### BEFORE THE

INDEPENDENT CITIZENS' OVERSIGHT COMMITTEE

TO THE
CALIFORNIA INSTITUTE FOR REGENERATIVE MEDICINE
ORGANIZED PURSUANT TO THE
CALIFORNIA STEM CELL RESEARCH AND CURES ACT

**REGULAR MEETING** 

LOCATION: 685 GATEWAY BLVD.

PRESENTATION ROOM

SOUTH SAN FRANCISCO, CA

DATE: JUNE 29, 2023

9 A.M.

REPORTER: BETH C. DRAIN, CA CSR

CSR. NO. 7152

FILE NO.: 2023-23

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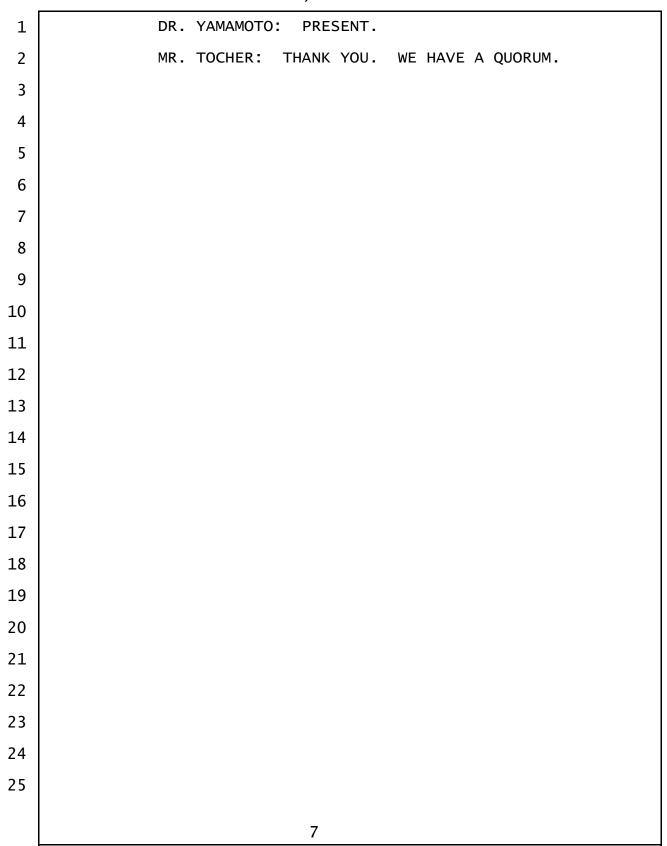
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1	JUNE 29, 2023; 9 A.M.
2	
3	CHAIRMAN IMBASCIANI: GOOD MORNING,
4	EVERYONE. THIS IS DR. VITO IMBASCIANI, THE CHAIR OF
5	THE ICOC OF CIRM, AND I'M DELIGHTED TO WELCOME
6	EVERYONE IN THE ROOM, MEMBERS OF THE BOARD, MEMBERS
7	OF THE STAFF, AND MEMBERS OF THE PUBLIC THAT ARE
8	ATTENDING THIS JUNE 29TH MEETING OF THE CIRM'S
9	BOARD. AND I'D ALSO LIKE TO WELCOME ANYONE WHO IS
10	ATTENDING THIS MEETING ON THE TELEPHONE OR BY OTHER
11	ELECTRONIC MEANS.
12	AND BEFORE WE START, I'M GOING TO ASK
13	MR. SCOTT TOCHER TO LEAD US IN THE PLEDGE OF
14	ALLEGIANCE.
15	(THE PLEDGE OF ALLEGIANCE.)
16	CHAIRMAN IMBASCIANI: THANK YOU, SCOTT.
17	IF YOU WOULD CONTINUE IN YOUR OFFICIAL CAPACITY AND
18	CALL THE ROLL.
19	MR. TOCHER: HAIFAA ABDULHAQ. MOHAMED
20	ABOUSALEM.
21	DR. ABOUSALEM: PRESENT.
22	MR. TOCHER: DAN BERNAL.
23	MR. BERNAL: PRESENT.
24	MR. TOCHER: KIM BARRETT.
25	DR. BARRETT: PRESENT.
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1		MR. TOCHER: GEORGE BLUMENTHAL.
2		DR. BLUMENTHAL: PRESENT.
3		MR. TOCHER: MARIA BONNEVILLE.
4		VICE CHAIR BONNEVILLE: PRESENT.
5		MR. TOCHER: MICHAEL BOTCHAN. LINDA
6	BOXER.	
7		DR. BOXER: PRESENT.
8		MR. TOCHER: JUDY CHOU.
9		DR. CHOU: PRESENT.
10		MR. TOCHER: LEONDRA CLARK-HARVEY.
11		DR. CLARK-HARVEY: PRESENT.
12		MR. TOCHER: ANNE-MARIE DULIEGE.
13		DR. DULIEGE: PRESENT.
14		MR. TOCHER: YSABEL DURON.
15		MS. DURON: PRESENT.
16		MR. TOCHER: MARK FISCHER-COLBRIE. FRED
17	FISHER.	
18		DR. FISHER: PRESENT.
19		MR. TOCHER: ELENA FLOWERS.
20		DR. FLOWERS: PRESENT.
21		MR. TOCHER: JUDY GASSON.
22		DR. GASSON: PRESENT.
23		MR. TOCHER: LARRY GOLDSTEIN. DAVID
24	HIGGINS.	
25		DR. HIGGINS: PRESENT.
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1	MR. TOCHER: VITO IMBASCIANI.
2	CHAIRMAN IMBASCIANI: PRESENT.
3	MR. TOCHER: STEPHEN JUELSGAARD.
4	MR. JUELSGAARD: PRESENT.
5	MR. TOCHER: RICH LAJARA.
6	MR. LAJARA: PRESENT.
7	MR. TOCHER: PAT LEVITT.
8	DR. LEVITT: PRESENT.
9	MR. TOCHER: DAVID LO.
10	DR. LO: PRESENT.
11	MR. TOCHER: LINDA MALKAS.
12	DR. MALKAS: PRESENT.
13	MR. TOCHER: SHLOMO MELMED.
14	DR. MELMED: PRESENT.
15	MR. TOCHER: CHRISTINE MIASKOWSKI.
16	DR. MIASKOWSKI: PRESENT.
17	MR. TOCHER: LAUREN MILLER-ROGEN. ADRIANA
18	PADILLA.
19	DR. PADILLA: PRESENT.
20	MR. TOCHER: JOE PANETTA. MARV SOUTHARD.
21	DR. SOUTHARD: PRESENT.
22	MR. TOCHER: MICHAEL STAMOS.
23	DR. STAMOS: PRESENT.
24	MR. TOCHER: KAROL WATSON. KEVIN XU.
25	KEITH YAMAMOTO.
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1	DR. ABDULHAQ: SCOTT, THIS IS HAIFAA. I'M
2	PRESENT.
3	CHAIRMAN IMBASCIANI: THANK YOU, SCOTT.
4	I'D LIKE TO CONTINUE WITH A VERY SHORT
5	REPORT FROM THE CHAIR. THIS BEING THE FIRST
6	OFFICIAL MEETING, I'D LIKE TO THANK THE CIRM STAFF
7	PARTICULARLY FOR THE VERY, VERY WARM AND
8	ACCOMMODATING WELCOME THEY'VE GIVEN TO YOUR NEW
9	CHAIR.
10	AND SINCE I'VE TAKEN OVER IN VERY, VERY
11	LATE MARCH, I HAVE BEEN VERY ASSIDUOUSLY GETTING TO
12	KNOW THE BREADTH OF CIRM'S PRESENCE ON THE CELL AND
13	GENE THERAPY STAGE; TO WIT, I HAVE BEEN NOW TO VISIT
14	SIX OF OUR NINE ALPHA CLINICS. I'VE BEEN TO UC
15	DAVIS, UCSF, THE CHILDREN'S HOSPITAL IN OAKLAND,
16	UCSD AND WITH A SIDE TRIP TO THE SANFORD CONSORTIUM,
17	THE CITY OF HOPE, AND UCLA.
18	THE STAFF OF EACH OF THESE ALPHA CLINICS
19	HAS BEEN EXTRAORDINARY IN THEIR WELCOME OF THE
20	CONTINGENT THAT I BROUGHT WITH ME. AND I WANT TO
21	THANK GEOFF LOMAX AND OTHERS ON HIS TEAM FOR
22	FACILITATING THAT. IT'S NO EASY MATTER. WE WERE
23	QUITE A PERTURBATION IN THE DAILY ACTIVITIES OF ALL
24	THESE CENTERS, BUT THEY CAME OUT IN GREAT NUMBERS,
25	THEY WELCOMED US, THEY TOURED US AROUND. THEY

1	ADVISED US AT A VERY HIGH LEVEL OF THE SCIENTIFIC
2	ENDEAVORS THAT THEY WERE ENGAGED IN. AND IT WAS
3	REALLY A VERY, VERY WONDERFUL THING, I THINK, FOR
4	CIRM TO DO TO SHOW OUR PRESENCE ON ALL OF THESE
5	CAMPUSES AND TO LEARN WHAT THEY'RE ABOUT. AND I
6	THINK THE BENEFIT WAS MUTUAL.
7	AND I HAVE TO TELL YOU THAT NOT JUST IN
8	CALIFORNIA, BUT IN ALL THE OTHER PLACES I'VE BEEN,
9	OF WHICH I'LL NAME A FEW IN A SECOND, THE PERCEPTION
10	OF CIRM'S PRESENCE AND ITS ACCOMPLISHMENT OVER THE
11	LAST NINETEEN IS REALLY EXTRAORDINARY. PEOPLE ALL
12	OVER THIS COUNTRY, I'VE TOURED YALE'S LABS AND OTHER
13	PEOPLE AND I'VE BEEN TO A NUMBER OF THE NATIONAL
14	MEETINGS, WHERE THE RECOGNITION OF WHAT CIRM HAS
15	CREATED AND CONTINUES TO SUPPORT LEAVES PEOPLE
16	BREATHLESS. I DON'T USE THE ADJECTIVE VERY LIGHTLY.
17	WE ARE THE ENVY OF THE WORLD, WHAT HAS BEEN CREATED
18	BY THE PEOPLE ON THIS BOARD AND IN THIS ROOM AND
19	OTHER PEOPLE WHO HAVE SERVED WHO ARE NO LONGER ON
20	THE BOARD. SO CONGRATULATIONS TO YOU ALL.
21	JUNE WAS EXTRAORDINARILY RICH IN THE
22	NUMBER OF LARGE MEETINGS OF THE RESEARCH AND
23	THERAPEUTIC COMMUNITIES. IT STARTED ABOUT A MONTH
24	AGO WITH THE ASGCT MEETING AT THE CONVENTION CENTER
25	IN LOS ANGELES. THOUSANDS OF PEOPLE FROM ALL OVER

