THE CORPORATE
6 PARTNERS, TO THE COMMERCIALIZATION ENTITY.

7 ADVANCE, AS A NETWORK, THE MEMBER ACADEMIC
8 GMP TEAMS COULD ADVANCE STANDARDS AND QUALITY BY
9 DESIGN TO IMPROVE OUTCOME AND THE SUCCESS RATES OF
10 SCALE-UP AND COMMERCIALIZATION THAT COULD SHARE BEST
11 PRACTICES, SUPPORT EACH OTHER IN TERMS OF THEY
12 THEMSELVES BEING COMPETENCY HUBS. FOR INSTANCE, IF
13 ONE GMP FACILITY HAS A SPECIALIZATION IN CREATION OF
14 VECTORS FOR GENE THERAPY AND ANOTHER ONE HAS A
15 SPECIALIZATION IN DIFFERENTIATING CELLS, THERE'S A
16 CROSS-FERTILIZATION AND A SYNERGY THAT CAN OCCUR
17 THROUGH THESE ACADEMIC GMP NETWORKS.

18 BUILD THE WORKFORCE OF TOMORROW. SUCH A
19 NETWORK, INCLUDING THE INDUSTRY PARTNERS, WILL
20 PROVIDE A TRAINING GROUND FOR LEADERSHIP AND
21 WORKFORCE TRAINING AND MANUFACTURING AND PROVIDE A
22 TALENT POOL BOTH FOR ACADEMIA AND INDUSTRY. CIRM
23 WOULD FACILITATE THE NETWORK PARTNERSHIP BETWEEN THE
24 ACADEMIC GMP TEAMS AS WE DO FOR THE ALPHA CLINICS,
25 WHICH YOU WILL HEAR ABOUT IN A BIT, AND COORDINATE

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1 ACTIVE INDUSTRY ENGAGEMENT WITH THESE ACADEMIC GMP
2 TEAMS AND THE NETWORK ITSELF TO TAP INTO INDUSTRY
3 EXPERTISE, RESOURCES, AND POTENTIALLY INVESTMENT.

4 I WOULD LIKE TO HAVE A CONVERSATION
5 SPECIFICALLY ABOUT THIS BECAUSE IT'S A VERY DISCREET
6 TOPIC AND WELCOME THE BOARD'S INPUT, QUESTIONS, AND
7 DISCUSSION ON THIS PARTICULAR BROAD CONCEPT.

8 MS. BONNEVILLE: ART.

9 MR. TORRES: AS MARIA AND J.T. KNOW AND
10 MARIA BONNEVILLE AS WELL, I'VE BEEN WORKING VERY
11 CLOSELY WITH OUR COMMUNITY COLLEGE SYSTEM AND MY
12 ROLE ON THE UC REGENTS IN RESPECT TO MANUFACTURING
13 INITIATIVES. MANY OF YOU ALREADY KNOW THAT THE
14 COMMUNITY COLLEGES IN CALIFORNIA, MIRA COSTA AND
15 SOLANO, ARE CURRENTLY OFFERING FOUR-YEAR DEGREES IN
16 BIOMANUFACTURING. SO I INTENDED TO CONTINUE THAT
17 RELATIONSHIP AS WE MOVE FORWARD BECAUSE THAT IS
18 ANOTHER ELEMENT IN NOT ONLY OUR BRIDGES PROGRAM, OUR
19 OTHER PROGRAMS FOR HIGH SCHOOL STUDENTS, THE OTHER,
20 SPARKS, BUT ALSO THE EMPHASIS THAT WE SHOULD PLACE
21 ON COMMUNITY COLLEGE EDUCATION WITH THESE FOUR-YEAR
22 DEGREES IN BIOMANUFACTURING WHERE WE CAN BEGIN TO
23 DEVELOP AN ENTIRELY NEW WORKFORCE FOR CALIFORNIA
24 THAT FEEDS OUR INTERESTS AND OUR NEEDS DOWN THE
25 ROAD.

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1 SO I JUST WANTED TO ALERT YOU THAT'S IN
2 THE OFFING, AND THAT CONTINUES TO BE A PRIORITY
3 ESPECIALLY IN LIGHT OF THE GOVERNOR'S BUDGET THAT
4 PROVIDES FOR A FREE, ALMOST FREE, EDUCATION AT OUR
5 COMMUNITY COLLEGES AND FAR LESS COST THAN A TYPICAL
6 B.A. WOULD COST AT A STATE UNIVERSITY OR A UC
7 SYSTEM.

8 SO THE OTHER ELEMENT OF THOSE PROGRAMS
9 WHICH I FIND PARTICULARLY APPEALING IS THAT IT
10 REACHES OUT TO A DIVERSE COMMUNITY. IN OTHER WORDS,
11 THE PEOPLE THAT ARE ENROLLING BECAUSE OF THEIR
12 ECONOMIC STATUS, BECAUSE OF THEIR UNDERSERVED
13 STATUS, TEND TO COME FROM DIVERSE COMMUNITIES AND
14 PEOPLE OF COLOR. THOSE KINDS OF PROGRAMS ARE SO
15 ESSENTIAL FOR US BECAUSE THEY WILL PRODUCE HIGHER
16 EARNING FOLKS WITH MORE PROFESSIONAL APPROACHES AND
17 TO FULFILL A NEED THAT MARIA SO ELOQUENTLY JUST
18 TALKED ABOUT IN HER PRESENTATION. SO THAT'S JUST AN
19 FYI.

20 DR. MILLAN: THANK YOU SO MUCH. AND THEN
21 THE SUPPORT FOR THE CONTINUATION OF THESE FOUR-YEAR
22 DEGREES IN THE COMMUNITY COLLEGES RECENTLY IS A HUGE
23 BOON.

24 IN THE MANUFACTURING WORKSHOP AND IN
25 CONVERSATIONS WITH BOTH INDUSTRY AND ACADEMIC GMP

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1 FACILITIES, THERE'S DEFINITELY A RECOGNITION AND
2 THEY VALUE HOW THE COMMUNITY COLLEGE SYSTEMS COULD
3 FEED INTO THIS, BUT WE ALSO NEED TO ACKNOWLEDGE THAT
4 THEY HAVE DIFFERENT PARAMETERS OF ENGAGEMENT, RIGHT.
5 SO THESE COMMUNITY COLLEGES, FOR INSTANCE, WOULD NOT
6 HAVE THE BANDWIDTH OR THE EXPERTISE TO BE PURSUING
7 HUGE GRANTS, FOR INSTANCE, SO GRANT APPLICATIONS.
8 AND THEIR FACULTY GENERALLY DON'T HAVE THE SAME TYPE
9 OF EXPOSURE TO THOSE FUNDING OPPORTUNITIES. SO AS
10 WE ARE LOOKING AT THIS, WE ARE DEFINITELY FINDING
11 WAYS THAT ARE APPROPRIATE FOR ENGAGEMENT GIVEN THE
12 VALUE THAT THE DIFFERENT STAKEHOLDERS HAVE TO
13 PROVIDING TRAINING AND EDUCATION OPPORTUNITIES
14 ACROSS UNIVERSITIES, COMMUNITY COLLEGES, AS WELL AS
15 INDUSTRY. SO STAY TUNED AND YOU WILL BE HEARING
16 SOME OF THAT AS WE CONTINUE TO DEVELOP THIS PROGRAM.

17 MS. BONNEVILLE: LARRY.

18 DR. GOLDSTEIN: THANK YOU. SO FIRST I
19 WANT TO COMMEND YOU AND YOUR TEAM FOR CALLING OUT
20 WHAT I THINK IS AN ABSOLUTELY CRITICAL ISSUE MOVING
21 FORWARD. MANUFACTURING ENOUGH OF A LENTIVIRUS OR A
22 HEMATOPOIETIC STEM CELL AS PART OF A CLINICAL TRIAL
23 AND THEN ON TO MANUFACTURING IN THE REAL WORLD OF
24 BIOTECH AND PHARMA WHERE THIS GETS DELIVERED TO LOTS
25 OF PEOPLE, ABSOLUTELY CRITICAL ISSUE. SO GOOD JOB

1 ON THAT.

2 I DO WANT TO BE SURE THAT YOU HAVE IN MIND
3 IMPLEMENTATION AND POSSIBLY IN BROAD GOALS THE
4 NOTION OF FINDING WAYS TO IDENTIFY PEOPLE IN THE
5 PROCESS ENGINEERING COMMUNITY. SO THERE ARE EXPERTS
6 IN HOW TO GO FROM ONE LITER TO A THOUSAND LITERS. I
7 SUSPECT NONE OF US ARE ON THIS CALL, BUT THEY'RE OUT
8 THERE, AND WE WANT TO BE SURE THAT WE IDENTIFY THEM
9 AND INTEGRATE THEM INTO THIS GOAL.

10 DR. MILLAN: THANK YOU. ABSOLUTELY. AND
11 WHERE WE THINK THAT THAT PIPELINE FOR THAT TYPE OF
12 EXPERTISE WOULD BE ARE WITH OUR INDUSTRY PARTNERS.
13 IN FACT, INDUSTRY ALLIANCE PROGRAMS, LARGE PROGRAMS
14 SUCH AS BAYER AND OTHERS ARE IN OUR INDUSTRY
15 ALLIANCE PROGRAM. THEY'RE VERY MUCH INTERESTED IN
16 BUILDING THIS CAPACITY IN CALIFORNIA. THERE'S
17 INVESTMENT INTO THIS SPACE WITH CREATION OF NEW
18 COMPANIES SUCH AS RESILIENCE, FOR INSTANCE. THESE
19 ARE ALL ENTITIES THAT ARE WELL FUNDED THAT INTEND TO
20 BUILD THIS.

21 SO CIRM DOES NOT HAVE THE BUDGET TO BE
22 ABLE TO DO THIS. THANKFULLY OTHERS SEE THE
23 IMPORTANCE OF THIS AND ARE DOING THAT. WHAT CIRM
24 CAN DO IS BRING THAT EXPERTISE BY WAY OF OUR
25 ACADEMIC GMP BECAUSE THAT'S WHERE IT ALL STARTS, AND

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1 ALL OF THESE INDUSTRY PARTNERS RECOGNIZE THAT. THEY
2 COULD HAVE THE MONEY, THEY COULD HAVE THE EXPERTISE
3 IN TERMS OF TRADITIONAL MANUFACTURING, BUT THEY NEED
4 THAT KNOW-HOW. ACADEMIC GMP FACILITIES AND THE TYPE
5 OF TALENT THAT'S EMBEDDED WITHIN THOSE SYSTEMS, THEY
6 ACKNOWLEDGE THE IMPORTANCE OF THAT IN EARLY
7 DEVELOPMENT. AND SO BY CREATING THIS TYPE OF
8 PUBLIC-PRIVATE PARTNERSHIP AND NETWORK, THE IDEA IS
9 TO BE ABLE TO REALLY BRIDGE THAT GAP AND MAKE THEM
10 PART OF THE SOLUTION EARLY ON. THANK YOU.

11 MS. BONNEVILLE: PAT.

12 DR. LEVITT: THE FOCUS ON MANUFACTURING IS
13 UNDERSTANDABLE AND REALLY IMPORTANT. I THINK IN
14 THIS CONTEXT IN TERMS OF DELIVER REAL-WORLD
15 SOLUTIONS, ONE COMPONENT THAT I THINK IS REALLY
16 IMPORTANT THAT I THINK EVERYBODY ON THE ZOOM
17 RECOGNIZES IN THEIR OWN INSTITUTIONS IS THAT THERE'S
18 AN HR CRISIS IN TERMS OF ACTUALLY DOING CLINICAL
19 TRIALS; THAT IS, CLINICAL RESEARCH COORDINATORS ARE
20 VANISHING. AND IT'S NOT JUST IN CALIFORNIA. IT'S
21 ACROSS THE UNITED STATES.

22 DANA-FARBER LOST 80 PERCENT OF ITS CRC'S
23 IN ABOUT A TWO-MONTH PERIOD. 80 PERCENT. I'M NOT
24 EXAGGERATING. WE LOST AT CHILDREN'S HOSPITAL LOS
25 ANGELES, WE LOST 40 PERCENT. OTHER INSTITUTIONS

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1 AROUND CALIFORNIA. SO WE CAN HAVE THE GREATEST
2 MANUFACTURING IN THE WORLD; BUT IF WE CAN'T DO A
3 REAL-WORLD DELIVERY OF THE CLINICAL TRIALS
4 THEMSELVES, WE ARE IN DEEP DO-DO. AND WE ALREADY
5 ARE. THERE ARE CLINICAL TRIALS THAT ARE SLOWING,
6 THAT ARE BEING PAUSED, ET CETERA, AT A LOT OF
7 INSTITUTIONS.

8 SO I WAS REALLY INTERESTED IN WHAT ART
9 MENTIONED ABOUT COMMUNITY COLLEGE. THERE ARE NOT A
10 LARGE NUMBER OF PROGRAMS THAT ARE TRAINING CLINICAL
11 RESEARCH COORDINATORS. JUST AS TRAINING AND
12 EDUCATION IS IMPORTANT FOR BUILDING THE NEXT
13 GENERATION OF BENCH SCIENTISTS AND OTHER SCIENTISTS,
14 THIS IS A REALLY CRITICAL NEED IF WE'RE GOING TO
15 REALLY DELIVER REAL-WORLD SOLUTIONS BECAUSE YOU
16 CAN'T DO IT IN THE ABSENCE OF THOSE INDIVIDUALS WHO
17 ARE TRAINED. AND SO I THINK I JUST WANTED TO RAISE
18 THIS BECAUSE I THINK IT'S SOMETHING WE SHOULD THINK
19 ABOUT AND INVESTIGATE IN TERMS OF HOW CIRM CAN
20 PARTICIPATE IN THIS PROCESS. BUT I'M NOT BEING AN
21 ALARMIST. IT'S A REAL CRISIS.

22 DR. MILLAN: THANK YOU SO MUCH. I'VE
23 TAKEN THAT DOWN AND HIGHLIGHTED IT, AND THAT IS
24 SOMETHING WE WILL DEFINITELY PURSUE IN TERMS OF
25 CLINICAL RESEARCH COORDINATORS BECAUSE WE DO HAVE,

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1 AS YOU WILL SEE IN A LITTLE BIT IN TERMS OF ALPHA
2 CLINICS EXPANSION AND THEN POTENTIALLY THE COMMUNITY
3 CARE CENTERS OF EXCELLENCE, THOSE COULD BE THE
4 SETTINGS BY WHICH SOME OF THE FUTURE WORKFORCE IN
5 THAT REGARD WILL BE TRAINED. OUR EDUCATION PROGRAMS
6 CAN PARTNER WITH THAT. BUT A SPECIFIC WAY TO BRING
7 IN THE COMMUNITY COLLEGES IN THAT REGARD IS A REALLY
8 GREAT IDEA, AND WE'LL LOOK INTO THAT. THANK YOU SO
9 MUCH.

10 DR. LEVITT: AND IT'S ALSO ANOTHER
11 OPPORTUNITY TO REALLY GROW AND ENHANCE THE CIRM
12 EFFORTS IN DIVERSITY, EQUITY, AND INCLUSION BECAUSE
13 CRC'S AND OTHERS WHO WERE WORKING IN THE CLINICAL
14 TRIAL, CLINICAL RESEARCH SPACE ARE COMMUNITY FACING
15 IN TERMS OF ENGAGING FAMILIES TO PARTICIPATE IN
16 STUDIES. AND I THINK THAT'S A REALLY IMPORTANT
17 COMPONENT TO MAKE SURE THAT WE ARE WELL REPRESENTED
18 IN TERMS OF WHATEVER WE END UP DOING.

19 DR. MILLAN: MARIA BONNEVILLE IS TAKING
20 THAT DOWN, RIGHT, MARIA?

21 MS. BONNEVILLE: YES. DAVID.

22 DR. MARTIN: I TOTALLY AGREE THAT THIS
23 TRIANGLE IS REALLY IMPORTANT AND THE NEED IS
24 ENORMOUS. HOWEVER, THERE'S A VERY LARGE ELEPHANT IN
25 THE CENTER OF THIS TRIANGLE, AND THAT'S INTELLECTUAL

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1 PROPERTY, BOTH FROM ACADEME AND FROM INDUSTRY. AND
2 I THINK THAT WE CAN'T MAKE ANY PROGRESS HERE WITHOUT
3 TRYING TO UNDERSTAND THAT AND DEAL WITH IT
4 PROSPECTIVELY.

5 AND I CERTAINLY AGREE WITH PAT'S COMMENT
6 ABOUT EDUCATION OF CRC'S, PROCESS DEVELOPMENT,
7 TECHNICIANS, ET CETERA. THOSE ARE ALL VERY
8 IMPORTANT AND NOT ENCUMBERED BY INTELLECTUAL
9 PROPERTY. SO I THINK WE NEED TO REALLY PUSH ON
10 THOSE VERY HARD AND DETERMINE WHETHER THERE ARE SOME
11 NOVEL IDEAS OR APPROACHES OR PARTICIPANTS THAT ARE
12 WILLING TO EITHER SHARE NONEXCLUSIVELY THEIR
13 INTELLECTUAL PROPERTY THAT ARE GOING TO BE GENERATED
14 ON ALL SIDES OF THIS TRIANGLE.

15 DR. MILLAN: THANK YOU SO MUCH. THERE'S
16 GOING TO BE KNOW-HOW THAT'S GENERATED WITHOUT EVEN
17 LIKE SPECIFIC -- JUST GENERAL KNOW-HOW. AND SO I
18 JUST GIVE THIS EXAMPLE OF A VERY ESTABLISHED
19 MANUFACTURING, LANSA, FROM BALTIMORE. HOW THEY
20 BUILT THEIR BUSINESS IS THEY STARTED FIRST TAKING
21 CARE OF THE FIRST MSC-TYPE PROGRAMS. THEY GOT
22 BETTER AT IT. THEIR CUSTOMERS KEEP THEIR
23 INTELLECTUAL PROPERTY. IN SOME CASES LANSA WILL
24 LICENSE IN SPECIFIC PLATFORMS THAT THEY CAN THEN
25 OFFER TO THEIR CUSTOMERS. BUT, IN GENERAL, THE

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1 CUSTOMERS WILL KEEP THEIR INTELLECTUAL PROPERTY, BUT
2 THERE'S THIS KIND OF ITERATIVE LEARNING PROCESS THAT
3 DOES NOT GET UNLEARNED. AND THAT'S WHAT THE VALUE
4 OF A NETWORK IS.

5 AND IT'S A MATTER OF -- AND WE DO HAVE, IN
6 DISCUSSION WITH THE INDUSTRY REPRESENTATIVES AS WELL
7 AS ACADEMIA, I BELIEVE THAT FOLKS KNOW THAT THEY
8 CANNOT LIVE IN THEIR SILOS. THEY'RE NOT GOING TO
9 MAKE PROGRESS. IN FACT, IT BENEFITS THEM TO KIND OF
10 HAVE THAT COLLECTIVE KNOWLEDGE.

11 AND SO THERE ARE WAYS TO PROTECT
12 INTELLECTUAL PROPERTY FROM THEIR PROGRAMS WHILE
13 STILL MAKING ADVANCES FOR THIS COLLECTIVE KNOWLEDGE
14 THAT SUCH A NETWORK WILL BRING. IT'S SOMETHING WE
15 PRESSURE TESTED. THERE'S A LOT OF INTEREST IN THIS,
16 AND SO IT'S NOT A THEORETICAL THING. WE BELIEVE
17 THIS IS FEASIBLE AND SOMETHING THAT CAN BE
18 IMPLEMENTED.

19 MS. BONNEVILLE: DAVID.

20 DR. HIGGINS: JUST A QUICK QUESTION ABOUT
21 THE STATISTICS WE HEARD FOR 20 TO 40 PERCENT OF THE
22 CRC'S BEING LOST RECENTLY IN THE NORTHEAST. CAN YOU
23 TALK A LITTLE BIT MORE ABOUT WHY THAT MIGHT BE THE
24 CASE?

25 AND THE SECOND ONE IS CAN WE LOOK AT THAT

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1 AS AN OPPORTUNITY AS OPPOSED TO A TRAGEDY? IF WE'RE
2 GOING TO BE HIRING ALL THOSE REPLACEMENTS, NOW MAY
3 BE THE TIME TO BRING IN A NEW PARADIGM OR NEW
4 PARADIGM SHIFT OR A NEW PHILOSOPHY OR WHATEVER YOU
5 WANT TO CALL IT.

6 WHAT I THINK I'VE LEARNED TODAY IS THAT WE
7 THINK OF CLINICAL DEVELOPMENT AS THIS MONOLITH OR
8 THIS MEGALITH, MEGA MONOLITH, AND WE EITHER SUCCEED
9 OR FAIL. AND THERE'S A PIPELINE. A PIPELINE
10 SUPPLIES A SINGLE CONDUIT FROM POINT A TO POINT B.
11 CLINICAL DEVELOPMENT IS DYING BY A DEATH OF A
12 THOUSAND CUTS, AND THIS IS JUST A COUPLE OF THEM.
13 AND IT REALLY POINTS OUT THE CRITICAL NATURE OF THIS
14 GROUP OF PEOPLE WHO HAVE THEIR FINGERS IN
15 ESSENTIALLY EVERY POT YOU CAN IMAGINE. BUT I JUST
16 WANTED TO ASK FOR A LITTLE BIT OF INFORMATION ON THE
17 STATISTIC YOU JUST GAVE AND TO ASK WHETHER YOU VIEW
18 THIS AS AN OPPORTUNITY OR A SERIOUS THREAT. THANKS.

19 DR. LEVITT: MARIA, DO YOU WANT ME TO
20 ADDRESS THAT? OR, J.T., YOU WANT ME TO SAY? SO
21 IT'S A COMBINATION OF THINGS. ONE IS THAT STARTING
22 SALARIES IN CALIFORNIA FOR A CRC-1 HAS BEEN ABOUT 17
23 AND A HALF TO \$18 AN HOUR. AND SO THAT'S A REAL
24 PROBLEM IN TERMS OF COMPENSATION. A LARGE NUMBER
25 OF, IN A NONORGANIZED WAY, DIFFERENT INSTITUTIONS

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1 HAVE ADDRESSED THAT, WHICH MEANS THAT CRC'S ARE
2 MOVING FROM ONE INSTITUTE TO ANOTHER. SO THERE'S
3 COMPETITION BETWEEN OUR BROTHERS AND SISTERS IN
4 CALIFORNIA, RIGHT. IT'S LIKE A COMPANY MOVING FROM
5 MINNEAPOLIS TO ST. PAUL BECAUSE OF A TAX BREAK AND
6 THEN BACK AGAIN WHEN THEY GET THE TAX BREAK FIVE
7 YEARS LATER FROM MINNEAPOLIS. SO COMPENSATION IS A
8 BIG ISSUE.

9 THE OTHER ISSUE IS THAT CRC'S CAN WORK ON
10 HYBRID SCHEDULES; THAT IS, THEY CAN BE REMOTE FOR
11 PERIODS OF TIME AND THEN THEY MAY HAVE TO BE ON
12 SITE. SOME CAN BE FULLY REMOTE DEPENDING UPON THE
13 ROLE OF THE RESEARCH NURSES THAT ARE AVAILABLE. AND
14 MANY INSTITUTIONS ACROSS THE COUNTRY ARE ACCEPTING
15 AND SIGNING ON CRC'S WHO DON'T LIVE IN THEIR STATE.
16 SO THERE'S COMPETITION NATIONALLY NOW, AND THERE'S A
17 SHORTAGE. IT'S NOT AS IF WE HAVE AN ABUNDANCE OF
18 THOSE WHO ARE TRAINED TO DO CLINICAL RESEARCH
19 COORDINATION, WHICH, AS YOU KNOW, HAS MANY
20 COMPONENTS THAT CAN BE DONE VIRTUALLY. SO IT'S A
21 COMBINATION OF THOSE THINGS.

22 AND WITH HOSPITALS AND ACADEMIC
23 INSTITUTIONS, PARTICULARLY THIS YEAR, STILL BEING
24 STRAPPED FINANCIALLY, IT'S TOUGHER TO DEAL WITH THE
25 COMPENSATION ISSUE, BUT THEY'RE TRYING. THE ISSUE

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1 OF NOW COMPETITION NATIONALLY IS A BIG PROBLEM.
2 I.T. IS A REAL CHALLENGE. AND THERE'S A SHORTAGE OF
3 THEM. SO, OF COURSE, THEY CAN GO WHEREVER THEY
4 WANT. THAT'S WHAT I THINK ARE THE TWO BIG ISSUES.

5 DR. HIGGINS: MCDONALD'S DOWN THE STREET,
6 BY THE WAY, HAS A SIGN IN THE WINDOW THAT SAYS \$18
7 AN HOUR.

8 DR. LEVITT: YES. YOU'RE PAYING A CRC
9 BASICALLY A FEW DOLLARS MORE ABOVE MINIMUM WAGE, AND
10 THEY CAN LOOK FOR POSITIONS WHERE THEY CAN BE FULLY
11 REMOTE IN ALABAMA AT UAB OR IN FLORIDA, UNIVERSITY
12 OF FLORIDA, OR WHEREVER, AND THEY LIVE IN
13 CALIFORNIA. SO THERE'S A NUMBER. IT'S COMPLICATED
14 TO SOME EXTENT, ALTHOUGH WE SORT OF KNOW WHAT SOME
15 OF THE CORE PROBLEMS ARE. I DON'T HAVE A SOLUTION.
16 I'M JUST SAYING THAT CALIFORNIA COULD BE A SOLUTION
17 FOR US IN PARTICULAR STARTING HERE FIRST BECAUSE WE
18 HAVE EDUCATIONAL INFRASTRUCTURE BECAUSE OF OUR VERY
19 LARGE COMMUNITY COLLEGE SYSTEM OR CALIFORNIA STATE
20 COLLEGE SYSTEM, ET CETERA, THAT CAN BUILD CAPACITY
21 IN REALLY SIGNIFICANT WAYS. AND YOU CAN'T DO
22 THESE -- AGAIN, YOU CAN HAVE THE GREATEST
23 MANUFACTURING IN THE WORLD; BUT IF YOU DON'T HAVE
24 THE STAFF TO BE ABLE TO DO THESE CLINICAL TRIALS,
25 WHICH, AS YOU KNOW, HAVE GOTTEN FAR MORE COMPLICATED

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1 BECAUSE OF REGULATORY COMPONENTS, THAT'S WHERE
2 THEY'RE REALLY IMPORTANT IN TERMS OF UNDERSTANDING
3 AND BEING ABLE TO DELIVER ON THE FDA REGULATORY
4 COMPONENTS WHEN IT STARTS IN AN ACADEMIC
5 INSTITUTION.

6 I WOULD SAY ONE OTHER THING. THERE IS
7 COMPETITION BETWEEN ACADEMIC INSTITUTIONS AND THE
8 PRIVATE SECTOR. SO ANYTHING THAT CIRM CAN DO TO
9 PROMOTE A MORE FRIENDLY ARRANGEMENT WHERE YOU HAVE
10 THESE PUBLIC-PRIVATE PARTNERSHIPS, WE'D LIKE THE
11 PUBLIC-PRIVATE PARTNERSHIPS TO BE REAL PARTNERSHIPS
12 AND NOT COMPETITION BECAUSE THERE IS COMPETITION NOW
13 IN TERMS OF THE PRIVATE SECTOR GOING AFTER CRC'S WHO
14 HAVE HAD TWO, THREE YEARS EXPERIENCE AT AN ACADEMIC
15 INSTITUTION AND THEN THEY WAVE MORE DOLLARS IN FRONT
16 OF THEM, WHICH IS UNDERSTANDABLE, AND THEN THEY
17 LEAVE. SO THAT'S SOMETHING WE CAN WORK ON IN TERMS
18 OF PARTNERSHIPS BECAUSE THE PHARMAS ARE NOT GOING TO
19 BE ABLE TO DO THEIR STUDIES WITHOUT FIRST BEING DONE
20 THROUGH THE ACADEMIC INSTITUTIONS.

21 DR. MILLAN: I WANTED TO -- FIRST OF ALL,
22 THAT WAS A GREAT DISCUSSION, BUT WANTED TO SHARE
23 SOMETHING THAT CAME UP IN OUR CONVERSATIONS THROUGH
24 THESE WORKSHOPS AND TACKLING HOW YOU GET AN
25 ASSOCIATE LEVEL -- FIRST, IT WAS IN THE

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1 MANUFACTURING ASSOCIATES DISCUSSION; HOWEVER, IT
2 ALSO IS RELEVANT TO THE CRC. ONE OF THE THINGS THAT
3 I THINK THAT WE CAN CONSIDER IS THAT WE JUST NEED TO
4 UNDERSTAND THAT THAT'S REALITY. WE ARE NOT GOING TO
5 BE ABLE TO STOP PEOPLE FROM GOING TO BETTER JOBS AND
6 WE SHOULD BE HAPPY FOR THAT. MAYBE WE JUST WORK IT
7 INTO THE SYSTEM.

8 I CAME FROM A SYSTEM TRAINED AS SURGEON
9 AND THEN A TRANSPLANT SURGEON WHERE WE WERE PAID
10 VERY LITTLE, BUT WE WERE CHEAP LABOR. AND WE WERE
11 THE ON-THE-GROUND PEOPLE IN THE WARDS AND THE ORS,
12 RIGHT, TAKING CALL AND EVERYTHING ELSE BECAUSE THAT
13 WAS OF VALUE TO US BECAUSE OF WHAT IT DOES FOR THE
14 FUTURE. WE SHOULD START THINKING ABOUT
15 MANUFACTURING ASSOCIATES OR DIFFERENT POSITIONS
16 WITHIN CLINICAL TRIALS AND SYSTEMS AS THAT IS A
17 ROTATION, THAT IS A TRAINING GROUND, AND WE DON'T
18 EXPECT THEM TO STAY THERE FOREVER. THERE'S NOT AN
19 ADVANCEMENT, BUT THAT WE JUST CREATE A PATHWAY SO
20 THEY CAN GAIN WHAT THEY HAVE, CONTRIBUTE, GO ON TO
21 THE NEXT STATION, RIGHT. SO THOSE ARE SOME OF
22 THINGS WE ARE THINKING ABOUT IN TERMS OF HOW YOU
23 INTEGRATE ALL THE DIFFERENT OPPORTUNITIES.

24 DR. LEVITT: YES. I COULDN'T AGREE MORE.
25 THE MODEL IN A LOT OF BENCH SCIENCE LABORATORIES IS

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1 JUST THAT, THAT MOST OF THE BENCH SCIENTISTS I KNOW
2 RUN THEIR LABORATORIES, WHICH THEY UNDERSTAND THAT
3 THEY'RE GOING TO HAVE INDIVIDUALS WHO ARE GOING TO
4 BE THERE FOR TWO OR THREE YEARS, ARE NOT GOING TO BE
5 CAREER TECHNICIANS. THERE ARE SOME, BUT IT'S A MUCH
6 SMALLER GROUP. AND THEN THEY MOVE ON TO GRADUATE
7 SCHOOL, MEDICAL SCHOOL, HEALTH PROFESSIONAL SCHOOLS,
8 OTHER SORTS OF THINGS THAT THEY WANT TO DO, AND THAT
9 WORKS VERY WELL BECAUSE YOU GET REALLY FABULOUS
10 INDIVIDUALS RIGHT OUT OF COLLEGE THAT DO THAT WORK
11 TO GET TRAINED AND THEN THEY MOVE ON AND YOU
12 ENCOURAGE THEM TO DO THAT. WE COULD DO THE SAME IN
13 THIS AREA AS WELL.

14 DR. MILLAN: AND I THINK THAT -- IN THE
15 BEGINNING I STARTED OFF BY SAYING THE PROOF CONCEPT
16 OR A SIGNAL WOULD IMPACT ON PATIENTS. THERE'S A
17 PROOF OF CONCEPT IN THE SIGNAL TO THE LEGACY OF
18 EDUCATION -- DAVID MARTIN BROUGHT THAT UP -- IN
19 TERMS OF WE HAVE SO MANY STORIES OUT THERE OF
20 BRIDGES STUDENTS, PEOPLE WHO HAD GONE THROUGH OUR
21 EDUCATIONAL PROGRAMS, THEN ENDED UP IN LEADERSHIP
22 POSITIONS IN INDUSTRY OR PURSUED CAREERS IN
23 ACADEMIA. AND WHAT WE WANT TO DO IS INCREASE THE
24 PROBABILITY THAT MORE AND MORE OF OUR STUDENTS WHO
25 GO THROUGH THAT FIND A PATH, WHEREVER THAT MAY BE,

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1 ALONG MULTIPLE LEVELS OF POSITIONS AND
2 OPPORTUNITIES.