1	THE WORLD COMING TO GIVE REPORTS ON THEIR SCIENTIFIC
2	INQUIRY AND TO MAKE CONNECTIONS. FOLLOWED BY
3	LABEST, AN EXTRAORDINARILY WELL RUN, BEAUTIFUL
4	MEETING ON THE CAMPUS OF UCLA. AND THEN THE
5	SPRAWLING MEETING IN BOSTON OF THE INTERNATIONAL
6	STEM CELL RESEARCH ORGANIZATION HOSTED BY THE
7	PRESIDENT, HAIFAN LIN, AT WHICH, BY THE WAY, YOUNG
8	ROBERT KLEIN JR. WAS PUBLICLY AWARDED A COMMENDATION
9	FOR HIS WORK IN HEADING UP THE CAMPAIGN THAT
10	RESULTED IN THE SUCCESSFUL PASSAGE OF PROP 14. IT
11	WAS A WELL-DESERVED HONOR, AND IT WAS THE ONLY ONE
12	SUCH HONOR AT THAT MEETING AT THE PRESIDENT'S
13	RECEPTION. AND ROBERT WAS THERE WITH HIS FAMILY TO
14	RECEIVE THAT AWARD.
15	AND FINALLY, A VERY INTERESTING, VERY
16	EXCITING MEETING FOR A NUMBER OF DAYS UP AT LAKE
17	ARROWHEAD IN SOUTHERN CALIFORNIA, WHICH CALLED
18	ITSELF THE FIRST ANNUAL SOUTHERN CALIFORNIA
19	REGENERATIVE MEDICINE SYMPOSIUM, WHICH BROUGHT
20	TOGETHER ALL OF THE ENTITIES IN SOUTHERN CALIFORNIA,
21	EXPANDED TO INCLUDE PLACES THAT DON'T HAVE MEDICAL
22	SCHOOLS, SUCH AS UC SANTA BARBARA AND CALTECH. AND
23	THEY REPORTED ON ALL THE VIBRANT RESEARCH THAT WAS
24	GOING ON IN THEIR CENTERS.
25	AND THEN FINALLY, I MET WITH THE

1	PRESIDENT, OUR CEO, MARIA MILLAN, AND HER ENTIRE
2	LEADERSHIP TEAM INDIVIDUALLY AND THEN SAT IN ON
3	THEIR MEETINGS OF THEIR WHOLE TEAMS, TO MEET THEM
4	ALL, FIND OUT A LITTLE BIT MORE ABOUT WHAT THEY DO
5	SO I CAN BE A BETTER COMMUNICATOR TO THE PEOPLE OF
6	CALIFORNIA OF WHAT WE ARE AND WHAT WE ARE ABOUT.
7	SO IT'S BEEN A VERY, VERY BUSY MONTH.
8	I'VE STILL GOT A FEW MORE SITES TO VISIT. I THINK
9	THERE ARE A NUMBER OF PEOPLE IN THIS ROOM, I THINK,
10	THAT ARE NEXT ON THE LIST.
11	I WOULD LIKE NEXT TO TELL YOU HE'S NOT
12	HERE WE HAVE A NEW BOARD MEMBER. HIS NAME IS
13	KEVIN XU. LAST NAME IS SPELLED X-U. HE WAS
14	NOMINATED BY THE SPEAKER OF THE CALIFORNIA ASSEMBLY.
15	AND I'LL TELL YOU SOMETHING ABOUT HIM. HE'S GOING
16	TO JOIN US FOR THE FIRST TIME IN OUR SEPTEMBER BOARD
17	MEETING. HE RECEIVED A BACHELOR OF ARTS IN
18	NEUROSCIENCE IN 2011 FROM THE UNIVERSITY OF SOUTHERN
19	CALIFORNIA. HE'S VERY, VERY INVOLVED IN A NUMBER OF
20	NATIONAL AND INTERNATIONAL BOARDS. I'LL JUST NAME A
21	FEW OF THEM.
22	HE WAS APPOINTED FIRST TO SERVE BY
23	CALIFORNIA GOVERNOR JERRY BROWN TO THE CALIFORNIA
24	CHINA TRADE AND INVESTMENT ADVISORY GROUP. HE'S A
25	MEMBER OF THE LOS ANGELES COUNTY MEDICAL HEALTH

1	COMMISSION, AND I THINK THAT THAT'S WHAT IT'S
2	THAT CREDENTIAL THAT CAUGHT THE SPEAKER'S ATTENTION
3	IN APPOINTING HIM TO BE THE PATIENT ADVOCATE TO THE
4	MENTAL HEALTH COMMUNITY. WE SHOULD KNOW THAT. HE'S
5	INVOLVED IN THE CLINTON GLOBAL INITIATIVE. I'M ONLY
6	GIVING YOU A VERY HIGHLY SELECT RENDERING OF HIS CV.
7	HE'S THE DIRECTOR IN BEIJING OF THE, AND I THINK
8	THIS IS WHAT'S THE WORD? EPONYMOUS WHEN THE
9	INSTITUTE IS NAMED AFTER YOURSELF, THE RONGXIANG
LO	REGENERATIVE MEDICINE LABORATORY, WHICH IS UNDER THE
L1	UNITED NATIONS ACADEMIC IMPACT PROGRAM. PRESIDENT
L2	OF THE INTERNATIONAL SOCIETY OF REGENERATIVE
L3	MEDICINE AND WOUND REPAIR.
L4	HE'S ALSO ON MANY ADVISORY BOARDS,
L5	INCLUDING THE RONGXIANG XU CENTER FOR REGENERATIVE
L6	THERAPEUTICS AT BETH ISRAEL AT HARVARD, CALIFORNIA
L7	INSTITUTE OF TECHNOLOGY NEURO TECHNOLOGY CENTER,
L8	CALIFORNIA STATE UNIVERSITY LOS ANGELES, THE
L9	PRESIDENTIAL COUNCIL, THE HARRIS SCHOOL OF PUBLIC
20	POLICY AT THE UNIVERSITY OF CHICAGO, AND THE KEVIN
21	XU INITIATIVE AT THE ROSE TRUST OF OXFORD
22	UNIVERSITY.
23	IN 2014 HE RECEIVED AN IMPACT 100
24	RECOGNITION AT THE UNITED NATIONS AND A FEW YEARS
25	AGO WAS AWARDED USC'S YOUNG ALUMNI MERIT AWARD. SO

1	A VERY ACCOMPLISHED YOUNG ADDITION DO THIS BOARD OF
2	DIRECTORS. WE'LL MEET HIM IN PERSON IN SEPTEMBER.
3	THIRD OF MY FOUR POINTS, I VERY CAREFULLY
4	LISTENED TO A NUMBER OF THE COMMENTS MADE OVER THE
5	LAST THREE BOARD MEETINGS BY MEMBERS OF THE BOARD.
6	THESE ARE QUESTIONS THAT AROSE ABOUT OUR BUDGETING
7	PROCESS AND HOW IT SUPPORTS, HIGHLIGHTS, AND
8	SELECTS, IF YOU WILL, AREAS OF SCIENTIFIC FOCUS.
9	THAT'S A FANCY WAY OF SAYING HOW DO WE PRIORITIZE
10	APPLICATIONS THAT ARE WORTHY OF SUPPORT HERE AT THE
11	BOARD. HOW DO WE PRIORITIZE, SHOULD WE PRIORITIZE
12	ONE AREA OF INQUIRY OVER ANOTHER? HOW DO WE
13	IMPLEMENT THE MANDATE OF PROP 14, SPECIFICALLY THE
14	\$1.5 MILLION THAT ARE EARMARKED, IF YOU WILL, FOR
15	NEUROSCIENCE?
16	THE NEURO TASK FORCE OF THIS BOARD IS
17	PRESENTLY INVOLVED IN EXACTLY THAT ACTIVITY, A VERY
18	PRECISE AND DEEP ANALYSIS THAT IS ESSENTIALLY AN
19	EXERCISE IN PRIORITIZATION. AND THEY WILL BE
20	REPORTING ON THAT AT TODAY'S MEETING. I AM GOING TO
21	SHORTLY WHEN I'M DONE TURN OVER TO PRESIDENT MILLAN
22	WHO IS GOING TO ELABORATE ON THIS VERY TOPIC IN HER
23	REPORT. AND I AM TAKING THE PREROGATIVE OF ASKING
24	THE SCIENCE SUBCOMMITTEE TO FORMALLY TAKE UP THIS
25	ISSUE OF PRIORITIZATION BASED ON COMMENTS MADE BY

1	MANY OF THE MEMBERS OF THIS BOARD, TAKE IT UP AND AT
2	THEIR OWN PACE STUDY IT AND PLEASE REPORT BACK.
3	AND FINALLY, IN ADVANCE WE ARE IN OUR
4	19TH YEAR AT CIRM. IN LIGHT OF THE ADVANCES MADE IN
5	BASIC SCIENCE AND CLINICAL MEDICINE, I HAVE A
6	THOUGHT, THAT IT IS NOW AN OPPORTUNE TIME TO
7	CONSIDER EXPANDING OUR GOVERNMENT RELATIONS
8	ACTIVITY, WHICH AT PRESENT ARE LIMITED TO
9	SACRAMENTO, SPEARHEADED BY, AS IT HAS BEEN FOR
10	YEARS, BY OUR NOW FORMER VICE CHAIR ART TORRES. I'M
11	THINKING WE WOULD PROFIT FROM HAVING A WORKING
12	RELATIONSHIP IN THE WASHINGTON, D.C. AREA WITH
13	CLOSER PROXIMITY TO THE WORK OF CONGRESS AS WELL AS
14	THE FEDERAL AGENCIES, INCLUDING THE FDA AND THE NIH.
15	IN TOURING AROUND THE STATE AS PART OF ALL
16	THE ACTIVITIES I'VE MENTIONED EARLY ON, I'VE
17	IDENTIFIED AT ALMOST EVERY CENTER A GOOD NUMBER OF
18	INTERESTED AND ENGAGED STAKEHOLDERS WITH EXPERTISE
19	IN THIS AREA WHO MIGHT LIKE TO CONTRIBUTE TO THAT
20	EFFORT AND WHO CONCUR IN THIS IDEA THAT THE TIME IS
21	RIGHT TO HAVE A MORE ACTIVE INVOLVEMENT IN
22	GOVERNMENT RELATIONS.
23	SO I'LL LEAVE IT AT THAT. THANK YOU VERY
24	MUCH. AND I'M GOING TO PASS THE GAVEL TO PRESIDENT
25	MILLAN.

1	MS. DURON: MR. CHAIR.
2	CHAIRMAN IMBASCIANI: YSABEL, SORRY.
3	MS. DURON: WHILE SHE APPROACHES THE
4	BENCH, I WOULD LIKE TO ACKNOWLEDGE THE WELCOMING OF
5	MR. XU, BUT AT THE SAME TIME WOULD LIKE TO SAY THANK
6	YOU VERY MUCH FOR THE SERVICE OF AL ROWLETT, WHO HAS
7	BEEN A CALM, SMART, AND ENGAGED PRESENCE FOR 11
8	YEARS. AND I'M GOING TO MISS HIM DEARLY AS I THINK
9	A LOT OF US WILL, AND I THINK I WOULD LIKE HIM TO
10	KNOW THAT WE APPRECIATED HIS SERVICE. THANK YOU.
11	CHAIRMAN IMBASCIANI: THANK YOU.
12	(APPLAUSE.)
13	CHAIRMAN IMBASCIANI: YSABEL, WE DID REACH
14	OUT TO AL. WE WOULD LIKE TO HAVE MORE FORMALLY
15	HONORED HIM AT THIS PARTICULAR BOARD MEETING. HE'S
16	ASKED THAT WE HOLD OFF ON THAT FOR A LITTLE WHILE.
17	SO IT WILL COME UP AT ANOTHER MEETING. THANK YOU
18	VERY MUCH.
19	DR. MILLAN: THANK YOU SO MUCH. MAY I
20	PLEASE HAVE MY SLIDES OR DO I JUST CLICK? PERFECT.
21	THANK YOU, CHAIR IMBASCIANI, MEMBERS OF
22	THE BOARD, MEMBERS OF THE PUBLIC, AND DEAR
23	COLLEAGUES. TODAY I'LL BE PROVIDING A YEAR-ONE
24	UPDATE ON CIRM'S FIVE-YEAR STRATEGIC PLAN THAT WAS
25	LAUNCHED SHORTLY AFTER THE PASSAGE OF PROPOSITION