3 I THINK WE HAVE AN OPPORTUNITY -- I THINK,
4 PAT, YOU'RE RIGHT. WE HAVE AN OPPORTUNITY TO DO
5 THIS IN CALIFORNIA BECAUSE WE HAVE A STRUCTURE AND A
6 FUNDING TO BE ABLE TO DO THIS IN SERVICE OF THE
7 OVERALL MISSION. THANK YOU SO MUCH. GREAT
8 DISCUSSION.

9 MS. BONNEVILLE: THAT'S IT FOR QUESTIONS
10 IN THIS ROUND. J.T., I'VE HAD A REQUEST, COUPLE OF
11 REQUESTS FOR A QUICK BREAK IF THAT'S OKAY.

12 CHAIRMAN THOMAS: CERTAINLY. FIVE
13 MINUTES?

14 MS. BONNEVILLE: SURE. I THINK THAT
15 SHOULD BE GOOD. THANK YOU.

16 (A RECESS WAS TAKEN.)

17 CHAIRMAN THOMAS: OKAY. MARIA, I THINK
18 EVERYBODY IS READY TO RESUME HERE. WHY DON'T WE GO
19 BACK TO DR. MILLAN AND ON TO THE NEXT SLIDE.

20 DR. MILLAN: THANK YOU SO MUCH. THANK YOU
21 FOR THAT SHORT BREAK.

22 CONTINUING ON THE TOPIC OF DELIVERING
23 REAL-WORLD SOLUTIONS, OUR BROAD STAKEHOLDERS HAVE
24 SUPPORTED THE CONTINUED NEED FOR CLINICAL
25 INFRASTRUCTURE FOR CLINICAL RESEARCH AND THE

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1 ADVANCEMENT OF REGENERATIVE MEDICINE AS WELL AS
2 EMPHASIZING THE IMPORTANCE OF ACADEMIC INSTITUTIONS
3 TO PROVIDING THESE OFFERINGS TO THE BROADER
4 CALIFORNIA COMMUNITIES.

5 TRAINING, THE NEED TO TRAIN CLINICAL
6 EXPERTISE AS WELL AS OTHER SKILL SETS AS DISCUSSED
7 IN THE PREVIOUS CONVERSATION REGARDING CLINICAL
8 RESEARCH COORDINATORS FOR REGENERATIVE MEDICINE
9 CLINICAL TRIAL AND THERAPIES IN THE AREA OF NURSING,
10 PHYSICIANS, PHARMACY, ANCILLARY STAFF. THE CIRM
11 ALPHA CLINICS NETWORK THAT WAS LAUNCHED SIX YEARS
12 AGO HAS DEMONSTRATED VERY CLEAR VALUE IN SUPPORTING
13 ACADEMIC AND INDUSTRY SPONSORED TRIALS WITH
14 ACCELERATING RESOURCES, SHARED RESOURCES, SUCH AS
15 IRB RELIANCE AND THE BUILT-IN CAPACITY TO EXPAND
16 CLINICAL TRIALS BY WAY OF SITE EXPANSION FOR
17 ENROLLMENT, UTILIZING RECIPROCAL ARRANGEMENTS FOR
18 FOLLOW-UP, SHARING OF BEST PRACTICES, AND DRAWING
19 FROM EACH OTHER'S EXPERTISE.

20 PROPOSITION 14 ANTICIPATES THE CONTINUED
21 FUNDING AND EXPANSION OF THE ALPHA CLINICS NETWORK
22 GOING FORWARD. NEXT SLIDE PLEASE.

23 JUST TO LET YOU KNOW, CURRENTLY THERE ARE
24 FIVE PROGRAMS THAT HAVE BEEN FUNDED. THEY'RE IN
25 EXTENSION FUNDING THAT THE BOARD APPROVED DURING

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1 THIS GAP THAT WE'RE DEVELOPING AN ALPHA CLINICS
2 EXPANSION CONCEPT. THE CURRENT SITES ARE UCLA,
3 U.C.I. AS A CONSORTIUM, UC SAN FRANCISCO AND
4 BENIOFF, UC DAVIS, SAN DIEGO, AND CITY OF HOPE.
5 NEXT SLIDE PLEASE, SHYAM.

6 SO THE IDEA FOR AN ALPHA CLINICS
7 EXPANSION, WHICH IS ANTICIPATED IN PROP 14, IS TO
8 DEVELOP CONCEPTS WHERE WE WOULD ENABLE INNOVATIVE
9 CLINICAL RESEARCH. AND WHAT DO WE MEAN BY THAT? WE
10 TALKED ABOUT NEW MODELS FOR DOING RESEARCH,
11 COLLABORATIVE WAYS, CONSORTIA MODELS, UMBRELLA
12 TRIALS, THOSE TYPE OF THINGS WHEN THEY ARE READY TO
13 BE DONE AND COULD PROGRESS PROGRAMS FORWARD, FOR
14 INSTANCE, FOR CNS RESEARCH AS WELL AS OTHERS. THE
15 FDA IS PUTTING OUT NEW PATHWAYS ON HOW TO RUN
16 CLINICAL TRIALS, INNOVATIVE WAYS FOR USING IND'S,
17 MULTIPLE IND'S, IN A WAY THAT PROGRESSES THE
18 DEVELOPMENT OF PROGRAMS.

19 WE NEED THE CLINICAL INFRASTRUCTURE TO BE
20 ABLE TO SUPPORT THESE INNOVATIVE APPROACHES TO
21 CLINICAL TRIALS AND CLINICAL DEVELOPMENT. AND ALSO
22 THERE IS THIS NEED TO EXPAND CAPACITY AND REACH
23 GEOGRAPHIC REACH OF THESE PROGRAMS. SO CURRENTLY
24 THERE ARE FIVE PROGRAMS FUNDED. WE ANTICIPATE THAT
25 WE'LL BE COMING BACK TO THE BOARD TO BE ABLE TO FUND

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1 MORE PROGRAMS .

2 IN ADDITION, THESE WOULD BE THE TRAINING
3 GRANTS FOR SUBSPECIALTY TRAINING OF CLINICIANS,
4 CLINICIAN RESEARCHERS, AS WELL AS NURSES, CLINICAL
5 RESEARCH COORDINATORS, AND OTHER TYPES OF
6 SPECIALTIES RELATED TO WORKFORCE DEVELOPMENT.

7 SO THE ALPHA CLINICS EXPANSION IS BUILDING
8 UPON AN ALREADY SUCCESSFUL PROGRAM. THE IDEA OF THE
9 COMMUNITY CARE CENTERS OF EXCELLENCE, WHICH IS ALSO
10 STIPULATED IN PROPOSITION 14 WITH AN ASSOCIATED
11 BUDGET, IS THAT IT WOULD SERVE AS A COMMUNITY
12 PARTNER, NOT JUST A SUPPORTIVE ROLE, BUT ALSO A
13 LEADERSHIP ROLE IN BRINGING THESE EFFORTS TO BRING
14 REGENERATIVE MEDICINE RESEARCH AND THERAPIES TO
15 LOCAL COMMUNITIES IN THE APPROPRIATE WAY IN
16 PARTNERSHIP WITH THE ACADEMIC PROGRAMS.

17 THE STRUCTURE AND THE SCOPE OF THE
18 COMMUNITY CARE CENTERS OF EXCELLENCE IS STILL BEING
19 EVALUATED AND WILL REALLY BE DRIVEN AND RESPONSIVE
20 TO THE NEEDS OF THE COMMUNITY AND THE LOCAL HEALTH
21 SYSTEMS. SO THERE'S GOING TO BE MORE ON THAT AND
22 THAT'S UNDER DEVELOPMENT. AND MARIA BONNEVILLE IS
23 ORGANIZING, ALONG WITH OUR BOARD MEMBERS, A BROADER
24 STAKEHOLDER DISCUSSION ON WHAT WOULD BE NEEDED IN
25 COMMUNITY CARE CENTERS OF EXCELLENCE. NEXT SLIDE

1 PLEASE .

2 SO FIVE-YEAR TANGIBLE GOALS RELATED TO
3 OVERCOMING CRITICAL BOTTLENECKS IN THE APPROVAL OF
4 THERAPIES ARE THE MANUFACTURE AND PUBLIC-PRIVATE
5 PARTNERSHIP AND WE TALKED ABOUT, ESTABLISHING THAT,
6 EXPANDING THE ALPHA CLINICS NETWORK, AND CREATING
7 COMMUNITY CARE CENTERS OF EXCELLENCE THAT SUPPORT
8 DIVERSE PATIENT PARTICIPATION IN THE RAPIDLY
9 MATURING REGENERATIVE MEDICINE LANDSCAPE AND MAKING
10 SURE THIS IS ACCESSIBLE THROUGH ALL THE GEOGRAPHIES
11 OF CALIFORNIA. AND OPTIMIZING CIRM'S CLINICAL TRIAL
12 FUNDING PARTNERSHIP BY WAY OF INDUSTRY PARTNERSHIP,
13 MOU'S SUCH AS WE HAVE WITH NHLBI, BUT ALSO THE WAY
14 CIRM MANAGES THESE PROGRAMS IS A PARTNERSHIP.

15 WE DEPLOY ADVISORY PANELS, CLINICAL
16 ADVISORY PANELS, TRANSLATIONAL ADVISORY PANELS. AND
17 ABLA CREASEY, WHO IS THE VICE PRESIDENT OF
18 THERAPEUTIC DEVELOPMENT, IS CRAFTING ALONG WITH HER
19 TEAM A WAY TO LEVERAGE THE ADVISORY PANEL MODEL TO
20 HELP PROGRAMS ANTICIPATE WHAT THE NEEDS ARE OF
21 DOWNSTREAM APPROVAL SO THAT WE CAN INCREASE THE
22 PROBABILITY OF PROGRAMS GETTING ALL THE WAY TO FDA
23 MARKETING APPROVAL .

24 THIS WAS A SHORTER ONE, BUT I'LL NOW OPEN
25 IT UP FOR DISCUSSION. WE SPOKE ABOUT THE

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1 MANUFACTURING, PUBLIC-PRIVATE PARTNERSHIP, DISCUSSED
2 ALPHA CLINICS EXPANSION, AND COMMUNITY CARE CENTERS
3 OF EXCELLENCE AS A TOPIC. THANK YOU. CHAIRMAN
4 THOMAS.

5 MS. BONNEVILLE: YSABEL, YOU HAD YOUR HAND
6 RAISED.

7 MS. DURON: YES, I DID. SORRY. I TOOK IT
8 DOWN. MAY I PROCEED?

9 MARIA, I WANTED TO PICK UP ON THE POINT OF
10 THE EXPANSION OF ALPHA CLINICS AND THE COMMUNITY
11 CARE CENTERS OF EXCELLENCE. I THINK IT'S REALLY
12 CRUCIAL, BECAUSE WE'VE TALKED ABOUT THIS BEFORE, TO
13 REALLY LOOK AT THE LACK OF THROUGHOUT THE STATE OF
14 WHERE WE NEED TO MAKE SURE WE ARE PARTNERING WITH OR
15 CREATING THESE CENTERS IN ORDER TO, IN FACT, EXPAND
16 OUR REACH FOR THESE DIVERSE PATIENT PARTICIPANTS
17 BECAUSE SO MANY WHO ARE UNDERSERVED ALSO GO TO
18 COMMUNITY CLINICS.

19 THERE ARE TWO SOURCES I THINK YOU SHOULD
20 RESEARCH OR PARTNER WITH OR SPEAK WITH. AND ONE IS
21 THE CALIFORNIA PRIMARY CARE ASSOCIATION, WHICH
22 REPRESENTS THE FEDERALLY QUALIFIED HEALTHCARE
23 CENTERS OF THE STATE, ABOUT 1400 OF THEM. AND, OF
24 COURSE, SOME OF THEM ARE VERY SMALL. SOME OF THEM
25 ARE BECOMING MUCH MORE ENGAGED AT CREATING THEIR OWN

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1 INSTITUTIONAL REVIEW BOARDS. AND SO THERE ARE
2 DIFFERENTIATIONS AMONG THEM. BUT I THINK THAT THIS
3 IS AN ABSOLUTE GOOD PLACE TO BEGIN, PARTICULARLY
4 WHERE THERE ARE REAL GAPS IN SERVICE IN PARTS OF
5 CALIFORNIA WHERE THERE ARE NOT CONCREANTS OF CANCER
6 CENTERS IN LARGE INSTITUTIONS OF CANCER CARE.

7 THE OTHER GROUP YOU MIGHT TAKE A LOOK AT
8 IS THE ASSOCIATION THAT'S CALLED AOCC OR SOMETHING
9 TO THAT EFFECT, THE ASSOCIATION OF COMMUNITY CANCER
10 CENTERS. IT RUNS EVERYWHERE FROM A TWO-DOC SHOP AS
11 THEY SAY TO M.D. ANDERSON. BUT THE FACT OF THE
12 MATTER IS THAT THEY ARE ALSO LOOKING TO BECOME
13 SMARTER AND BETTER ABOUT THEIR ENGAGEMENT IN
14 CLINICAL TRIALS AND INCLUDING THEIR PATIENTS IN
15 CLINICAL TRIALS. AND SO THEY MIGHT BE A GROUP WITH
16 CENTERS OF CARE IN CALIFORNIA WHO COULD HELP TO
17 START TO CONNECT THOSE DOTS.

18 BUT I DO BELIEVE THAT PATIENT DIVERSITY
19 REQUIRES A REAL FULL FRONT ASSAULT ON ALL OF THE
20 PARTS OF CALIFORNIA THAT ARE UNDERSERVED IN ORDER TO
21 MAKE SURE THAT THEY ARE GOING TO GET RELIEF AS WELL
22 FROM WHAT WE ARE TALKING ABOUT IN TERMS OF CARE AND
23 THIS EXPANSIVE KIND OF THERAPY.

24 DR. MILLAN: THANK YOU. MARIA BONNEVILLE,
25 DID YOU WANT TO JUST BRIEFLY DESCRIBE THE PROCESS

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1 WE'RE GOING TO GO THROUGH TO GET THAT INPUT FOR
2 COMMUNITY CARE CENTERS?

3 MS. BONNEVILLE: SURE. WE PLAN ON GETTING
4 A WORKSHOP TOGETHER SOMETIME IN THE FIRST QUARTER OF
5 NEXT YEAR. IT WILL INCLUDE STAKEHOLDERS FROM
6 VARIOUS GROUPS, INCLUDING ONE OF THE GROUPS YOU
7 MENTIONED, YSABEL, WHO'S ON OUR RADAR. AND THE
8 TOPICS WE WOULD COVER WOULD BE REACH, HOW TO EXPAND
9 OUR CLINICAL CARE CAPACITY BEYOND EXISTING SPECIALTY
10 CENTERS, INCLUDING PATIENT EDUCATION AND NAVIGATION,
11 CLINICAL RESEARCH OPERATIONS, INCLUDING RECRUITMENT,
12 TREATMENT, FOLLOW-UP, WORKFORCE EXPANSION AND
13 DEVELOPMENT. I KNOW THAT WE'VE HEARD THAT A LOT
14 TODAY AND HOW IMPORTANT THAT IS. AND THEN
15 ESPECIALLY ENGAGEMENT AND OUTREACH. WHAT IS
16 REGENERATIVE MEDICINE? HOW CAN IT HELP MY COMMUNITY
17 OR DISEASE? WHY SHOULD I PARTICIPATE IN CLINICAL
18 RESEARCH? AND REALLY HOW EFFECTIVE HAVE ENGAGEMENT
19 AND OUTREACH EFFORTS BEEN IN SUPPORTING TRUST,
20 COMFORT, AND AWARENESS? SO THAT WILL BE A WORKSHOP
21 THAT WE PUT TOGETHER, AND IT WILL BE REPRESENTATIVES
22 FROM ALL DIFFERENT ORGANIZATIONS. SO DEFINITELY BE
23 ON THE LOOKOUT FOR THAT.

24 CHRIS, YOU HAVE YOUR HAND RAISED.

25 DR. MIASKOWSKI: I WOULD LIKE TO SUPPORT

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1 YSABEL 'S COMMENTS AS WELL AS YOURS, MARIA. I THINK
2 TO MAKE THE COMMUNITY CARE CENTER INITIATIVE, WHICH
3 I THINK IS EXCEEDINGLY IMPORTANT, SUCCESSFUL, WE'RE
4 GOING TO HAVE TO BE ABLE TO EDUCATE PRIMARY CARE
5 PHYSICIANS AS WELL AS NURSE PRACTITIONERS. THEY'RE
6 REALLY THE TOUCHPOINT IN THE COMMUNITY AND ARE GOING
7 TO BE INCREDIBLY IMPORTANT TO THE SUCCESS OF THIS
8 EFFORT BECAUSE THEY'RE THE INTERFACE WITH THE
9 PATIENTS THAT WE'RE GOING TO WANT TO RECRUIT TO
10 THESE TRIALS.

11 I GUESS THE OTHER THING I'VE THOUGHT
12 ABOUT, AND IT MAY NOT BE TOTALLY APPROPRIATE FOR
13 THIS STRATEGIC GOAL, BUT IN TERMS OF LAUNCHING THESE
14 CLINICAL TRIALS WITHIN A NETWORK, PARTICULARLY
15 WITHIN THE COMMUNITY CARE CENTERS, I'D BE INTERESTED
16 IN KNOWING IF THERE'S BEEN ANY DISCUSSION ABOUT
17 COMMON DATA ELEMENTS ACROSS CLINICAL TRIALS. THAT
18 CERTAINLY IS THE WAY THE NIH IS GOING FOR A LOT OF
19 THEIR TRIALS. AND I THINK IF WE HAD -- I'M NOT SURE
20 EXACTLY WHAT THEY ARE. I DO THINK IF WE HAD A
21 COMMON SET OF DATA ELEMENTS, WE'D BE ABLE TO GROW
22 THE SCIENCE ACROSS THESE TYPES OF THERAPIES. SO I
23 DON'T KNOW IF THERE'S BEEN ANY CONSIDERATION OF
24 THAT.

25 I ALSO WAS REALLY PLEASED, MARIA, WHEN YOU

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1 BROUGHT UP THE NOTION OF PATIENT EDUCATION. I THINK
2 THAT'S GOING TO BE A LINCHPIN IN THIS. WE CERTAINLY
3 KNOW ABOUT THE CHALLENGES WHEN WE WERE TALKING ABOUT
4 SEQUENCING THE HUMAN GENOME AND WHO WAS GOING TO
5 GIVE THEIR BLOOD TO ALLOW THAT TO HAPPEN, SO A LOT
6 OF RETICENCE ON THE PART OF INDIVIDUALS TO DO THAT.
7 SO I THINK CAREFULLY CRAFTING THE MESSAGES TO
8 PATIENTS AND FAMILY MEMBERS IS GOING TO BE REALLY,
9 REALLY, REALLY IMPORTANT. THANK YOU.

10 MS. BONNEVILLE: THANK YOU. ABSOLUTELY
11 AGREE.

12 DR. MILLAN: THANK YOU, DR. MIASKOWSKI.
13 JUST A COMMENT ON THE COMMON DATA ELEMENTS TOPIC.
14 ONE OF THE -- ONCE THE COMMUNITY CARE CENTERS OF
15 EXCELLENCE NETWORK ALSO GETS UP ALONG WITH OUR
16 ACADEMIC NETWORKS, I THINK IT WILL PROVIDE US THE
17 OPPORTUNITY TO DO DIFFERENT TYPES OF RESEARCH
18 RELATED TO REAL-WORLD EVIDENCE, PATIENT-CENTERED
19 OUTCOMES, AND THINGS LIKE THAT THAT COULD LAYER ON
20 TOP OF OUR -- AND SOCIAL DETERMINANTS OF HEALTH,
21 OTHER TYPES OF RESEARCH THAT WE CAN'T READILY DO
22 SOMETIMES IN JUST PURELY ACADEMIC SETTINGS. SO IN
23 TERMS OF TAKING IT OUT TO THE REAL WORLD, THIS WILL,
24 AGAIN, LAY A FOUNDATION FOR FUTURE OPPORTUNITIES IN
25 THAT REGARD.

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1 DR. MIASKOWSKI: THANKS, MARIA. I
2 APPRECIATE THAT.

3 MS. DURON: ME AGAIN.

4 MS. BONNEVILLE: FRED NEXT AND THEN
5 YSABEL.

6 DR. FISHER: SO I'M JUST CATCHING UP, AND
7 A LOT OF THIS SOUNDS TERRIFIC. THE FIRST BULLET
8 POINT THERE WHERE IT SAYS "ADVANCE MORE THERAPIES TO
9 FDA MARKETING APPROVAL," I KNOW THAT IN THE
10 NEURODEGENERATIVE DISEASE SPACE, THE FAILURE RATE
11 FOR CLINICAL TRIALS IS EXCEEDINGLY HIGH. AND
12 GETTING TO FDA MARKETING APPROVAL MEANS GETTING
13 TO -- MEETING ENDPOINTS OF CLINICAL TRIALS WHICH HAS
14 BEEN ENORMOUSLY CHALLENGING. AND I'M CURIOUS ABOUT
15 THE RELATIONSHIP OF CIRM AS A GOVERNMENT-FUNDED
16 ENTITY DRIVING MONEY INTO THE DEVELOPMENT OF
17 TREATMENTS AND THE FDA AS A GOVERNMENT-FUNDED ENTITY
18 DESIGNED TO REVIEW THE DATA AND APPROVE OR REJECT
19 THOSE THERAPEUTIC CANDIDATES. IF THERE'S SOMETHING
20 BURIED IN THERE THAT HAS TO DO WITH CIRM'S ROLE IN
21 WORKING COLLABORATIVELY OR INTENTIONALLY WITH THE
22 FDA BECAUSE OF THE KEY ROLE THAT THE FDA PLAYS IN
23 WHETHER OR NOT ANY OF THESE THERAPIES ACTUALLY MAKE
24 IT INTO PATIENTS OUTSIDE OF A CLINICAL TRIAL.

25 SO I'M JUST -- WE KNOW THAT FDA MARKETING

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1 APPROVAL IS ESSENTIAL. I'M WONDERING HOW THE FDA'S
2 ENGAGED BY CIRM THROUGH THESE VARIOUS INITIATIVES,
3 IF AT ALL.

4 DR. MILLAN: THANK YOU FOR THAT QUESTION.
5 IT IS BURIED IN THERE, AND A LOT OF WHAT -- KIND OF
6 THE FOUNDATIONAL TYPE OF CONCEPTS THAT WE ARE
7 BRINGING FORWARD WILL ENABLE A MORE ORGANIZED
8 APPROACH MAYBE TO PORTFOLIO TYPE APPROACH WITH THE
9 FDA AND WHEN WE HAVE OUR CONVERSATIONS.

10 THERE IS INTEREST AND PRINCIPLE ON THIS.
11 WE'VE HAD MANY INTERACTIONS WITH PETER MARKS AND
12 OTHER MEMBERS WHO WERE FORMER FDA COMMISSIONERS, AND
13 THERE'S AN UNDERSTANDING OF CIRM AND REAL SUPPORT
14 FOR WHAT WE ARE ABOUT, WHICH IS EVIDENCE GENERATION.
15 AND SO ANY WAY THAT WE CAN HAVE AN ORGANIZED WAY OF
16 GETTING EVIDENCE GENERATION TYPES OF STANDARDS AND
17 WHAT EMPOWERS A PORTFOLIO APPROACH BECAUSE YOU HAVE
18 A BASELINE AND A COMFORT LEVEL WITH WHAT YOU'RE
19 BRINGING FORWARD SO THAT THEY CAN EVALUATE WHAT YOU
20 NEED FOR THAT PARTICULAR TRIAL. SO THAT IS
21 SOMETHING THAT IS GOING ON. ABLA CREASEY, WHO IS
22 THE VP OF THERAPEUTIC, AND I HAVE BEEN KIND OF ON AN
23 INDIVIDUAL BASIS VERY MUCH IN TOUCH WITH VARIOUS
24 LEADERSHIP AT THE FDA REGARDING TOPICS, BROAD
25 TOPICS, NOT SPECIFICALLY ABOUT TRIALS. THAT

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1 WOULDNT BE APPROPRIATE FOR US TO BE ADVOCATING FOR
2 CERTAIN APPROVALS OBVIOUSLY. BUT IN TERMS OF THE
3 APPROACH SO THAT WE CAN HAVE THE STANDARDS IN TERMS
4 OF DATASETS, THE FORMAT, JUST A BETTER WAY TO
5 PRESENT THE OPPORTUNITIES TO FDA, A BETTER WAY TO
6 DESIGN APPROACHES ALONG WITH OUR GRANTEEES EARLY ON.

7 OUR TEAM ALREADY WORK WITH OUR GRANTEEES
8 EARLY IN TERMS OF DESIGNING THEIR APPROACH EVEN
9 BEFORE THEY COME IN FOR THEIR APPLICATION SOMETIMES.
10 SO MORE AND MORE IN TERMS OF THAT KIND OF
11 PARTNERSHIP FROM THE BEGINNING ALONG WITH OUR
12 ADVISORY PANEL IS WHAT WE ENVISION IN THAT FIRST
13 GOAL.

14 SO IT IS EMBEDDED IN THERE. AND THERE'S
15 GOING TO BE A CHANGE OF LEADERSHIP SOON AT THE FDA.
16 WE ARE VERY ENCOURAGED BY WHERE THE TRENDS ARE GOING
17 BECAUSE WE HAVE HAD A LOT OF CONVERSATIONS, A LOT OF
18 INTERACTION, AND A LOT OF SUPPORT FROM LEADERSHIP AT
19 THE FDA. THEY UNDERSTAND WHAT CIRM IS ABOUT AND
20 THAT WE ARE VERY MUCH ALIGNED WITH THEIR GOALS.

21 FDA IS A DATA-DRIVEN ORGANIZATION, AND
22 CIRM BUILDING THAT DATA CAPACITY AND ABILITY TO
23 PRESENT OUR PROGRAMS IN A DATA DRIVEN WAY IS A VERY
24 COMPATIBLE AND EMPOWERING APPROACH TO THIS PATH
25 TOGETHER.

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1 DR. FISHER: THAT SOUNDS TERRIFIC, AND IT
2 SOUNDS VERY PROACTIVE, AND IT SOUNDS LIKE AN ANSWER
3 THAT MANY IN THE PATIENT COMMUNITY WOULD APPRECIATE
4 HEARING BECAUSE THE FDA IS OFTEN PORTRAYED
5 INACCURATELY, I THINK, AS THE ENEMY IN THIS PROCESS,
6 PARTICULARLY WITH REALLY TOUGH DISEASES WHERE IT'S
7 BEEN VERY DIFFICULT TO HAVE DATA ACTUALLY
8 DEMONSTRATE EFFICACY. SO I DON'T KNOW IF YOU WANT
9 TO CONSIDER ADDING SOME WORDS. I DON'T HAVE ANY IN
10 PARTICULAR TO SUGGEST. BUT WHEN YOU THINK ABOUT
11 CIRM'S ROLE IN WORKING COLLABORATIVELY WITH THE FDA
12 TO REDUCE BARRIERS OR ACCELERATE THE PROCESS, MAYBE
13 YOU JUST WANT TO THINK ABOUT IT SORT OF FROM THE
14 PUBLIC CONSUMPTION SIDE WHO DON'T NECESSARILY
15 UNDERSTAND EVERYTHING THAT'S GOING ON BEHIND THE
16 SCENES. AND IN THIS INSTANCE IT WOULD BE REALLY
17 NICE TO SEE CIRM AS A STRONG ADVOCATE AND PARTNER
18 WITH THE FDA TO MOVE THERAPIES, CORRECT THERAPIES,
19 THERAPIES THAT ACTUALLY WORK, MOVE THEM QUICKLY TO
20 APPROVAL.

21 DR. MILLAN: ABSOLUTELY. IN THE BEGINNING
22 OF THE -- DURING THE BACKGROUND I DID HIGHLIGHT THAT
23 CIRM PORTFOLIO PROGRAMS ARE AMONG THE LARGEST
24 CONSTITUENTS OF THE EXPEDITED PATHWAY DESIGNATION
25 WHICH BUILT INTO THAT IS CONTINUOUS AND CLOSE

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1 CONVERSATIONS WITH THE FDA AS THE DEVELOPMENT PLANS
2 ARE BEING BROUGHT FORWARD.

3 IN TERMS OF A FORMAL MOU WITH THE FDA, WE
4 DON'T HAVE THAT YET. BUT CERTAINLY IN TERMS OF HOW
5 WE DO THINGS AND HOW WE CONDUCT OURSELVES AND HOW WE
6 PRACTICE, WE DEFINITELY DO WORK COLLABORATIVELY AND
7 WITH ALIGNMENT WITH THE FDA. IN FACT, OUR FUNDING,
8 OUR APPLICATIONS FOR OUR CLINICAL PROGRAMS
9 THEMSELVES ALIGN WITH FDA REQUIREMENTS, AND THEY'RE
10 BUILT INTO THE APPLICATION. SO THAT IS -- BY DESIGN
11 IT REALLY BUILDS IN KIND OF THIS EFFICIENCY AND
12 ALIGNMENT. THANK YOU.

13 MS. BONNEVILLE: YSABEL.

14 MS. DURON: THANK YOU. I APPRECIATED
15 CHRISTINE'S COMMENTS, AND THEY MADE SOME THOUGHTS
16 COME UP FOR ME.

17 SOME OF THE WORK I'VE BEEN DOING IN THE
18 LAST YEAR HAS BEEN A LOT ABOUT COMMUNICATION BACK
19 AND FORTH AND HOW PEOPLE ARE HEARING THINGS AND ALSO
20 LOOKING AT SOME LITERATURE REVIEW. AND WHAT I
21 RECOGNIZED OVER TIME IS THAT THE COMMUNITY IS NOT
22 RESISTANT. THEY ARE UNINFORMED. ONCE YOU BRING
23 THEM TO THE PROPER KNOWLEDGE, THEY DO MAKE INFORMED
24 DECISIONS.

25 TAKE THE SAN FRANCISCO MISSION DISTRICT,

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1 FOR INSTANCE, OR LATINOS IN SAN FRANCISCO WHERE
2 COVID RAN THROUGH THEM LIKE -- HAMMERED THEM WITH
3 HIGH BOTH INFECTION AS WELL AS MORTALITY RATES. AND
4 A LARGE SWATH OF COMMUNITY AND COMMUNITY HEALTH TASK
5 FORCES GOT INVOLVED IN ENGAGING THEM AND TESTING AS
6 WELL AS VACCINATION. AND TODAY 83 PERCENT OF THE
7 LATINO POPULATION OF SAN FRANCISCO IS VACCINATED,
8 ONE OR TWO VACCINATIONS, AND MOST OF THEM TWICE. SO
9 IT ISN'T RELUCTANCE OR RESISTANCE. IT IS KNOWLEDGE
10 AND AWARENESS AND ACCEPTANCE.

11 I THINK WHERE WE'RE SEEING THE RESISTANCE
12 IS IN THE SYSTEM AND AMONGST CLINICIANS WHO ARE NOT
13 TAKING THE APPROPRIATE TIME TO BE ABLE TO SPEAK TO
14 THEIR PATIENTS AND SYSTEMS WHO ARE NOT INVESTING IN
15 OUTREACH THAT'S NECESSARY TO MAKE SURE THAT, IN
16 FACT, COMMUNITIES UNDERSTAND WHAT THEY DO AND WHY
17 THEY DO IT TO GET THAT INFORMED PARTNERSHIP THAT IS
18 VERY NECESSARY AND WHICH WILL BE VERY NECESSARY HERE
19 AS WELL FOR COMMUNITY TO UNDERSTAND THE COMPLEXITY
20 OF THE WORK THAT WE ARE DOING.

21 I'M STILL ON THE LEARNING CURVE MYSELF.
22 SO I THINK THAT I'M VERY GLAD TO KNOW THAT CIRM IS
23 ALSO INVESTING IN STRONGER COMMUNICATION AND
24 OUTREACH. AND MARIA B. CAN PROBABLY TALK TO THAT
25 MORE AS WE GO ALONG BECAUSE COMMUNICATION OUT IS

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1 JUST AS IMPORTANT AS COMMUNICATION WITHIN. I'M
2 REALLY GLAD THAT WE'RE GOING THERE, AND I APPRECIATE
3 HEARING OVER TIME FROM EACH OF THE BOARD MEMBERS
4 HERE TODAY THAT THEY REALLY, REALLY, REALLY NOT ONLY
5 ARE GETTING, BUT SUPPORTING THE WHOLE ASPECT OF DEI.
6 WE WILL NOT GET THERE UNLESS WE PUT IT OUT THERE
7 FRONT AND CENTER. SO I APPRECIATE ALL THE SUPPORT
8 FOR THAT HERE ON THIS BOARD. THANK YOU.

9 DR. MILLAN: THANK YOU, YSABEL. ONE THING
10 ABOUT WHAT YOU JUST BROUGHT UP, AND I THINK
11 CHRISTINE, DR. MIASKOWSKI, HAD BROUGHT UP AS WELL,
12 IS EDUCATING THE PHYSICIANS, THE NURSE
13 PRACTITIONERS, THE FIRST CONTACTS WITH THE
14 COMMUNITY, THAT'S NOT A SMALL UNDERTAKING. THAT IS
15 GOING TO BE ESSENTIAL. AND THAT'S WHY IN THAT
16 WORKSHOP THAT MARIA IS TALKING ABOUT, THE ACTUAL
17 HEALTHCARE WORKERS THEY CALL, THOSE WILL BE THERE AS
18 WELL BECAUSE THEY ARE NOT UP TO SPEED. FRANKLY,
19 THERE ARE MANY PEOPLE IN THE ACADEMIC MEDICAL
20 CENTERS WHO ARE NOT AS AWARE OF THE PROGRESS IN
21 REGENERATIVE MEDICINE. SO THAT'S NOT UNEXPECTED.

22 SO I THINK THAT IS SUCH AN IMPORTANT POINT
23 TO UNDERSCORE, AND THAT IS SOMETHING THAT WE
24 DEFINITELY, IN TERMS OF THINKING ABOUT COMMUNITY
25 CARE CENTERS OF EXCELLENCE AS AN ACCESS FOR BEING

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1 ABLE TO IMPACT ON THIS, THIS IS SOMETHING WE
2 DEFINITELY NEED TO BUILD INTO IT.

3 MS. BONNEVILLE: J.T.

4 CHAIRMAN THOMAS: YSABEL, THANK YOU FOR
5 YOUR COMMENTS ON COMMUNICATION AND FOR BEING THE
6 CHAIRPERSON OF THE COMMUNICATION SUBCOMMITTEE. YOU
7 WILL HAVE A LOT TO SAY ABOUT HOW THAT PLAYS OUT, AND
8 IT'S A MOST IMPORTANT ROLE TO BE SURE.

9 MARIA MILLAN, HAVE A QUICK LOGISTICAL
10 QUESTION JUST FOR THE BENEFIT OF THE BOARD AND FOR
11 THE INSTITUTIONS AROUND THE STATE AT LARGE AND
12 FACTORING IN THIS WORKSHOP YOU'RE GOING TO HAVE.
13 WHERE DO YOU CURRENTLY ENVISION -- WHAT'S THE
14 TIMING FOR THE NEXT FUNDING ROUND FOR THE ALPHA
15 CLINICS? AND THEN WHEN DO YOU PLAN ON A FUNDING
16 ROUND FOR THE FIRST COMMUNITY CARE CENTERS?

17 DR. MILLAN: IN TERMS OF THE ALPHA CLINICS
18 EXPANSION, WE ARE TARGETING TO HAVE THAT BE, IF THE
19 BOARD APPROVES THE STRATEGIC PLAN IN DECEMBER, THAT
20 THAT WOULD BE PART OF THE FIRST CROP OF PROGRAMS
21 LAUNCHING THE NEW STRATEGIC PLAN. SO A CONCEPT
22 PROPOSAL WILL BE BROUGHT TO THE BOARD SOMETIME EARLY
23 NEXT YEAR AND THEN THE DOWNSTREAM ACTIVITIES TOWARD
24 FUNDING.

25 COMMUNITY CARE CENTERS OF EXCELLENCE NEEDS

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1 MORE TIME TO INCUBATE AND MATURE AND REALLY
2 UNDERSTAND WHAT'S NEEDED THERE. SO NEXT YEAR WILL
3 BE AN INTELLIGENCE GATHERING, ACTIVE ENGAGEMENT. I
4 THINK THAT REQUIRES A LOT OF THOUGHT BECAUSE WE WANT
5 TO MAKE SURE THAT THIS IS NOT AN ARTIFICIALLY OR
6 FORCED DESIGN TYPE ACTIVITY HERE, THAT IT'S
7 RATIONALLY DESIGNED AND RESPONSIVE TO THE NEEDS OF
8 THE COMMUNITY, THE PATIENTS, THE COMMUNITY ITSELF,
9 AS WELL AS THE COMMUNITY PHYSICIANS AND HEALTHCARE
10 PROVIDERS. SO I DON'T EXPECT THAT THAT WILL BE
11 SOMETHING THAT WILL BE READY NEXT YEAR FOR AN ACTUAL
12 PROGRAM ANNOUNCEMENT OR FUNDING, WHICH I THINK IT IS
13 ACTUALLY GOING TO WORK OUT WELL IN TERMS OF HOW
14 OTHER THINGS ARE BEING ROLLED OUT SO THAT WE MAKE
15 SURE THE ALPHA CLINICS CONTINUE TO EXPAND, LAY DOWN
16 FOUNDATIONS BECAUSE WE EXPECT THE ALPHA CLINICS WILL
17 ALSO PROVIDE VALUE TO THE CREATION OF THESE
18 COMMUNITY CARE CENTERS OF EXCELLENCE. ALTHOUGH THEY
19 WON'T DICTATE WHAT THE COMMUNITY CARE CENTERS OF
20 EXCELLENCE DO, THAT THEY SHOULD BE ENABLING TO THE
21 FORMATION OF THE COMMUNITY CARE CENTERS OF
22 EXCELLENCE.

23 CHAIRMAN THOMAS: THANK YOU.

24 MS. BONNEVILLE: THERE AREN'T ANY MORE
25 QUESTIONS, MARIA, ON THIS SECTION.

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1 DR. MILLAN: ALL RIGHT. GREAT. SHYAM,
2 NEXT SLIDE PLEASE.

3 CHAIRMAN THOMAS: MARIA, JUST KEEPING AN
4 EYE, KEITH HAD ASKED EARLIER ABOUT A BIT OF BREAK TO
5 GET LUNCH. HOW MUCH MORE DO YOU HAVE FOR THE BOARD
6 AT THIS POINT?

7 DR. MILLAN: I PROBABLY HAVE THREE MORE
8 MINUTES OF PRESENTATION AND THEN WHATEVER
9 DISCUSSION. SO I THINK WE'LL BE GOOD FOR A BREAK IN
10 THE NEXT TEN MINUTES OR SO.

11 CHAIRMAN THOMAS: THANK YOU.

12 DR. MILLAN: HOWEVER LONG THE BOARD WANTS
13 TO GO.

14 CHAIRMAN THOMAS: SURE.

15 DR. MILLAN: ALL RIGHT. STRATEGIC THEME
16 THREE, PROVIDE OPPORTUNITY FOR ALL. WHAT DO WE MEAN
17 BY THAT, AN OPPORTUNITY FOR ALL? IN THE MISSION
18 STATEMENT WE TALKED ABOUT OPPORTUNITY FOR ALL IN
19 TERMS OF ACCESS TO EDUCATION AND CAREER PATHS, TO
20 CLINICAL TRIALS, AND GROUP THERAPIES FOR ALL
21 PATIENTS AND FROM ALL COMMUNITIES, FOR SCIENTISTS OF
22 DIVERSE BACKGROUNDS, ALL SCIENTISTS TO BE ABLE TO
23 ACCESS FUNDING TO CARRY ON THEIR IMPORTANT WORK.

24 SO THE REGENERATIVE MEDICINE FIELD, AGAIN
25 THIS A COMMON THEME, IS ADVANCING AND MATURING

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1 RAPIDLY. AND SO CIRM CAN HAVE A FOCUSED AND
2 DELIBERATE ACTION OR ACTIONS TO ENSURE DIVERSE
3 WORKFORCE AND PATIENT PARTICIPATION IN DISCOVERY
4 DEVELOPMENT AND DELIVERY OF THERAPIES. THIS IMPLIES
5 IN A PARTNERSHIP TOGETHER WITH UNDERSTANDING WITH
6 KIND OF BREAKING THE BARRIERS TO COMMUNICATION SO
7 THAT TOGETHER THIS CAN OCCUR.

8 THERE'S BROAD STAKEHOLDER INPUT AND
9 SUPPORT OF CIRM CONTINUING TO FUND EDUCATION AND
10 TRAINING PROGRAMS THAT BUILD A DIVERSE, HIGHLY
11 SKILLED REGENERATIVE MEDICINE WORKFORCE IN THE
12 VARIOUS SPECIALTIES AND FIELDS. AND THE SECOND
13 PART, WHICH IS THE SHORTEST PART OF THIS WHOLE
14 THING, BUT A VERY PROMINENT PART OF CIRM AND PROP
15 14, IS DEVELOP A STRATEGY TO ADDRESS ACCESS AND
16 AFFORDABILITY FOR ALL PATIENTS. NEXT SLIDE.

17 EDUCATION. CIRM, ONE OF THE FIRST
18 PROGRAMS CIRM RELAUNCHED ONCE PROP 14 WAS FUNDED
19 WERE OUR EDUCATION PROGRAMS. WE HAVE ACTIVE
20 EDUCATION PROGRAMS, THE SPARK PROGRAM FOR THE HIGH
21 SCHOOL STUDENTS, BRIDGES PROGRAM FOR UNDERGRADUATE
22 AND MASTER'S LEVEL, CIRM SCHOLAR FOR PH.D., FOR POST
23 DOCS. AND THERE'S AN UNDERGRADUATE EDUCATION
24 PROGRAM THAT'S UNDER DEVELOPMENT AND YOU WILL SEE
25 EARLY NEXT YEAR AS WELL AS THE ALPHA CLINICS. THE

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1 MOST RECENT CROP OF ALPHA CLINICS AWARDS PROVIDED
2 FOR FELLOWSHIPS WITHIN THE ALPHA CLINICS. AND YOU
3 MAY HAVE SEEN SOME VIDEOS FROM TRAINEES IN THOSE
4 ALPHA CLINICS.

5 SO WE'VE CREATED, THEREFORE, MULTIPLE
6 ONRAMPS TO DEVELOP THE NEXT GENERATION OF LEADERS,
7 SCIENTISTS, CLINICIANS, AND FUTURE WORKFORCE WITH
8 TRAINING OPPORTUNITIES ACROSS CIRM-FUNDED PROGRAMS,
9 LEVERAGING THESE PROGRAMS TO GET EXPOSURE AND
10 EXPERIENCE IN BASIC, TRANSLATIONAL, AND CLINICAL
11 RESEARCH, MANUFACTURING SCIENCES, SCIENCE
12 COMMUNICATION, AND COMMUNITY ENGAGEMENT. THIS IS AN
13 AMAZING STARTING POINT TO ACCOMPLISH A LOT OF THE
14 THINGS THAT WERE DISCUSSED EARLIER ON IN THIS
15 MEETING AND THE VARIOUS CAPACITIES. SO WE HAVE, I
16 THINK, ALREADY LAID DOWN THE STRUCTURE FOR THIS AND
17 WILL CONTINUE TO BUILD ON THIS. NEXT SLIDE PLEASE.

18 SO THIS IS THE SLIDE THAT TALKS ABOUT TWO
19 TANGIBLE FIVE-YEAR STRATEGIC GOALS. THE FIRST, TO
20 BUILD A DIVERSE AND HIGHLY SKILLED WORKFORCE VIA OUR
21 EDUCATION PROGRAMS, TRACKING THE OUTCOME OF THOSE
22 PROGRAMS, LEARNING FROM THAT, AND DETERMINING HOW TO
23 IMPROVE UPON THAT.

24 SECOND IS TO DELIVER A ROADMAP FOR ACCESS
25 AND AFFORDABILITY UNDER THE GUIDANCE AND PRIORITY

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1 SET FORTH BY THE AAWG, AS YOU HEARD MENTIONED IN THE
2 BEGINNING OF THIS MEETING. AND SO THAT WAS MY TWO
3 MINUTES. IT'S OPEN FOR DISCUSSION.

4 MS. BONNEVILLE: YSABEL, YOU'RE ON MUTE.

5 MS. DURON: I UNMUTED MYSELF, BUT NOT WELL
6 ENOUGH.

7 MARIA, I THINK AND I WAS GOING TO POINT TO
8 IT AND THEN THE NEXT SLIDE CAME UP AND YOU SAID
9 EDUCATION. I THINK THAT THERE SHOULD BE ON THE
10 SLIDE THAT WAS BEFORE THIS, BECAUSE I THINK IT'S
11 REALLY CRUCIAL, BUILDING A PATHWAY TO UNDERSTANDING
12 FOR ALL CALIFORNIANS OR AS MANY AS WE CAN REACH IS
13 REALLY ABOUT MAKING SURE THAT WE ARE TRYING TO DO
14 EDUCATION AND OUTREACH THROUGH OTHER PATIENT
15 ADVOCACY GROUPS AND BROADEN THAT OUTREACH SO THAT
16 YOU MAY NOT BE A PATIENT AT ANY ONE POINT IN TIME OR
17 IN A PATIENT ADVOCACY GROUP IN AND OF ITSELF, BUT
18 YOU'RE NOT ALSO GOING TO SAY WHAT THE HECK ARE STEM
19 CELLS. I THINK WE NEED TO BUILD KNOWLEDGE JUST
20 ABOUT THE WORK THAT IS BEING DONE TO RAISE INTEREST
21 IN IT, TO HAVE A SENSE OF WHAT IT IS.

22 AND SO BETWEEN EDUCATING A WORKFORCE AND
23 GETTING OUR YOUNG INVESTIGATORS MOVING THROUGH
24 SYSTEMS, HIGH SCHOOL, COLLEGE, ET CETERA, WE NEED TO
25 START JUST IN GENERAL TRYING TO FIND PATHWAYS OF

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1 COMMUNICATION TO THE GENERAL PUBLIC. AND SO I WOULD
2 LIKE IF YOU PUT IN EITHER HERE OR IN THE ONE BEFORE
3 SOMETHING THAT SAYS EDUCATE THE PUBLIC. I KNOW
4 THAT'S A BIG LIFT, BUT I'M SAYING LET'S REMIND
5 OURSELVES THAT WE ARE NOT ALSO JUST PUSHING OUT TO
6 THESE SPECIFIC GROUPS OF PEOPLE, BUT WE WANT TO TRY
7 TO GET SOME GENERAL KNOWLEDGE OUT THERE SO THAT EVEN
8 WHEN REPORTERS TRY TO DO AN ARTICLE, THEY HAVE A
9 BIGGER SENSE OF WHAT WE ARE TALKING ABOUT AND ARE
10 BETTER ABLE TO COMMUNICATE OUT BACK TO THE PUBLIC
11 WHAT THE HECK PEOPLE INVESTED \$5 BILLION IN.

12 DR. MILLAN: THANK YOU SO MUCH FOR THAT.
13 ONE OF THE THINGS THAT ALWAYS STRIKES ME WHEN GOING
14 OUT IN THE -- WHEN WE WERE ABLE TO GO TO MEETINGS
15 AND EVERYTHING ELSE ARE THESE AMAZING STUDENTS OR
16 PEOPLE EVEN LATER ON WHO COME UP TO ME AND TALK
17 ABOUT HOW THEY SPENT TIME IN THE VARIOUS PROGRAMS.
18 THERE ARE SO MANY, OVER 3,000 WHEN YOU THINK ABOUT
19 IT, THEY ARE OUR AMBASSADORS. THEY ARE THE ONES OUT
20 THERE COMMUNICATING TO THE PUBLIC IN WHATEVER THEY
21 END UP DOING. AND I THINK THAT, IN GENERAL, YOU AND
22 MARIA WORKING ON KIND OF THE COMMUNICATION STRATEGY,
23 I THINK THAT THAT IS SUCH AN IMPORTANT PIECE OF IT;
24 BUT IN TERMS OF BUILDING IT INTO OUR EDUCATION
25 PROGRAMS, SO REGARDLESS OF WHETHER PEOPLE GO INTO

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1 SCIENCE AND MEDICINE OR SOMETHING ELSE, THEY'RE
2 ACTUALLY INFORMED. IT WAS PART OF THE EDUCATIONAL
3 SYSTEM OR THEIR EXPOSURE AND EXPERIENCE THAT WAS
4 BUILT IN. IT IS ALREADY STARTING, AND IT'S REALLY
5 EXCITING TO SEE THAT, AND WE DO HAVE THE OPPORTUNITY
6 TO DO MORE AND ESPECIALLY WHEN THEY ARE KIND OF
7 CROSSCUTTING ACROSS THESE VARIOUS SPECIALTIES.

8 SO THE PROGRAMS THAT ARE CURRENTLY FUNDED
9 ARE BROAD EXPOSURE, BUT WE ENVISION THAT WE HAVE A
10 GREAT STARTING POINT TO START BOLTING ON VARIOUS
11 EXPOSURES AND SPECIALTIES AND EVEN IN SCIENCE
12 COMMUNICATION, FOR INSTANCE. SO THERE ALL THESE
13 DIFFERENT OFFSHOOTS FROM THIS THAT ARE GOING TO BE
14 ABLE TO ACCOMPLISH THAT WE BELIEVE. THANK YOU.

15 MS. BONNEVILLE: FRED.

16 DR. FISHER: WHEN WE TALK ABOUT INCREASING
17 ACCESS TO THERAPIES IN THE CONTEXT OF COMMUNITIES
18 FOR ALL, WE KNOW THERE ARE LOTS OF OBSTACLES THAT
19 PEOPLE HAVE TO OVERCOME TO CONNECT WITH A CLINICAL
20 TRIAL OR GET ACCESS TO A THERAPY. THE ONE I HEAR
21 THE MOST ABOUT AND THE BIGGEST SOURCE OF FRUSTRATION
22 IS REALLY CONNECTED TO THOSE PEOPLE WHO DON'T MEET
23 THE INCLUSION CRITERIA FOR A CLINICAL TRIAL, AND
24 THEY ARE UNDER THE FALSE BELIEF THAT THE RIGHT TO
25 TRY LAW THAT CALIFORNIA PASSED AND THE RIGHT TO TRY

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1 LAW FEDERALLY THAT THAT SHOULD GIVE THEM ACCESS TO
2 EXPERIMENTAL THERAPIES OUTSIDE OF CLINICAL TRIAL.
3 AND I DON'T KNOW IF DURING YOUR DELIBERATIONS WHEN
4 YOU TALKED ABOUT THIS IF ANY OF THAT WAS PART OF THE
5 CONTEXT FOR THE CONVERSATION ABOUT HOW TO DELIVER A
6 ROADMAP FOR ACCESS AS PART OF THE FIVE-YEAR
7 STRATEGIC GOALS OR IT'S REALLY FOCUSED ON A
8 DIFFERENT DIRECTION. BUT I KNOW FROM PATIENT
9 COMMUNITIES THAT I'M MOST CONNECTED TO THAT'S A HUGE
10 SOURCE OF FRUSTRATION. PART OF IT IS CERTAINLY AN
11 EDUCATION ISSUE, BUT THERE'S ALSO VERY PRACTICAL
12 ISSUES IN TERMS OF WHETHER OR NOT PEOPLE CAN
13 ACTUALLY GET -- IT'S REALLY MORE RIGHT TO ASK THAN
14 RIGHT TO TRY. AND THERE'S AN EDUCATION COMPONENT
15 THERE, BUT THERE'S A STRUCTURAL COMPONENT AS WELL,
16 AND I DON'T KNOW IF THAT WAS CONTEMPLATED AS PART OF
17 YOUR THINKING IN BUILDING OUT THE STRATEGIC GOAL IN
18 THIS SECTION.

19 DR. MILLAN: NOT YET. WE REALLY ARE
20 WAITING FOR KIND OF THE PRIORITIES AND THE STRATEGY
21 REGARDING ACCESS AND AFFORDABILITY. AND WE ARE
22 REALLY EXCITED TO HEAR ABOUT THE AAWG UPCOMING
23 MEETINGS AND ENGAGING WITH THE AAWG BECAUSE THE CIRM
24 TEAM VERY MUCH WILL SUPPORT THESE EFFORTS IN
25 BRINGING THINGS TO THE AAWG FOR CONSIDERATION.

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1 REGARDING THAT TOPIC THOUGH, THAT IS A
2 VERY KIND OF A HOT-BUTTON TOPIC IN TERMS OF ACCESS.
3 WE DO AS AN ORGANIZATION HOLD VERY CLOSE TO US THE
4 PRINCIPLES OF RESEARCH DRIVEN, APPROPRIATELY DONE
5 CLINICAL TRIALS UNDER FDA REGULATIONS. SO THAT'S
6 SOMETHING THAT TO US IS NONNEGOTIABLE.

7 HAVING SAID THAT, THERE ARE MECHANISMS FOR
8 PATIENTS TO ACCESS CLINICAL TRIALS THROUGH EXPANDED
9 ACCESS OR PREMARKETING APPROVAL. THERE ARE WAYS
10 THAT STILL CAN BE DONE ALONG WITH THE FDA. SO THAT
11 DOES EXIST AND THAT'S SOMETHING THAT HAS BEEN USED
12 EVEN WITH PROGRAMS THAT WE HAVE FUNDED. I THINK
13 PART OF BEING ON THE PATIENT SIDE OF THINGS, EITHER
14 YOU OR YOUR LOVED ONE IS GOING THROUGH THIS, IT'S
15 REALLY DIFFICULT. ALL YOU HEAR IS NO. SO WITHOUT
16 HAVING THE EXPLANATION AND THE UNDERSTANDING OF WHAT
17 PATHS ARE THERE AND WHY IS THIS AND, IN FACT,
18 ACTUALLY THERE'S A REASON BEHIND THIS. WITHOUT
19 THAT, IT'S MORE FRUSTRATING AND SOMETIMES VERY
20 PAINFUL FOR PEOPLE. SO I AGREE THAT THE EDUCATION,
21 THE ABILITY TO BE ABLE TO DELIVER THAT TYPE OF
22 INFORMATION BETTER IS SOMETHING THAT WE NEED TO WORK
23 ON REGARDING OUR TRIALS FOR SURE. SO THAT IS
24 SOMETHING THAT WE CAN WORK ON THROUGH THE COMMUNITY
25 CARE CENTERS OF EXCELLENCE, THROUGH OUR ALPHA

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1 CLINICS, AND OTHER WAYS THAT WE INTERACT WITH THE
2 PUBLIC REGARDING OUR CLINICAL RESEARCH.

3 DR. FISHER: I'M HOPEFUL AT SOME POINT
4 THAT, PARTICULARLY WHEN IT COMES TO A PHASE 3
5 CLINICAL TRIAL THAT CIRM IS CONTRIBUTING TO THAT
6 DISCUSSIONS CAN BE HAD ABOUT AN EXPANDED ACCESS
7 PROGRAM FOR THOSE WHO DON'T QUALIFY FOR THE CLINICAL
8 TRIAL BECAUSE WHILE THOSE EXIST IN THEORY AND
9 REALITY, NOT MANY COMPANIES ACTUALLY OFFER THEM.

10 DR. MILLAN: I THINK IT'S A TOPIC THAT WE
11 SHOULD DEFINITELY MAKE SURE THAT WE BRING BACK IN
12 THE FUTURE FOR THE BOARD TO CONSIDER BECAUSE WE
13 DON'T CURRENTLY JUST FUND EXPANDED ACCESS TO TRIALS
14 AS AN ENTITY. THE EXPANDED ACCESS TREATMENTS HAVE
15 BEEN PERFORMED WITHIN THE CONTEXT OF AN OVERARCHING
16 CLINICAL TRIAL. BUT THAT IS A TOPIC WE CAN DISCUSS
17 EITHER IN A SUBGROUP OR ANOTHER WAY. MARIA
18 BONNEVILLE AND I WILL MAKE SURE TO FOLLOW UP ON
19 THAT.

20 DR. FISHER: THANKS FOR CONSIDERING IT.

21 MS. BONNEVILLE: CHRIS.

22 DR. MIASKOWSKI: I'M GOING TO MAKE THESE
23 COMMENTS WITH THE CAVEAT THAT I'M NEW TO THE BOARD.
24 AND I REALLY, REALLY APPLAUD THE EDUCATIONAL
25 EFFORTS. BUT AS I REFLECT ON THEM IN THE SERIES OF

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1 MEETINGS THAT I'VE BEEN TOO, THEY SEEM TO BE
2 TARGETED TO INDIVIDUALS. SO WE'RE MAKING PROGRESS
3 IN A VARIETY OF AREAS, BUT THE UNIT OF ANALYSIS IS
4 THE INDIVIDUAL WHO RECEIVES THE TRAINING. AND AS
5 YOU WERE TALKING ABOUT THIS OPPORTUNITY FOR ALL AND
6 TALKING ABOUT EDUCATING PRIMARY CARE CLINICIANS AS
7 WELL AS SPECIALISTS, BEING AN EDUCATOR, I WANTED TO
8 ASK IF IT WAS EVER THOUGHT ABOUT THAT CALIFORNIA AND
9 OUR GROUP WOULD DEVELOP A CURRICULUM OF, QUOTE,
10 UNQUOTE, PRINCIPLES OF REGENERATIVE MEDICINE THAT
11 COULD BE INTEGRATED INTO SCHOOLS OF NURSING,
12 PHARMACY SCHOOLS, MEDICAL SCHOOLS WHERE WE REALLY
13 ARE EDUCATING THE NEXT GENERATION OF CLINICIANS.

14 AND IT WOULD SEEM TO ME THAT FROM OUR
15 INDIVIDUAL EDUCATIONAL PROGRAMS THAT WE'VE SUPPORTED
16 THERE COULD BE SOME BEST PRINCIPLES OR AREAS AND
17 CONTENT THAT COULD BE EXTRACTED TO MAKE A
18 CURRICULUM. IF WE DID IT IN CALIFORNIA, I'M SURE
19 THERE ARE EDUCATIONAL INSTITUTIONS ACROSS THE UNITED
20 STATES THAT WOULD WANT TO PICK THIS UP. SO I DON'T
21 KNOW -- I'M ASKING IT MORE OUT OF AN IDEA. IS IT
22 SOMETHING THAT'S WITHIN THE SCOPE OF CIRM TO DEVELOP
23 AND THEN TO PROMOTE?

24 DR. MILLAN: I THINK THAT'S SOMETHING THAT
25 THE BOARD -- COULD BE BROUGHT UP FOR BOARD

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1 DISCUSSION. AND I AGREE WITH YOU THAT WE DEFINITELY
2 HAVE THE MAKINGS OF IT. SO THE BRIDGES PROGRAM, THE
3 SPARK PROGRAM, IT IS ACTUALLY THE EDUCATORS WHO ARE
4 FUNDED, AND THEN THE INDIVIDUALS GET BROUGHT INTO
5 THE PROGRAM. MORE AND MORE WE ARE BUILDING MORE OF
6 KIND OF A CONSORTIUM APPROACH TO THAT AS WELL. IT'S
7 NOT YET THERE, BUT THERE HAS BEEN FEEDBACK THAT SAYS
8 THAT THERE WOULD BE VALUE TO THAT.

9 AND SO EXTRACTING FROM THAT ELEMENTS THAT
10 CAN GO INTO A CURRICULUM PACKAGE, I THINK, WOULD BE
11 VALUABLE. THE HOW-TOS IN THAT WOULD BE SOMETHING
12 THAT WE NEED TO DEVELOP ALONG WITH YOU AND THE
13 BOARD. ART WAS, I THINK, ABOUT TO SAY SOMETHING.
14 ART.

15 MR. TORRES: NO, I'M FINE. THANK YOU.

16 DR. MILLAN: SO IN ANY CASE, I THINK
17 THAT'S ANOTHER TOPIC THAT WE CAN -- AGAIN, WE HAVE
18 THE STARTING POINT FOR THIS. IN FACT, WHEN I TALKED
19 ABOUT THE ALPHA CLINICS AND FELLOWSHIPS AND
20 SUBSPECIALTY TRAINING AND NURSING BEST PRACTICES, SO
21 THE CITY OF HOPE, THEY ACTUALLY ARE MAKING REAL
22 PROGRESS TOWARD HOW TO INCORPORATE THAT INTO SOME OF
23 THE CERTIFICATION PROGRAMS. SO THEY CREATED --
24 GEOFF LOMAX CAN GIVE YOU INFORMATION. HE'S OUR
25 PROGRAM MANAGER FOR THE ALPHA CLINICS. THE CITY OF

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1 HOPE NURSING PROGRAM LED A HUGE CONFERENCE IN THIS
2 REGARD, ARE VERY MUCH CONNECTED WITH ALL THE
3 ACCREDITATION BODIES, AND ARE TRYING TO CREATE A
4 CERTIFICATION PROGRAM FOR NURSING FOR REGENERATIVE
5 MEDICINE.

6 SO THERE ARE -- I THINK THAT, YES, IN
7 PRINCIPLE THAT IS DEFINITELY SOMETHING THAT WE CAN
8 DO, WHETHER IT'S DONE IN ONE FELL SWOOP OR IF IT'S
9 DONE WITHIN THE PROGRAMS IS ANOTHER THING. SO IT'S
10 IN THE EXECUTION. BUT IN PRINCIPLE THAT IS
11 SOMETHING THAT CIRM HAS ALWAYS BEEN SUPPORTIVE OF.
12 WE WOULD DEFINITELY WELCOME YOUR EXPERTISE AND YOUR
13 INVOLVEMENT IN ALL THAT.

14 DR. MIASKOWSKI: THANK YOU VERY MUCH. I
15 APPRECIATE IT.

16 MS. BONNEVILLE: YSABEL.

17 MS. DURON: PICKING UP WHERE CHRISTINE
18 LEFT OFF, AND I APPRECIATE IT BECAUSE EDUCATION, I
19 THINK, IS ALWAYS CRUCIAL AT WHATEVER LEVEL. IN
20 FACT, MY COMMENTS EARLIER ABOUT RESISTANCE CAME
21 FROM, AS I SAID, REVIEW OF SOME RESEARCH LITERATURE.
22 AND PART OF THE RESEARCH SHOWED THAT IN FACT HALF
23 THE REASON WHY LATINAS DIDN'T GET ENOUGH INFORMATION
24 ABOUT GENETIC RISK WAS BECAUSE CLINICIANS WERE
25 RESISTANT OR UNABLE TO TALK TO THEM ABOUT IT OR

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1 DIDN'T CONSIDER TALKING TO THEM BECAUSE HALF THE
2 TIME THEY WEREN'T QUITE SURE THAT THEY WERE GOING TO
3 TELL THEM OR HOW TO TELL THEM.

4 SO TO THE POINT OF CLINICIANS NEEDING TO
5 BE INFORMED OR NURSE NAVIGATORS OR WHOMEVER, THEY
6 CREATED KIND OF A TEACHING MECHANISM. SO I KNOW
7 THERE ARE THINGS ALREADY OUT THERE THAT WE MIGHT,
8 RATHER THAN REINVENT THE WHEEL, JUST BUILD ON IT AND
9 FIND THINGS AS ARE A STARTING POINT. AND, IN FACT,
10 WHEN I GO BACK, I WILL LOOK FOR THAT AND SEND YOU
11 THE LINK FOR THAT, AND MAYBE YOU CAN TRACK THROUGH
12 TO THE TRAINING PROGRAMS. BUT I'M SURE THAT ANY
13 NUMBERS OF GROUPS HAVE CONSIDERED THIS. THE CDC HAS
14 DONE A LOT OF RESPONSIVE WORK ON COVID. SO
15 EVERYBODY IS OUT THERE DOING THINGS. AND SO, YES, I
16 THINK IT WOULD BE VERY COOL TO HAVE SOMETHING, BUT
17 MAYBE WE DON'T HAVE TO START FROM SCRATCH.

18 DR. MILLAN: THANK YOU. MARIA, ANY
19 OTHER --

20 MS. BONNEVILLE: THERE ARE NO OTHER HANDS.

21 DR. MILLAN: OKAY. NEXT SLIDE PLEASE.

22 AND HERE IT IS. THE THREE STRATEGIC
23 THEMES AND THE SEVEN STRATEGIC GOALS THAT WE BELIEVE
24 WE COULD SIGN UP FOR IN THE NEXT FIVE YEARS. I'M
25 JUST GOING TO PUT THIS UP AND NOT SAY IT AGAIN

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1 BECAUSE WE WENT THROUGH THIS VERY EXTENSIVELY, BUT
2 JUST WANTED TO OPEN IT UP FOR ANY FINAL COMMENTS,
3 QUESTIONS THAT WE HADN'T COVERED SO FAR. I'M HAPPY
4 TO READ THROUGH THEM TOO IF IT HELPS.