1	14. AS A REMINDER AND A VERY IMPORTANT REMINDER,
2	CIRM'S MISSION IS TO ACCELERATE WORLD-CLASS SCIENCE
3	TO DELIVER TRANSFORMATIVE REGENERATIVE MEDICINE
4	TREATMENTS IN AN EQUITABLE MANNER TO A DIVERSE
5	CALIFORNIA AND WORLD. THIS REMAINS OUR NORTH STAR,
6	AND EVERYTHING WE DO REALLY LEVERAGES ON THIS
7	MISSION.
8	SINCE ITS FORMATION, CIRM HAS BEEN AT THE
9	LEADING EDGE OF CREATING A WHOLE NEW FIELD IN
10	REGENERATIVE MEDICINE. AND THIS FIELD IS NOW COMING
11	OF AGE. THERE ARE MORE AND MORE PROGRAMS MAKING IT
12	TO THE CLINICS. THERE ARE NOW THOUSANDS OF CLINICAL
13	TRIALS WORLDWIDE. MOST OF THEM ARE STILL IN EARLY
14	STAGES AS THEY ARE IN CIRM'S PORTFOLIO WHERE WE
15	FUNDED 91 CLINICAL TRIALS, 58 OF THEM STILL ACTIVE.
16	THE MAJORITY ARE STILL IN EARLY DEVELOPMENT PHASE 1
17	AND PHASE 2. HOWEVER, OVER THE PAST SEVERAL YEARS,
18	WE HAVE SEEN AN INCREASE IN PROGRAMS THAT HAVE MADE
19	IT ALL THE WAY TO FDA APPROVAL TO MAKE IT TO THE
20	MARKETPLACE. AND TO DATE 29 CELL AND GENE
21	THERAPIES, ACTUALLY 30 AS OF LAST WEEK, HAVE BEEN
22	APPROVED BY THE FDA. I'LL GO INTO THAT IN A LITTLE
23	BIT.
24	AS SHOWN IN THAT PIE CHART THAT REPRESENTS
25	WHAT THE FIELD LOOKED LIKE IN 2022, JUST A YEAR AGO,

1	CELL AND GENE THERAPY DOES STILL COMPOSE A SMALL
2	PROPORTION OF BIOLOGICS THAT HAVE BEEN APPROVED BY
3	THE FDA. SO IT IS STILL A VERY EARLY FIELD. TODAY
4	I'D LIKE TO GIVE A STATUS UPDATE ON WHERE WE ARE IN
5	THE FIELD, THE CHALLENGES THAT ARE BEFORE US, AND
6	WHAT CIRM IS DOING TO ADDRESS THOSE CHALLENGES IN
7	ITS MISSION.
8	SO TO SPEAK TO RECENT ANNOUNCEMENTS, LAST
9	WEEK SAREPTA, WHICH IS A GENE THERAPY FOR DUCHENNE
10	MUSCULAR DYSTROPHY, WAS THE FIRST GENE THERAPY THAT
11	WAS APPROVED BY THE FDA. WHAT'S REMARKABLE ABOUT
12	THIS EVENT IS THAT PETER MARKS, WHO IS THE HEAD OF
13	THE DIVISION, CBER, THE BIOLOGIC DIVISION,
14	OVERTURNED HIS OWN REVIEWERS' RECOMMENDATION NOT TO
15	APPROVE THIS. WHY IS THIS SIGNIFICANT? HE SIDED
16	WITH THE ADVISORY COUNCIL, WHICH LOOKED AT THE DATA
17	MUCH MORE CLOSELY AND TOOK INTO ACCOUNT THE NATURE
18	OF THIS DISEASE. IT AFFLICTS THE YOUNG. IT IS
19	DEVASTATING. THERE IS NO TREATMENT.
20	SO THEY LOOKED AT THE DATA DESPITE THE
21	FACT THAT THE STUDY INITIAL DESIGNED ENDPOINTS WERE
22	NOT MET AND LOOKED AT THE POST HOC ANALYSIS AND SAW
23	THAT IN FOUR- AND FIVE-YEAR-OLDS THERE WAS AN
24	EFFICACY SIGNAL THAT MATCHED BIOLOGICAL SURROGATES
25	OR ACTUALLY NOT EVEN SURROGATES, REAL MARKERS. IN

1	GENE THERAPY THERE IS THE ENCODING OF A PROTEIN THAT
2	HELPS TO REVERSE THIS DISEASE. AND THEY COULD SEE
3	THAT THE EXPRESSION OF THIS PROTEIN CORRELATED WITH
4	IMPROVEMENT AND FUNCTION IN THE HEALTH OF THESE
5	FOUR- AND FIVE-YEAR-OLDS.
6	SO BECAUSE THIS WAS UNDER ACCELERATED
7	PATHWAY DESIGNATION, DR. MARKS HAD MOVED FORWARD
8	WITH THE APPROVAL OF THIS THERAPY WITH THE PROVISION
9	THAT THERE WOULD BE POST-APPROVAL CONFIRMATORY
10	STUDIES. SO THIS IS CALLED THE ACCELERATED PATHWAY.
11	JUST TO REMIND YOU, DR. ABLA CREASEY, THE HEAD OF
12	THE THERAPEUTICS PROGRAM, HAD UPDATED THE BOARD THAT
13	11 OF OUR PROGRAMS HAVE EXPEDITED PATHWAY
14	DESIGNATIONS THAT WOULD FOLLOW THIS TYPE OF
15	PARADIGM.
16	SO WE KNOW THAT THE REGULATORY PARADIGM IS
17	SHIFTING. SO THE PIPELINE IS GROWING. WE ARE
18	SEEING INNOVATION IN THE REGULATORY ARENA. THIS IS
19	GREAT. FURTHERMORE, OUR PROGRAMS CONTINUE TO MAKE
20	PROGRESS. FOR INSTANCE, ONE OF OUR PROGRAMS, WHICH
21	WAS A SPINOUT OF UCSF, WHICH IS A PLURIPOTENT STEM
22	CELL-DERIVED NEURAL PRODUCT THAT'S BEEN USED TO
23	TREAT INTRACTABLE FOCAL EPILEPSY THAT IS NOT AT ALL
24	RESPONSIVE TO ANY MEDICATION. IT'S BEING CARRIED
25	OUT BY NEURONA, WHICH IS A SPINOUT OF THE UCSF

1	PROGRAM FUNDED BY CIRM. WE FUNDED IT AND SUPPORTED
2	IT THROUGH EARLY STAGES AND TRANSLATION. IT'S NOW
3	IN CLINICAL TRIALS. AND THAT THEY JUST REPORTED AT
4	THE INTERNATIONAL SOCIETY FOR STEM CELL RESEARCH A
5	COUPLE OF WEEKS AGO IN BOSTON A ONE-YEAR FOLLOW-UP
6	ON ONE OF THEIR PATIENTS, AND THERE'S MORE COMING
7	THROUGH, WHERE THERE WAS A 90-PERCENT REDUCTION IN
8	SEIZURE ACTIVITY AND ALL OF THE KIND OF ASSOCIATED
9	STUDIES TO GO WITH THIS.
10	THIS IS JUST THE START. AND WITH CELL
11	THERAPIES, WHICH IS CELL AND GENE THERAPIES, THAT IS
12	WHAT DISTINGUISHES IT FROM TRADITIONAL DRUG
13	DEVELOPMENT. THERE'S EARLY SIGNALS, SMALL STUDIES,
14	EFFECT SIZES LARGE, THE IMPACT IS HUGE, AND IT'S
15	ONE-TIME TREATMENT. JUST BEAR THAT IN MIND. IT'S A
16	COMPLETELY DIFFERENT MODEL THAN WHAT IS OUT THERE
17	FOR TRADITIONAL EVEN BIOLOGICS.
18	SO WITH THAT, WE OURSELVES HAVE BUILT A
19	VERY ROBUST PORTFOLIO AND PIPELINE. DR. IMBASCIANI,
20	CHAIR IMBASCIANI, HAD REFERRED TO THE BOARD'S
21	DISCUSSION OF POTENTIAL PRIORITIZATION WITHIN THIS
22	BROAD PORTFOLIO. SO IT'S A VERY IMPORTANT TOPIC
23	GIVEN THAT THERE IS A MASSIVE INCREASE IN THE TYPES
24	OF PROGRAMS COMING THROUGH OUR PROGRAMS. BUT THE
25	SNAPSHOT OF WHERE WE ARE TODAY, THE CUMULATIVE

1	PROGRAMS THAT HAVE RESULTED FROM OUR GRANTMAKING
2	PROCESS IS THAT BETWEEN 30 AND 35 PERCENT ARE IN THE
3	NEURO FIELD IN GENERAL. YOU'LL HEAR A MUCH MORE
4	PRECISE ANALYSIS OF THIS IN UPCOMING MEETINGS AS LED
5	BY THE NEURO TASK FORCE AND DR. ROSA AVILES, WHO'S
6	OUR VP OF SCIENTIFIC PROGRAMS. BUT ABOUT 10 PERCENT
7	IN CARDIAC, 18 PERCENT IN MALIGNANCIES, 10 PERCENT
8	IN MUSCULOSKELETAL, AND QUITE A BIT IN OTHER
9	DISEASES WITH LARGE TARGETS SUCH AS DIABETES.
10	AND THIS IS DONE THROUGH A PREDICTABLE AND
11	RECURRING PROGRAM ANNOUNCEMENT, PROGRAM
12	OPPORTUNITIES, WHICH DR. GIL SAMBRANO, OUR HEAD OF
13	PORTFOLIO AND GRANTS REVIEW, WILL BE HIGHLIGHTING IN
14	HIS TALK FOLLOWING MINE. BUT HERE IS WHAT WE HAVE
15	DONE, WHAT CIRM HAS DONE, WHAT THIS BOARD HAS
16	APPROVED TO DATE. SO IN TOTAL, BETWEEN PROPOSITION
17	71 AND THE CURRENT PROPOSITION 14 FUNDS, YOU SEE IN
18	THE TOP ROW, THE CUMULATIVE INVESTMENT INTO
19	DISCOVERY IS OVER \$1 BILLION, SAME WITH CLINICAL
20	STAGE PROGRAMS, OVER HALF A BILLION DOLLARS IN
21	TRANSLATION, WHICH, AGAIN, DISTINGUISHES CIRM FROM
22	OTHER FUNDING AGENCIES. OUR BRAND IS A
23	TRANSLATIONAL FUNDING AGENCY. BUT ALSO SIGNIFICANT
24	INVESTMENT IN EDUCATION NEARING A HALF A BILLION AND
25	OVER HALF A BILLION DOLLARS IN INFRASTRUCTURE, BOTH

1	BUILDING INFRASTRUCTURE, BUT ALSO MAJOR PROGRAMMATIC
2	INFRASTRUCTURE, WHICH ARE MOST OF THE PROGRAMS YOU
3	HAVE BEEN SEEING COME THROUGH TO YOU RECENTLY.
4	AND IN THE PROPOSITION 14 ERA, THIS
5	CONTINUES, VERY ROBUST FUNDING ACROSS ALL FIVE
6	PILLARS. AND THEN THE FISCAL YEAR 22/23 WHERE YOU
7	WILL SEE IN MORE DETAIL WHERE POUNEH SIMPSON, OUR
8	HEAD OF FINANCE, WILL GIVE AN UPDATE ON OUR
9	EXPENDITURES WITH WHAT THE BOARD ALLOCATED FOR THIS
10	FISCAL YEAR. BUT YOU WILL SEE THAT THERE HAS ALSO
11	BEEN A SIGNIFICANT AMOUNT OF INVESTMENT IN ALL THE
12	FIVE PILLARS. I WON'T READ THE NUMBERS. YOU ALL
13	HAVE THEM, BUT HAPPY TO ANSWER ANY QUESTIONS RELATED
14	TO ANY OF THESE.
15	SO WE ARE FUNDING ALL THESE PROGRAMS.
16	THIS IS AN INTEGRATED APPROACH. WHAT WE STRIVE FOR
17	AT CIRM IS AN END-TO-END SOLUTION, FUNDING
18	PROGRAMMATIC, INFRASTRUCTURE, BUILDING FOR THE
19	FUTURE. WHY? BECAUSE WE KNOW THAT CELL AND GENE
20	THERAPY IS A NEW FIELD. THERE ARE SO MANY PLACES
21	WHERE IT CAN FAIL EVEN IF IT'S USEFUL. I'LL GIVE
22	YOU A USE CASE OF THAT OR A DEMONSTRATION OF THAT
23	SHORTLY. IT'S BEEN CALLED VALLEY OF DEATH WHERE
24	PROGRAMS, EVEN WITH PROMISE, JUST FALL THROUGH THE
25	CRACKS AND ARE NOT ABLE TO MAKE IT TO THE NEXT