5 MS. BONNEVILLE: J.T. HAS HIS HAND RAISED.

6 CHAIRMAN THOMAS: SO JUST WANTED TO SAY TO
7 MARIA AND THE ENTIRE TEAM WHAT A GREAT JOB YOU'VE
8 DONE PUTTING THIS TOGETHER AND REITERATING THAT
9 LITERALLY, AS MARIA SET FORTH AT THE OUTSET, WHICH
10 YOU MAY NOT HAVE CAUGHT, THIS STARTED IN THE SPRING
11 OF 2020 IN ADVANCE OF PROP 14 PASSING AND HAS BEEN A
12 VERY LONG, EXTENSIVE PIECE OF WORK BY MANY, MANY
13 PEOPLE. SO THANK YOU FOR PUTTING ALL THIS TOGETHER
14 AND BRINGING IT TODAY.

15 SECONDLY, I WANT TO THANK THE BOARD FOR AN
16 OUTSTANDING DISCUSSION WITH GREAT PARTICIPATION THIS
17 MORNING AND REALLY BRINGING SOME VALUABLE COMMENTS
18 TO BEAR ON EACH AND EVERY ONE OF THESE VARIOUS
19 TOPICS. I THINK THIS HAS BEEN A GREAT EXAMPLE OF
20 THE COMMON WORK THAT THE TEAM AND THE BOARD DO AS
21 CIRM WRIT LARGE, AND WE WILL END UP WITH A VERY GOOD
22 FIVE-YEAR STRATEGIC PLAN TO PRESENT TO THE BOARD
23 BASED ON TODAY'S DISCUSSION, AND THEN IN DECEMBER
24 WE'LL BE OFF TO THE RACES THEREAFTER. SO JUST AN
25 OVERALL THANK YOU AND JOB WELL DONE TO EVERYBODY.

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1 DR. MILLAN: THANK YOU, J.T. STEVE
2 JUELSGAARD, I THINK, HAD HIS HAND UP, MARIA.

3 MR. JUELSGAARD: I THINK J.T. JUST
4 ANSWERED MY QUESTION. SO THIS IS GOING TO COME BACK
5 TO THE BOARD IN DECEMBER IS WHAT I HEARD.

6 CHAIRMAN THOMAS: YEAH.

7 MR. JUELSGAARD: AND INTEGRATING WHATEVER
8 COMMENTS FROM TODAY'S DISCUSSION INTO THESE GOALS AS
9 APPROPRIATE WILL HAPPEN. SO I JUST -- I JUST WANTED
10 TO BE SURE THIS IS NOT THE FINAL VERSION, BUT THIS
11 IS THE ITERATIVE VERSION. WE'VE HAD COMMENTS TODAY
12 AND SO WE'LL SEE AN UPDATED VERSION?

13 DR. MILLAN: YES, ABSOLUTELY, STEVE.
14 MARIA BONNEVILLE, DO YOU WANT TO JUST REVIEW TO THE
15 BOARD WHAT OUR PROCESS IS GOING FORWARD LEADING UP
16 TO DECEMBER?

17 MS. BONNEVILLE: SURE. THIS WILL COME
18 BACK TO THE SCIENCE SUBCOMMITTEE, I THINK IT'S,
19 NOVEMBER 29TH OR 30TH. I CAN'T REMEMBER RIGHT NOW.
20 SO THAT WILL GO TO THE SCIENCE SUBCOMMITTEE FOR A
21 PREVIEW THERE AND THEIR RECOMMENDATION, AND THEN IT
22 WILL GO TO THE FULL BOARD IN DECEMBER AT OUR
23 DECEMBER 14TH BOARD MEETING.

24 MR. JUELSGAARD: THANK YOU.

25 DR. MILLAN: THANK YOU, MARIA. AND THEN

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1 ALONG WITH THAT, FOR THE BOARD, WE WILL BE BRINGING
2 A REVISED BUDGET OR ADDITIONAL BUDGET ASK BECAUSE
3 THERE ARE NEW PROGRAMS ASSOCIATED WITH THE STRATEGIC
4 PLAN TO ADD TO THE 2021-2022 BUDGET SO THAT IT WILL
5 COVER THE JANUARY TO JUNE SPAN OF THE BUDGET YEAR
6 BECAUSE WE DO INTEND TO LAUNCH THE PLAN AS SOON AS
7 WE ATTAIN BOARD APPROVAL IN DECEMBER.

8 NEXT SLIDE PLEASE, SHYAM. I DIDN'T WANT
9 TO END BY -- BEFORE I THANKED EVERYBODY. AND IF YOU
10 LOOK AT THE LIFE HERE, YOU WILL SEE SOME FACES THAT
11 YOU RECOGNIZE. CIRM TEAM MEMBERS: MARIA BONNEVILLE
12 VERY PROMINENTLY IN THE L AND SHYAM PATEL
13 PROMINENTLY IN THE APP WHO HAVE BEEN JUST REALLY
14 INSTRUMENTAL IN HELPING ME PUT TOGETHER THIS SLIDE
15 DECK PRESENTATION ALONG WITH THE LEADERSHIP TEAM AND
16 THEIR TEAM MEMBERS. EVERYBODY HAS CONTRIBUTED TO
17 THIS. OUR PATIENT ADVOCATES, OUR PATIENTS ARE HERE
18 IN THIS BEAUTIFUL TAPESTRY. AND OUR BOARD MEMBERS,
19 OF COURSE, YOU HAVE BEEN WITH US ALL THE WAY THROUGH
20 IN DESIGNING EVERYTHING I PRESENTED TODAY. SO THIS
21 WAS ALL VERY MUCH A JOINT EFFORT BETWEEN ALL THE
22 STAKEHOLDERS, THE COMMUNITY, THE BOARD, SCIENTIFIC
23 COMMUNITY, OUR TEAM, AND OUR SCIENTISTS. THANK YOU
24 SO MUCH. WE LOOK FORWARD TO BRINGING BACK A REVISED
25 PLAN FOR CONTINUED INPUT IN NOVEMBER AND THEN A

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1 FINAL PLAN FOR YOUR APPROVAL IN DECEMBER. REALLY
2 APPRECIATE THE OPPORTUNITY TO PRESENT AND LEAD THE
3 DISCUSSION TODAY. IT WAS GREAT.

4 CHAIRMAN THOMAS: THANK YOU VERY MUCH
5 AGAIN, MARIA. MARIA B., HOW SHALL WE PROCEED HERE?
6 I PERHAPS SUGGEST TEN MINUTES TO GET LUNCH. WE WANT
7 TO DO THIS AS A WORKING LUNCH, CORRECT?

8 MS. BONNEVILLE: SURE. SO LET'S TAKE A
9 TEN-MINUTE BREAK. I WILL PAUSE THE RECORDING.
10 WE'LL COME BACK LIVE AT 12:26. WE CAN JUST SAY
11 12:30. FOURTEEN MINUTES WILL BE GENEROUS. WE'LL
12 COME BACK. WE'VE GOT A LOT OF VOTING ITEMS THIS
13 AFTERNOON. SO PLEASE DO COME BACK AFTER LUNCH.

14 CHAIRMAN THOMAS: THANK YOU, GUYS.

15 (A RECESS WAS THEN TAKEN.)

16 CHAIRMAN THOMAS: OKAY. THANK YOU.
17 EVERYBODY PLEASE FEEL FREE TO KEEP MUNCHING AS WE
18 PROCEED HERE. WE ARE ON NOW TO THE ACTION ITEM
19 PORTION OF THE AGENDA. WE HAVE A NUMBER OF ITEMS
20 OFF THE TOP COMING OUT OF OUR AUGUST GOVERNANCE
21 SUBCOMMITTEE. SO I'M GOING TO TURN THIS PORTION OF
22 THE AGENDA OVER TO JUDY TO LEAD THE DISCUSSION.

23 DR. GASSON: THANK YOU, J.T. AND WELCOME
24 BACK, EVERYONE.

25 THE GOVERNANCE SUBCOMMITTEE MET ON OCTOBER

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1 6TH AND CONSIDERED AND PASSED ALL OF THE ITEMS ON
2 THE AGENDA THAT WE WILL GO THROUGH NOW ONE BY ONE.
3 FIRST IS THE MISSION STATEMENT. YOU'VE HAD AN
4 OPPORTUNITY TO VIEW THESE DOCUMENTS.

5 THE MISSION STATEMENT HAS BEEN UPDATED TO
6 REFLECT THE ABSORPTION, IF YOU DON'T MIND, OF THE
7 EVALUATION SUBCOMMITTEE. AND SO YOU WILL ALSO NOTE
8 FOR CONSIDERATION AS PART OF THE MISSION STATEMENT
9 IS THE PROCESS FOR EVALUATION OF THE CHAIR, VICE
10 CHAIR -- PROCESS FOR THE CONSIDERATION OF THE CHAIR,
11 VICE CHAIR, PRESIDENT AND CEO. SO MAY I HAVE A
12 MOTION TO APPROVE THE MISSION STATEMENT BEFORE YOU?

13 CHAIRMAN THOMAS: SO MOVED.

14 DR. GASSON: MAY I HAVE A SECOND?

15 MR. BERNAL: SECOND.

16 MS. BONNEVILLE: WHO WAS THE SECOND? WAS
17 IT DAN?

18 MR. BERNAL: YES.

19 MS. BONNEVILLE: SO J.T. FIRST AND DAN
20 SECOND. THANK YOU SO MUCH.

21 DR. GASSON: THANK YOU VERY MUCH. AT THIS
22 TIME ARE THERE ANY QUESTIONS OR COMMENTS FROM
23 MEMBERS OF THE BOARD? IS THERE ANY PUBLIC COMMENT,
24 MARIA?

25 MS. BONNEVILLE: I DO NOT SEE ANY PUBLIC

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1 COMMENT.

2 DR. GASSON: THANK YOU, MARIA. WOULD YOU
3 CALL THE ROLL PLEASE.

4 MS. BONNEVILLE: DAN BERNAL.

5 MR. BERNAL: AYE.

6 MS. BONNEVILLE: GEORGE BLUMENTHAL. LINDA
7 BOXER. I HOPE EVERYONE IS BACK FROM LUNCH. MICHAEL
8 BOTCHAN.

9 DR. BOTCHAN: AYE.

10 MS. BONNEVILLE: ALLISON BRASHEAR.
11 LE ONDRA CLARK HARVEY.

12 DR. CLARK HARVEY: YES.

13 MS. BONNEVILLE: DEBORAH DEAS. ANNE-MARIE
14 DULIEGE.

15 DR. DULIEGE: YES.

16 MS. BONNEVILLE: YSABEL DURON.

17 MS. DURON: YES.

18 MS. BONNEVILLE: MARK FISCHER-COLBRIE.

19 DR. FISCHER-COLBRIE: AYE.

20 MS. BONNEVILLE: LEON FINE. FRED FISHER.

21 DR. FISHER: AYE.

22 MS. BONNEVILLE: ELENA FLOWERS.

23 DR. FLOWERS: YES.

24 MS. BONNEVILLE: JUDY GASSON.

25 DR. GASSON: YES.

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1 MS. BONNEVILLE: LARRY GOLDSTEIN. DAVID
2 HIGGINS.
3 DR. HIGGINS: YES.
4 MS. BONNEVILLE: STEPHEN JUELSGAARD.
5 MR. JUELSGAARD: YES.
6 MS. BONNEVILLE: RICH LAJARA. PAT LEVITT.
7 DR. LEVITT: YES.
8 MS. BONNEVILLE: LINDA MALKAS.
9 DR. MALKAS: YES.
10 MS. BONNEVILLE: DAVE MARTIN.
11 DR. MARTIN: YES.
12 MS. BONNEVILLE: CHRISTINA MIASKOWSKI.
13 DR. MIASKOWSKI: YES.
14 MS. BONNEVILLE: LAUREN MILLER-ROGEN.
15 MS. MILLER-ROGEN: YES.
16 MS. BONNEVILLE: ADRIANA PADILLA.
17 DR. PADILLA: YES.
18 MS. BONNEVILLE: AL ROWLETT.
19 MR. ROWLETT: YES.
20 MS. BONNEVILLE: MICHAEL STAMOS.
21 DR. STAMOS: YES.
22 MS. BONNEVILLE: JONATHAN THOMAS.
23 CHAIRMAN THOMAS: YES.
24 MS. BONNEVILLE: ART TORRES. KRISTINA
25 VUORI.

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1 DR. VUORI: YES.

2 MS. BONNEVILLE: KEITH YAMAMOTO. HE MAY
3 NOT BE BACK.

4 I'M FAIRLY CERTAIN WE DO NOT HAVE A QUORUM
5 FOR THAT VOTE. SO IF YOU HOLD ON FOR ONE SECOND.

6 CHAIRMAN THOMAS: MARIA, LOOKS LIKE JIM
7 KOVACH HAS HIS HAND UP. PERHAPS HE'S VOTING FOR
8 ALLISON.

9 DR. KOVACH: YES. HEY, MARIA, IT'S JIM.
10 ALLISON HAD TO STEP OUT, AND SHE HAD ASKED ME TO
11 VOTE YES IN HER ABSENCE.

12 MS. BONNEVILLE: OKAY. THANK YOU. ARE
13 YOU GOING TO BE PARTICIPATING FOR HER FOR THE REST
14 OF THE MEETING, JIM?

15 DR. KOVACH: I BELIEVE SHE'S GOING TO COME
16 BACK AT ABOUT 1 O'CLOCK. SHE HAD A ONE-HOUR
17 MEETING.

18 MS. BONNEVILLE: OKAY. THANK YOU. HOLD
19 ON FOR ONE SECOND. I THINK PEOPLE ARE JUST
20 RETURNING FROM LUNCH, WHICH IS PART OF IT. HOLD ON
21 FOR ONE SECOND.

22 (PAUSE IN PROCEEDINGS.)

23 MS. BONNEVILLE: SO I'M GOING TO TRY
24 AGAIN. DEBORAH, ARE YOU ON THE LINE?

25 LARRY --

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1 DR. GOLDSTEIN: YES.

2 MS. BONNEVILLE: -- I'M NOT SURE IF YOU
3 VOTED, I DID NOT HEAR, FOR THE MISSION STATEMENT FOR
4 THE GOVERNANCE SUBCOMMITTEE.

5 DR. GOLDSTEIN: NO. SORRY. YES, THAT'S
6 FINE.

7 MS. BONNEVILLE: OKAY. GREAT.

8 LEON FINE, ARE YOU BACK ON THE LINE? ART.

9 MR. TORRES: I HAD TO GO ON A QUICK CALL.
10 WHAT IS THE ISSUE WE ARE VOTING ON NOW?

11 MS. BONNEVILLE: IT IS THE MISSION
12 STATEMENT FOR THE GOVERNANCE SUBCOMMITTEE.

13 MR. TORRES: YES. AYE.

14 DR. DEAS: MARIA, I VOTED. DID YOU HEAR
15 ME?

16 MS. BONNEVILLE: I DID NOT. THANK YOU,
17 DEBORAH, FOR CLARIFYING.

18 DR. DEAS: YES.

19 MS. BONNEVILLE: I'M GOING TO KEEP THIS
20 OPEN, AND WE'LL GO THROUGH SOME OF THE OTHER ITEMS
21 AND COME BACK TO THOSE NOT ABLE TO VOTE FOR THIS.
22 SO, JUDY, IF YOU'D LIKE TO CONTINUE.

23 DR. GASSON: THANK YOU, MARIA.

24 OUR CURRENT CHAIR AND VICE CHAIR, J.T. AND
25 ART, WILL HAVE TERMED OUT AT THE END OF 2022. AND

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1 SO THE GOVERNANCE COMMITTEE WILL BE INITIATING A
2 PROCESS TO SEARCH FOR THEIR REPLACEMENTS, AS THOUGH
3 THAT WOULD BE POSSIBLE. BUT AS THE BEGINNING OF
4 THAT PROCESS, J.T. AND ART WILL DO A
5 SELF-EVALUATION, AND WE WILL HAVE AN OPPORTUNITY TO
6 ADDRESS THE FULL BOARD IN CLOSED SESSION IN
7 DECEMBER.

8 MAY I HAVE A MOTION TO APPROVE THE
9 SELF-EVALUATION FOR J.T. AND ART?

10 MR. ROWLETT: SO MOVED.

11 DR. HIGGINS: SECOND.

12 DR. GASSON: THANK YOU VERY MUCH. ARE
13 THERE ANY QUESTIONS OR COMMENTS FROM MEMBERS OF THE
14 BOARD AT THIS TIME? HEARING NONE, IS THERE ANY
15 PUBLIC COMMENT?

16 MS. BONNEVILLE: I DO NOT SEE ANY PUBLIC
17 COMMENT.

18 DR. GASSON: THANK YOU, MARIA. WOULD YOU
19 CALL THE ROLL?

20 MS. BONNEVILLE: DAN BERNAL.

21 MR. BERNAL: AYE.

22 MS. BONNEVILLE: GEORGE BLUMENTHAL. LINDA
23 BOXER.

24 DR. BOXER: YES.

25 MS. BONNEVILLE: MICHAEL BOTCHAN.

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1 DR. BOTCHAN: YES.
2 MS. BONNEVILLE: JIM KOVACH.
3 DR. KOVACH: YES.
4 MS. BONNEVILLE: LE ONDRA CLARK HARVEY.
5 DR. CLARK HARVEY: YES.
6 MS. BONNEVILLE: DEBORAH DEAS.
7 DR. DEAS: YES.
8 MS. BONNEVILLE: ANNE-MARIE DULIEGE.
9 DR. DULIEGE: YES.
10 MS. BONNEVILLE: YSABEL DURON.
11 MS. DURON: YES.
12 MS. BONNEVILLE: MARK FISCHER-COLBRIE.
13 DR. FISCHER-COLBRIE: AYE.
14 MS. BONNEVILLE: LEON FINE. FRED FISHER.
15 DR. FISHER: YES.
16 MS. BONNEVILLE: ELENA FLOWERS.
17 DR. FLOWERS: YES.
18 MS. BONNEVILLE: JUDY GASSON.
19 DR. GASSON: YES.
20 MS. BONNEVILLE: LARRY GOLDSTEIN.
21 DR. GOLDSTEIN: YES.
22 MS. BONNEVILLE: DAVID HIGGINS.
23 DR. HIGGINS: YES.
24 MS. BONNEVILLE: STEPHEN JUELSGAARD.
25 MR. JUELSGAARD: YES.

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1 MS. BONNEVILLE: RICH LAJARA.
2 MR. LAJARA: YES.
3 MS. BONNEVILLE: PAT LEVITT.
4 DR. LEVITT: YES.
5 MS. BONNEVILLE: LINDA MALKAS.
6 DR. MALKAS: YES.
7 MS. BONNEVILLE: DAVE MARTIN.
8 DR. MARTIN: YES.
9 MS. BONNEVILLE: CHRISTINE MIASKOWSKI.
10 DR. MIASKOWSKI: YES.
11 MS. BONNEVILLE: LAUREN MILLER-ROGEN.
12 MS. MILLER-ROGEN: YES.
13 MS. BONNEVILLE: ADRIANA PADILLA.
14 DR. PADILLA: YES.
15 MS. BONNEVILLE: AL ROWLETT.
16 MR. ROWLETT: YES.
17 MS. BONNEVILLE: MICHAEL STAMOS.
18 DR. STAMOS: YES.
19 MS. BONNEVILLE: JONATHAN THOMAS.
20 CHAIRMAN THOMAS: YES.
21 MS. BONNEVILLE: KRISTINA VUORI.
22 DR. VUORI: YES.
23 MS. BONNEVILLE: KEITH YAMAMOTO.
24 DR. YAMAMOTO: YES.
25 MS. BONNEVILLE: THE MOTION CARRIES.

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1 CAN I GO BACK TO, LINDA, I DID NOT RECORD
2 A VOTE FOR YOU FOR THE MISSIONS STATEMENT FROM THE
3 GOVERNANCE SUBCOMMITTEE.

4 DR. BOXER: YES.

5 MS. BONNEVILLE: THANK YOU SO MUCH. WE
6 GOT DEBORAH. IS LEON FINE ON THE LINE? OKAY.
7 LARRY, WE GOT YOURS. ALL RIGHT. THANK YOU.
8 JUDY.

9 DR. GASSON: THE NEXT AGENDA ITEM IS THE
10 BOARD BYLAWS, AND MARIA HAS A BRIEF SUMMARY.

11 MS. BONNEVILLE: LET ME GET THAT
12 PRESENTATION GOING.

13 DR. GASSON: THANKS, MARIA.

14 MS. BONNEVILLE: NEXT SLIDE PLEASE.

15 SO WITH THE PASSAGE OF PROP 14 CAME THE
16 NEED TO UPDATE THE FOLLOWING POLICIES: THE INTERNAL
17 GOVERNANCE POLICY, THE BOARD BYLAWS, AND THE BOARD
18 CODE OF CONDUCT. WE'LL START WITH THE BOARD BYLAWS.
19 NEXT SLIDE PLEASE.

20 AGAIN, THE BOARD BYLAWS WERE AMENDED TO
21 REFLECT CHANGES MADE BY PROP 14, INCLUDING THE
22 APPOINTMENT OF SIX NEW BOARD MEMBERS -- AS YOU WILL
23 RECALL, THE BOARD GREW IN SIZE TO 35 -- THE CREATION
24 OF THE ACCESSIBILITY AND AFFORDABILITY WORKING
25 GROUP. THE EXACT LANGUAGE FROM THE PROPOSITION

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1 DESCRIBING THE GROUP AND ITS MEMBERSHIP WAS ADDED.
2 IT REQUIRES THE BOARD REVIEW OF THE CONFLICTS
3 POLICIES EVERY FOUR YEARS. AND THEN OTHER CHANGES
4 INCLUDE IT REMOVES THE REQUIREMENT THAT BOARD
5 MEMBERS LEAVE THE ROOM IN LIGHT OF REMOTE MEETINGS,
6 ELIMINATES THE LEGISLATURE COMMITTEE. ALL
7 LEGISLATIVE ISSUES FOR CONSIDERATION WILL GO
8 DIRECTLY TO THE BOARD FOR A VOTE. AND VERY KEY HERE
9 IS IN THE MECHANISM FOR PATIENT ADVOCATE AND NURSE
10 MEMBER COMPENSATION. THE INTERNAL TEAM WILL BRING A
11 PROPOSAL FOR THIS TO THE GOVERNANCE SUBCOMMITTEE IN
12 THE NEXT COUPLE OF MONTHS.

13 ARE THERE ANY QUESTIONS ABOUT THE CHANGES
14 TO THE BOARD BYLAWS?

15 DR. GASSON: MAY I HAVE A MOTION TO
16 APPROVE THESE CHANGES?

17 MS. DURON: SO MOVED.

18 DR. DULIEGE: I SECOND.

19 DR. GASSON: THANK YOU. ARE THERE ANY
20 QUESTIONS OR COMMENTS FROM THE BOARD AT THIS TIME?
21 MARIA, ARE THERE ANY QUESTIONS OR COMMENTS FROM THE
22 PUBLIC?

23 MS. BONNEVILLE: ACTUALLY LARRY GOLDSTEIN
24 HAS A QUESTION.

25 DR. GOLDSTEIN: SO DO THESE CHANGES THAT

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1 YOU JUST SUMMARIZED, MARIA, ARE THESE WHAT DOCUMENT
2 NO. 6 COVERS THAT WAS SEND TO US BECAUSE THERE WAS
3 ANOTHER SUBSTANTIVE CHANGE IN THE LANGUAGE IN THAT
4 DOCUMENT?

5 MS. BONNEVILLE: SURE. THESE WERE JUST
6 SOME OF THE CHANGES THAT WERE MADE, BUT ABSOLUTELY
7 CAN ANSWER QUESTIONS ABOUT ANYTHING ELSE YOU MIGHT
8 NEED.

9 DR. GOLDSTEIN: OKAY. SO IN DOCUMENT
10 6(C), THERE IS THE ADDITION IN A NUMBER OF PLACES TO
11 FUND GENETIC RESEARCH. AND I WANT FOLKS TO THINK
12 ABOUT THE FACT THAT IF WE JUST SAY WE'RE GOING TO
13 FUND GENETIC RESEARCH IN GENERAL, WE'RE GOING TO SEE
14 PROPOSALS FROM ALL OVER THE SCIENTIFIC LANDSCAPE
15 THAT HAVE NOTHING TO DO WITH STEM CELLS AND
16 REGENERATIVE MEDICINE. AND SO I'D LIKE TO SUGGEST
17 THAT THAT LANGUAGE BE CHANGED TO GENETIC RESEARCH AS
18 IT PERTAINS TO THE DEVELOPMENT OR UNDERSTANDING OF
19 STEM CELLS AND REGENERATIVE MEDICINE OR SOMETHING TO
20 THAT EFFECT TO RESTRICT THE LANGUAGE SO THAT WE ARE
21 NOT GOING TO GET HIT WITH FUNDING PROPOSALS FOR
22 GENETIC ANALYSIS OF THIS OR THAT IN SOME MODEL
23 ORGANISM THAT'S WONDERFUL SCIENCE BUT DOESN'T
24 PERTAIN TO OUR MISSION TO THE PUBLIC.

25 MS. BONNEVILLE: MY UNDERSTANDING IS THAT,

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1 CORRECT ME IF I'M MISTAKEN, JAMES, THAT THAT'S THE
2 LANGUAGE THAT CAME FROM THE PROPOSITION.

3 MR. HARRISON: THAT'S CORRECT. LARRY,
4 THESE CHANGES THAT YOU SEE OUTLINED, INCLUDING THE
5 REFERENCE TO GENETIC MEDICINE, ARE SIMPLY TO BRING
6 THE BYLAWS INTO CONFORMITY WITH THE LANGUAGE OF PROP
7 14.

8 YOUR CONCERN, I THINK, WOULD PROPERLY BE
9 ADDRESSED THROUGH THE CONCEPT PLANS THAT THE CIRM
10 TEAM BRINGS TO THE BOARD WHICH PRECEDE EVERY FUNDING
11 ROUND. AND THEN THE SPECIFIC DIRECTION TO
12 APPLICANTS ON LIMITATIONS REGARDING WHAT IS ELIGIBLE
13 FOR FUNDING WOULD BE INCLUDED IN THE PROGRAM
14 ANNOUNCEMENT THAT'S DERIVED FROM WHATEVER CONCEPT
15 THE BOARD HAS APPROVED.

16 DR. GOLDSTEIN: THANK YOU, JAMES. I DO
17 UNDERSTAND THAT IT CAME FROM THE LANGUAGE OF THE
18 PROPOSITION. I GUESS MAYBE THE QUESTION I SHOULD BE
19 ASKING YOU IS IS THERE ANYTHING LEGALLY THAT KEEPS
20 US FROM RESTRICTING IN SOME WAY WHAT WAS STATED OR
21 MAKING IT MORE CONSISTENT WITH THE DIRECTION OF THIS
22 AGENCY? IT'S NOT THAT I'M SAYING WE STRIKE THE
23 LANGUAGE. I'M JUST SAYING WE MODIFY IT SLIGHTLY AS
24 I SUGGESTED.

25 MR. HARRISON: SO THE ANSWER TO YOUR

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1 QUESTION IS THAT, NO, THE BOARD HAS THE AUTHORITY TO
2 INTERPRET AND DEFINE THOSE TERMS AS THEY APPLY TO
3 WHAT THE BOARD DETERMINES IS ELIGIBLE FOR FUNDING.
4 THE BYLAWS ARE AN INTERNAL GOVERNANCE DOCUMENT
5 RATHER THAN A STATEMENT ABOUT WHAT IS ELIGIBLE FOR
6 CIRM FUNDING. STATEMENTS REGARDING ELIGIBILITY FOR
7 FUNDING ARE INCLUDED IN THE CONCEPT PLANS AND THE
8 PROGRAM ANNOUNCEMENTS. BUT OBVIOUSLY IT'S THE
9 BOARD'S DISCRETION WHETHER YOU WANT TO MODIFY THIS
10 LANGUAGE AS WELL.

11 DR. GASSON: LARRY, DID YOU FIND JAMES'
12 ANSWER TO BE SATISFACTORY, OR WOULD YOU LIKE TO
13 CONSIDER MODIFYING THE LANGUAGE?

14 DR. GOLDSTEIN: I CAN LIVE WITH JUST DOING
15 IT AT THE LEVEL OF CONCEPT PLANS AND FUNDING. I'LL
16 ADMIT TO SOME DISCOMFORT WITH THIS LANGUAGE AS IT
17 SITS. BUT IF I'M THE ONLY ONE WHO HAS A PROBLEM,
18 I'M NOT GOING TO HIJACK THIS MEETING OVER MY
19 CONCERN.

20 DR. GASSON: OKAY. THANK YOU FOR YOUR
21 COMMENT. AND THANK YOU, JAMES, FOR THE
22 CLARIFICATION. WAS THERE ANY COMMENT FROM THE
23 PUBLIC?

24 MS. BONNEVILLE: THERE WERE NOT.

25 DR. GASSON: OKAY. IN THAT CASE WOULD YOU

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1 CALL THE ROLL PLEASE.
2 MS. BONNEVILLE: DAN BERNAL.
3 MR. BERNAL: AYE.
4 MS. BONNEVILLE: GEORGE BLUMENTHAL. LINDA
5 BOXER.
6 DR. BOXER: YES.
7 MS. BONNEVILLE: MICHAEL BOTCHAN.
8 DR. BOTCHAN: YES.
9 MS. BONNEVILLE: JIM KOVACH.
10 DR. KOVACH: YES.
11 MS. BONNEVILLE: LE ONDRA CLARK HARVEY.
12 DR. CLARK HARVEY: YES.
13 MS. BONNEVILLE: DEBORAH DEAS.
14 DR. DEAS: YES.
15 MS. BONNEVILLE: ANNE-MARIE DULIEGE.
16 DR. DULIEGE: YES.
17 MS. BONNEVILLE: YSABEL DURON.
18 MS. DURON: YES.
19 MS. BONNEVILLE: MARK FISCHER-COLBRIE.
20 DR. FISCHER-COLBRIE: YES.
21 MS. BONNEVILLE: FRED FISHER.
22 DR. FISHER: YES.
23 MS. BONNEVILLE: ELENA FLOWERS.
24 DR. FLOWERS: YES.
25 MS. BONNEVILLE: JUDY GASSON.

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1 DR. GASSON: YES.
2 MS. BONNEVILLE: LARRY GOLDSTEIN.
3 DR. GOLDSTEIN: YES.
4 MS. BONNEVILLE: DAVID HIGGINS.
5 DR. HIGGINS: YES.
6 MS. BONNEVILLE: STEPHEN JUELSGAARD.
7 MR. JUELSGAARD: YES.
8 MS. BONNEVILLE: RICH LAJARA.
9 MR. LAJARA: YES.
10 MS. BONNEVILLE: PAT LEVITT.
11 DR. LEVITT: YES.
12 MS. BONNEVILLE: LINDA MALKAS.
13 DR. MALKAS: YES.
14 MS. BONNEVILLE: DAVE MARTIN.
15 DR. MARTIN: YES.
16 MS. BONNEVILLE: CHRISTINE MIASKOWSKI.
17 DR. MIASKOWSKI: YES.
18 MS. BONNEVILLE: LAUREN MILLER-ROGEN.
19 MS. MILLER-ROGEN: YES.
20 MS. BONNEVILLE: ADRIANA PADILLA.
21 DR. PADILLA: YES.
22 MS. BONNEVILLE: AL ROWLETT.
23 MR. ROWLETT: YES.
24 MS. BONNEVILLE: MICHAEL STAMOS.
25 DR. STAMOS: YES.

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1 MS. BONNEVILLE: JONATHAN THOMAS.

2 CHAIRMAN THOMAS: YES.

3 MS. BONNEVILLE: ART TORRES.

4 MR. TORRES: AYE.

5 MS. BONNEVILLE: KRISTINA VUORI.

6 DR. VUORI: YES.

7 MS. BONNEVILLE: KEITH YAMAMOTO.

8 DR. YAMAMOTO: YES.

9 MS. BONNEVILLE: MOTION CARRIES. THANK
10 YOU.

11 DR. GASSON: THANK YOU, MARIA. THE NEXT
12 PART OF MARIA'S PRESENTATION IS ON THE INTERNAL
13 GOVERNANCE.

14 MS. BONNEVILLE: NEXT SLIDE PLEASE.

15 SO THE AMENDMENTS TO UPDATE THE INTERNAL
16 GOVERNANCE POLICY WITH THE LANGUAGE FROM PROP 14,
17 SIMILAR TO WHAT WE DID WITH THE BOARD BYLAWS.
18 HIGHLIGHTS: IT OUTLINES THE ROLES OF THE CHAIR,
19 VICE CHAIR, AND CEO/PRESIDENT AS DESCRIBED IN PROP
20 14, PROVIDES FOR LEGISLATIVE ISSUES TO BE BROUGHT
21 DIRECTLY TO THE BOARD WITH THE ELIMINATION OF THE
22 LEGISLATIVE SUBCOMMITTEE, AND IT ADDS LANGUAGE FOR
23 ACCESSIBILITY AND AFFORDABILITY WORKING GROUP, AND
24 IT ESTABLISHES THE REPORTING STRUCTURE FOR THE CIRM
25 TEAM WITH A PRELIMINARY ORG CHART.

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1 DR. GASSON: CAN WE HAVE A MOTION TO
2 APPROVE THESE CHANGES?

3 DR. DULIEGE: I MOVE.

4 MR. BERNAL: SO MOVED.

5 DR. DULIEGE: OR SECOND.

6 DR. GASSON: THANK YOU VERY MUCH. ARE
7 THERE ANY QUESTIONS OR COMMENTS FROM MEMBERS OF THE
8 BOARD?

9 MS. BONNEVILLE: THERE ARE NO HANDS
10 RAISED, JUDY.

11 DR. GASSON: MARIA, DO YOU HAVE QUESTIONS
12 OR COMMENTS FROM MEMBERS OF THE PUBLIC?

13 MS. BONNEVILLE: THERE ARE NO HANDS
14 RAISED.

15 DR. GASSON: THANK YOU, MARIA. WILL YOU
16 CALL THE ROLL PLEASE.

17 MS. BONNEVILLE: DAN BERNAL.

18 MR. BERNAL: AYE.

19 MS. BONNEVILLE: GEORGE BLUMENTHAL. LINDA
20 BOXER.

21 DR. BOXER: YES.

22 MS. BONNEVILLE: MICHAEL BOTCHAN.

23 DR. BOTCHAN: YES.

24 MS. BONNEVILLE: JIM KOVACH.

25 DR. KOVACH: YES.

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1 MS. BONNEVILLE: LE ONDRA CLARK HARVEY.
2 DR. CLARK HARVEY: YES.
3 MS. BONNEVILLE: DEBORAH DEAS.
4 DR. DEAS: YES.
5 MS. BONNEVILLE: ANNE-MARIE DULIEGE.
6 DR. DULIEGE: YES.
7 MS. BONNEVILLE: YSABEL DURON.
8 MS. DURON: YES.
9 MS. BONNEVILLE: MARK FISCHER-COLBRIE.
10 DR. FISCHER-COLBRIE: AYE.
11 MS. BONNEVILLE: FRED FISHER.
12 DR. FISHER: YES.
13 MS. BONNEVILLE: ELENA FLOWERS.
14 DR. FLOWERS: YES.
15 MS. BONNEVILLE: JUDY GASSON.
16 DR. GASSON: YES.
17 MS. BONNEVILLE: LARRY GOLDSTEIN.
18 DR. GOLDSTEIN: YES.
19 MS. BONNEVILLE: DAVID HIGGINS.
20 DR. HIGGINS: YES.
21 MS. BONNEVILLE: STEPHEN JUELSGAARD.
22 MR. JUELSGAARD: YES.
23 MS. BONNEVILLE: RICH LAJARA.
24 MR. LAJARA: YES.
25 MS. BONNEVILLE: PAT LEVITT.

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1 DR. LEVITT: YES.
2 MS. BONNEVILLE: LINDA MALKAS.
3 DR. MALKAS: YES.
4 MS. BONNEVILLE: DAVE MARTIN.
5 DR. MARTIN: YES.
6 MS. BONNEVILLE: CHRISTINE MIASKOWSKI.
7 DR. MIASKOWSKI: YES.
8 MS. BONNEVILLE: LAUREN MILLER-ROGEN.
9 MS. MILLER-ROGEN: YES.
10 MS. BONNEVILLE: ADRIANA PADILLA.
11 DR. PADILLA: YES.
12 MS. BONNEVILLE: AL ROWLETT.
13 MR. ROWLETT: YES.
14 MS. BONNEVILLE: MICHAEL STAMOS.
15 DR. STAMOS: YES.
16 MS. BONNEVILLE: JONATHAN THOMAS.
17 CHAIRMAN THOMAS: YES.
18 MS. BONNEVILLE: ART TORRES.
19 MR. TORRES: AYE.
20 MS. BONNEVILLE: KRISTINA VUORI.
21 DR. VUORI: YES.
22 MS. BONNEVILLE: KEITH YAMAMOTO.
23 DR. YAMAMOTO: YES.
24 MS. BONNEVILLE: MOTION CARRIES.
25 DR. FINE: MARIA, LEON FINE. YES.

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1 MS. BONNEVILLE: I DID NOT KNOW YOU WERE
2 BACK. THANK YOU. THE MOTION CARRIES.

3 DR. GASSON: TERRIFIC. THE FINAL ITEM
4 FROM THE GOVERNANCE SUBCOMMITTEE IS AN UPDATE OF THE
5 BOARD CODE OF CONDUCT.

6 MS. BONNEVILLE: YES. THANK YOU. NEXT
7 SLIDE PLEASE.

8 FINALLY, THE BOARD CODE OF CONDUCT WAS
9 AMENDED TO INCLUDE CHANGES TO PROP 14. ADDITIONS TO
10 THE CODE OF CONDUCT WERE MADE TO INCLUDE THE ABILITY
11 TO SANCTION AND IN SOME INSTANCES RECOMMEND REMOVAL
12 OF A BOARD MEMBER. THE EXACT ADDITION READS, "THE
13 BOARD SHALL HAVE THE AUTHORITY TO SANCTION A MEMBER
14 WHO IS FOUND BY THE BOARD TO HAVE VIOLATED THIS CODE
15 OF CONDUCT OR ENGAGED IN ANY MISCONDUCT CONSTITUTING
16 HARASSMENT, DISCRIMINATION, OR RETALIATION.
17 SANCTIONS MAY BE IMPOSED ONLY BY MAJORITY VOTE OF
18 THE BOARD WITH THE EXCEPTION OF A RECOMMENDATION FOR
19 REMOVAL WHICH REQUIRES A VOTE OF 60 PERCENT OF A
20 QUORUM.

21 "THE TYPES OF SANCTIONS THAT MAY BE
22 IMPOSED ON A MEMBER ARE AS FOLLOWS: WRITTEN
23 CENSURE, REMOVAL OR SUSPENSION FROM A COMMITTEE
24 ASSIGNMENT, OR RECOMMENDATION FOR REMOVAL BY
25 APPOINTING AUTHORITY."

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1 DR. GASSON: THANK YOU, MARIA. MAY I HAVE
2 A MOTION FOR APPROVAL OF THE PROPOSED AMENDMENTS TO
3 THE BOARD'S CODE OF CONDUCT?

4 DR. FISCHER-COLBRIE: SO MOVED.

5 DR. YAMAMOTO: SECOND.

6 MS. BONNEVILLE: SORRY. I COULD NOT HEAR.

7 DR. GASSON: ARE THERE ANY QUESTIONS OR
8 COMMENTS FROM MEMBERS OF THE BOARD? MARIA, DO YOU
9 HAVE ANY QUESTIONS OR COMMENTS FROM THE PUBLIC?

10 MS. BONNEVILLE: NO.

11 DR. GASSON: THANK YOU, MARIA. WOULD YOU
12 CALL THE ROLL PLEASE.

13 MS. BONNEVILLE: YES.

14 DAN BERNAL.

15 MR. BERNAL: AYE.

16 MS. BONNEVILLE: LINDA BOXER.

17 DR. BOXER: YES.

18 MS. BONNEVILLE: MICHAEL BOTCHAN.

19 DR. BOTCHAN: AYE.

20 MS. BONNEVILLE: JIM KOVACH.

21 DR. KOVACH: YES.

22 MS. BONNEVILLE: LE ONDRA CLARK HARVEY.

23 DR. CLARK HARVEY: YES.

24 MS. BONNEVILLE: DEBORAH DEAS.

25 DR. DEAS: YES.

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1 MS. BONNEVILLE: ANNE-MARIE DULIEGE.
2 DR. DULIEGE: YES.
3 MS. BONNEVILLE: YSABEL DURON.
4 MS. DURON: YES.
5 MS. BONNEVILLE: LEON FINE.
6 DR. FINE: YES.
7 MS. BONNEVILLE: MARK FISCHER-COLBRIE.
8 DR. FISCHER-COLBRIE: YES.
9 MS. BONNEVILLE: FRED FISHER.
10 DR. FISHER: YES.
11 MS. BONNEVILLE: ELENA FLOWERS.
12 DR. FLOWERS: YES.
13 MS. BONNEVILLE: JUDY GASSON.
14 DR. GASSON: YES.
15 MS. BONNEVILLE: LARRY GOLDSTEIN.
16 DR. GOLDSTEIN: YES.
17 MS. BONNEVILLE: DAVID HIGGINS.
18 DR. HIGGINS: YES.
19 MS. BONNEVILLE: STEPHEN JUELSGAARD.
20 MR. JUELSGAARD: YES.
21 MS. BONNEVILLE: RICH LAJARA.
22 MR. LAJARA: YES.
23 MS. BONNEVILLE: PAT LEVITT.
24 DR. LEVITT: YES.
25 MS. BONNEVILLE: LINDA MALKAS.

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1 DR. MALKAS: YES.
2 MS. BONNEVILLE: DAVE MARTIN.
3 DR. MARTIN: YES.
4 MS. BONNEVILLE: CHRISTINE MIASKOWSKI.
5 DR. MIASKOWSKI: YES.
6 MS. BONNEVILLE: LAUREN MILLER-ROGEN.
7 MS. MILLER-ROGEN: YES.
8 MS. BONNEVILLE: ADRIANA PADILLA.
9 DR. PADILLA: YES.
10 MS. BONNEVILLE: AL ROWLETT.
11 MR. ROWLETT: YES.
12 MS. BONNEVILLE: MICHAEL STAMOS.
13 DR. STAMOS: YES.
14 MS. BONNEVILLE: JONATHAN THOMAS.
15 CHAIRMAN THOMAS: YES.
16 MS. BONNEVILLE: ART TORRES.
17 MR. TORRES: AYE.
18 MS. BONNEVILLE: KRISTINA VUORI.
19 DR. VUORI: YES.
20 MS. BONNEVILLE: KAROL WATSON. KEITH
21 YAMAMOTO.
22 DR. YAMAMOTO: YES.
23 MS. BONNEVILLE: THANK YOU. THE MOTION
24 CARRIES.
25 DR. GASSON: THIS CONCLUDES THE ACTIVITIES

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1 OF THE GOVERNANCE SUBCOMMITTEE. I'D LIKE TO THANK
2 MARIA BONNEVILLE FOR ALL OF HER HARD WORK, MY
3 CO-CHAIR, KRISTINA VUORI, AND THE MEMBERS OF THE
4 COMMITTEE. THANK YOU VERY MUCH.

5 CHAIRMAN THOMAS: THANK YOU, MADAM
6 CHAIRPERSON. EXCELLENT REPORT OUT OF THE GOVERNANCE
7 SUBCOMMITTEE.

8 WE NOW MOVE TO ITEM NO. 7, CONSIDERATION
9 OF NEW APPOINTMENTS AND REAPPOINTMENTS TO THE GRANTS
10 WORKING GROUP. GIL.

11 DR. SAMBRANO: THANK YOU, MR. CHAIRMAN.
12 GOOD AFTERNOON TO EVERYONE.

13 SO TODAY WE ARE BRINGING FOR YOUR
14 CONSIDERATION APPOINTMENT OF SCIENTIFIC MEMBERS. WE
15 HAVE 12 NEW GRANTS WORKING GROUP NOMINEES THAT ARE
16 SHOWN AND THE BIOS ARE SHOWN IN THE DOCUMENTATION
17 THAT WAS PROVIDED ALONG WITH 22 REAPPOINTMENTS OF
18 MEMBERS TO THE GRANTS WORKING GROUP. AND THIS IS
19 ALL PART OF OUR ONGOING EFFORT TO BOTH MAINTAIN AND
20 GROW THE POOL OF EXPERTS THAT WE DRAW FROM FOR ALL
21 THE DIFFERENT SCIENTIFIC REVIEWS THAT WE HAVE FROM
22 BASIC BIOLOGY, DISCOVERY, CLINICAL. AND IN
23 PARTICULAR WE NEED TO RAMP UP OUR EARLY STAGE
24 REVIEWERS. AND SO THIS IS, IN PART, THE NOMINEES WE
25 HOPE THEIR EXPERTISE WILL BRING.

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1 SO WHEN WE REACH OUT AND FOCUS OUR
2 IDENTIFICATION OF SCIENTISTS THAT WE WANT TO BRING
3 IN, OBVIOUSLY THE MOST -- THERE'S A COUPLE OF REALLY
4 IMPORTANT ELEMENTS. SO RELEVANT SCIENTIFIC
5 EXPERTISE IS KEY, BUT WE ALSO WANT TO ENHANCE THE
6 DIVERSITY OF THE GRANTS WORKING GROUP POOL IN A
7 VARIETY OF WAYS. AND SO WE ALSO SEEK
8 RECOMMENDATIONS FROM OUTSIDE ORGANIZATIONS, AND ONE
9 OF THOSE IS THE NATIONAL ACADEMY OF SCIENCES. AND
10 THEY ALONG WITH US PARTNER TO TRY TO KEEP THESE
11 THINGS IN MIND. AND SO SIX OF THE NEW NOMINEES THAT
12 ARE PRESENTED WERE REFERRED TO US BY THE NATIONAL
13 ACADEMY OF SCIENCE. SO I DID WANT TO SPECIFICALLY
14 POINT THAT OUT, THAT THAT HAS ALLOWED US TO IDENTIFY
15 PEOPLE THAT WE MIGHT NOT OTHERWISE.

16 SO IF THERE ARE ANY QUESTIONS, I'M HAPPY
17 TO ADDRESS THEM, BUT OTHERWISE WE'D LIKE TO SEEK
18 APPROVAL FOR THESE NEW NOMINEES AS WELL AS THE
19 REAPPOINTMENTS.

20 AND I THINK, MR. CHAIRMAN, YOU ALSO HAVE
21 THE NOMINATION FROM THE BOARD FOR A PATIENT ADVOCATE
22 MEMBER, I BELIEVE.

23 CHAIRMAN THOMAS: YES, THAT'S CORRECT.
24 I'D, AS PREVIOUSLY SELF-IDENTIFIED, LIKE TO NOW ADD
25 TO THIS NOMINATION THE FRED FISHER TO BECOME ONE OF

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1 THE PATIENT ADVOCATES ON THE GWG.

2 GIL, IF YOU WOULD -- IF YOU ARE FINISHED,
3 THEN DO WE HEAR A MOTION TO APPROVE THE SLATE OF NEW
4 GWG NOMINEES INCLUDING FRED?

5 DR. BOTCHAN: SO MOVED.

6 DR. MARTIN: SECOND.

7 CHAIRMAN THOMAS: MOVED BY MIKE. SECONDED
8 BY DAVE. IS THERE ANY BOARD DISCUSSION OR COMMENT
9 ON THIS?

10 MS. BONNEVILLE: DAVID HIGGINS HAS HIS
11 HAND RAISED.

12 CHAIRMAN THOMAS: DAVID.

13 DR. HIGGINS: YES. I DON'T MEAN -- I
14 DON'T WANT TO BE INFLAMMATORY OR COME ACROSS AS
15 BEING INFLAMMATORY AT ALL. THIS IS THE BEST GROUP
16 OF PEOPLE I'VE EVER WORKED WITH IN MY CAREER. GIL,
17 PERHAPS YOU COULD TELL ME ONE OF MY ISSUES WAS THE
18 GWG AND IT'S ALWAYS BEEN THE REPRESENTATION OF WOMEN
19 ON THERE. IT'S INCREDIBLY LOPSIDED OR IT WAS A YEAR
20 AGO. IS THAT STILL THE CASE? CAN YOU TELL ME HOW
21 MANY MALES AND HOW MANY FEMALES THERE ARE ON THE
22 GWG?

23 DR. SAMBRANO: NO. THAT'S A GREAT
24 QUESTION. DAVID, I'LL TELL YOU THAT WE ARE STRIVING
25 TO SEEK OUT AND PRIORITIZE OUR OUTREACH SUCH THAT WE

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1 DO REACH OUT SPECIFICALLY TO WOMEN, PEOPLE OF COLOR,
2 TO YOUNG FACULTY, FOLKS THAT MAY HAVE NONTRADITIONAL
3 ROLES IN SCIENCE BECAUSE WE WANT TO DRAW AND BRING
4 THEIR EXPERTISE TO THE TABLE PARTICULARLY IN THE
5 GWG.

6 THERE ARE DEFINITELY MORE MEN THAN WOMEN
7 ON THE GWG WHICH PROBABLY REFLECTS WHAT IS OUT THERE
8 AMONG FACULTY AS WELL AS AT ACADEMIC INSTITUTIONS
9 AND IN THE SCIENTIFIC ARENA. BUT WE DO AND ARE
10 TRYING TO MAKE AN EFFORT TO DO MORE ABOUT IT. I DO
11 WANT TO SAY THAT WE HAVE ONE PARTICULAR INDIVIDUAL,
12 WELL, WE HAVE EIGHT WOMEN WHO WE'RE BRINGING IN IN
13 THIS GROUP OUT OF THE 34 THAT WE ARE APPOINTING OR
14 REAPPOINTING. ONE OF THE INDIVIDUALS THAT WE ARE
15 BRINGING IN IS DR. LATISHA WYATT, WHO IS A
16 NEUROSCIENTIST BUT WHO ALSO SERVES AS THE DIRECTOR
17 OF DIVERSITY AND RESEARCH AT THE OREGON HEALTH AND
18 SCIENCE UNIVERSITY. SHE'S ALSO A DIRECTOR OF
19 INNOVATIVE POLICY AT THE RACIAL, EQUITY AND
20 INCLUSION CENTER AT THE VOLLUM INSTITUTE.

21 AND SO SHE HAS EXPERTISE IN DEVELOPING
22 PLANS, POLICIES THAT BRING BOTH RACIAL EQUITY,
23 GENDER EQUITY. AND SO THIS IS AN ELEMENT THAT WAS
24 PARTICULARLY ATTRACTIVE TO US. AND SO WE ARE HOPING
25 THAT THROUGH THE HELP OF FOLKS LIKE HER, OTHER GWG

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1 MEMBERS, AND OUR OWN EFFORTS IN TRYING TO IDENTIFY
2 FOLKS THAT WE CAN BROADEN AND ENHANCE DIVERSITY OF
3 THE GROUP BECAUSE I DO AGREE. WE DEFINITELY NEED TO
4 DO THAT.

5 MS. DURON: JUST TO ADD FLAME TO DAVID'S
6 FIRE, I WAS GOING TO ASK HOW DIVERSE IS THE NATIONAL
7 ACADEMY OF SCIENCES, WHICH I DON'T EXPECT AN ANSWER
8 TO. BUT I'M JUST WONDERING IF WE'RE NOT TRYING SOME
9 NONTRADITIONAL PLACES WITH FOLK WHO MIGHT KNOW WHAT
10 THEY CONSIDER EXPERTS OUT THERE THAT DON'T NORMALLY
11 GO THROUGH THE -- AREN'T NORMALLY CHOSEN THROUGH THE
12 REGULAR CHANNELS. SO I'M THINKING ABOUT THE
13 NATIONAL HISPANIC MEDICAL ASSOCIATION. I KNOW
14 THERE'S A NATIONAL BLACK ASSOCIATION OF DOCTORS.
15 AND JUST OTHER NONTRADITIONAL PATHWAYS THAT YOU
16 MIGHT REACH OUT TO BECAUSE THEY MAY HAVE SOME REALLY
17 SMART YOUNG INVESTIGATORS THEY KNOW OF, THEY CAN
18 POINT TO, AND THEY COULD PERHAPS SEND NAMES AND
19 PROVIDE TO YOUR LIST.

20 THE OTHER THING I KIND OF WONDERED, GIVEN
21 MY OWN PARTICIPATION IN ORGANIZATIONS OR COMMITTEES
22 LIKE THIS, IS WONDERING HOW MUCH RELUCTANCE, NOT
23 RESISTANCE, BUT RELUCTANCE TO JOIN THESE GROUPS
24 GIVEN, ONE, HOW MUCH WORK IS INVOLVED BECAUSE
25 EVERYBODY IS SO OVERWORKED ALREADY. AND, SECOND OF

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1 ALL, WHETHER OR NOT THEY FEEL COMFORTABLE JOINING
2 THE GROUP. I THINK WE ALL HAVE TO LEARN TO JUMP
3 INTO THE WATER AND NOT BE FRIGHTENED OBVIOUSLY IF
4 IT'S NOT OUR EXPERTISE. BUT I JUST KIND OF WONDER
5 GIVEN THAT I THINK OF MANY OF OUR YOUNGER
6 INVESTIGATORS OF COLOR AS HAVING NOT AS MUCH
7 EXPERIENCE AND SOMETIMES NOT GIVING THEMSELVES
8 CREDIT FOR BEING ABLE TO JOIN A GROUP SUCH AS THIS
9 AND BRING THEIR EXPERTISE TO THE TABLE.

10 SO THAT'S JUST A LITTLE THINKING I WOULD
11 ADD TO THE TABLE. I DON'T KNOW THAT IT'S GOING TO
12 CHANGE MUCH, BUT I THINK THAT IF ALL OF YOU CAN
13 REACH OUT TO THOSE YOUNG INVESTIGATORS IN YOUR
14 CIRCLES AND TALK TO THEM ABOUT THESE KINDS OF
15 OPPORTUNITIES AND WHY THOU SHALT NOT BE AFRAID, BUT
16 IN FACT WE NEED YOUR VOICE AT THE TABLE. OR, YES, I
17 KNOW YOU'VE GOT A LOT OF WORK, BUT YOU'RE IMPORTANT
18 AND WE NEED YOU HERE. I THINK THAT WOULD BE REALLY
19 IN MY MIND WELCOME AND INFORMATIVE FOR SOME PEOPLE
20 WHO MIGHT ULTIMATELY BE FABULOUS AND GREAT ONCE AT
21 THE TABLE, BUT WHO MIGHT BE A SHADE RELUCTANT TO
22 START ON THAT PATH. THANK YOU.

23 CHAIRMAN THOMAS: THANK YOU, YSABEL.

24 GIL, JUST FOR THE BENEFIT OF THE NEWER
25 MEMBERS, ASSUMING WE PASS THIS MOTION, WHAT IS THE

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1 SIZE OF THE GWG POOL AS IT CURRENTLY STANDS?

2 DR. SAMBRANO: WE'VE BEEN WORKING OUR POOL
3 BACK UP BECAUSE THERE WERE MANY, AS YOU CAN TELL
4 FROM THE REAPPOINTMENTS, WHOSE TERM ENDED. SO WE
5 WOULD BE COMING BACK TO ABOUT 200 MEMBERS THAT ARE
6 ACTIVE.

7 CHAIRMAN THOMAS: THANK YOU. ANY FURTHER
8 COMMENTS OR QUESTIONS FROM MEMBERS OF THE BOARD?
9 MEMBERS OF THE PUBLIC? HEARING NONE, MARIA, WILL
10 YOU PLEASE CALL THE ROLL.

11 MS. BONNEVILLE: DAN BERNAL.

12 MR. BERNAL: AYE.

13 MS. BONNEVILLE: GEORGE BLUMENTHAL. LINDA
14 BOXER.

15 DR. BOXER: YES.

16 MS. BONNEVILLE: MICHAEL BOTCHAN.

17 DR. BOTCHAN: YES.

18 MS. BONNEVILLE: JIM KOVACH.

19 DR. KOVACH: YES.

20 MS. BONNEVILLE: LE ONDRA CLARK HARVEY.

21 DR. CLARK HARVEY: YES.

22 MS. BONNEVILLE: DEBORAH DEAS.

23 DR. DEAS: YES.

24 MS. BONNEVILLE: ANNE-MARIE DULIEGE.

25 DR. DULIEGE: YES.

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MS. BONNEVILLE: YSABEL DURON.
MS. DURON: YES.
MS. BONNEVILLE: MARK FISCHER-COLBRIE.
DR. FISCHER-COLBRIE: YES.
MS. BONNEVILLE: FRED FISHER.
DR. FISHER: SHOULD I ABSTAIN SINCE I'M A
NOMINEE?
MS. BONNEVILLE: YOU'RE CORRECT. I'M
SORRY ABOUT THAT.
LEON FINE.
DR. FINE: YES.
MS. BONNEVILLE: ELENA FLOWERS.
DR. FLOWERS: YES.
MS. BONNEVILLE: JUDY GASSON.
DR. GASSON: YES.
MS. BONNEVILLE: LARRY GOLDSTEIN.
DR. GOLDSTEIN: YES.
MS. BONNEVILLE: DAVID HIGGINS.
DR. HIGGINS: YES.
MS. BONNEVILLE: STEPHEN JUELSGAARD.
MR. JUELSGAARD: YES.
MS. BONNEVILLE: RICH LAJARA.
MR. LAJARA: YES.
MS. BONNEVILLE: PAT LEVITT.
DR. LEVITT: YES.

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1 MS. BONNEVILLE: LINDA MALKAS.
2 DR. MALKAS: YES.
3 MS. BONNEVILLE: DAVE MARTIN.
4 DR. MARTIN: YES.
5 MS. BONNEVILLE: CHRISTINE MIASKOWSKI.
6 DR. MIASKOWSKI: YES.
7 MS. BONNEVILLE: LAUREN MILLER-ROGEN.
8 MS. MILLER-ROGEN: YES.
9 MS. BONNEVILLE: ADRIANA PADILLA.
10 DR. PADILLA: YES.
11 MS. BONNEVILLE: AL ROWLETT.
12 MR. ROWLETT: YES.
13 MS. BONNEVILLE: MICHAEL STAMOS.
14 DR. STAMOS: YES.
15 MS. BONNEVILLE: JONATHAN THOMAS.
16 CHAIRMAN THOMAS: YES.
17 MS. BONNEVILLE: ART TORRES.
18 MR. TORRES: AYE.
19 MS. BONNEVILLE: KRISTINA VUORI. KEITH
20 YAMAMOTO.
21 DR. YAMAMOTO: YES.
22 MS. BONNEVILLE: THE MOTION CARRIES.
23 CHAIRMAN THOMAS: THANK YOU, MARIA. ON TO
24 ITEM 8, CONSIDERATION OF APPOINTMENT OF MEMBERS TO
25 THE ACCESSIBILITY AND AFFORDABILITY WORKING GROUP.

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1 MARIA OR SOMEBODY, CAN YOU PUT THE MEMO FOR THIS
2 ITEM UP ON THE SCREEN PLEASE.

3 SO AS YOU RECALL, AS WE IDENTIFIED MEMBERS
4 OF THE AAWG TO FILL THE TEN NON-BOARD MEMBERS SLOTS,
5 WE BRING THOSE NOMINEES TO THE BOARD FOR APPROVAL.
6 THIS IS THE LAST OF THOSE VOTES. WE HAVE FOUR NEW
7 MEMBERS HERE THAT ARE UNDER CONSIDERATION TODAY.

8 ON THE SCREEN YOU CAN SEE THE EXISTING
9 MEMBERS WE'VE ALREADY VOTED ON. IF YOU SCROLL A BIT
10 FURTHER DOWN TO THE NEXT PAGE, THAT'S THE SIX WE
11 HAVE. NOW WE HAVE THE NEXT FOUR. AND YOU SEE BOTH
12 NAME AND TITLE AND THE SLOT THAT EACH INDIVIDUAL IS
13 GOING TO FILL PER THE TERMS OF PROP 14 AS A
14 NON-BOARD MEMBER MEMBER OF THIS WORKING GROUP. YOU
15 CAN SEE THESE ARE ALL HIGHLY QUALIFIED.

16 I WOULD NOTE FOR THOSE WHO ARE NEW AND NOT
17 SO NEW, DAVID SERRANO SEWALL PREVIOUSLY WAS A BOARD
18 MEMBER OF CIRM BACK IN THE EARLIER DAYS. HE WAS THE
19 PATIENT ADVOCATE FOR MS AND ALS WHO PRECEDED DIANE
20 WINOKUR. BUT YOU CAN SEE THE FOUR FULL NAMES. AND
21 SO DO WE HAVE A MOTION TO APPROVE THESE NEW FOUR
22 NOMINEES?

23 MR. TORRES: I MOVE TO APPROVE.

24 CHAIRMAN THOMAS: THANK YOU, ART. IS
25 THERE A SECOND?

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DR. MARTIN: SECOND.

CHAIRMAN THOMAS: THANK YOU, DAVE. ANY
QUESTIONS OR COMMENTS FROM MEMBERS OF THE BOARD?
ANY COMMENTS FROM MEMBERS OF THE PUBLIC? NEARING
NONE, MARIA, PLEASE CALL THE ROLL.

MS. BONNEVILLE: DAN BERNAL.

MR. BERNAL: AYE.

MS. BONNEVILLE: GEORGE BLUMENTHAL. LINDA
BOXER.

DR. BOXER: YES.

MS. BONNEVILLE: MICHAEL BOTCHAN.

DR. BOTCHAN: YES.

MS. BONNEVILLE: JIM KOVACH.

DR. KOVACH: YES.

MS. BONNEVILLE: LE ONDRA CLARK HARVEY.

DR. CLARK HARVEY: YES.

MS. BONNEVILLE: DEBORAH DEAS.

DR. DEAS: YES.

MS. BONNEVILLE: ANNE-MARIE DULIEGE.

DR. DULIEGE: YES.

MS. BONNEVILLE: YSABEL DURON.

MS. DURON: YES.

MS. BONNEVILLE: LEON FINE.

DR. FINE: YES.

MS. BONNEVILLE: MARK FISCHER-COLBRIE.

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1 DR. FISCHER-COLBRIE: YES.
2 MS. BONNEVILLE: FRED FISHER.
3 DR. FISHER: YES.
4 MS. BONNEVILLE: ELENA FLOWERS.
5 DR. FLOWERS: YES.
6 MS. BONNEVILLE: JUDY GASSON.
7 DR. GASSON: YES.
8 MS. BONNEVILLE: LARRY GOLDSTEIN.
9 DR. GOLDSTEIN: YES.
10 MS. BONNEVILLE: DAVID HIGGINS.
11 DR. HIGGINS: YES.
12 MS. BONNEVILLE: STEPHEN JUELSGAARD.
13 MR. JUELSGAARD: YES.
14 MS. BONNEVILLE: RICH LAJARA.
15 MR. LAJARA: YES.
16 MS. BONNEVILLE: PAT LEVITT.
17 DR. LEVITT: YES.
18 MS. BONNEVILLE: LINDA MALKAS.
19 DR. MALKAS: YES.
20 MS. BONNEVILLE: DAVE MARTIN.
21 DR. MARTIN: YES.
22 MS. BONNEVILLE: CHRISTINE MIASKOWSKI.
23 DR. MIASKOWSKI: YES.
24 MS. BONNEVILLE: LAUREN MILLER-ROGEN.
25 ADRIANA PADILLA.

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DR. PADILLA: YES.

MS. BONNEVILLE: AL ROWLETT.

MR. ROWLETT: YES.

MS. BONNEVILLE: MICHAEL STAMOS.

DR. STAMOS: I THINK I NEED TO ABSTAIN.
ONE OF MY FACULTY IS A CANDIDATE.

MS. BONNEVILLE: YOU CAN VOTE ON THIS.
IT'S OKAY.

DR. STAMOS: OKAY. YES.

MS. BONNEVILLE: JONATHAN THOMAS.

CHAIRMAN THOMAS: YES.

MS. BONNEVILLE: ART TORRES.

MR. TORRES: AYE.

MS. BONNEVILLE: KRISTINA VUORI.

DR. VUORI: YES.

MS. BONNEVILLE: KEITH YAMAMOTO.

DR. YAMAMOTO: YES.

MS. BONNEVILLE: THANK YOU. THE MOTION
CARRIES.

MR. TORRES: WHAT'S THE TOTAL, MARIA, OF
THE VOTES THAT WERE CAST?

MS. BONNEVILLE: THAT WILL TAKE ME A
SECOND TO COUNT UP. SO JUST ONE MOMENT.

MR. TORRES: JUST TEXT ME. THAT'S FINE.

MS. BONNEVILLE: OKAY. I WILL.

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1 CHAIRMAN THOMAS: SO THANK YOU VERY MUCH,
2 MARIA. JUST WANT TO NOTE ON THIS. WE BELIEVE THIS
3 TO BE A MOST DISTINGUISHED GROUP WHICH WILL BRING
4 THE DESIRED EXPERTISE TO THE AAWG. I AND/OR ART AND
5 MARIA SPOKE TO EACH OF THESE FOLKS AS THEY WERE
6 FIRST BROUGHT TO OUR ATTENTION AND BELIEVE THAT THIS
7 IS A REALLY ACCOMPLISHED GROUP THAT WILL DO A LOT OF
8 GREAT THINGS FOR THE WORKING GROUP AND FOR THE CAUSE
9 OF ACCESSIBILITY AND AFFORDABILITY. SO THANK YOU
10 VERY MUCH FOR YOUR APPROVAL ON THAT.