1	STAGE. THERE ARE TWO VALLEY OF DEATHS ACTUALLY.
2	THERE'S ONE GOING FROM VERY IMPORTANT AND PROMISING
3	SCIENCE AND DISCOVERIES TO BE ABLE TO TRANSLATE THIS
4	INTO SOMETHING WHERE YOU CAN CREATE PREDICTABLY A
5	THERAPEUTIC PRODUCT CANDIDATE. THIS IS A LIVING
6	MEDICINE. SO IT'S A VERY VARIABLE NEW SYSTEM.
7	COMPLETELY NEW TYPES OF TECHNOLOGIES NEED TO BE
8	DEVELOPED. SO IT CAN FALL THROUGH THE CRACKS THERE.
9	IF YOU GET THROUGH THAT PART, YOU CAN GET
10	INTO CLINICAL TRIALS, WHICH IS FANTASTIC. AND WE
11	ARE STARTING TO SEE THAT AS INDICATED BY SOME OF THE
12	PROGRESS REPORTS WE HAVE BEEN PROVIDING. HOWEVER,
13	IT CAN STILL FALL THROUGH THE CRACKS IN MAKING IT
14	ALL THE WAY, EVEN IF IT'S VERY NEAR BEING APPROVED,
15	INTO THE CLINICS. AND THEN, EVEN ONCE APPROVED AND
16	INITIALLY IN THE CLINICS, IT CAN STILL FAIL TO REACH
17	THE PATIENTS IN NEED, ESPECIALLY THE
18	DISPROPORTIONATELY AFFECTED COMMUNITIES THAT ARE
19	UNDERSERVED. SO THESE ARE HUGE CHALLENGES.
20	AND THERE ARE MANY STAKEHOLDERS AND
21	INTERESTED PARTIES IN THIS, BUT WHAT IS CIRM DOING?
22	CIRM LAUNCHED THE STRATEGIC PLAN THAT THIS BOARD HAD
23	APPROVED IN DECEMBER OF 2021, SHORTLY AFTER
24	PROPOSITION 14 WAS PASSED. AND WE ORGANIZED OUR
25	STRATEGIC THINKING AROUND THREE THEMATIC PILLARS OR

1	THREE THEMES: ADVANCE WORLD-CLASS SCIENCE, DELIVER
2	REAL-WORLD SOLUTIONS, AND PROVIDE OPPORTUNITY FOR
3	ALL. THERE ARE VERY DELIBERATE AND CONCRETE
4	TACTICAL OBJECTIVES UNDER EACH OF THESE PILLARS.
5	AND I'M JUST GOING TO GIVE A VERY HIGH LEVEL
6	ACCOUNTING FOR WHAT WE'VE DONE THIS YEAR TO OPEN UP
7	DISCUSSIONS.
8	SO IN TERMS OF ADVANCING WORLD-CLASS
9	SCIENCE, THERE IS AN OPEN RFA FOR SHARED RESOURCE
10	LABS. YOU'VE HEARD ABOUT THAT FROM DR. UTA
11	GREISHAMMER AND ROSA AVILES IN PAST MEETINGS TO
12	DISCUSS HOW THIS REALLY CAN EMPOWER THE SCIENTIFIC
13	COMMUNITY FOR COLLABORATIVE SCIENCE AND TO BE ABLE
14	TO PROVIDE THOSE RESOURCES TO MORE LABS AND,
15	THEREFORE, ACCELERATE THE SCIENCE THROUGH SYNERGIES.
16	WE FUNDED THE FIRST PROGRAMS IN THE
17	MANUFACTURING NETWORK PARTNERSHIP PROGRAM LED BY DR.
18	SHYAM PATEL WITH HUGE ASSISTANCE FROM DR. SOHEL
19	TALIB FROM THE THERAPEUTICS DEVELOPMENT TEAM AND DR.
20	ROSS OKAMURA. AND THAT PROGRAM IS JUST ABOUT TO
21	LAUNCH. THIS BOARD'S FUNDED THE FIRST OF THOSE, AND
22	THE DESCRIPTION AND THE OBJECTIVES OF THAT WERE
23	DESCRIBED AT PRIOR MEETINGS, BUT HAPPY TO ANSWER ANY
24	QUESTIONS ON THAT. AND YOU WILL GET UPDATES, BY THE
25	WAY, ON ALL PROGRAMS AS THEY LAUNCH AND PROGRESS.

1	AS YOU KNOW, THE ALPHA CLINICS DR.
2	IMBASCIANI HAD REFERRED TO, THE EXPANSION OF THAT IS
3	NOW ACROSS CALIFORNIA WITH NINE CENTERS. AND THE
4	PROMISE OF THAT IS NOT JUST THAT THERE ARE
5	FACILITIES AND THERE ARE PEOPLE, BUT IT'S THE
6	AMAZING POTENTIAL THAT CORE COMPETENCIES AND
7	RESOURCES ACROSS THESE PROGRAMS WILL REALLY PROVIDE
8	OPPORTUNITIES TO ADDRESS THESE BARRIERS THAT ARE
9	REPRESENTED IN THE SCHEMATIC DIAGRAM ABOVE.
10	AS YOU KNOW, SOME OF THE FIRST PROGRAMS WE
11	LAUNCHED WERE EDUCATION PROGRAMS TO TRAIN THE
12	WORKFORCE OF TOMORROW, TO BUILD THE DIVERSE
13	CULTURALLY SENSITIVE AND SKILLFUL WORKFORCE IN ALL
14	ASPECTS OF DEVELOPMENT OF EDUCATION AND OF MEDICINE
15	AND HEALTHCARE ADVOCACY, ALL ASPECTS.
16	SO WHAT ELSE IS BEING SET UP THIS YEAR?
17	THE PATIENT SUPPORT PROGRAM, WHICH YOU HEARD
18	DESCRIBED IN PRIOR MEETINGS, THE RFA FOR THAT IS NOW
19	OPEN. THAT'S UNDER DEVELOPMENT BY THE TEAM. AND
20	YOU WILL HEAR MORE ABOUT SOME OF THIS IN THE ROADMAP
21	PRESENTATION BY SEAN TURBEVILLE.
22	THE COMMUNITY CARE CENTERS CONCEPT
23	DEVELOPMENT HAS BEEN UNDER WAY. AND AS PARTNER TO
24	THAT, THERE HAVE BEEN A SERIES OF LISTENING SESSIONS
25	WHICH MANY OF YOU HAVE BEEN PARTICIPATING IN. THANK

1	YOU VERY MUCH. AND THE MOST RECENT CULMINATED IN A
2	STATEWIDE LISTENING SESSION IN SACRAMENTO LAST WEEK
3	WHICH WAS AMAZINGLY SUCCESSFUL, JUST SO RICH WITH
4	INSIGHT AND PROBLEM SOLVING AND DISCUSSION. MEMBERS
5	OF THE BOARD WERE THERE, AND I'M SURE THAT AT SOME
6	POINT THEY WILL BE ABLE TO SHARE. WE WERE VERY
7	FORTUNATE THAT WE HAD MEMBERS ALSO LEAD THE PANEL,
8	SUCH AS MARIA BONNEVILLE, YSABEL DURON. AND SO
9	WE'RE REALLY FORTUNATE FOR THAT LEVEL OF ENGAGEMENT.
10	FANTASTIC.
11	SO LATER ON YOU WILL HEAR THE INITIAL
12	DRAFT OF THE ROADMAP FOR ACCESSIBILITY AND
13	AFFORDABILITY, WHICH WILL BE INTRODUCED BY THE CHAIR
14	OF OUR AAWG WORKING GROUP AND THEN PRESENTED BY SEAN
15	TURBEVILLE.
16	ALL RIGHT. SO HERE'S A LITTLE BIT MORE
17	KIND OF DEMONSTRATION CASES. WE'VE PRESENTED, SHYAM
18	PATEL, OUR HEAD OF BUSINESS DEVELOPMENT AND ALLIANCE
19	MANAGEMENT, HAS PRESENTED AT MANY PRIOR BOARD
20	MEETINGS AND ALSO AT BIO. HE AND I AND MEMBERS OF
21	THE LEADERSHIP TEAM HAVE PRESENTED ALL AROUND THE
22	COUNTRY, DESCRIBING THE CIRM FUNDING MODEL AND HOW
23	IT DERISKS PROGRAMS AND ARE ABLE TO GET THEM THROUGH
24	THIS VALLEY OF DEATH. AND IT'S SOMETHING THAT, AS
25	DR. IMBASCIANI HAD POINTED OUT, IS THE ENVY OF MANY

1	AND ALSO A DESIRE TO PARTNER WITH US BECAUSE OF THIS
2	OPPORTUNITY.
3	THE MOST RECENT OF THESE, ESPECIALLY
4	NOTABLE IN THIS CURRENT FINANCIAL CLIMATE, IS A
5	PROGRAM OUT OF UCSD LED BY DR. STEPHANIE CHERQUI AS
6	THE PI IN A RARE DISEASE CALLED CYSTINOSIS. AND IT
7	UTILIZES A GENE THERAPY PLATFORM WHICH WAS DEVELOPED
8	BY DR. DON KOHN AT UCLA. SO IT WAS A COLLABORATION
9	THAT WAS ACTUALLY ENABLED BY THE ALPHA CLINICS
10	NETWORK AND JUST THIS ECOSYSTEM THAT WE HAVE. AND
11	DR. CHERQUI WAS ABLE TO BRING IT TO A POINT THAT IT
12	RECEIVED INDUSTRY ATTENTION. AVROBIO HAS LICENSED
13	IT, AND MOST RECENTLY NOVARTIS HAD ACQUIRED IT FOR
14	\$88 MILLION SUBJECT TO MILESTONES, ET CETERA. THIS
15	ADDS TO THE TOTAL OF OVER \$24 BILLION IN INDUSTRY
16	INVESTMENT INTO OUR PROGRAMS. SO, AGAIN, JUST
17	HIGHLIGHTING CIRM'S VALUE PROPOSITION AND ROLE.
18	EVEN IN TIMES OF ECONOMIC CHALLENGES, IT'S A SOURCE
19	OF RELIABLE SUPPORT AND FUNDING FOR HIGH IMPACT,
20	SCIENTIFICALLY MERITORIOUS PROGRAMS SUCH AS THIS.
21	NEXT SLIDE PLEASE. HOWEVER, AGAIN
22	SPEAKING TO THE POINT THAT WE CAN OVERCOME ALL THESE
23	THINGS BUT THEN REALITY SETS IN, WE STILL HAVE MANY
24	CHALLENGES AHEAD OF US. AND THIS IS SOMETHING I PUT
25	AS INITIAL SUCCESS IS ALSO A PROBLEM STATEMENT.
	3.6

1	THIS IS A VERY LOUD, UNDERLINED, BOLD PROBLEM
2	STATEMENT. YOU WILL RECOGNIZE EVIE ON THIS SLIDE.
3	SHE'S NOW OVER TEN YEARS OLD YEAR. THIS IS JUST A
4	YEAR OR TWO AGO. SHE AS AN INFANT WAS TREATED WITH
5	DR. KOHN'S UNDER DR. KOHN'S TRIAL FOR THIS
6	CONDITION CALLED ADA-SCID, ADENOSINE DEAMINASE
7	DEFICIENCY, AN ENZYME THAT LEADS TO INABILITY TO
8	FORM AN IMMUNE SYSTEM, ALSO CALLED BUBBLE BABY
9	DISEASE. SHE'S BEEN CURED OF THIS FOR OVER TEN
LO	YEARS.
L1	FURTHERMORE, IN THAT SAME TRIAL, 50 BABIES
L2	HAVE BEEN TREATED WITH A HUNDRED PERCENT SURVIVAL
L3	AND 90-PERCENT EFFICACY. ONE-TIME TREATMENT.
L4	PARADIGM SHIFTING. REMARKABLE.
L5	ORCHARD THERAPEUTICS WAS FORMED WITH THIS
L6	AS THEIR LEAD PROGRAM. THEY SHELVED THIS PROGRAM IN
L7	JUNE 2021. BECAUSE OF CIRM FUNDING AND PATIENT
L8	ADVOCACY AND ALL THE EFFORTS TOWARD IT, THERE WAS
L9	AGREEMENT BY THE COMPANY TO RETURN THE PROGRAM TO
20	UCLA SO DR. KOHN CAN CONTINUE THIS PROGRAM. THERE'S
21	NOW AN ACTIVE IND THAT THEY WERE ABLE TO PROVIDE
22	UNDER PREAPPROVAL PATHWAYS THROUGH THE FDA. AND THE
23	FIRST FEW PATIENTS HAVE NOW BEEN TREATED UNDER A
24	TREATMENT PROTOCOL. THE PROBLEM IS STILL NOT
25	SOLVED, BUT ONE OF THE THINGS, A KEY THEME THAT WE

1	ARE HEARING, AND WE'VE HEARD IT AT AAWG MEETINGS AND
2	ELSEWHERE, IS THAT FOR CONDITIONS SUCH AS THIS THERE
3	IS NO OTHER TREATMENT, THERE IS NO OTHER CURE.
4	WELL, THERE'S TREATMENT, BUT IT'S SYMPTOMATIC, AND
5	IN SOME CASES THERE ARE NO TREATMENTS. WHAT DO YOU
6	DO?
7	SOMETIMES THESE ARE THE BEST TREATMENTS
8	THAT EVEN INVOLVEMENT IN A CLINICAL TRIAL, IN THIS
9	CASE, IT'S AN EXTREME CASE WHERE ACTUALLY THEY
10	ALREADY HAD BENEFIT FROM IT DURING THE TRIAL. NOT
11	SAYING THAT'S IN EVERY TRIAL. BUT IF THEY'RE NOT
12	ACCESSIBLE, THEN THERE'S NO CHANCE OF THAT.
13	SO WHAT ARE WE GOING TO DO ABOUT THAT?
14	FIRST OFF, JUST A REMINDER, THAT OVER HALF OF OUR
15	DEVELOPMENT PORTFOLIO IS IN RARE DISEASE. IT'S IN
16	VERY CONDITION THAT IS PROBABLY THE MOST CHALLENGING
17	OF THE CELL AND GENE THERAPY. CELL AND GENE THERAPY
18	AS A SPACE HAS A CONSIDERABLE AMOUNT OF CHALLENGES.
19	EVEN CAR-T THERAPIES THAT HAD BEEN LICENSED TO
20	BIOPHARMA, IT'S BEEN RECOGNIZED THAT THERE WERE
21	CHALLENGES IN MANUFACTURING AND EVERYTHING ELSE, AND
22	IT'S STILL UNDER CONSIDERATION AS TO WHETHER THE
23	BIOPHARMA MODEL IS THE APPROPRIATE PLACE IN GENERAL,
24	AT LEAST IN THE EARLY PHASES, FOR THESE THERAPIES TO
25	BE DEVELOPED AND DISTRIBUTED. HOWEVER, ONE OF THE

1	PROBLEMS IS, BECAUSE FOR EACH INDICATION THERE ARE
2	SO FEW PATIENTS, THE FINANCES DON'T WORK OUT. IT
3	DOESN'T FIT INTO BUSINESS PLANS. IT DOESN'T FIT
4	INTO THE TYPICAL COMMERCIALIZATION MODELS AND
5	PATHWAY. WHAT DO WE DO?
6	RARE DISEASE IN AGGREGATE IS SIGNIFICANT
7	IN TERMS OF DISEASE BURDEN. AS YOU CAN SEE THE
8	NUMBERS HERE, EVEN THOUGH EACH ONE MAY AFFECT LESS
9	THAN 200,000, IN ULTRA CASES EVEN FEWER,
10	CUMULATIVELY IN AGGREGATE RARE DISEASES AFFECTS 30
11	MILLION AMERICANS. IT'S SIGNIFICANT. SO ONE OF THE
12	OPPORTUNITIES WITH CELL AND GENE THERAPY, ESPECIALLY
13	THESE TECHNOLOGY PLATFORMS, IS THAT, ALTHOUGH YOU'RE
14	DEVELOPING A PROGRAM FOR A SPECIFIC RARE DISEASE,
15	FOR INSTANCE, ONE CAN IMAGINE AN APPROACH WHERE IT
16	ACTUALLY COULD BE APPLIED IN A PLATFORM TECHNOLOGY
17	ACROSS DISEASES AND EVEN INTO MORE COMMON DISEASES.
18	SO THOSE ARE THE OPPORTUNITIES. NOT ONLY COULD THEY
19	ADDRESS UNMET MEDICAL NEED, BUT DEVELOP TECHNOLOGY
20	PLATFORMS THAT CAN BE APPLIED MORE BROADLY AS WELL
21	AS DEVELOP THE PARALLEL NEEDS IN TERMS OF THE
22	HEALTHCARE DELIVERY, COVERAGE, AND INFRASTRUCTURE
23	THAT'S NEEDED FOR CELL AND GENE THERAPY IN GENERAL.
24	SO IT'S ALMOST LIKE THE FIRST CHILD GOING OUT THERE
25	IN THE WORLD.

1	SO MUCH OF WHAT OUR DISCUSSIONS AND OUR
2	ACTIVITIES, IN THIS PAST YEAR ESPECIALLY, BUT HAS
3	BEEN PERCOLATING THROUGHOUT HAVE BEEN IN LARGE
4	STAKEHOLDER ENGAGEMENT IN POTENTIAL SOLUTIONS.
5	WE'VE SPOKEN TO THOSE FOUNDATIONS AND PATIENT-DRIVEN
6	INITIATIVES THAT HAVE ACTUALLY RUN N OF 1 TRIALS
7	WITH REGULATORY SUPPORT. BECAUSE IN THOSE CASES
8	SOMETIMES THAT'S THE ONLY CHILD THAT HAS BEEN
9	IDENTIFIED. AND SO THAT PLATFORM IS SOMETHING THAT
10	IS NOT GOING TO GO INTO A COMMERCIAL MODEL.
11	HOWEVER, A LOT HAS BEEN LEARNED FROM THAT, AND
12	THERE'S A NEED FOR IT.
13	FYODOR URNOV, WHO'S ONE OF THE PIONEERS IN
14	THE FIELD OF CELL AND GENE THERAPY, HAD WRITTEN AN
15	OPINION PIECE IN THE NEW YORK TIMES AT THE END OF
16	LAST YEAR SPEAKING TO THIS PROBLEM STATEMENT OF WE
17	HAVE INCREDIBLE POTENTIAL, ESPECIALLY WITH CRISPR
18	EDITING AND NEXT GENERATION BASE EDITING, ET CETERA,
19	FOR ACTUALLY CURING DISEASE. AGAIN, SINGLE
20	TREATMENTS, SIMILAR TO THE SCENARIOS WE MENTIONED.
21	HOW DO YOU DO THAT THOUGH?
22	SOME OF THE INVOLVEMENT THAT WE HAVE IN
23	PARTNERSHIPS, ABLA CREASEY AND SHYAM PATEL ARE
24	PICTURED HERE. THEY ARE OUR REPRESENTATIVES TO THE
25	BESPOKE GENE THERAPY CONSORTIA, WHICH INVOLVES THE

1	FDA, THE FOUNDATION FOR THE NIH, AND THE NIH, NCATS,
2	MAJOR GROUPS TRYING TO DETERMINE WHETHER A BESPOKE
3	PLATFORM-BASED APPROACH COULD ADDRESS BROADLY ACROSS
4	INDICATIONS. AND ABLA AND SHYAM LED A DISCUSSION AT
5	THE RECENT AMERICAN SOCIETY FOR CELL AND GENE
6	THERAPY IN L.A.
7	AND THEN WE WERE INVITED TO A THINK TANK
8	IN WASHINGTON, D.C. CONVENED BY CONCERNED SCIENTISTS
9	WHO SEE THE PROMISE OF THEIR WORK, BUT KNOW THAT
10	THERE'S NOWHERE TO KIND OF RECEIVE IT ON THE
11	DOWNSTREAM. AND WE, ALONG WITH NIH, THE DIRECTOR OF
12	ARPA-H AND CIRM, SCIENTISTS, FDA, WE DISCUSSED NOVEL
13	REGULATORY APPROACHES, COLLABORATIONS THAT COULD
14	ENABLE PLATFORM APPROACHES. DISCUSSED MODELS SUCH
15	AS POINT-OF-CARE MANUFACTURING, WHICH IS SOMETHING
16	THAT CAN BE SUPPORTED BY OUR MANUFACTURING
17	INITIATIVE, FOR INSTANCE. AND EVEN NONPROFIT MODELS
18	AND ACADEMIC-BASED MODELS THAT MAY SUPPLANT A
19	BIOPHARMA TYPE MODEL AT LEAST INITIALLY. SO THOSE
20	ARE STILL UNDER DISCUSSION, AND WE HOPE TO BE ABLE
21	TO BRING BACK MORE INFORMATION ON SOME OF THESE FOR
22	CONSIDERATION.
23	ONE OF THE THINGS THAT I WANTED TO SAY IS
24	THAT CIRM IS UNIQUELY POSITIONED. WE GET INVITED TO
25	ALL THESE DISCUSSIONS BECAUSE OUR FUNDING MODEL, OUR

1	INFRASTRUCTURE, OUR ECOSYSTEM, OUR PROJECTS
2	THEMSELVES, WE HAVE A VERY UNIQUE OPPORTUNITY TO,
3	AGAIN, REMAIN ON THE LEADING EDGE OF WHERE WE ARE IN
4	THE CHALLENGES WITH CELL AND GENE THERAPY.
5	AND WE DO THIS IN PARTNERSHIP. SO I
6	WANTED TO ACKNOWLEDGE NOT EVERYBODY IS UP HERE
7	BECAUSE WE'VE HEARD ABOUT SOME OTHER ACCOLADES AND
8	AWARDS, BUT OUR BOARD, OUR PATIENT ADVOCATES, OUR
9	GWG REVIEWERS, AND OUR SCIENTISTS ARE ALL
10	WORLD-RENOWNED LEADERS IN THE FIELD. SO I JUST
11	WANTED TO HIGHLIGHT A FEW. DAVID WILLIAMS, WHO WAS
12	FUNDED UNDER OUR SICKLE CELL CURE PARTNERSHIP WITH
13	THE NIH FROM BOSTON CHILDREN'S, WHO PARTNERS WITH
14	UCLA AND UCSF IN OUR ALPHA CLINICS ON THE SICKLE
15	CELL PROGRAM, WAS AWARDED THE ASGCT FOUNDERS AWARD
16	SEVERAL WEEKS AGO. RAYNE ROUCE WHO'S AN INCREDIBLE
17	GWG MEMBER, KUDOS TO GIL AND TEAM FOR BUILDING SUCH
18	AN AUGUST GWG TEAM REALLY TO REVIEW OUR
19	PROGRAMS THAT CAN BE BROUGHT TO YOU. RAYNE HAS BEEN
20	A LEADER IN ADVANCING DEI BROADLY ACROSS THE
21	COMMUNITY. SHE'S A PEDIATRIC ONCOLOGIST AT BAYLOR
22	AND TEXAS CHILDREN'S. AND, OF COURSE, YOU RECOGNIZE
23	RIGHT UNDERNEATH THE PICTURE, OUR BELOVED BOARD
24	MEMBER AND LEADER, YSABEL DURON, WHO BASICALLY WAS
25	THE REASON FOR THE CALL TO ACTION DURING THE COVID