11 WE NOW COME TO THE PORTION OF THE MEETING
12 WHICH IS THE APPLICATION REVIEW SUBCOMMITTEE. AND
13 WE HAVE ITEM 9, CONSIDERATION OF APPLICATIONS
14 SUBMITTED IN RESPONSE TO CLINICAL TRIAL STAGE
15 PROJECTS PROGRAM ANNOUNCEMENT CLIN1, 2, OR 3.
16 PRESENTATION AND SUMMARY FROM GIL.

17 DR. SAMBRANO: OKAY. LET ME JUST SHARE MY
18 SCREEN. SO THESE ARE THE RECOMMENDATIONS FROM THE
19 GRANTS WORKING GROUP FOR APPLICATIONS THAT WERE
20 SUBMITTED TO THE CLIN PROGRAM. AND AS MENTIONED,
21 THE CLINICAL PROGRAM SUPPORTS THREE DIFFERENT STAGES
22 OF DEVELOPMENT: IND-ENABLING PROJECTS THAT WORK
23 TOWARDS GETTING AN IND FILING, A CLINICAL TRIAL, OR
24 SUPPLEMENTAL ACCELERATING ACTIVITIES.

25 SO THE APPLICATION FOR TODAY FALLS INTO

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1 THE CLIN1 OR LATE STAGE PRECLINICAL PROJECTS.

2 THIS SLIDE IS JUST A REMINDER OF WHAT THE
3 CLINICAL BUDGET STATUS IS. THERE'S AN ANNUAL
4 ALLOCATION FOR THE FISCAL YEAR 2021 TO 22.

5 CHAIRMAN THOMAS: SLIDES AREN'T ADVANCING,
6 GIL.

7 DR. SAMBRANO: THAT IS STRANGE. THEY'RE
8 ADVANCING ON MY SCREEN. I DON'T KNOW WHY THEY'RE
9 NOT.

10 MS. BONNEVILLE: GIL, IF YOU NEED US TO
11 SHARE ON OUR END.

12 DR. SAMBRANO: YEAH. THEY'RE WORKING ON
13 MINE. I HAVE NO IDEA WHY YOU AREN'T SEEING IT.

14 MS. BONNEVILLE: OKAY. LET ME BRING THAT
15 UP; AND IF YOU COULD STOP SHARING, I'LL SHARE MY
16 SCREEN. LET'S SHARE. WE ARE A SHARING BUNCH.

17 DR. SAMBRANO: NEXT ONE PLEASE. SO THIS
18 IS THE CLINICAL BUDGET STATUS. AND SO THERE WAS AN
19 ALLOCATION OR AN ANNUAL ALLOCATION FOR THE FISCAL
20 YEAR 21/22 OF 162 MILLION. AND SO THE AMOUNT THAT
21 HAS BEEN APPROVED THUS FAR BY THE BOARD FOR CLINICAL
22 PROJECTS IS 43 MILLION. THE AMOUNT THAT'S REQUESTED
23 IN THE ONE APPLICATION BEING CONSIDERED TODAY IS 6
24 MILLION. SO IF THAT IS APPROVED, THAT WOULD LEAVE
25 US WITH A BALANCE OF ABOUT 113 MILLION.

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1 SO THE NEXT SLIDE IS THE SET OF REVIEW
2 CRITERIA THAT WAS UTILIZED BY THE GRANTS WORKING
3 GROUP TO ASSESS THE MERIT OF THESE PROJECTS. AND SO
4 THEY ARE CENTERED AROUND THESE FIVE QUESTIONS. DID
5 THE PROJECT HOLD THE NECESSARY SIGNIFICANCE AND
6 POTENTIAL FOR IMPACT? MEANING WHAT KIND OF VALUE
7 DOES IT OFFER AND IS IT WORTH DOING? DOES IT HAVE A
8 SOUND RATIONALE? DOES IT HAVE A GOOD PLAN AND
9 DESIGN? IS IT FEASIBLE? MEANING THEY HAVE A GOOD
10 PROJECT TEAM AND ALL THE NECESSARY RESOURCES TO
11 CARRY IT OUT. AND THEN THE LAST ONE, DOES THE
12 PROJECT ADDRESS THE NEEDS OF UNDERSERVED
13 COMMUNITIES? AND THE NEXT SLIDE PLEASE.

14 THE SCIENTIFIC SCORING SYSTEM THAT WE USE
15 FOR THE CLINICAL APPLICATIONS IS BASED ON A SYSTEM
16 OF 1, 2, OR 3 WITH A SCORE OF 1 BEING EXCEPTIONAL
17 MERIT WHICH WOULD WARRANT FUNDING. A SCORE OF 2
18 MEANS IT NEEDS IMPROVEMENT, SO THOSE TYPICALLY GO
19 BACK TO THE APPLICANT FOR REVISIONS AND THEY GET
20 ANOTHER LOOK AT BY THE GRANTS WORKING GROUP. OR A
21 SCORE OF 3, WHICH MEANS THAT THEY ARE SUFFICIENTLY
22 FLAWED THAT WE WOULDN'T WANT TO HAVE THEM BACK FOR
23 SIX MORE MONTHS.

24 THE NEXT SLIDE, JUST TO DISTINGUISH, THERE
25 ARE TWO ELEMENTS OF DIVERSITY THAT ARE PART OF THE

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1 APPLICATION. ONE IS CALLED ADDRESSING THE NEEDS OF
2 UNDERSERVED COMMUNITIES, WHICH WRAPS UP INTO THAT
3 FIFTH REVIEW QUESTION THAT I MENTIONED EARLIER. AND
4 SO THIS SECTION IS THE ONE THAT DESCRIBES THE
5 APPLICANT'S PLAN FOR OUTREACH AND ENROLLMENT OF A
6 DIVERSE PATIENT COHORT. IT ACCOUNTS FOR RACE,
7 ETHNICITY, AND GENDER DIVERSITY AS PART OF THAT
8 COHORT. AND THAT SECTION IS EVALUATED BY THE
9 WORKING GROUP AS A WHOLE, AND IT'S INCORPORATED INTO
10 THAT SCIENTIFIC MERIT SCORE OF A 1, 2, OR A 3.

11 IN ADDITION TO THAT, WE ALSO HAVE A
12 SECTION CALLED DIVERSITY, EQUITY, AND INCLUSION.
13 THAT SECTION DESCRIBES HOW THE APPLICANT TEAM MIGHT
14 INCORPORATE DIVERSE PERSPECTIVES AND EXPERIENCES IN
15 OTHER WAYS, INCLUDING THE COMPOSITION OF THE TEAM.
16 AND THAT SECTION IS EVALUATED AND SCORED BY THE
17 PATIENT ADVOCATE AND NURSE MEMBERS OF THE BOARD THAT
18 ARE APPOINTED TO THE GWG. AND THAT IS SHOWN AS A
19 DEI SCORE BETWEEN ZERO AND TEN, WITH TEN BEING THE
20 BEST POSSIBLE SCORE. I WILL HIGHLIGHT THAT WHEN WE
21 GET TO THAT ON THIS APPLICATION.

22 SO THIS PARTICULAR APPLICATION IS
23 CLIN1-12880. THIS IS A PROPOSAL FOR A CELL THERAPY
24 FOR ARTICULAR CARTILAGE REPAIR, AND IT UTILIZES A
25 PLURIPOTENT STEM CELL-DERIVED CHONDROCYTE CELL TYPE

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1 THAT'S ON A SCAFFOLD. AND THE INDICATION IS FOR
2 FOCAL ARTICULAR CARTILAGE LESIONS OF THE KNEE. AND
3 THEIR GOAL FOR THIS PROJECT IS TO SUBMIT AN IND TO
4 THE FDA. THE AMOUNT THAT IS REQUESTED IS JUST UNDER
5 6 MILLION FOR THIS PROJECT. NEXT SLIDE PLEASE.

6 SO A LITTLE BACKGROUND ON THIS PARTICULAR
7 INDICATION, ARTICULAR CARTILAGE INJURY IS SOMETHING
8 THAT CAN OVER TIME PROGRESS TO OSTEOARTHRITIS IN THE
9 MAJORITY OF PATIENTS IF THEY ARE NOT TREATED IN SOME
10 WAY. THE DEVELOPMENT OF OSTEOARTHRITIS CAN, IN
11 TURN, LEAD TO A TOTAL JOINT REPLACEMENT SURGERY FOR
12 SOME OF THE PATIENTS.

13 SO THE VALUE PROPOSITION FOR THIS THERAPY,
14 THE CURRENT STANDARD OF CARE FOR ARTICULAR CARTILAGE
15 INJURY IS PRIMARILY PALLIATIVE AND FOCUSED ON
16 REDUCING INFLAMMATION AND PAIN RANGING FROM
17 OVER-THE-COUNTER STUFF TO SOME SURGICAL INTERVENTION
18 WHEN WARRANTED. THE PROPOSED THERAPY HAS THE
19 POTENTIAL TO HALT DEGENERATIVE JOINT DISEASE
20 RESULTING FROM INJURY AND TO PREVENT PROGRESSION TO
21 ULTIMATELY OSTEOARTHRITIS. AND SO THIS IS A STEM
22 CELL PROJECT BECAUSE THE THERAPEUTIC CANDIDATE IS
23 MANUFACTURED FROM HUMAN EMBRYONIC STEM CELLS THAT
24 ARE THEN DIFFERENTIATED INTO THE CHONDROCYTE CELL
25 THAT IS INTRODUCED INTO THE LOCAL AREA OF INJURY.

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1 NEXT SLIDE PLEASE.

2 SO IN TERMS OF OTHER PROJECTS THAT CIRM IS
3 FUNDING THAT MIGHT BE SIMILAR IN OUR PORTFOLIO, WE
4 HAVE NOTHING CURRENTLY THAT'S ACTIVE THAT WOULD BE
5 ADDRESSING ARTICULAR CARTILAGE REPAIR OR
6 OSTEOARTHRITIS SPECIFICALLY. WE ARE SUPPORTING
7 OTHER PROJECTS IN OTHER BONE OR CARTILAGE-RELATED
8 AREAS SUCH AS OSTEONECROSIS OF THE HIP AND THEN A
9 RARE GENETIC DISORDER TERMED INFANTILE MALIGNANT
10 OSTEOPETROSIS. NEXT SLIDE PLEASE.

11 SO THE APPLICANT HAS RECEIVED CIRM FUNDING
12 IN THE PAST. WE'VE SUPPORTED THE WORK THAT STARTED
13 WITH THE BASIC BIOLOGY PROJECT, DEVELOPED A STRATEGY
14 FOR ARTICULAR CARTILAGE RESTORATION USING HUMAN
15 PLURIPOTENT STEM CELLS, AND THEN THAT WAS FOLLOWED
16 BY A TRANSLATIONAL AWARD WHICH HELPED THEM DEVELOP
17 THE NECESSARY STUDIES TO CONDUCT A PRE-IND MEETING
18 WITH THE FDA. AND THAT AWARD CONCLUDED ABOUT A
19 COUPLE OF YEARS AGO, AND NOW THEY ARE AT THE STAGE
20 WHERE THEY ARE DOING THEIR IND-ENABLING WORK TO GET
21 TO THE ULTIMATE IND FILING. SO NEXT SLIDE PLEASE.

22 AND SO THE RECOMMENDATION FROM THE GRANTS
23 WORKING GROUP ON THIS APPLICATION IS A SCORE OF 1
24 WITH 13 MEMBERS GIVING IT A SCORE OF 1. THERE WAS
25 ONE MEMBER THAT GAVE IT A SCORE OF 2. NO MEMBERS

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1 GIVING IT A SCORE OF 3. THE DEI SCORE BY THE
2 PATIENT ADVOCATE AND NURSE MEMBERS WAS A MEDIAN OF
3 8. AND THE CIRM TEAM RECOMMENDATION IS TO FUND THIS
4 APPLICATION IN CONCURRENCE WITH THE GRANTS WORKING
5 GROUP RECOMMENDATION FOR AN AWARD AMOUNT OF 5.999
6 MILLION. AND THAT'S IT FOR MY PRESENTATION. HAPPY
7 TO ADDRESS ANY QUESTIONS.

8 CHAIRMAN THOMAS: THANK YOU, GIL. YES,
9 YSABEL. YSABEL, BEFORE YOU GO, LET'S GET A MOTION
10 ON THE TABLE FIRST. IS THERE A MOTION TO APPROVE?

11 DR. DEAS: SO MOVED.

12 CHAIRMAN THOMAS: THANK YOU, DEBORAH.
13 SECOND?

14 MS. BONNEVILLE: HOLD PLEASE. DEBORAH,
15 YOU CANNOT MAKE A MOTION FOR THIS. IT IS THE VOTING
16 MEMBERS OF THE APPLICATION REVIEW SUBCOMMITTEE THAT
17 SHOULD MAKE THE MOTION.

18 MR. JUELSGAARD: I'LL MAKE THE MOTION.

19 DR. DULIEGE: SECOND.

20 CHAIRMAN THOMAS: STEVE AND ANNE-MARIE.
21 YSABEL, YOU FIRST. THANK YOU, MARIA.

22 MS. DURON: OKAY. THANK YOU, MR. CHAIR.
23 I WAS A BIT PERTURBED AT THE BOTTOM IN READING THE
24 DEI RECOMMENDATIONS. ONE OF THE LINES SAID THEY
25 HAVE A VERY WEAK DEI PLAN, AND SOMEONE SAID THEY

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1 HAVE A VERY STRONG DEI PLAN. SO I AM CONCERNED
2 ABOUT WHAT REQUIREMENTS, REQUISITES, OR EVEN
3 TEMPLATE THAT WE HAVE PUT OUT THAT FIRST OUR PATIENT
4 ADVOCATES AND THE OTHER REVIEWERS CAN READ SO THAT
5 THEY UNDERSTAND WHAT STRONG VERSUS WEAK LOOKS LIKE
6 BECAUSE OTHERWISE IT'S IN THE EYES OF THE BEHOLDER.

7 AND SO I AM CONCERNED. HAVE WE GOT A
8 TEMPLATE THERE, GIL, IN THE APPLICATION THAT
9 ACTUALLY SHOWS WHAT IS NEEDED TO SHOW US IF THEY
10 ACTUALLY KNOW WHAT THE HECK DIVERSITY AND INCLUSION
11 LOOKS LIKE, WHAT KIND OF PLANNING MECHANISMS THEY
12 HAVE WITH COMMUNITY GROUPS, HOW THEY ENGAGE THEM AND
13 UTILIZE THEM AND WORK WITH THEM? I'M JUST -- AND I
14 SHOULD HAVE ASKED A LOT SOONER, MARIA, IF I COULD
15 SEE THE PAPERWORK AROUND THE APPLICATION BECAUSE I
16 WANT TO KNOW HOW A RESEARCHER READS THE DEI PLAN AND
17 TWO DIFFERENT REVIEWERS HAVE THESE TOTAL DIFFERENT
18 VISIONS OF WEAK AND STRONG.

19 AND I THINK THAT WE AS A BOARD NEED TO
20 REALLY BE CONSISTENT. AND I REMEMBER THAT THE
21 EVALUATION PLAN WE GOT FROM SEATTLE TALKED ABOUT
22 INCONSISTENCIES. AND I THINK THAT THIS IS ONE OF
23 THEM. AND IF WE ARE REALLY GOING TO MOVE TOWARDS
24 TRUE DIVERSITY AND INCLUSION, I THINK WE NEED A
25 REALLY CONSISTENT TEMPLATE BY WHICH EVERYBODY CAN

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1 MEASURE WHAT A GOOD PLAN VERSUS A WEAK PLAN LOOKS
2 LIKE. AND SO MAYBE I'M OFF BASE HERE, BUT MAYBE
3 SOMEONE HAS AN ANSWER FOR ME.

4 DR. SAMBRANO: SO I THINK THAT'S A VERY
5 GOOD POINT. AND SO THERE'S ALWAYS GOING TO BE SORT
6 OF A SUBJECTIVE VIEW ON THIS BY SOME REVIEWERS, BUT
7 I THINK YOUR POINT OF HAVING AN EXAMPLE AND SPECIFIC
8 CRITERIA THAT WE CAN POINT TO THAT SAYS THIS IS WHAT
9 A STRONG PLAN VERSUS A WEAK PLAN OR EVEN WHERE WE
10 WOULD WANT TO DRAW THE LINE WOULD BE IS IMPORTANT TO
11 HAVE. AND SO IT IS SOMETHING THAT WE ARE WORKING ON
12 AS WE ARE DEVELOPING THE DEI STRUCTURE.

13 SO PART OF OUR PLAN IS TO HAVE ADDITIONAL
14 MEETINGS WITH OUR PATIENT ADVOCATE AND NURSE MEMBERS
15 BECAUSE, AS THE DRIVERS OF THE SCORING, WE WANT TO
16 MAKE SURE WE ARE ALL ON THE SAME PAGE. AND THEN
17 SUBSEQUENTLY TO PUT THAT INFORMATION AS CLEARLY AS
18 WE CAN IN THE APPLICATION INSTRUCTIONS AND ALSO MAKE
19 SURE THAT THE GUIDANCE THAT WE PROVIDE, BECAUSE
20 APPLICANTS WILL COME TO OUR SCIENCE OFFICERS, FOR
21 EXAMPLE, TO ASK FOR WHAT DO I PUT HERE, WHAT'S A
22 GOOD PLAN OR NOT, WE WANT TO BE ABLE TO GIVE THEM
23 GOOD GUIDANCE.

24 SO THAT IS STILL SOMETHING THAT WE ARE
25 DEVELOPING. AND SO AT THE MOMENT IT'S VERY ROUGH,

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1 TO SAY THE LEAST. AND SO, YES, IT IS SOMETHING THAT
2 WE DEFINITELY NEED TO DEVELOP FURTHER.

3 MS. DURON: COULD I JUST ASK IF I COULD
4 SEE THOSE AS WELL AND WEIGH IN?

5 DR. SAMBRANO: OF COURSE. ABSOLUTELY.

6 CHAIRMAN THOMAS: THANK YOU, YSABEL.

7 MS. BONNEVILLE: DAVE MARTIN.

8 DR. MARTIN: JUST GETTING INTO THE WEEDS.
9 IS THIS AN ALLOTYPIC OR AUTOLOGOUS --

10 DR. SAMBRANO: IT'S AN ALLOGENEIC THERAPY
11 FROM A HUMAN EMBRYONIC STEM CELL LINE.

12 DR. MARTIN: THANK YOU.

13 CHAIRMAN THOMAS: ANNE-MARIE.

14 DR. DULIEGE: A VERY BRIEF QUESTION. CAN
15 YOU JUST TELL US AT A HIGH LEVEL WHAT THE \$6 MILLION
16 COVERED? IS IT TWO TOXICOLOGY STUDIES AND CMC WORK?

17 DR. SAMBRANO: SO THIS IS MOSTLY
18 MANUFACTURING WORK. SO PART OF IT IS TO MANUFACTURE
19 THE PLURIPOTENT STEM CELL-DERIVED PRODUCT ALONG WITH
20 THE SCAFFOLD THAT IT GOES WITH SO THAT THEY CAN
21 PERFORM SOME TOXICITY, BIODISTRIBUTION,
22 TUMORIGENICITY STUDIES. AND THEN THEY'RE GOING TO
23 MANUFACTURE TWO FULL GMP COMPLIANT LOTS THAT THEY
24 CAN THEN USE FOR THE SUBSEQUENT CLINICAL TRIAL. SO
25 MOST OF IT IS GOING TO BE MANUFACTURING RELATED.

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1 DR. DULIEGE: SO THAT MEANS THAT THEY HAVE
2 DONE EVERYTHING ELSE AND THAT WILL ALLOW THEM TO GO
3 TO AN IND AND HAVE A PRE-IND MEETING?

4 DR. SAMBRANO: THAT'S THE EXPECTATION.

5 DR. DULIEGE: VERY GOOD.

6 CHAIRMAN THOMAS: FRED.

7 DR. FISHER: I WANTED TO CHIME IN IN
8 SUPPORT OF YSABEL'S COMMENTS. IT GOES TO SOME OF
9 THE ISSUES I WAS RAISING EARLIER IN THE CONTEXT OF
10 THE STRATEGIC PLAN. AND AS I'M ON MY LEARNING CURVE
11 AS A NEW WORKING GROUP MEMBER RESPONSIBLE FOR THE
12 DEI SCORE, I'M HOPEFUL THAT BY DECEMBER, WHEN THE
13 BOARD IS GOING TO BE PRESENTED THE OPPORTUNITY TO
14 APPROVE THE STRATEGIC PLAN FOR DEI IN THE MISSION
15 STATEMENT, THAT WE ALSO HAVE REALLY CLEAR GUIDELINES
16 FOR WHAT A STRONG DEI PLAN LOOKS LIKE BECAUSE
17 OTHERWISE WE WON'T BE ABLE TO KNOW WHETHER OR NOT
18 WE'RE FULFILLING THE MISSION PRIORITY.

19 AND IT RAISES FOR ME, NOT IN CONNECTION TO
20 THIS PARTICULAR REQUEST, BUT IT DOES RAISE FOR ME
21 THE QUESTION OF THIS IDEA OF WEIGHTING OF DEI SCORE,
22 THAT HYPOTHETICALLY, IF A PROJECT RECEIVED A
23 TERRIFIC SCIENTIFIC MERIT, BUT EVERYONE AGREED THAT
24 THE DEI PLAN WAS TERRIBLE, I DON'T KNOW IF THAT'S
25 EVER HAPPENED BEFORE, AND I'M WONDERING WHAT WOULD

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1 HAPPEN IN THAT INSTANCE. AND MAYBE THIS IS THE
2 WRONG PLACE TO ASK AND ANSWER THE QUESTION, WHICH
3 I'M TOTALLY PREPARED TO ACCEPT. I'LL JUST PUT IT
4 OUT THERE AS SOMETHING TO UNDERSTAND AT SOME POINT
5 DOWN THE ROAD.

6 DR. SAMBRANO: IF I MAY SAY, I THINK
7 THAT'S AN IMPORTANT QUESTION AND ONE THAT WE ARE
8 DEFINITELY THINKING ABOUT OF HOW TO GO ABOUT THAT
9 AND PART OF THE CONVERSATION THAT WE NEED TO HAVE TO
10 COME TO TERMS WITH WHAT GUIDANCE WE PROVIDE AND KIND
11 OF WHERE WE DRAW THOSE LINES.

12 DR. DEAS: AND I RECALL US HAVING THAT
13 DISCUSSION AT THE SCIENCE COMMITTEE WHEN WE BEGAN TO
14 DISCUSS THE DEI, ONE OF THE CRITERIA. AND AT THAT
15 TIME WE DISCUSSED THAT IF THEY HAD A GREAT SCIENCE
16 PLAN AND A TERRIBLE DEI, THEN THAT WOULD BE
17 SOMETHING THAT WOULD FALL IN THAT CATEGORY WHERE YOU
18 SEND IT BACK AND GIVE THEM A CHANCE TO REVISE THEIR
19 PLAN.

20 CHAIRMAN THOMAS: MARIA MILLAN, DO YOU
21 HAVE A THOUGHT ON THIS?

22 DR. MILLAN: I'D LIKE TO DEFER FIRST TO AL
23 ROWLETT WHO HAS BEEN VERY ACTIVE WITH US TRYING TO
24 ADDRESS THESE VERY CHALLENGES. AND THEN I CAN
25 COMMENT AFTER THAT IF THAT'S OKAY WITH YOU, MR.

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1 CHAIRMAN.

2 CHAIRMAN THOMAS: CERTAINLY. AL.

3 MR. ROWLETT: SO I PUT MY HAND UP, J.T.

4 I'M GOING TO GO BACK TO YSABEL'S COMMENT FIRST. I
5 RAISED THIS ON A COUPLE OF OCCASIONS WITH GIL, AND
6 SPECIFICALLY I'LL GIVE YOU AN EXAMPLE. IT IS
7 INCLUDING REPRESENTATION AS PART OF A TEAM AND NOT
8 HAVING THE OPERATIONAL COMPONENTS OF A PLAN CLEARLY
9 SPELLED OUT OR REFERENCING WHAT THE UNIVERSITY DID
10 AND HOW THAT'S APPLICABLE TO THE APPLICATION. AND
11 THOSE ARE QUESTIONS THAT I'VE ASKED ON A COUPLE OF
12 OCCASIONS WITH GIL, AND IT IS MY BELIEF THAT THE
13 TEAM IS GOING TO GIVE US ANOTHER OPPORTUNITY TO COME
14 TOGETHER TO DISCUSS THE VERY TEMPLATE THAT WE HELPED
15 PUT TOGETHER, WE'VE HAD SOME FEEDBACK ABOUT.

16 SO, YSABEL, ABSOLUTELY WOULDN'T BEGIN TO
17 DO THIS KIND OF WORK WITHOUT SOME TEMPLATE OR
18 GUIDANCE. AND THAT SPEAKS ALSO TO FRED'S POINT.
19 ALSO MAKING SURE THAT APPLICANTS UNDERSTAND THE VERY
20 NATURE OF THE TEMPLATE AND WHAT WE ARE LOOKING FOR.
21 BECAUSE YOU ASK THE RIGHT QUESTIONS, AND IF YOU
22 STILL DON'T GET THE INFORMATION, THAT SPEAKS TO THE
23 QUALITY OF THE APPLICATION. AND THEN WITH A GOOD
24 DEAL OF PASSION ASSOCIATED WITH THE QUESTION, JUST
25 SAYING TO GIL HOW I AM AT TIMES UNCOMFORTABLE WITH

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1 MY ASSESSMENT OF WHAT A DEI APPLICATION SHOULD
2 INCLUDE AND WHAT SOME OF THE OTHER REVIEWERS HAVE
3 SAID ABOUT THE DEI PORTION OF THE APPLICATIONS AND
4 HAVE HAD THAT CONVERSATION WITH GIL. I DON'T KNOW,
5 GIL, IF YOU WANTED TO SAY MORE ABOUT THAT. I THINK
6 THOSE CONVERSATIONS HAVE BEEN HELPFUL, AND I'M
7 LOOKING FORWARD TO, AS WE REFINE THIS WORK IN
8 PROGRESS, COMING UP WITH A SOLUTION THAT WILL WORK
9 FOR ALL MEMBERS OF THE BOARD. AND CERTAINLY AS A
10 PATIENT ADVOCATE I TAKE ON THIS RESPONSIBILITY VERY
11 SERIOUSLY.

12 CHAIRMAN THOMAS: GIL.

13 DR. SAMBRANO: I DON'T REALLY HAVE MORE TO
14 ADD. I AGREE. WE NEED TO CONTINUE TO TALK ABOUT IT
15 SO THAT WE CAN DEVELOP THE BEST GUIDANCE THAT WE
16 CAN.

17 CHAIRMAN THOMAS: THANK YOU. MARIA.

18 DR. MILLAN: WELL, COUPLE OF THINGS. SO
19 THERE IS THIS RUBRIC THAT'S OUT THERE, THE STARTING
20 POINT, THAT IS A WAY FORWARD AT LEAST IN TERMS OF
21 SOMETHING YOU CAN KIND OF LOOK AT AS A STARTING
22 POINT ONLY.

23 ONE OF THE THINGS THAT I THINK, THINKING
24 THROUGH THIS, IS JUST LIKE IN THE REVIEW OF THE
25 SCIENCE, THERE'S NOT GOING TO BE UNIFORMITY IN HOW

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1 IT'S INTERPRETED. SIMILARLY, THE STRENGTH OF THE
2 DEI PLAN, THERE IS GOING TO BE VARIABILITY. IT
3 DOESN'T MEAN THAT THE SYSTEM IS FLAWED. IT JUST
4 MEANS THAT THERE ARE DIFFERENT PERSPECTIVES, AND
5 IT'S A JUDGMENT CALL BASED ON WHO'S SCORING IT.
6 EVEN WITH A RUBRIC, THEY MAY VIEW ASPECTS OR
7 ELEMENTS THAT ARE IN THE RUBRIC MORE IMPORTANT FROM
8 THEIR STANDPOINT. WE NEED DIVERSITY IN OUR BOARD
9 MEMBERS AND DIVERSITY IN OUR REVIEWERS AS WELL,
10 RIGHT. SO I DON'T THINK THERE'S ANYTHING
11 FUNDAMENTALLY WRONG WITH HAVING DISPARATE SCORES.

12 I THINK WHERE IT'S MORE IMPORTANT IS THAT
13 WE HAVE THE OPPORTUNITY FOR DISCUSSION BECAUSE THIS
14 IS A PROGRAMMATIC DISCUSSION AND A WAY TO BRING THE
15 CONVERSATION SO THAT WHEN THERE ARE THESE
16 DISPARITIES AND SCORES, THAT THERE IS AN OPPORTUNITY
17 TO DETERMINE WHY THAT DISPARITY AND PULL OUT OF
18 THERE PROBABLY THE MOST IMPORTANT THING. I THINK
19 ACTUALLY THOSE ARE THE MOST -- I THINK THAT MIGHT BE
20 EVEN MORE VALUABLE THAN ANYTHING ELSE TO DETERMINE
21 WHAT THAT IS. SO THAT'S POINT ONE.

22 POINT 2 IS I THINK THAT, FIRST OF ALL, I'M
23 PROUD TO BE PART OF AN ORGANIZATION THAT IS TRYING
24 TO LEAD THE CHANGE WE WANT TO SEE. HOWEVER, IN THE
25 COURSE OF DOING THAT, WE KNOW IT'S NOT A PERFECT

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1 SCIENCE. AND THE ONLY WAY THAT WE KNOW WE'RE GOING
2 TO MAKE PROGRESS IS TO DETERMINE HOW WE ARE DOING
3 AGAINST INTENDED OUTCOMES. SO ANOTHER THING THAT I
4 THINK WE NEED TO DRIVE AT IS WHAT DOES SUCCESS LOOK
5 LIKE IN TERMS OF A DEI PLAN? WHAT DOES THE BOARD
6 THINK SUCCESS LOOKS LIKE WHEN WE ARE DRIVING THESE
7 REQUIREMENTS FOR OUR GRANTEES IN TERMS OF TEAM
8 DIVERSITY AS WELL AS INCORPORATING DEI INTO THEIR
9 SCIENTIFIC PLAN ITSELF?

10 I THINK THOSE ARE TWO THINGS THAT WE STILL
11 HAVE TO DO, AND I THINK IT'S AN IMPORTANT THING WE
12 NEED TO DO. AND IT'S NOT JUST THAT WE'RE THINKING
13 ABOUT IT. I THINK WE NEED TO ACTUALLY DO SOMETHING
14 ABOUT IT. SO WE NEED -- I THINK AT SOME POINT WE
15 NEED TO START PUTTING SOME STAKES IN THE GROUND THAT
16 ARE APPROPRIATE, THAT ARE WITHIN THE LEGAL
17 BOUNDARIES WE CAN POINT TO IN TERMS OF OUTCOME
18 MEASURES. AND THAT'S WHAT WE NEED TO DO. HOW DO WE
19 KNOW WE'RE SUCCEEDING UNLESS WE LOOK AT THINGS THAT
20 WE CAN MEASURE? THAT'S, I THINK, THE SECOND PIECE
21 OF IT.

22 CHAIRMAN THOMAS: THANK YOU, MARIA. ANY
23 OTHER COMMENTS OR QUESTIONS?

24 MS. BONNEVILLE: ART HAS HIS HAND RAISED.

25 MR. TORRES: YES. THIS IS NOT A NEW ISSUE

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1 TO ME GIVEN MY CONSTANT BICKERING WITH WARD CONNERLY
2 OVER THE YEARS ON PROP 209. WE FAILED WITH
3 PROPOSITION 16 ON THE BALLOT IN NOVEMBER TO
4 CHALLENGE 209. SO WE ARE BACK TO WHERE WE ARE
5 BASICALLY SKIPPING ALONG A VERY FINE LINE. AND WE
6 ARE DOING THAT AT THE UNIVERSITY OF CALIFORNIA AND
7 ITS REGENTS TO DEAL WITH ADMISSION POLICIES, AGAIN,
8 WALKING A TIGHT ROPE ON THE ISSUE OF PROP 209 AND
9 NOT VIOLATING THAT AND STILL TRYING TO MAINTAIN A
10 SENSE OF INTEGRITY FOR OUR DIVERSE COMMUNITY IN
11 CALIFORNIA.