1	TIMES THAT LED TO WHERE WE ARE WITH OUR DEI
2	INITIATIVE, AGAIN WITH THE LEADERSHIP FROM FORMER
3	BOARD MEMBER AL ROWLETT. WE'RE GREATLY INDEBTED TO
4	YOUR LEADERSHIP FOR THAT.
5	SO YSABEL, AS YOU KNOW, HAS BEEN APPOINTED
6	TO THE NATIONAL CANCER ADVISORY BOARD BY PRESIDENT
7	BIDEN. THIS HAS BROUGHT A WEALTH OF INFORMATION AND
8	CONNECTIVITY TO US AS WE CONSIDER OUR PROGRAMS.
9	JOY CAVAGNARO, WHO'S BEEN A LONG-TERM,
10	AGAIN, GWG MEMBER IN THE ARENA OF REGULATORY
11	SCIENCES AND DEVELOPMENT, RECEIVED THE ASGCT
12	CATALYST AWARD. AND OTHER CALIFORNIA SCIENTISTS
13	SUCH AS HELEN BLAU, CRYSTAL MACKALL AND OTHERS WERE
14	FEATURED SPEAKERS AT THE ASGCT, AND IN THIS CASE
15	HELEN BLAU AT THE ISSCR PRESIDENTIAL PLENARY WHERE
16	SHE REPORTED ON THE REGENERATIVE MEDICINE PROGRAM
17	SHE HAD FUNDED BY CIRM FOR MUSCLE REGENERATION.
18	SO JUST TO RECAP, CIRM'S FUNDING MODEL HAS
19	BUILT A ROBUST AND DIVERSE PORTFOLIO AND PIPELINE,
20	THERAPEUTICS DEVELOPMENT, INFRASTRUCTURE AND
21	EDUCATION PROGRAMS. OUR FIVE-YEAR STRATEGIC PLAN
22	HAS KICKED OFF. WE'VE BEEN VERY HAPPY WITH HOW
23	WE'VE DONE ON THIS PLAN FOR THE FIRST YEAR. THAT'S
24	ALL SEEDING THE PIECES, PUTTING THE PIECES IN PLACE,
25	WITH THE MISSION OF ADVANCING WITH THE OBJECTIVE

1	OF ADVANCING OUR MISSION OF DELIVERING
2	TRANSFORMATIVE SCIENCE TO CLINICAL TRIALS AND
3	THERAPIES AND MAKING THEM ACCESSIBLE.
4	AND THIS FUNDING MODEL AND STRATEGY ARE
5	ADAPTABLE TO REAL-TIME ADVANCEMENTS IN THE FIELD,
6	EMERGING PRIORITIES, PROGRAMMATIC DIRECTION FROM
7	THIS BOARD, AND OPPORTUNITIES TO ADVANCE CIRM'S
8	MEETINGS IN AREAS SUCH AS RARE DISEASE, CNS, TOPICS
9	THAT WILL BE DISCUSSED TODAY, AS WELL AS OTHER
10	POTENTIAL PRIORITIES. AND SO I'LL TAKE QUESTIONS,
11	AND THEN I'D LIKE TO HAND IT OVER TO DR. GIL
12	SAMBRANO WHO WILL LAY DOWN KIND OF THE HOW WE DO IT
13	IN TERMS OF THE FUNDING, WHAT THE ELIGIBILITY IS,
14	HOW THIS PIPELINE WAS BUILT THROUGH OUR MACHINERY,
15	AND THAT HOPEFULLY WILL PROVIDE SOME INITIAL
16	PERSPECTIVE IN TERMS OF WHAT IS POSSIBLE AS THE
17	BOARD ENGAGES IN CONTINUED PROGRAMMATIC
18	CONSIDERATIONS.
19	SO WITH THAT, CHAIR IMBASCIANI, I'LL TURN
20	IT OVER TO YOU. AND I'M HAPPY TO TAKE ANY
21	QUESTIONS. THANK YOU.
22	CHAIRMAN IMBASCIANI: MEMBER JUELSGAARD.
23	MR. JUELSGAARD: YES, MARIA. I'D LIKE TO
24	TALK A LITTLE BIT ABOUT THE SLIDE THAT'S HEADED
25	INITIAL SUCCESS IN CGT IS ALSO OUR PROBLEM

1	STATEMENT, AND THAT'S THE DON KOHN THERAPEUTIC AREA
2	OF SCID.
3	SO LET'S ASSUME FOR A MOMENT THAT THERE'S
4	NEVER A COMMERCIAL PARTNER TO BE FOUND FOR THAT
5	PARTICULAR DISEASE, YET WE HAVE A VERY SUCCESSFUL
6	TREATMENT. WHAT'S OUR THOUGHT PROCESS ABOUT WHERE
7	WE GO IN THAT SET OF CIRCUMSTANCES? AND I WANT TO
8	USE THAT AS A POTENTIAL MODEL FOR OTHERS THAT MAY
9	FIT THAT BECAUSE THERE ARE A NUMBER OF COMMERCIAL
10	ISSUES THAT COME UP WITH THESE SORTS OF DISEASES.
11	THE FIRST ARE THE NUMBER OF PATIENTS THAT ARE
12	INVOLVED. THE SMALLER THE NUMBER, THE MORE
13	DIFFICULT IT IS COMMERCIALLY FOR WHAT IT IS THAT IS
14	INVOLVED IN THE TREATMENT, THE COST OF ACTUALLY
15	PREPARING THE TREATMENT FOR ADMINISTRATION, A NUMBER
16	OF OTHER ISSUES. LET'S JUST ASSUME FOR A MOMENT
17	THERE IS NO COMMERCIAL PARTNER. HOW HAVE WE THOUGHT
18	ABOUT THAT?
19	DR. MILLAN: SO THOSE ARE IT'S A VERY
20	IMPORTANT TOPIC. AND NOT ONLY IS IT IMPORTANT, IT'S
21	ACTUALLY IN FRONT OF US, THAT WE ARE IN ORDER FOR
22	US TO ACTUALLY CONTINUE TO BRING THESE PROGRAMS
23	FORWARD, WE NEED TO ACTUALLY COME UP WITH SOLUTIONS
24	TO THAT IN REAL TIME BECAUSE WE ACTUALLY HAVE THEM
25	IN FRONT OF US TODAY.

1	ONE OF THE THINGS I SHOULD POINT OUT IS
2	THAT I MENTIONED THERE ARE SOME PROGRAMS THAT ARE
3	ALREADY ON THE DOCKET FOR APPROVAL THIS YEAR IN
4	SICKLE CELL, FOR INSTANCE. THERE ARE TWO PROGRAMS,
5	ONE OUT OF VERTEX, ONE OUT OF BLUEBIRD, THAT ARE FOR
6	CONSIDERATION IN DECEMBER. MENTIONED THE ONE FOR
7	DUCHENNE MUSCULAR DYSTROPHY. ONE IN HEMOPHILIA IS
8	COMING UP, I THINK ANOTHER ONE IN DUCHENNE MUSCULAR
9	DYSTROPHY. SO SOME OF THESE ARE ACTUALLY BEING
10	BROUGHT FORWARD BY COMMERCIAL ENTITIES. SO WE WILL
11	LEARN FROM THAT. WE'RE ALSO LEARNING FROM NOVARTIS,
12	GILEAD, KITE IN TERMS OF WHAT THEY'VE DONE WITH
13	CAR-T'S THAT WILL INFORM WHAT INNOVATIVE SOLUTIONS
14	HAVE BEEN CREATED IN THAT CONTEXT. AND SO THAT IT
15	NEEDS TO BE DETERMINED WHETHER THERE IS AN ADAPTOR
16	SOLUTION THAT WILL BE ABLE TO TAKE OUR ACADEMIC
17	PROGRAMS AND THEN BE ABLE TO MAKE THEM READY FOR
18	THIS. SOME OF THE THINGS WE'RE PUTTING IN PLACE
19	SUCH AS THE MANUFACTURING NETWORK AND THE
20	PARTNERSHIPS ARE INTENDED TO HELP CREATE THAT
21	ADAPTOR.
22	THERE ARE SOME CASES, AND MANY HAVE TALKED
23	ABOUT IT, WHERE IT MAY BE THAT THEY NEVER GO INTO
24	THESE PROGRAMS. SPEAKING WITH THE HEAD OF THE RARE
25	DISEASE PROGRAMS AT MANY OF THESE COMPANIES,

1	NOVARTIS INCLUDED, WHICH THEY DID TAKE UP OUR
2	PROGRAM, THEY HAVE SAID THERE ARE SOME PROGRAMS THEY
3	WOULD LIKE TO PURSUE. THEY HAVE IN-HOUSE PEOPLE
4	WORKING ON IT, BUT THEY'RE NOT GOING TO TAKE IT TO
5	COMMERCIALIZATION. I ASSUME THEY'RE ALSO WORKING ON
6	SOLUTIONS, AND WE WILL CONTINUE TO BE IN TOUCH WITH
7	THEM.
8	SO WHERE DOES THAT LEAVE US? IT LEAVES US
9	WITH A PARADIGM THAT'S VERY SIMILAR, NOT EXACTLY THE
10	SAME, TO SOMETHING I'M FAMILIAR WITH, WHICH IS ORGAN
11	TRANSPLANTATION WHERE IT WAS A LIFESAVING
12	ADVANCEMENT WHERE INFRASTRUCTURE AND POLICY,
13	NATIONAL INFRASTRUCTURE NEEDED TO BE PUT BEHIND
14	BEING ABLE TO MAKE THIS HAPPEN. IT REMAINED WITHIN
15	THE PRACTICE OF MEDICINE WITH STANDARDS PUT IN
16	PLACE, BUT IT'S VERY MUCH ACADEMIC BASED. THERE ARE
17	INFRASTRUCTURE PROGRAMS FUNDED BY THE HHS FOR THE
18	ORGAN PROCUREMENT ORGANIZATIONS AND HOW THAT'S RUN
19	THROUGH THE UNOS, FOR INSTANCE, AND THEN LOCAL
20	PROCUREMENT ORGANIZATIONS. INDUSTRY HAS BEEN BUILT
21	UP FOR IMMUNOSUPPRESSION MEDICATIONS, ORGAN
22	PRESERVATION SOLUTIONS. SO THERE'S KIND OF THE
23	SO-CALLED PICKS AND SHOVELS INDUSTRY THAT GO AROUND
24	THAT TO SUPPORT IT. THAT'S ANOTHER POTENTIAL MODEL.
25	WE DON'T HAVE THE ANSWER YET, BUT WE ARE

1	ENGAGED ACTIVELY WITH TESTING SOME OF THESE MODELS.
2	ONE OF THEM IS THIS BESPOKE GENE THERAPY NETWORK,
3	FOR INSTANCE. ABLA AND SHYAM IN UPCOMING MEETINGS
4	WILL DESCRIBE SOME PROGRESS ON THAT. THE IDEA
5	BEHIND THAT IS THAT NIH, FDA, CIRM, OTHER COMPANIES,
6	PATIENT GROUPS ARE TRYING TO DETERMINE WHETHER WE
7	CAN BRING IN EFFICIENCY TO EVEN THE NUTS AND BOLTS
8	OF HOW YOU BRING THESE THERAPIES FORWARD. SO, FOR
9	INSTANCE, BUILDING THE BEST PLATFORM FOR THE VECTOR,
10	FOR THE GENE DELIVERY VECTOR, THAT THEN LINKS WITH
11	IT AN EVIDENCE BASE THAT THE FDA CAN BE VERY
12	COMFORTABLE WITH TO FACILITATE ACCELERATED APPROVAL
13	OR EXPEDITED PATHWAYS, BUT THEN HAVING AN AGREEMENT
14	FROM THE COMMUNITY WE WILL USE THAT PLATFORM. IT
15	KIND OF TAKES OUT SOME OF THE COMPETITIVE ASPECTS OF
16	WHAT TYPICAL DRUG DEVELOPMENT IS, THE SECRET SAUCE.
17	NO. EVERYBODY GETS THE SAUCE BECAUSE THAT'S GOING
18	TO ALLOW YOU TO COME UP WITH YOUR END RESULT.
19	AND SO THERE'S A WHOLE NEW PARADIGM THAT'S
20	GOING TO NEED TO FORM IN A COMPANY FOR THAT TO TAKE
21	HOLD, BUT THERE IS PROGRESS. AND WE'LL CONTINUE TO
22	BRING FORWARD JUST KIND OF THE HOW-TOS IN THAT. AND
23	WE DO HAVE OPPORTUNITIES BETWEEN CIRM FUNDING
24	MODELS, OUR REQUIREMENTS, OUR ABILITY TO CONVENE,
25	AND TO PROMOTE THIS TYPE OF COLLABORATIVE APPROACH.