12 WHAT BRINGS IT MORE TO THE FOREFRONT NOW
13 IS A CASE DECIDED OCTOBER 18TH BY A FEDERAL COURT
14 JUDGE IN NORTH CAROLINA. IT WAS THE UNIVERSITY OF
15 NORTH CAROLINA AT CHAPEL HILL THAT WAS SUED BY A
16 GROUP OF ASIAN AND WHITE STUDENTS CLAIMING THAT RACE
17 SHOULD NOT BE THE BASIS FOR ADMISSION INTO THE
18 UNIVERSITY. THAT GROUP LOST THAT CASE. SO NOW THE
19 ASSOCIATION IS GOING TO APPEAL A HARVARD SIMILAR
20 CASE AND THIS SOUTH CAROLINA CASE TO THE SUPREME
21 COURT. GIVEN THE MAKEUP OF THE COURT, IT PROBABLY
22 WILL AFFIRM THE STUDENTS' APPEAL AND NOT CONTINUE TO
23 SUPPORT THE UNIVERSITY OF NORTH CAROLINA OR HARVARD
24 UNIVERSITY.

25 SO WHEN WE DEAL WITH DIVERSITY ISSUES,

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1 JUST LIKE WE'RE DEALING HERE, THE RUBRIC THAT GIL
2 AND STAFF -- THANK YOU AGAIN FOR ALL THE TIME YOU
3 SPENT IN GAINING THE INPUT OF ALL OF US -- IT'S VERY
4 DIFFICULT TO WALK THIS TIGHT ROPE. WE WANT TO
5 CREATE MORE DIVERSE OPPORTUNITIES, YET WE'RE
6 HANDCUFFED BY FOLLOWING THE LAW AS CONSTITUTIONALLY
7 AS WE CAN, NO. 1, AND NO. 2, THE POLITICS OF ALL OF
8 THIS. SO MY OWN REVIEW OF THIS PARTICULAR CASE WAS
9 DEALING WITH THE FACT THAT THE -- CAN I SAY WHO THE
10 APPLICANT WAS?

11 MS. BONNEVILLE: NO, NOT YET.

12 MR. TORRES: THEN MY COMMENTS ARE
13 IRRELEVANT AS TO WHY I VOTED THE WAY I DID. THANK
14 YOU.

15 CHAIRMAN THOMAS: DAVID.

16 MS. BONNEVILLE: DEBORAH WAS NEXT, J.T.

17 CHAIRMAN THOMAS: OH, I'M SORRY. DEBORAH.

18 DR. DEAS: THANK YOU. WELL, I REALLY
19 THINK THAT WE HAVE A GREAT OPPORTUNITY HERE TO LEAD;
20 AND TO LEAD AS AN INSTITUTION THAT ASKS US TO BE
21 GOOD STEWARDS OF THEIR VOTES. AND WHEN WE DISCUSSED
22 THIS AT THE SCIENCE COMMITTEE, WE SPECIFICALLY
23 TALKED ABOUT WHAT HAPPENS IF AN APPLICATION HAS A
24 TERRIBLE DEI SCORE. AND AS I RECALL, WE DIDN'T
25 DECIDE THAT WE WOULD REJECT THAT APPLICATION;

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1 HOWEVER, WE WOULD NOT FUND IT RIGHT THEN, BUT WE
2 WOULD SEND IT BACK, LETTING THE APPLICANT KNOW WHAT
3 NEEDED TO BE ADDRESSED, AND THEY COULD SEND THE
4 APPLICATION BACK.

5 WITH SOME DEI ISSUES, WE CANNOT BE
6 IMMOBILIZED BY FEAR OF LAWS AND WHAT MIGHT HAPPEN.
7 WE HAVE TO DO WHAT WE FEEL IS RIGHT BY THE CITIZENS
8 OF THE STATE OF CALIFORNIA. AND IF WE'RE GOING TO
9 ADVANCE OR MOVE THE NEEDLE, WE MUST BE INTENTIONAL.
10 WE HAVE TO HAVE THAT INTENTIONALITY AND REALLY FOCUS
11 ON IT.

12 SO WHAT I WOULD SUGGEST, I DON'T KNOW
13 WHETHER THIS APPLICATION WAS A TERRIBLE ONE AS IT
14 RELATES TO THE DEI. I RECALL SEEING A SCORE, I
15 THINK, IT WAS 8 FOR THE OVERALL, BUT THERE WERE
16 DISPARITIES. I DON'T KNOW IF MAYBE TWO PEOPLE SAID
17 IT WAS TERRIBLE. BUT PERHAPS WE COULD LOOK AT A
18 SITUATION WHEN WE HAVE DISPARITIES IN THE VOTE ON
19 THE DEI AND PUSH THAT UP TO ANOTHER SUBCOMMITTEE TO
20 REVIEW THAT AND MAKE RECOMMENDATIONS BACK AS TO
21 WHETHER THIS APPLICATION WARRANTS RETURN WITH
22 FURTHER REVISION OR WORK ON THE DEI PORTION OF THE
23 APPLICATION.

24 MS. BONNEVILLE: DAVID, YOU WERE NEXT.

25 CHAIRMAN THOMAS: I WOULD THINK, JUST IN

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1 RESPONSE TO DEBORAH, I THINK THESE ARE EXCELLENT
2 SUGGESTIONS. I THINK THAT IS SOMETHING THAT NEEDS
3 SORT OF FURTHER THOUGHT AND DISCUSSION TO BRING BACK
4 DOWN THE ROAD HERE TO ADDRESS THESE ISSUES WHICH ARE
5 VERY IMPORTANT. SO THANK YOU. DAVID.

6 DR. HIGGINS: IN THAT CONTEXT, IF YOU
7 DON'T WANT ME TO SPEAK, THAT'S FINE. WE CAN MOVE
8 ON.

9 CHAIRMAN THOMAS: NO. NO. PLEASE, GO
10 AHEAD.

11 DR. HIGGINS: IT'S JUST TO MAKE A COUPLE
12 OF POINTS. ONE IS THAT THERE WERE NO CLEAR AND
13 WELL-THOUGHT OUT AND WELL-WRITTEN INSTRUCTIONS IN
14 THE RFA FOR DEI. IT'S NOT COMPLETELY ABSENT, BUT WE
15 ARE ASKING THE APPLICANTS TO DO SOMETHING THEY'VE
16 NEVER DONE BEFORE OR IN SOME CASES NEVER EVEN SEEN
17 BEFORE. I'VE NOW READ A DOZEN GRANT PROPOSALS THAT
18 INCLUDE DEI SCORES, BUT I HAVEN'T READ HUNDREDS OF
19 DOZENS, WHICH MOST GWG MEMBERS HAVE.

20 SO THE PURPOSE OF ME MAKING THOSE TWO
21 POINTS IS LET'S BACK OFF A LITTLE BIT. I THINK THIS
22 IS WHAT YOU JUST HEARD FROM THE PREVIOUS SPEAKER.
23 BACK OFF A LITTLE BIT ON THE BAR, WHERE WE ARE
24 SETTING THE BAR. WE'RE GOING TO DO THAT. I THINK
25 WE'RE GOING TO GET THERE, BUT WE HAVEN'T GOTTEN

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1 THERE FOR A NUMBER OF TECHNICAL REASONS, NOT BECAUSE
2 WE DON'T BELIEVE IN THE PHILOSOPHICAL ISSUE AT HAND
3 HERE.

4 I THINK WHERE WE'RE GOING TO WIN, THIS WAS
5 SAID AS WELL, I THINK YSABEL SAID THIS, TRAINING.
6 THE OPPORTUNITY TO HAVE CIRM-DRIVEN TRAINING FOR
7 THESE GRANT REVIEWERS SO THAT WE CAN WALK ON ART'S
8 EDGE, IF YOU WILL. HE WOULD APPRECIATE THAT, I'M
9 SURE.

10 AND THE BIGGEST POINT I WANT TO MAKE, AND
11 THIS IS OBVIOUS, BUT THIS IS NOT SCIENCE. IN A
12 SENSE THE SCIENCE REVIEW OF AN APPLICATION IS
13 SCIENCE. THE DEI ASPECT IS NOT. IT REMINDS ME --
14 I'M SORRY I CAN'T GET THIS OUT OF MY HEAD. IT
15 REMINDS ME OF SOMEBODY WHO DEFINED PORNOGRAPHY, NOT
16 KNOWING WHAT IT REALLY IS, BUT KNEW IT WHEN HE SAW
17 IT. THAT APPLIES TO YOU SORT OF KNOW SOMEBODY IS
18 KIND OF B.S.'ING ON THEIR DEI COMMITMENT, BUT IT'S
19 NOT QUANTITATIVE. IT'S QUALITATIVE. AND THAT'S
20 VERY DIFFERENT THAN THE SCIENCE PART.

21 SO I THINK WE ARE PUSHING THIS THE RIGHT
22 WAY. WE'VE GOT TWO DIFFERENT EXPERTISE ON THE
23 COMMITTEE. WE'VE GOT PEOPLE WHO UNDERSTAND
24 PATIENTS, AND WE'VE GOT PEOPLE WHO UNDERSTAND THE
25 SCIENCE MUCH BETTER. I THINK WE SHOULD FOLLOW THE

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1 LEAD THAT HAS ALREADY BEEN SET OUT THERE BY GIL .
2 AND I THINK I WILL STOP THERE EXCEPT TO SAY THAT I
3 THINK WE ARE GOOD ENOUGH NOW TO BE INCORPORATING DEI
4 SCORES. WE'RE NOT AS GOOD AS WE CAN BE TO SATISFY
5 EVERYONE. IT'S BEEN VERY DIFFICULT FOR ME. THAT'S
6 ENOUGH SAID.

7 CHAIRMAN THOMAS: THANK YOU, DAVID.
8 YSABEL .

9 MS. DURON: THANK YOU, MR. CHAIR. GOING
10 BACK TO DAVID'S POINT ABOUT THE LESS THAN CLEAR RFA,
11 THAT'S WHERE I PROPOSED WE STARTED LIKE TWO YEARS
12 AGO BECAUSE I THINK THAT IF WE LAY OUT VERY CLEARLY
13 WHAT IS EXPECTED OF THEM FROM THE GIT-GO, INCLUDING
14 PERHAPS AN ADDITIONAL TEMPLATE FOR WHAT A GOOD DEI
15 PLAN IS EXPECTED, I THINK THAT WE CAN GET TO A POINT
16 WHERE WE ARE EDUCATING THE SCIENTISTS WHO DON'T
17 NECESSARILY DO THIS OUT OF INTENTION TO NOT INCLUDE,
18 BUT WHO HAVE NEVER BEEN HELD ACCOUNTABLE FOR NOT
19 INCLUDING OR FOR NOT TRYING EVEN AT THAT.

20 SO I THINK WE NEED TO BUILD IN SOME
21 ACCOUNTABILITY MEASURES OR MILESTONES ALONG THE WAY
22 AS WELL BECAUSE I AM ALL ABOUT SCIENCE. AND EVEN
23 THIS PROJECT, I SAID, OH, THIS WOULD HELP THE LATINO
24 COMMUNITY A LOT. I'M NOT AGAINST GREAT SCIENCE.
25 BUT TO ME DEI IS NOT EVEN ABOUT POLITICS. DEI IS

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1 ABOUT GOOD MEDICINE. ULTIMATELY WHEN WE GET THERE,
2 EVERYBODY GAINS. THIS WILL IMPACT ALL OF US AT SOME
3 POINT IN TIME DOWN THE ROAD. I'M NOT JUST TALKING
4 ABOUT STEM CELL. I'M TALKING ABOUT RESEARCH IN
5 GENERAL.

6 I'VE SEEN MANY RESEARCH PAPERS OUT THERE
7 THAT WERE WRITTEN TEN YEARS AGO AND 15 YEARS AGO
8 ABOUT ENGAGEMENT OF COMMUNITIES OF COLOR. AND
9 NOBODY LISTENED. SO HERE WE ARE AGAIN. YOU'RE
10 RIGHT, ART. SO THOSE WHO DON'T KNOW HISTORY ARE
11 DOOMED TO REPEAT IT. I'M JUST HOPING THAT THIS TIME
12 WITH INTENTION AND ALL OF THESE GREAT MINDS AT THE
13 TABLE WE'RE GOING TO GET IT RIGHT, AS RIGHT AS WE
14 CAN GET IT, WITHIN ITS LIMITATIONS.

15 SO I APPRECIATE, DEBORAH. I THINK YOUR
16 IDEAS ARE EXCELLENT AS WELL. I DO HOPE WE DO CREATE
17 A TEMPLATE, WE DO GO BACK AND LOOK AT THE RFA'S OR
18 RPA'S OR WHATEVER THEY'RE CALLED THESE DAYS AND THAT
19 WE START RIGHT THERE. AND I'M VERY WILLING TO
20 ENGAGE WITH THOSE ON WHAT THAT LOOKS LIKE.

21 I SIT ON THE INSTITUTIONAL REVIEW BOARD
22 FOR THE ALL OF US PROGRAM. I WAS THERE FROM THE
23 GIT-GO. AND THE FIRST THING I DEMANDED WAS THAT
24 THEY HAVE BASICALLY A DIVERSION AND INCLUSION PLAN.
25 AS A RESULT, WE'VE SEEN MUCH MORE UPTAKE IN GENETIC

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1 INCLUSION OF COMMUNITIES OF COLOR: 17 PERCENT
2 LATINO, 20 SOME PERCENT AFRICAN AMERICAN. SO THERE
3 IS AN OPPORTUNITY BOTTOM LINE TO MAKE RESEARCHERS
4 LISTEN AND TO CHANGE THE DYNAMIC SO THAT WE'RE GOING
5 TO GET CLOSER TO WHERE WE WANT. AND THAT'S GOOD
6 MEDICINE FOR EVERYBODY AND GOOD SCIENCE FOR
7 EVERYBODY. THANK YOU.

8 CHAIRMAN THOMAS: THANK YOU, YSABEL. AL.

9 MR. ROWLETT: WANTED TO MAKE ONE PROCESS
10 COMMENT. AND, FIRST, REGARDING THE RUBRIC THAT IS
11 CURRENTLY IN PLACE, IT IS A WORK IN PROGRESS. AND
12 CERTAINLY I CONTINUE TO MAKE RECOMMENDATIONS TO GIL
13 AND TO DR. MILLAN REGARDING ITS UTILITY. BUT THE
14 PROCESS COMMENT IS REGARDING MY EXPERIENCE OF BEING
15 A REVIEWER, PATIENT ADVOCATE, PRIOR TO DEI AND NOW
16 POST DEI. AND I WILL TELL YOU, WITHOUT QUESTION, I
17 BELIEVE THAT I HAVE FAR MORE INFLUENCE ON THE
18 OUTCOME AND CERTAINLY OF ONE APPLICATION OF NOTE
19 WHERE MY DEI SCORE WAS LOW AND IT DID INFLUENCE THE
20 OUTCOME AND THAT WASN'T FUNDED. SO, AGAIN, I WANT
21 FOLKS TO APPRECIATE THAT, FROM THE PERSPECTIVE OF
22 ONE, DEI IS MATTERING, AND IT IS MATTERING MORE. IT
23 IS NOT, AS YSABEL SO ELOQUENTLY STATED, IT IS NOT
24 MATTERING TO THE DEGREE THAT IT WILL ULTIMATELY.
25 AND WHEN WE ARRIVE AT A FINAL PRODUCT, I AM VERY

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1 COMMITTED TO MAKE SURE THAT IT IS THE BEST
2 REPRESENTATION FOR ALL THE INDIVIDUALS THAT RESIDE
3 IN OUR GREAT STATE AND AROUND THE WORLD. SO...

4 DR. MILLAN: MR. CHAIRMAN, MAY I MAKE A
5 COMMENT?

6 CHAIRMAN THOMAS: YES.

7 DR. MILLAN: SO I WANTED TO PROPOSE THAT
8 THE CIRM TEAM WORK WITH OUR BOARD MEMBERS IN
9 CREATING A PROCESS BECAUSE I THINK THE PROCESS IS
10 GOING TO BE AN IMPORTANT PART OF THIS. DR. DEAS,
11 DEAN DEAS, HAD BROUGHT UP A VERY IMPORTANT PART OF
12 THE PROCESS, WHICH IS FEEDBACK TO OUR APPLICANTS
13 FROM THE BOARD WHO ARE LOOKING AT THIS
14 PROGRAMMATICALLY. THAT'S NO. 1.

15 AND NO. 2, I REALLY WANT TO EMPHASIZE THAT
16 WHAT WE'RE TRYING TO DO HERE IS GOING TO TRANSFORM
17 SCIENTIFIC CULTURE. IT WILL HAVE IMPACT IN SOCIETY,
18 BUT IT'S NOT GOING TO BE SOMETHING THAT THERE'S A
19 RIGHT ANSWER TO IN TERMS OF AN APPROACH. SO IT WILL
20 HAVE TO BE A DYNAMIC AND INTERACTIVE PROCESS. SO
21 WHATEVER PROCESS WE COME UP WITH FOR OUR GRANTMAKING
22 REVIEW AND BOARD EVALUATION OF PROGRAMS NEEDS TO
23 TAKE THAT INTO ACCOUNT, AND WE NEED TO ACKNOWLEDGE
24 THAT IT WILL BE AN ITERATIVE AND A LEARNING PROCESS,
25 AND WE WILL NOT NECESSARILY HAVE DEFINED PARAMETERS

1 THAT WE CAN RELY ON FROM THE START JUST BECAUSE OF
2 THE NATURE OF THE SCIENCE THAT WE ARE FUNDING.

3 IF YOU THINK ABOUT CLINICAL TRIALS AND THE
4 TYPE OF TRIALS THAT WE FUND, THEY WILL IMPACT
5 DIFFERENT COMMUNITIES DIFFERENTLY IN TERMS OF
6 DISEASE INCIDENCE OR RELEVANCE, NO. 1. NO. 2,
7 THERE'S SOME PRACTICAL ASPECTS OF HOW CLINICAL
8 TRIALS ARE DESIGNED --

9 (INTERRUPTION IN PROCEEDINGS.)

10 MS. MILLAN: MARIA HIT THE MUTE BUTTON.

11 I KIND OF LOST MY THOUGHT, BUT THERE ARE
12 SOME ASPECTS OF CLINICAL TRIAL AND PRINCIPLES AND
13 REGULATORY REQUIREMENTS AND OTHER THINGS THAT GO
14 INTO DEVELOPING A PROGRAM THAT WILL PRECLUDE IN SOME
15 PHASES OF SCIENTIFIC DEVELOPMENT THE MOST IDEAL
16 REPRESENTATION, FOR INSTANCE, AT THAT POINT. THAT
17 DOESN'T MEAN THAT IT SHOULD NOT BE CONSIDERED IN
18 TERMS OF HOW IT'S CONSIDERED AS A WHOLE. IT JUST
19 MEANS THAT WE DO NOT WANT TO SET STANDARDS THAT
20 CAN'T BE MET, RIGHT, OR STANDARDS THAT ALL OF A
21 SUDDEN IMPACT THE WHOLE MACHINERY IN TERMS OF
22 DELIVERING ON THE MISSION TO ADVANCE THE SCIENCE AND
23 DELIVER THIS TO THE PATIENTS AT LARGE, INCLUDING ALL
24 THE COMMUNITIES.

25 SO I KNOW THE BOARD KNOWS THIS, BUT I WANT

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1 YOU TO KNOW THAT WE ARE VERY, VERY MUCH INVESTED IN
2 FIGURING OUT A WAY TO WORK WITH THE BOARD AND TO
3 BRING PROPOSALS TO YOU SO THAT WE CAN BALANCE ALL
4 THESE ELEMENTS AS WE PROPOSE SOME PROCESS FORMATS.
5 BUT I WANT TO ALSO REQUEST TO THE BOARD THAT YOU DO
6 INCORPORATE INTO YOUR EVALUATION OF THESE PROGRAMS A
7 SPECIFIC PROGRAMMATIC DISCUSSION OF DEI WHEN YOU
8 LOOK AT THESE APPLICATIONS BECAUSE THERE'S A
9 SCIENTIFIC RECOMMENDATION AND THERE'S A DEI
10 RECOMMENDATION. AND I AGREE WITH BOARD MEMBER
11 ROWLETT, THAT IT IS IMPACTFUL, BUT I THINK IT WILL
12 HAVE MORE IMPACT IF THE BOARD HAS A CHANCE TO LOOK
13 AT IT PROGRAMMATICALLY AT THE SAME TIME THEY'RE
14 EVALUATING FUNDING BASED ON SCIENTIFIC SCORE.
15 THAT'S ALL I WANTED TO BRING UP AT THIS TIME.

16 CHAIRMAN THOMAS: THANK YOU, MARIA. ANY
17 OTHER COMMENTS FROM MEMBERS OF THE BOARD? ANY
18 COMMENTS FROM MEMBERS OF THE PUBLIC? HEARING NONE,
19 MARIA, PLEASE CALL THE ROLL.

20 MS. BONNEVILLE: DAN BERNAL.

21 MR. BERNAL: AYE.

22 MS. BONNEVILLE: ANNE-MARIE DULIEGE.

23 DR. DULIEGE: YES.

24 MS. BONNEVILLE: LE ONDRA CLARK HARVEY.

25 DR. HARVEY: YES.

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1 MS. BONNEVILLE: YSABEL DURON.
2 MS. DURON: YES.
3 MS. BONNEVILLE: MARK FISCHER-COLBRIE.
4 DR. FISCHER-COLBRIE: YES.
5 MS. BONNEVILLE: FRED FISHER.
6 DR. FISHER: YES.
7 MS. BONNEVILLE: ELENA FLOWERS.
8 DR. FLOWERS: YES.
9 MS. BONNEVILLE: DAVID HIGGINS.
10 DR. HIGGINS: YES.
11 MS. BONNEVILLE: STEPHEN JUELSGAARD.
12 MR. JUELSGAARD: YES.
13 MS. BONNEVILLE: RICH LAJARA.
14 MR. LAJARA: YES.
15 MS. BONNEVILLE: DAVE MARTIN.
16 DR. MARTIN: YES.
17 MS. BONNEVILLE: CHRISTINE MIASKOWSKI.
18 DR. MIASKOWSKI: YES.
19 MS. BONNEVILLE: LAUREN MILLER-ROGEN.
20 MS. MILLER-ROGEN: YES.
21 MS. BONNEVILLE: ADRIANA PADILLA.
22 DR. PADILLA: YES.
23 MS. BONNEVILLE: JOE PANETTA. AL ROWLETT.
24 MR. ROWLETT: YES.
25 MS. BONNEVILLE: JONATHAN THOMAS.

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1 CHAIRMAN THOMAS: YES.

2 MS. BONNEVILLE: ART TORRES.

3 MR. TORRES: AYE.

4 MS. BONNEVILLE: THE MOTION CARRIES.

5 CHAIRMAN THOMAS: THANK YOU, MARIA. THAT
6 CONCLUDES THE MEETING OF THE APPLICATION REVIEW
7 SUBCOMMITTEE.

8 ON TO ACTION ITEM NO. 10, CONSIDERATION OF
9 REQUEST TO WAIVE 180-DAY WAITING PERIOD TO HIRE
10 RETIRED ANNUITANTS TO PERFORM DUTIES. KEVIN MARKS
11 WILL BE PRESENTING.

12 MR. MARKS: THANK YOU, MR. CHAIRMAN. AND
13 I'LL TRY TO MAKE THIS BRIEF. THE MEMORANDUM
14 REQUESTING THE WAIVER OF THE 180-WAITING PERIOD FOR
15 THE RETIREE ANNUITANT WAS UPLOADED AND AVAILABLE FOR
16 PUBLIC VIEW.

17 IN SUMMARY, AS THE BOARD IS WELL AWARE,
18 RETIRED ANNUITANTS ARE FOLKS THAT HAVE RETIRED FROM
19 THE STATE AGENCY, BUT THEY ARE SUBSEQUENTLY
20 APPOINTED FOR A MISSION-CRITICAL ACTIVITY TO THE
21 AGENCY. THESE APPOINTMENTS ARE USUALLY TEMPORARY IN
22 NATURE AND USED TO FILL A CRITICAL NEED. TYPICALLY
23 RETIRED ANNUITANTS COULD NOT BE APPOINTED TO THESE
24 POSITIONS IF THEY'RE WITHIN 180 DAYS OF THEIR
25 RETIREE DATE WITH THE EXCEPTION COMING FROM THIS

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1 PARTICULAR SITUATION, IF THE BOARD APPROVES THE
2 APPOINTMENT OF A RETIREE ANNUITANT.

3 SPECIFICALLY HERE INGRID CARAS IS
4 CURRENTLY A DIRECTOR IN THE THERAPEUTICS DEVELOPMENT
5 ORGANIZATION OF CIRM. SHE IS DUE TO RETIRE AT THE
6 END OF OCTOBER. BECAUSE WE HAVE AN IMMEDIATE NEED
7 TO CONTINUE HER ACTIVITIES FOR THE PERIOD OF TIME
8 AND ALSO WHILE WE LOOK TO HIRE NEW SENIOR SCIENCE
9 OFFICERS WHO WILL BE REPLACING AND TAKING OVER HER
10 DUTIES, WE ARE REQUESTING THAT THE BOARD APPROVE A
11 WAIVER OF THE 180-DAY PERIOD FOR DR. CARAS TO BEGIN
12 A RETIRED ANNUITANT PERIOD BEGINNING ON NOVEMBER
13 1ST. THIS HIRE WILL BE TEMPORARY IN NATURE AND WILL
14 LAST ONLY UNTIL JUNE OF NEXT YEAR.

15 AND SO AS BASICALLY SUMMARIZED IN THE
16 MEMO, WE REQUEST THIS TO ENSURE THAT WE HAVE
17 CONTINUITY OF SERVICE IN THE ORGANIZATION AS WE LOOK
18 TO FILL HER ROLE MOVING FORWARD.

19 CHAIRMAN THOMAS: THANK YOU, KEVIN. DO WE
20 HEAR A MOTION TO APPROVE?

21 DR. MARTIN: SO MOVED.

22 MR. TORRES: SECOND.

23 CHAIRMAN THOMAS: MOVED BY DAVE. I DIDN'T
24 CATCH THE SECOND THERE. ART. THANK YOU, ART.

25 COMMENTS OR QUESTIONS FROM MEMBERS OF THE

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1 BOARD? ANY PUBLIC COMMENT? HEARING NONE, MARIA,
2 WILL YOU PLEASE CALL THE ROLL.

3 MS. BONNEVILLE: DAN BERNAL. GEORGE
4 BLUMENTHAL. LINDA BOXER.

5 DR. BOXER: YES.

6 MS. BONNEVILLE: MICHAEL BOTCHAN. ALLISON
7 BRASHEAR.

8 DR. BRASHEAR: YES.

9 MS. BONNEVILLE: LE ONDRA CLARK HARVEY.
10 DEBORAH DEAS.

11 DR. CLARK HARVEY: YES.

12 DR. DEAS: YES.

13 MS. BONNEVILLE: WAS THAT LE ONDRA? THANK
14 YOU.

15 ANNE-MARIE DULIEGE.

16 DR. DULIEGE: YES.

17 MS. BONNEVILLE: YSABEL DURON.

18 MS. DURON: YES.

19 MS. BONNEVILLE: MARK FISCHER-COLBRIE.

20 DR. FISCHER-COLBRIE: YES.

21 MS. BONNEVILLE: LEON FINE.

22 DR. FINE: YES.

23 MS. BONNEVILLE: FRED FISHER.

24 DR. FISHER: YES.

25 MS. BONNEVILLE: ELENA FLOWERS.

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1 DR. FLOWERS: YES.
2 MS. BONNEVILLE: JUDY GASSON.
3 DR. GASSON: YES.
4 MS. BONNEVILLE: LARRY GOLDSTEIN.
5 DR. GOLDSTEIN: YES.
6 MS. BONNEVILLE: DAVID HIGGINS.
7 DR. HIGGINS: YES.
8 MS. BONNEVILLE: STEPHEN JUELSGAARD.
9 MR. JUELSGAARD: YES.
10 MS. BONNEVILLE: RICH LAJARA.
11 MR. LAJARA: YES.
12 MS. BONNEVILLE: PAT LEVITT.
13 DR. LEVITT: YES.
14 MS. BONNEVILLE: LINDA MALKAS.
15 DR. MALKAS: YES.
16 MS. BONNEVILLE: DAVE MARTIN.
17 DR. MARTIN: YES.
18 MS. BONNEVILLE: CHRISTINE MIASKOWSKI.
19 DR. MIASKOWSKI: YES.
20 MS. BONNEVILLE: LAUREN MILLER-ROGEN.
21 MS. MILLER-ROGEN: YES.
22 MS. BONNEVILLE: ADRIANA PADILLA.
23 DR. PADILLA: YES.
24 MS. BONNEVILLE: AL ROWLETT.
25 MR. ROWLETT: YES.

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1 MS. BONNEVILLE: MICHAEL STAMOS.

2 DR. STAMOS: YES.

3 MS. BONNEVILLE: JONATHAN THOMAS.

4 CHAIRMAN THOMAS: YES.

5 MS. BONNEVILLE: ART TORRES.

6 MR. TORRES: AYE.

7 MS. BONNEVILLE: KRISTINA VUORI.

8 DR. VUORI: YES.

9 MS. BONNEVILLE: KEITH YAMAMOTO.

10 DR. YAMAMOTO: YES.

11 MS. BONNEVILLE: THANK YOU. THE MOTION
12 CARRIES.

13 CHAIRMAN THOMAS: THANK YOU. ITEM NO. 11,
14 CONSIDERATION OF REVISIONS TO EMPLOYEE POSITIONS AND
15 DISCLOSURE OBLIGATIONS IN CIRM CONFLICT OF INTEREST
16 CODE SECTION 10000. BEN WILL BE PRESENTING.

17 MR. HUANG: HELLO, BOARD MEMBERS. I'M
18 PRESENTING THE PROPOSED REVISIONS TO SECTION 10000
19 OF THE CIRM REGULATIONS COVERING CONFLICT OF
20 INTEREST FOR CIRM STAFF AND ICOC BOARD MEMBERS.

21 THESE UPDATES ARE REQUIRED BY THE
22 CALIFORNIA FAIR POLITICAL PRACTICES COMMISSION AND
23 WILL BE SUBMITTED TO THE FPPC FOR POTENTIAL COMMENTS
24 AND APPROVAL. AS YOU CAN SEE HERE ON THE FIRST
25 PAGE, ARE THERE NO CHANGES IN THE MAIN TEXT OF THIS

1 SECTION.

2 NEXT PAGE. ALL OF THE EDITS ARE IN THIS
3 APPENDIX A, WHICH CONTAINS THE EMPLOYEE TITLES AND
4 THEIR ASSOCIATED DISCLOSURE CATEGORIES. THE
5 DISCLOSURE CATEGORY IMPACTS THE ANNUAL FORM 700S
6 STATEMENT OF ECONOMIC INTEREST SUBMISSIONS THAT ALL
7 BOARD MEMBERS AND CIRM EMPLOYEES SUBMIT.

8 DOUG, CAN YOU ADVANCE TWO PAGES? THERE
9 HAS BEEN AN EXERCISE AT CIRM TO SIMPLIFY THE
10 EMPLOYEE TITLES. THIS IS REFLECTED IN THIS APPENDIX
11 A WITH THE DELETION OF THE PRIOR TITLES, THE TWO
12 PRIOR PAGES OF REDLINE DELETION, AND THE INSERTION
13 OF NEW TITLES UNDER REORGANIZED DEPARTMENTS.

14 THE ASSIGNMENT OF DISCLOSURE CATEGORIES IS
15 CONSISTENT WITH PRIOR CIRM VERSIONS. FOR EXAMPLE,
16 THE GOVERNING BOARD AND SENIOR LEADERSHIP WILL HAVE
17 THE BROADER REPORTING REQUIREMENTS OF DISCLOSURE
18 CATEGORY 1. SCIENCE OFFICERS AND GRANT OFFICERS ARE
19 TYPICALLY IN DISCLOSURE CATEGORY 2, AND STAFF AND,
20 FOR EXAMPLE, HR AND I.T., ARE TYPICALLY ASSIGNED TO
21 CATEGORIES 3 AND 4, WHICH HAVE LOWER DISCLOSURE
22 REQUIREMENTS.

23 DOUG, CAN YOU ADVANCE TO THE APPENDIX B.
24 HERE ARE THE DISCLOSURE CATEGORIES IN APPENDIX B.
25 NO CHANGES WERE MADE. THIS IS, IN FACT, UP TO THE

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1 REQUIREMENTS FOR EACH OF THE EMPLOYEES. THAT'S IT.