1	IT'S NOT AN ANSWER BECAUSE NOBODY HAS AN ANSWER YET,
2	BUT IT'S THE APPROACH THAT I HOPE I BROUGHT SOME
3	LIGHT TO. THANK YOU.
4	CHAIRMAN IMBASCIANI: MEMBER CHOU.
5	DR. CHOU: I HAVE A RELATED FOLLOW-UP
6	QUESTION ON THIS. SO I THINK YOU MENTIONED ABOUT
7	FOR BIG PHARMA THE MODEL OF CELL/GENE THERAPY
8	ACTUALLY MAY NOT BE THE RIGHT FIT. FROM WHAT I CAN
9	SEE IN THE INDUSTRY, I THINK THIS TREND IS COMING
10	THAT WAY. AND I USED TO RUN ALSO A BIG
11	ORGANIZATION, HELD THE P&L RESPONSIBILITY. I WOULD
12	SAY THAT'S REALLY HARD TO INCORPORATE THE CELL/GENE
13	THERAPY MODEL.
14	SO IN A SENSE, ALSO, I THINK THE THOUGHT
15	HAS BEEN FROM THE INDUSTRY POINT OF VIEW GOING MORE
16	TOWARDS THIS IS GOING TO BE THE MEAT OF MORE SITES
17	OF THE PHARMA COMPANY MODEL MAY FIT BETTER. SO MY
18	QUESTION, THEN, IS FROM CIRM ANGLE, ARE WE ARE WE
19	DOING SOMETHING TO BUILD THAT PARTNERSHIP WITH THE
20	BIG PHARMA? AND ARE WE CHANGING THAT TO MORE LIKE
21	TARGET MID-SIZE OR SMALL SIZE OF COMPANY TO MAKE
22	SURE THERE'S A WAY TO GET THE MEDICINES TO THE
23	PATIENTS?
24	DR. MILLAN: THANK YOU SO MUCH. SHYAM
25	PATEL IS OUR HEAD OF BUSINESS DEVELOPMENT, AND HE'S

1	BUILT QUITE A SIGNIFICANT INDUSTRY ALLIANCE PROGRAM
2	WHERE WE DO HAVE PARTNERSHIPS WITH DEVELOPERS AS
3	WELL AS MANUFACTURERS AND OTHER INTERESTED PARTIES
4	IN THIS SPACE FOR THAT VERY REASON. THEY SEE THE
5	VALUE IN THE CIRM DERISKING. THEY SEE THE VALUE IN
6	OUR ROBUST PORTFOLIO. PART OF THE ONE OF THE
7	BASIC PRINCIPLES INFORMING THE MANUFACTURING NETWORK
8	IS THAT THIS WOULD PROVIDE AN OPPORTUNITY FOR EARLY
9	ENGAGEMENT AND INFLUENCE BY INDUSTRY PARTNERS ALONG
10	THE WAY SO THAT, WHEN POTENTIAL PROGRAMS ARE READY
11	TO BE PICKED UP, EITHER WITH MANUFACTURERS AS A
12	PARTNER, OR EVEN TAKE IT UP ALTOGETHER, THAT THOSE
13	PROGRAMS ARE MORE READY FOR THAT. SO IT'S BOTH COST
14	EFFICIENCIES AND THE SUITABILITY FOR TRANSFERRING.
15	AND I'M SORRY. I DON'T KNOW IF THAT
16	ANSWERED YOUR QUESTION, JUDY.
17	DR. CHOU: I THINK MY QUESTION IS THEN SO
18	WHEN YOU MENTIONED ABOUT THE RELATIONSHIP WE ARE
19	BUILDING, I WOULD ASSUME THAT'S PROBABLY WITH MUCH
20	MORE ESTABLISHED BIG PHARMA CURRENTLY; IS THAT
21	CORRECT?
22	DR. MILLAN: ACTUALLY NO. WE HAVE A LOT
23	OF RELATIONSHIPS WITH INVESTORS WITH SMALLER
24	COMPANIES AS WELL AS LARGER COMPANIES. SO SOME OF
25	THE LARGER COMPANIES THAT ARE IN OUR INDUSTRY

1	ALLIANCE PROGRAM ARE BAYER, FOR INSTANCE, WHICH HAS
2	WITH IT ASKBIO AND BLUEROCK WHICH RECENTLY REPORTED
3	ON THEIR PARKINSON'S PHASE 1 ENCOURAGING PROGRAM,
4	AND NOVO NORDISK. THEIR ENGAGEMENT WITH US IS NOT
5	ONLY ON THE PROGRAMS, BUT IN CAPACITY AND
6	INFRASTRUCTURE. AND THEY SEE THE VALUE IN
7	PARTNERSHIP. AND SO SHYAM HAD PRESENTED SEVERAL
8	MONTHS AGO, AND HE'LL BE READY TO GIVE AN UPDATE ON
9	MANY ASPECTS OF THESE BUSINESS ALLIANCES, BUT WE'RE
10	ALSO HAPPY TO HAVE KIND OF A SMALLER GROUP RECAP.
11	AND I KNOW THEY'RE EXTREMELY BUSY, BUT WHEN YOU HAVE
12	TIME, WE CAN SCHEDULE THAT.
13	DR. CHOU: THANK YOU. IF I CAN ASK A
14	TOTALLY SEPARATE QUESTION JUST FOR CLARIFICATION.
15	YOU MENTIONED ABOUT CIRM, WE BRAND YOURSELF AS A
16	TRANSLATIONAL INSTITUTE TO GET THE SCIENCE TO THE
17	BENCH. I JUST WANT TO CLARIFY ABOUT WITH THAT KIND
18	OF BRANDING, WHEN WE LOOK AT THE FIVE PILLAR OF THE
19	FUNDING DISTRIBUTION, IS THAT HAVING THE IMPACT OF
20	ANYTHING WE PREFER TO FUND, OR WE'RE STILL KIND OF
21	ACROSS THE BOARD FOR ALL THE FIVE PILLARS?
22	DR. MILLAN: SO I THINK THAT THAT IS GOING
23	TO BE THE SUBJECT OF WHAT DR. IMBASCIANI HAD
24	RECOMMENDED, THAT THE SCIENCE SUBCOMMITTEE LEAD A
25	DISCUSSION IN TERMS OF PRIORITIZATION, WHETHER IT BE

1	TYPES OF PROGRAMS, BY DISEASE AREAS, OR OTHER
2	PROGRAMMATIC DISCUSSION. THE CIRM FUNDING MODEL AND
3	ALL OF THE INFRASTRUCTURE AND EVERYTHING WE SET UP
4	IS ADAPTABLE TO THE DIRECTION, WHETHER IT BE BY
5	PRIORITIES OR PROGRAMS, WHICH IS I THINK WE HAVE
6	REALLY PROBABLY AN OPPORTUNE TIME AND IMPORTANT TIME
7	BECAUSE GIL WILL PROBABLY TELL YOU THAT THERE'S BEEN
8	A HUGE INFLUX OF GRANT APPLICATIONS IN ALL THE
9	PILLARS. SO IT'S VERY TIMELY TO HAVE THAT TYPE OF
10	DISCUSSION AT THE BOARD. THANK YOU SO MUCH, DR.
11	CHOU.
12	CHAIRMAN IMBASCIANI: MEMBER ABOUSALEM.
13	DR. ABOUSALEM: GOOD MORNING AND THANK YOU
14	FOR THE PRESENTATION. JUST AN OPERATIONAL QUESTION.
15	SO I APPRECIATE ALL THESE EFFORTS, FORWARD LOOKING
16	SORT OF CONVERSATIONS, EXPLORATORY CONVERSATIONS FOR
17	NEW OPPORTUNITIES AND NEW WAYS TO EXPAND CIRM'S
18	IMPACT IN AREAS THAT WE MIGHT HAVE NOT BEEN ALREADY.
19	THE QUESTION IS DO YOU HAVE PROVISIONS IN THE 23/24
20	BUDGET THAT WE'RE GOING TO BE LOOKING AT TODAY FOR
21	ANY OF THESE SORTS OF CONVERSATIONS BECOMING
22	GETTING TO A CONCLUSIVE PROGRAM OR A PROCESS OR
23	EXPANDING EXISTING PROGRAMS TO ACCOMMODATE THE
24	FINDINGS FROM THIS?
25	DR. MILLAN: THANK YOU VERY MUCH.

1	REGARDING OUR ABILITY WITH THE PROPOSED 23/24 BUDGET
2	TO BE ABLE TO ACCOMMODATE DIRECTION FROM THE BOARD,
3	FOR INSTANCE, OR ANY OPPORTUNITIES THAT MAY ARISE
4	FROM THESE DISCUSSIONS, WE DO BELIEVE WE HAVE, JUST
5	KIND OF LOOKING AT WHAT THOSE COULD LOOK LIKE, WE DO
6	BELIEVE THAT WITHIN THE PILLAR BUDGETARY REQUESTS,
7	THOSE COULD BE SHAPED TO SUPPORT SOME OF THE
8	OPPORTUNITIES. AND THEN WE WOULD BRING, OF COURSE,
9	THE RATIONALE BEHIND THAT AND WHAT THE SHAPING
10	INITIATIVES WOULD BE IN UPCOMING MEETINGS. THANK
11	YOU SO MUCH.
12	DR. ABOUSALEM: THANK YOU.
13	CHAIRMAN IMBASCIANI: THANK YOU. I CANNOT
14	THINK OF A BETTER SCRIPTED SEGUE, CONSIDERING
15	BUDGET.
16	DR. MILLAN: I THINK THAT DR. YAMAMOTO.
17	CHAIRMAN IMBASCIANI: SORRY. DR.
18	YAMAMOTO.
19	DR. YAMAMOTO: I JUST WANT TO EXTEND THE
20	QUESTION AND POINT THAT STEVE JUELSGAARD RAISED
21	ABOUT THE CHALLENGE THAT WE ARE FACING, TWO POINTS.
22	THE FIRST IS THAT THE VERY FACT THAT WE ARE FACING
23	THIS PROBLEM IS A CREDIT TO WHAT CIRM HAS DONE. NO
24	ONE ELSE HAS GOTTEN THE COUNTRY'S ATTENTION TO THIS
25	PROBLEM BECAUSE NOBODY ELSE HAS CARRIED THE BALL FAR