2 CHAIRMAN THOMAS: OKAY. DO WE HAVE A
3 MOTION TO APPROVE?

4 MR. TORRES: MOVE IT.

5 CHAIRMAN THOMAS: SECOND?

6 MS. DURON: YES.

7 CHAIRMAN THOMAS: YES. QUESTIONS OR
8 COMMENTS FROM MEMBERS OF THE BOARD?

9 MR. JUELSGAARD: I HAVE A QUESTION, YES.

10 CHAIRMAN THOMAS: MR. JUELSGAARD.

11 MR. JUELSGAARD: SO A FEW HOURS BACK OR IT
12 SEEMS WE REVIEWED THE INTERNAL GOVERNANCE DOCUMENT,
13 AND THERE WAS AN ORG CHART ON THE VERY LAST PAGE.
14 ON THAT ORG CHART THERE WAS A BOX FOR MEDICAL
15 AFFAIRS. THAT'S A DISCUSSION WE HAD IN THE PREVIOUS
16 MEETING. I REALIZE IT HASN'T BEEN STAFFED YET, BUT
17 WHAT'S THE THOUGHT BEHIND ADDING THE MEDICAL AFFAIRS
18 DEPARTMENT TO THIS PARTICULAR DOCUMENT?

19 MR. HUANG: WELL, THESE PROPOSED REVISIONS
20 ARE REQUIRED EVERY TWO YEARS. SO WHEN MEDICAL
21 AFFAIRS IS IMPLEMENTED, WE WILL REVISE THE DOCUMENTS
22 FOR THE NEXT SUBMISSION TO THE FPPC. AND IF MEDICAL
23 AFFAIRS COMES INTO PLACE BEFORE THAT REVISION, WE
24 WILL USE THE PREEXISTING CATEGORIES TO IDENTIFY THE
25 APPROPRIATE DISCLOSURE CATEGORIES FOR THOSE

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1 EMPLOYEES.

2 MR. JUELSGAARD: WAS THERE A PREEXISTING
3 DISCLOSURE CATEGORY FOR MEDICAL AFFAIRS?

4 MR. HUANG: WELL, THE PREEXISTING TITLES.
5 FOR EXAMPLE, SENIOR LEADERSHIP THAT ARE ON THE
6 LEADERSHIP TEAM WILL HAVE A DISCLOSURE CATEGORY OF
7 1. AND IF THERE ARE SCIENCE OFFICERS UNDER MEDICAL
8 AFFAIRS, THEY WILL TYPICALLY HAVE A DISCLOSURE
9 CATEGORY OF A 2 UNLESS AT THAT TIME WE FEEL LIKE THE
10 MEDICAL AFFAIRS IS ENHANCED MORE SO THAN THE CURRENT
11 SCIENCE OFFICERS. AND THEN WE WOULD BUMP THEIR
12 DISCLOSURE CATEGORIES UP. I JUST THINK WE HAVEN'T
13 REALLY CONTEMPLATED THAT AT THIS TIME.

14 DR. JUELSGAARD: GOT IT.

15 CHAIRMAN THOMAS: OTHER COMMENTS FROM
16 MEMBERS OF THE BOARD? ANY COMMENTS FROM MEMBERS OF
17 THE PUBLIC? HEARING NONE, MARIA, PLEASE CALL THE
18 ROLL.

19 MS. BONNEVILLE: DAN BERNAL. GEORGE
20 BLUMENTHAL. LINDA BOXER.

21 DR. BOXER: YES.

22 MS. BONNEVILLE: MICHAEL BOTCHAN.

23 DR. BOTCHAN: AYE.

24 MS. BONNEVILLE: ALLISON BRASHEAR.

25 DR. BRASHEAR: YES.

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1 MS. BONNEVILLE: LE ONDRA CLARK HARVEY.
2 DR. LE ONDRA CLARK HARVEY: YES.
3 MS. BONNEVILLE: DEBORAH DEAS.
4 DR. DEAS: YES.
5 MS. BONNEVILLE: ANNE-MARIE DULIEGE.
6 DR. DULIEGE: YES.
7 MS. BONNEVILLE: YSABEL DURON. SHE'S
8 FROZEN. IF SHE COMES BACK.
9 MARK FISCHER-COLBRIE.
10 DR. FISCHER-COLBRIE: YES.
11 MS. BONNEVILLE: FRED FISHER.
12 DR. FISHER: YES.
13 MS. BONNEVILLE: LEON FINE.
14 DR. FINE: YES.
15 MS. BONNEVILLE: ELENA FLOWERS.
16 DR. FLOWERS: YES.
17 MS. BONNEVILLE: JUDY GASSON.
18 DR. GASSON: YES.
19 MS. BONNEVILLE: LARRY GOLDSTEIN.
20 DR. GOLDSTEIN: YES.
21 MS. DURON: MARIA.
22 MS. BONNEVILLE: DAVID HIGGINS. STEPHEN
23 JUELSGAARD.
24 MR. JUELSGAARD: YES.
25 MS. BONNEVILLE: RICH LAJARA.

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1 MR. LAJARA: YES.
2 MS. BONNEVILLE: PAT LEVITT.
3 DR. LEVITT: YES.
4 MS. BONNEVILLE: LINDA MALKAS.
5 DR. MALKAS: YES.
6 MS. BONNEVILLE: DAVE MARTIN.
7 DR. MARTIN: YES.
8 MS. BONNEVILLE: CHRISTINE MIASKOWSKI.
9 DR. MIASKOWSKI: YES.
10 MS. BONNEVILLE: LAUREN MILLER-ROGEN.
11 MS. MILLER-ROGEN: YES.
12 MS. BONNEVILLE: ADRIANA PADILLA.
13 DR. PADILLA: YES.
14 MS. BONNEVILLE: AL ROWLETT.
15 MR. ROWLETT: YES.
16 MS. BONNEVILLE: MICHAEL STAMOS.
17 DR. STAMOS: YES.
18 MS. BONNEVILLE: JONATHAN THOMAS.
19 CHAIRMAN THOMAS: YES.
20 MS. BONNEVILLE: ART TORRES.
21 MR. TORRES: AYE.
22 MS. BONNEVILLE: KRISTINA VUORI.
23 DR. VUORI: YES.
24 MS. BONNEVILLE: KEITH YAMAMOTO.
25 I'M GOING TO GO BACK TO YSABEL. DID SHE

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1 JOIN?

2 MS. DURON: I'M BACK. I GUESS I HAD
3 DROP-OUT PROBLEMS. YES.

4 MS. BONNEVILLE: THANK YOU. DAVID
5 HIGGINS.

6 DR. YAMAMOTO: KEITH IS A YES AS WELL.

7 MS. BONNEVILLE: THANK YOU, KEITH.

8 AND IS DAVID HIGGINS BACK? I DO NOT SEE
9 HIM. THANK YOU. THE MOTION CARRIES.

10 CHAIRMAN THOMAS: THANK YOU, MARIA. THANK
11 YOU, BEN, FOR ALL YOUR HARD WORK ON THAT MATTER.

12 THAT CONCLUDES THE ACTION ITEMS. WE NOW
13 MOVE TO A PRESENTATION ON THIS YEAR'S PERFORMANCE
14 AUDIT, WHICH COLLEEN ROZILLIS WILL BE GIVING ON
15 BEHALF OF THE MOSS-ADAMS FIRM. COLLEEN.

16 MS. ROZILLIS: THANKS VERY MUCH. HELLO,
17 EVERYONE. THANK YOU FOR HAVING ME. FOR THOSE OF
18 YOU WHO I HAVEN'T MET, I'M COLLEEN ROZILLIS. I'M A
19 DIRECTOR WITH MOSS-ADAMS. I AM HAPPY TO SHARE OUR
20 TRIENNIAL PERFORMANCE AUDIT RESULTS WITH ALL OF YOU.

21 I HAVE A SHORT PRESENTATION AND THEN I'LL
22 OPEN IT UP FOR QUESTIONS. IN A PERFORMANCE AUDIT,
23 THERE ARE TWO MAIN ELEMENTS. WE COVER COMPLIANCE
24 WITH THE MEASURE UNDER WHICH CIRM IS FUNDED AS WELL
25 AS WE LOOK AT PERFORMANCE. SO WE LOOK AT, AS A

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1 PUBLIC AGENCY, OUR EFFICIENCY AND EFFECTIVENESS OF
2 OUR OPERATIONS AND WHETHER WE ARE ACHIEVING THE
3 ECONOMY IN WHICH WE EXPEND PUBLIC FUNDS.

4 THIS PERFORMANCE AUDIT WAS CONDUCTED UNDER
5 GENERALLY ACCEPTED GOVERNMENT AUDIT STANDARDS. OUR
6 PERFORMANCE AUDIT METHODOLOGY HAD FOUR MAIN PHASES.
7 WE CONDUCTED LOTS OF INTERVIEWS AS WE ALWAYS DO WITH
8 STAFF, WITH BOARD MEMBERS, WITH LEADERSHIP ACROSS
9 CIRM. WE REVIEWED LOTS OF DOCUMENTS. WE CONDUCTED
10 PROCESS WALK-THROUGHS AND TESTING, AND WE DID QUITE
11 A BIT OF ANALYSIS AS WELL AS REPORTING. PART OF OUR
12 WORK THAT'S VERY IMPORTANT IS DOING PRELIMINARY
13 FINDINGS AND DRAFT REVIEW AND RECOMMENDATION REVIEW.

14 AS WE HAVE DONE PERFORMANCE AUDITS OF THE
15 AGENCY A NUMBER OF TIMES, YOU WILL NOTE THAT WE
16 REPORT AT THE END OF OUR REPORT THE STATUS OF PRIOR
17 RECOMMENDATIONS. IT'S VERY IMPORTANT TO US THAT OUR
18 RECOMMENDATIONS DON'T SIT ON A SHELF. SO WE WORK
19 CLOSELY WITH STAFF TO MAKE SURE THAT OUR
20 RECOMMENDATIONS ARE IMPLEMENTABLE AND ACHIEVABLE.
21 AND WE DID THAT THROUGH THIS PROCESS AS WELL.

22 AS A REMINDER TO ALL OF YOU, CIRM'S
23 PERFORMANCE AUDITS ARE CONDUCTED EVERY THREE YEARS,
24 AND THIS AUDIT YEAR WAS FISCAL YEAR 19/20. SO WE
25 WERE LOOKING VERY FAR BACK AT A VERY UNIQUE YEAR FOR

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1 CIRM. THIS WAS A WIND-DOWN YEAR. IT WAS THE YEAR
2 OF RENEWAL OF THE MEASURE. SO IT WAS A VERY
3 UNIQUELY CHALLENGING YEAR FOR THE AGENCY.

4 I WANTED TO NOTE OVERALL JUST A REAL THEME
5 OF, WITHIN THOSE CHALLENGES, THAT THE STAFF WAS VERY
6 DEDICATED AND REALLY FLEXIBLE, CONTINUING TO DELIVER
7 ON THE MISSION EVEN WITHIN THE CHALLENGES OF THAT
8 YEAR. WE HAD ELEVEN FINDINGS IN OUR PERFORMANCE
9 AUDIT THIS YEAR. THREE OF THEM WERE FOCUSED ON
10 COMPLIANCE, EIGHT ON EFFICIENCY AND EFFECTIVENESS.
11 WITHIN THOSE FINDINGS I WOULD SAY THERE ARE TWO MAIN
12 THEMES. ONE IS REALLY JUST CONTINUING TO FOCUS ON
13 DOCUMENTATION, MAKING SURE THAT OUR CONTROLS ARE
14 STRONG AND THAT OUR POLICIES ARE STRONG WITHIN THE
15 CONTEXT OF UNDERSTANDING THAT WE HAD REDUCED STAFF,
16 THAT THERE WAS A LOT OF PRESSURE AND UNCERTAINTY
17 WITH THE WIND-DOWN AND COVID AFFECTING THE AGENCY.
18 AND THE SECOND IS TO CONTINUE TO FOCUS ON
19 STRENGTHENING GOVERNANCE AND OPERATIONS TO SUPPORT
20 THE AGENCY, PARTICULARLY LOOKING TO THE FUTURE AS WE
21 CONTINUE TO GROW AND WANTING TO CREATE STABLE
22 OPERATIONS, WHICH I KNOW THAT YOU ALL TALKED ABOUT
23 QUITE A BIT THIS MORNING.

24 SO WHILE OUR JOB IS TO IDENTIFY
25 OPPORTUNITIES FOR IMPROVEMENT, WE ALSO WANT TO NOTE

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1 THAT THERE ARE MANY POSITIVE THINGS IN PLACE AT
2 CIRM, ESPECIALLY DURING A VERY CHALLENGING YEAR. WE
3 HAVE QUITE A FEW IN THIS REPORT. I WANTED TO
4 HIGHLIGHT JUST A COUPLE. ONE WAS THAT, WHILE THERE
5 WAS A TREMENDOUS AMOUNT GOING ON, THERE WAS STILL A
6 REALLY HIGH FOCUS ON GOAL SETTING AND MONITORING
7 THAT PROGRESS, REALLY A FOCUS ON DATA. CIRM REALLY
8 HAD AMBITIOUS GOALS, AND THERE CONTINUES TO BE THAT
9 HIGH LEVEL OF FOCUS ON THOSE GOALS AND REPORTING ON
10 THOSE ON A REGULAR BASIS, AND THAT REALLY KEPT THE
11 STAFF MOTIVATED.

12 YOU ALSO HEARD THIS MORNING ABOUT THE
13 STRATEGIC PLAN WHICH DID START DURING THIS YEAR. SO
14 WHILE THERE WAS A REALLY HIGH LEVEL OF FOCUS ON
15 WIND-DOWN PLANNING, MAKING SURE THAT WE KEPT WITHIN
16 THE BOUNDS OF ECONOMY AND EFFECTIVENESS OF THE
17 ORIGINAL PROPOSITION, THAT PLANNING DID START IN
18 LOOKING TOWARD THE FUTURE. THAT WAS A TREMENDOUS
19 LIFT TO BEING LOOKING AT DURING THAT TIME OF
20 UNCERTAINTY AND TRANSITION. WE DON'T ALWAYS SEE
21 AGENCIES ABLE TO PULL THAT OFF. AND SO WE REALLY
22 COMMEND STAFF AND LEADERSHIP FOR BEING ABLE TO DO
23 THAT.

24 FINALLY, I JUST WANTED TO NOTE THAT THERE
25 WAS A REALLY TREMENDOUS EFFORT AMONG STAFF, THE

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1 ABILITY TO CONTINUE TO COMPLETE A REALLY HIGH LEVEL
2 OF WORK DESPITE THE NATURAL ATTRITION THAT COMES
3 WITH THE WIND-DOWN OF THE AGENCY. AND SO THERE WAS
4 A LOT OF WORK THAT WENT INTO REASSIGNING WORK TO
5 EXISTING STAFF TO MAKE SURE THAT WORK CONTINUED TO
6 BE ACCOMPLISHED DURING THE YEAR EVEN WHILE WE WERE
7 IMPACTED BY COVID GRANT ROUNDS AND CONTINUING TO TRY
8 TO GET FUNDS OUT THE DOOR TO GRANTEES.

9 SO AS I MENTIONED BEFORE, WE HAD THREE
10 COMPLIANCE FINDINGS. TWO WERE RELATED TO EXCEPTIONS
11 FOUND IN THE TESTING. IN BOTH CASES WE RECOMMEND
12 STRENGTHENING DOCUMENTATION PROCESSES AND CONTROLS.
13 THAT'S BASICALLY WHAT BOTH OF THESE ARE ABOUT, JUST
14 MAKING SURE THAT WE'VE GOT ALL OF OUR I'S DOTTED AND
15 T'S CROSSED.

16 OUR TESTING FOUND NO EXCEPTIONS IN LOANS,
17 CONTRACTS, OR INTELLECTUAL PROPERTY. HOWEVER, WE
18 NOTED AN OPPORTUNITY FOR IMPROVEMENT WITH RESPECT TO
19 INTELLECTUAL PROPERTY SPECIFICALLY WITH RESPECT TO
20 TECHNOLOGY DISCLOSURES. IT'S CHALLENGING FOR CIRM
21 TO MONITOR COMPLIANCE WITH TECHNOLOGY DISCLOSURES,
22 AND THIS IS A PROCESS THAT RELIES ON GRANTEES TO BE
23 PROACTIVE AND VOLUNTARILY COMPLY. AND SO IT CAN BE
24 A LOT OF LEGWORK FOR CIRM. AN I.T. CONTROL COULD
25 HELP STREAMLINE THIS PROCESS, ESPECIALLY AS THESE

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1 ARE EXPECTED TO INCREASE OVER TIME.

2 MOVING ON TO EFFICIENCY AND EFFECTIVENESS
3 RECOMMENDATIONS, OUR FIRST CATEGORY IS ALL ABOUT
4 YOU, WHICH IS VERY EXCITING, GOVERNANCE. CIRM HAS
5 BENEFITED FOR MOST OF ITS LIFE FROM A VERY STABLE
6 AND WELL FUNCTIONING BOARD. AND THESE
7 RECOMMENDATIONS, THESE TWO ARE REALLY ABOUT TAKING
8 PROACTIVE STEPS TO KEEP IT THAT WAY.

9 SO THE FIRST IS ABOUT ENSURING THAT WE
10 CAPTURE THE INSTITUTIONAL KNOWLEDGE OF THE DEPARTING
11 ICOC MEMBERS, MAKING SURE THAT WE CONDUCT THAT
12 NECESSARY SUCCESSION PLANNING SO THAT WE CAN MAKE
13 SURE THAT THOSE OF YOU WHO HAVE SPENT A LONG TIME
14 SERVING ON THIS BOARD AND CAPTURING THAT
15 INSTITUTIONAL KNOWLEDGE SO THAT WE CAN SUPPORT THE
16 LEADERSHIP TRANSITION THAT IS CURRENTLY HAPPENING
17 AND THAT WILL BE UPCOMING IN THE NEXT YEAR.

18 AND SECOND, TO PROACTIVELY ENGAGE THE
19 BOARD. BY NATURE THIS IS A LARGE STATEWIDE BOARD,
20 AND SO IT CAN BE CHALLENGING TO MAKE SURE THAT WE
21 REALLY LEVERAGE ALL OF THE TREMENDOUS EXPERTISE AND
22 TALENT IN THIS ORGANIZATION. AND SO WE HAVE SOME
23 RECOMMENDATIONS TO CONTINUE TO LEVERAGE THE
24 ENGAGEMENT THAT WE HEARD REALLY ACROSS THE BOARD
25 FROM INTERVIEWS WAS QUITE HIGH RIGHT NOW, AND SO WE

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1 WANT TO BE ABLE TO CONTINUE TO LEVERAGE THAT.

2 LIKE TECHNOLOGY DISCLOSURES, PUBLICATION
3 DISCLOSURES RELY ON GRANTEES TO SELF-REPORT. THEY
4 REQUIRE A HIGH LEVEL OF WORK FOR CIRM STAFF TO
5 ENSURE COMPLIANCE. SO OUR RECOMMENDATIONS HERE
6 CENTER ON MORE PROACTIVE AND EFFICIENT MONITORING
7 PRACTICES. AND THIS, AGAIN, IS PARTICULARLY
8 IMPORTANT AS CIRM MATURES, AND WE EXPECT THESE TO
9 INCREASE.

10 WE ALSO HAVE A RECOMMENDATION HERE ABOUT
11 THE GWG AND DIVERSITY. YOU ALREADY DISCUSSED THIS
12 IN-DEPTH EARLIER TODAY. WE RECOMMEND THAT YOU
13 CONTINUE THIS IMPORTANT WORK TO ENSURE THAT THERE
14 ARE DIVERSE PERSPECTIVES ON THE GWG. AS PERFORMANCE
15 AUDITORS, WE COME AT THIS FROM THE PERSPECTIVE OF
16 THE PERCEPTION OF INDEPENDENCE AS A PUBLIC AGENCY
17 AND APPLICATION REVIEW. THAT'S VERY IMPORTANT. AND
18 SO WE JUST WANT TO COMMEND YOU FOR DIGGING INTO THIS
19 WORK, AND WE HOPE THAT YOU CONTINUE TO IMPLEMENT IT
20 AND ENCOURAGE YOU TO DO SO.

21 OUR FINAL AREA OF FINDINGS AND
22 RECOMMENDATIONS ARE AROUND DATA AND SYSTEMS. I WANT
23 TO NOTE THAT BECAUSE OUR AUDIT YEAR WAS A WIND-DOWN
24 YEAR, CIRM WAS NOT MAKING INVESTMENTS IN THEIR
25 SYSTEMS SIGNIFICANTLY BECAUSE IT WASN'T A GUARANTEE

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1 THAT THE AGENCY WOULD BE RENEWED. AND SO IT DIDN'T
2 MAKE SENSE TO INVEST A LOT OF MONEY INTO NEW SYSTEMS
3 OR MAJOR SYSTEM IMPROVEMENTS. BUT WE EXPECT THAT
4 THESE RECOMMENDATIONS WILL HELP STRENGTHEN
5 OPERATIONS AND HELP SUPPORT IMPLEMENTATION OF THE
6 NEW STRATEGIC PLAN.

7 SO THESE FOUR RECOMMENDATIONS ARE ABOUT
8 IMPLEMENTING AND STANDARDIZING BEST PRACTICES. SO
9 FIRST, WE HAVE UPDATING THE RECORDS RETENTION
10 SCHEDULE, ASSOCIATED POLICIES AND PROCEDURES, AND
11 MAKING SURE THAT WE ARE CONSISTENTLY TRAINING OUR
12 STAFF AND MAKING SURE OUR RECORDS ARE IN GOOD ORDER.
13 THIS IS PARTICULARLY IMPORTANT AS A STATE AGENCY.
14 AS WE MATURE AS AN AGENCY, THAT WE HAVE EVERYTHING
15 AND ALL OF OUR DOCUMENTATION AND DATA IN ORDER.

16 SECOND IS AROUND DOCUMENT MANAGEMENT. WE
17 HAVE THROUGHOUT OUR PERFORMANCE AUDITS OF THE
18 AGENCY, DOCUMENT MANAGEMENT HAS BEEN A CHALLENGE
19 BETWEEN THE DIFFERENT FUNCTIONS AND PROGRAMS OF
20 CIRM. AND SO WE KNOW THAT THERE ARE SOME DOCUMENT
21 MANAGEMENT SYSTEM PLANS IN ORDER. AND SO WE'RE
22 LOOKING FORWARD TO SEEING CIRM ADOPT CONSISTENT
23 PRACTICES WITH DOCUMENT MANAGEMENT.

24 AND THEN OUR LAST TWO FINDINGS, AGAIN,
25 AROUND REALLY ADOPTING THOSE BEST PRACTICES. SO

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1 CONTINUING TO IMPROVE THE GRANTS MANAGEMENT SYSTEM,
2 ENSURING THAT COMPLETE DATA IS IN THE SYSTEM AND IS
3 ACCESSIBLE TO THOSE WHO NEED IT, AND THAT IT'S
4 CONSISTENT ACROSS ALL OF THE DATA.

5 AND THEN, FINALLY, AS CIRM MATURES AND
6 GROWS, WE RECOMMEND THAT YOU CONSIDER IMPLEMENTING A
7 CUSTOMER RELATIONSHIP MANAGEMENT SYSTEM, AN
8 INTEGRATED DATABASE TO BETTER COLLECT AND TRACK AND
9 LEVERAGE THE DATA ACROSS PROGRAMS AND DISCIPLINES.
10 THERE'S A LOT OF DATA. IT LIVES IN A LOT OF FOLKS'
11 HEADS, AND YOU'VE GOT A LOT OF LONG-TERM STAFF. IT
12 WOULD BE GREAT TO GET THAT INFORMATION SO THAT FOLKS
13 CAN COLLABORATE AND LEVERAGE IT AND BE ABLE TO USE
14 IT FOR LOTS OF DIFFERENT PURPOSES ACROSS PROGRAMS.

15 SO WITH THAT, I WILL OPEN IT UP FOR ANY
16 QUESTIONS THAT YOU ALL MIGHT HAVE.

17 CHAIRMAN THOMAS: THANK YOU, COLLEEN.
18 QUESTIONS OR COMMENTS FROM MEMBERS OF THE BOARD?
19 LARRY.

20 DR. GOLDSTEIN: THE RECOMMENDATION ABOUT
21 GRANT REVIEWERS IN YOUR WRITTEN DOCUMENT AND AS YOU
22 STATED IT REFERS TO CALIFORNIA REVIEWERS AND THE
23 NEED TO GET MORE DIVERSITY AMONG CALIFORNIA
24 REVIEWERS. I JUST WANT TO POINT OUT THAT OUR
25 REVIEWERS COME FROM OUTSIDE OF CALIFORNIA BY POLICY.

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1 AND I'D LIKE TO SEE THAT RECOMMENDATION CHANGED TO
2 REFLECT THAT.

3 CHAIRMAN THOMAS: OTHER COMMENTS FROM
4 MEMBERS OF THE BOARD?

5 MS. ROZILLIS: SURE. WE CAN DEFINITELY
6 MAKE THAT UPDATE.

7 CHAIRMAN THOMAS: OTHER COMMENTS FROM
8 MEMBERS OF THE BOARD?

9 MR. TORRES: I JUST WANTED TO MAKE SURE
10 THAT EVERYONE KNEW, AND JAMES HARRISON AND I WERE
11 PART OF THOSE DISCUSSIONS WITH THE SENATE WHEN WE
12 AGREED TO THIS PERFORMANCE AUDIT. SO THIS WAS NOT
13 SOMETHING THAT WAS IMPOSED UPON US. IT WAS A
14 RECOMMENDATION THAT WE MADE TO THE LEGISLATURE TO
15 MAKE SURE THAT WE COMPLIED WITH IT EVERY THREE
16 YEARS.

17 CHAIRMAN THOMAS: THANK YOU, ART. OTHER
18 QUESTIONS OR COMMENTS? COLLEEN, DO YOU HAVE ANY
19 SORT OF SUMMARY STATEMENT ON THE STATE OF THE UNION
20 BASED ON YOUR ANALYSIS?

21 MS. ROZILLIS: WELL, LIKE I SAID AT THE
22 BEGINNING, IT WAS A REALLY CHALLENGING YEAR. AND
23 OUR WORK IS ALMOST EXCLUSIVELY IN THE PUBLIC SECTOR,
24 AND WE SAW A LOT OF PUBLIC AGENCIES REALLY, REALLY
25 STRUGGLE LAST YEAR. AND WHEN WE CAME IN, WE WEREN'T

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1 REALLY SURE WHAT TO EXPECT. AND WHAT WE ACTUALLY
2 FOUND WERE PEOPLE WHO CONTINUED TO BE VERY DEDICATED
3 TO DELIVERING THE MISSION OF CIRM. WE ARE ALWAYS
4 VERY IMPRESSED WITH THE EMPLOYEES HERE AND THAT
5 CONTINUED TO BE THE CASE. AND SO I REALLY WANT TO
6 COMMEND THE STAFF FOR CONTINUING TO DELIVER IN A
7 DIFFICULT YEAR.

8 I THINK OUR NUMBER OF FINDINGS MAY HAVE
9 DECREASED FROM THE PRIOR YEAR, WHICH IS A GOOD SIGN,
10 OR WAS ABOUT THE SAME. SORRY. WE HAD TEN IN THE
11 PRIOR YEAR, SO IT WAS ABOUT THE SAME. SO THAT'S
12 PRETTY GOOD. THAT'S STABLE. AND I WOULD SAY THAT
13 IN GENERAL YOU'RE EMBARKING ON A NEW STRATEGIC PLAN
14 AND REALLY LOOKING TOWARD THE FUTURE. AND SO FROM
15 OUR PERSPECTIVE OUR FOCUS IS REALLY ABOUT
16 IMPLEMENTING BEST PRACTICES AND MAKING SURE THAT WE
17 CAN SUPPORT OPERATIONAL STABILITY TO BE ABLE TO
18 TRULY SUPPORT EFFECTIVE IMPLEMENTATION OF THAT
19 STRATEGIC PLAN.

20 CHAIRMAN THOMAS: WELL, THANK YOU. AND AS
21 I SAID IN MY COMMENTS AT THE BEGINNING, MANY THANKS
22 TO MARIA B. AND ALL OF YOU WHO WORKED ON THE
23 PERFORMANCE AUDIT AND HELPING TO GET ALL THE DATA
24 COLLECTED AND NECESSARY TO COLLEEN AND HER TEAM TO
25 BE ABLE TO PRODUCE THIS RESULT. SO THANK YOU,

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1 EVERYBODY, VERY MUCH.

2 THIS IS NOT SOMETHING THAT REQUIRES A
3 VOTE. IF THERE ARE NO FURTHER QUESTIONS FOR
4 COLLEEN, THAT WILL CONCLUDE THIS ITEM.

5 MS. BONNEVILLE: J.T., REALLY QUICKLY IF I
6 MAY.

7 CHAIRMAN THOMAS: YES.

8 MS. BONNEVILLE: I JUST WANTED TO THANK
9 MOSS-ADAMS. THEY WERE A GREAT PARTNER AND WORKING
10 WITH THEM HAS BEEN A PLEASURE. I WANT TO THANK
11 EVERYONE WHO PARTICIPATED. MOSS-ADAMS REACHED OUT
12 TO A LOT OF FOLKS AND INTERVIEWED THEM, BOTH ON THE
13 BOARD AND INTERNALLY. SO THANK YOU. SHEILA, JENN,
14 BEN, AND GIL WERE INSTRUMENTAL IN THIS. SO I REALLY
15 APPRECIATE EVERYTHING THEY DID TO MAKE THIS SUCH A
16 SUCCESSFUL AUDIT.

17 AND JUST IN CLOSING, WE WILL HAVE A PLAN
18 FOR THE BOARD WE WILL BRING TO THEM IN JANUARY FOR
19 HOW WE WILL SORT OF APPROACH THE FINDINGS AND WHAT
20 OUR NEXT STEPS ARE.

21 CHAIRMAN THOMAS: THANK YOU, MARIA. OKAY.
22 THAT CONCLUDES THIS ITEM. AND I THINK WE ARE DOWN
23 NOW TO THE PUBLIC COMMENT ON ANY AND EVERY TOPIC.
24 IS THERE ANY MEMBERS OF THE PUBLIC WHO WOULD LIKE TO
25 COMMENT ON ANYTHING? HEARING NONE, STEVE OR AL, DO

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1 YOU HAVE ANY CLOSING COMMENTS YOU'D LIKE TO MAKE?

2 MR. TORRES: RUDE. RUDE. RUDE.

3 MR. ROWLETT: J.T., YOU ARE SUPPOSED TO BE
4 GRACIOUS. AND BECAUSE YOU ARE NOT, YOU WILL RUE THE
5 DAY, LET ME TELL YOU.

6 MR. TORRES: HERE. HERE, AL.

7 CHAIRMAN THOMAS: I MERELY ASKED FOR
8 COMMENTS. I THOUGHT I DID IT VERY GRACIOUSLY.

9 MR. ROWLETT: YOU HIT A NERVE, SIR.

10 MR. TORRES: ON TO ATLANTA, J.T.

11 MR. ROWLETT: THERE YOU GO.

12 MR. JUELSGAARD: J.T., THERE'S AN OLD
13 SAYING IN BASEBALL, AND THAT IS THE UMPIRES ARE NOT
14 SUPPOSED TO DECIDE THE GAME.

15 MR. TORRES: EXACTLY. EXACTLY.

16 CHAIRMAN THOMAS: I WILL CERTAINLY AGREE
17 WITH THAT. IT WAS A TERRIBLE CALL, ALTHOUGH THE END
18 WAS NEAR REGARDLESS FROM MY VIEW AT LEAST. IN ANY
19 EVENT, ALL RIGHT. THANK YOU SO MUCH, EVERYBODY,
20 MEMBERS OF THE CIRM TEAM, FOR STICKING WITH A
21 LENGTHY AGENDA. WE ACCOMPLISHED A LOT HERE.
22 ANOTHER EXCELLENT MEETING.

23 MARIA, WILL YOU PLEASE REPEAT, YOU GAVE
24 THE DATE EARLIER, BUT THE NEXT BOARD MEETING IS?

25 MS. BONNEVILLE: WE HAVE AN APPLICATION

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1 REVIEW SUBCOMMITTEE ON NOVEMBER 23D. SO FOR THOSE
2 ON THE APPLICATION REVIEW SUBCOMMITTEE, PLEASE NOTE
3 THAT. THEN OUR FULL BOARD MEETING IS DECEMBER 14TH.

4 CHAIRMAN THOMAS: OKAY. WELL, THANK YOU
5 VERY MUCH. AND EVERYBODY HAVE A SAFE AND HAPPY
6 HALLOWEEN AND WE WILL SEE YOU IN NOVEMBER.

7 (THE MEETING WAS THEN CONCLUDED AT
8 2:22 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 ZOOM PROCEEDINGS BEFORE THE INDEPENDENT CITIZEN'S OVERSIGHT COMMITTEE AND THE APPLICATION REVIEW SUBCOMMITTEE OF THE CALIFORNIA INSTITUTE FOR REGENERATIVE MEDICINE IN THE MATTER OF ITS REGULAR MEETING HELD ON OCTOBER 19, 2021, 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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