1	ENOUGH THAT IT'S REALLY BECOME EVIDENT. AND SO
2	WHILE IT'S PART OF THE PROBLEM STATEMENT NOW, IT
3	SHOULD ALSO BE SOMETHING THAT WE RECOGNIZE IS A
4	REALLY UNIQUE CONTRIBUTION, ONE OF MANY, BUT
5	CERTAINLY A UNIQUE CONTRIBUTION THAT CIRM IS MAKING.
6	THE SECOND IS THAT I THINK AT THE END OF
7	THE DAY, THERE'S GOING TO BE NOTHING THAT CAN
8	REPLACE THE FEDERAL GOVERNMENT STEPPING IN TO CARRY
9	THE BALL TO THE NEXT STEP. I THINK IT'S THE REASON
10	I WAS REALLY HAPPY TO HEAR THE CHAIRMAN CALL FOR
11	CIRM'S INCREASED PRESENCE ON THE FEDERAL GOVERNMENT
12	RELATION STAGE TO REALLY DRIVE THESE MESSAGES HOME.
13	SO THIS IS THE FIRST EXAMPLE, BUT ONE OF MANY IF
14	CIRM CAN CONTINUE TO DRIVE SUCCESSES TO THIS POINT
15	WHERE THE ISSUE BECOMES REALLY EVIDENT. WE ALL KNOW
16	THAT, AT THE END OF THE DAY, THERE WOULD HAVE BEEN
17	NO COMPANY THAT WOULD HAVE STARTED MANUFACTURING
18	HUNDREDS OF MILLIONS OF DOSES OF THE VACCINE BEFORE
19	APPROVAL WITHOUT THE GOVERNMENT STEPPING IN AND
20	SAYING, HERE'S A BUNCH OF MONEY. GO AHEAD.
21	SO MAKING THAT I THINK AT THE END OF
22	THE DAY, THE GOVERNMENT IS GOING TO HAVE TO MAKE
23	THESE KINDS OF BETS. AND A PART OF IT WILL BE TO
24	RECOGNIZE THAT WHAT CIRM IS DOING IS MOVING THE BALL
25	TO MAKING THESE PROBLEMS EVIDENT AND DOING IT IN A

1	WAY THAT HAS A CHANCE OF BEING ABLE TO ESTABLISH
2	PLATFORM APPROACHES THAT WILL BE RELEVANT TO
3	MULTIPLE DISEASES. AND I THINK IF THE FEDERAL
4	GOVERNMENT CAN RECOGNIZE THAT, THERE WILL
5	INCREASINGLY BE EXAMPLES IN WHICH THEY WILL STEP IN
6	AND SAY, OKAY. WE'LL LET YOU CARRY THE BALL TO THE
7	NEXT ENABLING STEP. NO COMPANY CAN TAKE THIS ON,
8	BUT WE'RE GOING TO ENABLE IT TO HAPPEN. SO I THINK
9	THAT'S PROBABLY HOW THIS PROBLEM IS GOING TO BE
10	SOLVED, AND IT'S THE REASON THAT CIRM REALLY NEEDS
11	TO BE IN WASHINGTON MAKING THESE POINTS VERY
12	STRONGLY.
13	DR. MILLAN: THANK YOU VERY MUCH.
14	CHAIRMAN IMBASCIANI: THANK YOU. THANK
15	YOU FOR THOSE COMMENTS.
16	TYING TOGETHER A BUDGET PORTFOLIO AND THE
17	FUNDING TO ACHIEVE OUR STRATEGIC GOALS, THE BOARD
18	WILL NOW HEAR FROM DR. SAMBRANO. THANK YOU.
19	DR. SAMBRANO: THANK YOU, DR. IMBASCIANI,
20	DR. MILLAN. IT'S ALWAYS A PRIVILEGE TO STAND BEFORE
21	YOU AND HAVE THE OPPORTUNITY TO PRESENT. TODAY I
22	WANT TO TALK ABOUT OUR CIRM FUNDING MODEL. AND WHAT
23	WE MEAN BY THAT IS WHAT THE PROCESS AND THE
24	PRINCIPLES ARE THAT UNDERLIE THIS AND HOW IT IS THAT
25	WE'VE GOTTEN TO DEVELOP THE PORTFOLIO OF GRANTS THAT

1	WE CURRENTLY HAVE. SO I'M GOING TO TALK ABOUT THAT
2	IN A FEW SLIDES.
3	YOU'VE SEEN THIS ALREADY. WE KNOW THAT
4	EVERYTHING THAT WE FUND AT CIRM IS CATEGORIZED
5	WITHIN THESE FIVE PILLARS OF INFRASTRUCTURE,
6	EDUCATION, DISCOVERY, TRANSLATION, AND CLINICAL.
7	BUT WE CAN LOOK AT THESE A LITTLE DIFFERENTLY
8	BECAUSE THEY ARE INTENDED TO BE CONNECTED, AND THERE
9	ARE RELATIONSHIPS AMONG THEM THAT ARE VERY IMPORTANT
10	TO SEE. IN SOME OF THESE SCREENS YOU CAN SEE IT
11	BETTER THAN IN OTHERS.
12	THE DISCOVERY, TRANSLATION, AND CLINICAL
13	PILLARS ARE CONNECTED ALONG THE THERAPEUTIC
14	DEVELOPMENT PIPELINE. THE IDEA BEHIND THIS IS THAT
15	WE WANT TO SUPPORT PROJECTS THAT COME AT ANY STAGE
16	BETWEEN GENERATING A NEW IDEA AND SUPPORTING A
17	CLINICAL TRIAL THAT ULTIMATELY GETS TO AN APPROVED
18	THERAPY, THAT A PROJECT CAN COME IN AT ANY OF THESE
19	TIME POINTS AND MOVE FORWARD.
20	WE HAVE ALSO VERY SPECIFICALLY SET UP
21	MILESTONES ALONG THAT PATH. SO IDENTIFY THINGS SUCH
22	AS ACHIEVING A SINGLE PRODUCT CANDIDATE. SO A
23	DISCOVERY AWARD WOULD LEAD AN APPLICANT TO ACHIEVE
24	AND CHARACTERIZE A CANDIDATE THAT THEN IS THE
25	PREREQUISITE FOR GETTING A TRANSLATION AWARD. THE

1	TRANSLATION AWARD WOULD ALLOW AN APPLICANT TO MOVE
2	FORWARD THROUGH AWARDEE, EXCUSE ME, THROUGH THE
3	STAGES OF TRANSLATION TO ACHIEVE A PRE-IND MEETING
4	OR OTHER PRESUBMISSION MEETING. AND THEN THAT IS
5	THE PREREQUISITE FOR A CLINICAL PROGRAM.
6	THE IDEA BEHIND THIS IS THAT WE'VE CREATED
7	THE RUNGS ON A LADDER THAT ALLOW A PROJECT TO
8	PROCEED IN AN APPROPRIATE WAY THROUGH THIS PATH.
9	BUT THEN WE ALSO HAVE OUR INFRASTRUCTURE PROGRAMS,
10	SUCH AS ALPHA CLINICS, LET'S SAY, THAT SUPPORTS OUR
11	CLINICAL PROGRAMS. SO THE ALPHA CLINICS PROVIDES
12	CLINICAL TRIAL SUPPORT THROUGH CLINICAL TRIAL
13	COORDINATION, THROUGH ENROLLMENT AND RECRUITMENT
14	HELP. AND SO THAT HELPS SUPPORT THE ACTIVITIES THAT
15	HAPPEN IN THE CLINICAL PROGRAM. WE HAVE OTHER
16	INFRASTRUCTURE PROGRAMS SUCH AS THE MANUFACTURING,
17	SHARED LABS, AND SO ON THAT ARE INTENDED TO DO THE
18	SAME THING.
19	WE HAVE OUR EDUCATION PROGRAM THAT
20	PROVIDES IN MANY WAYS THE WORKFORCE THAT IS UTILIZED
21	WITHIN ALL OF THE RESEARCH PROGRAMS WE HAVE, BUT
22	WITH THE INTENT TO CREATE A DIVERSE COHORT OF
23	INDIVIDUALS THAT ARE ALSO SKILLED AND KNOWLEDGED IN
24	CELL AND GENE THERAPY.
25	SO LOOKING AT IT THIS WAY, WE SEE THE

1	CONNECTIONS AND CAN APPRECIATE THE RELATIONSHIPS
2	BETWEEN THEM A LITTLE BETTER.
3	THE FUNDING OPPORTUNITIES THAT ARE TIED,
4	THEN, TO EACH OF THESE PILLARS HAPPEN THROUGH A VERY
5	SPECIFIC APPLICATION AND REVIEW PROCESS, AND I'LL
6	DESCRIBE THAT BRIEFLY. EVERYTHING THAT WE ISSUE
7	REQUIRES APPLICANTS TO APPLY, TO SUBMIT A PROPOSAL
8	TO CIRM THAT WE CAN LOOK AT AND ASSESS FOR MERIT.
9	SO OUR FUNDING OPPORTUNITIES ARE DESCRIBED IN WHAT
10	WE CALL EITHER A REQUEST FOR APPLICATIONS, AN RFA,
11	OR A PROGRAM ANNOUNCEMENT, A PA. SO THESE DOCUMENTS
12	PROVIDE ALL THE REQUIREMENTS AND ALL OF THE
13	NECESSARY ELEMENTS THAT ARE APPROPRIATE FOR THAT
14	PROGRAM INCLUDING WHAT'S ELIGIBLE AND WHAT'S NOT.
15	AND JUST TO GIVE YOU A BETTER SENSE OF THE
16	TWO TYPES OF SOLICITATIONS THAT WE ISSUE, ONE IS A
17	RECURRING FUNDING OPPORTUNITY WHICH WE CALL PROGRAM
18	ANNOUNCEMENTS. AND SO THAT USUALLY IS APPLIED TO
19	OUR CORE RESEARCH FUNDING. AND THE IDEA BEHIND A
20	RECURRING FUNDING OPPORTUNITY IS THAT IT IS
21	ESSENTIALLY THE SAME OPPORTUNITY THAT'S AVAILABLE
22	MULTIPLE TIMES PER YEAR. AND EACH CYCLE IS LARGELY
23	THE SAME AS THE PREVIOUS ONE. AND SO ONE GOOD
24	EXAMPLE OF THAT IS OUR CLINICAL PROGRAM. THE
25	CLINICAL PROGRAM HAS 12 CYCLES THAT WE RUN PER YEAR,

1	AND THERE'S AN APPLICATION DEADLINE AT THE END OF
2	EVERY MONTH. AND SO IT IS ONGOING AND CONTINUES TO
3	ACCEPT PROJECTS INTO OUR CLINICAL PROGRAM.
4	WE ALSO HAVE NONRECURRING FUNDING
5	OPPORTUNITIES WHICH WE GENERALLY APPLY TO THOSE
6	OPPORTUNITIES THAT WE MAY OFFER ONLY ONCE. SO THE
7	ALPHA CLINICS, MANUFACTURING NETWORK ARE SOMETHING
8	THAT WE WILL RUN ONCE, HOPE TO ESTABLISH THESE
9	PROGRAMS, PUT THEM IN PLACE, BUT IT IS NOT AN
10	OPPORTUNITY THAT WE WOULD NECESSARILY BRING UP
11	AGAIN.
12	WE ALSO DO THIS FOR OUR EDUCATION PROGRAMS
13	SIMPLY BECAUSE THOSE HAVE A TIME SPAN OF ABOUT FIVE
14	YEARS. WE ISSUE FUNDING FOR A COHORT OF PROGRAMS,
15	AND WE WON'T DO IT AGAIN FOR FOUR OR FIVE YEARS.
16	AND TYPICALLY THOSE ARE A LITTLE DIFFERENT EACH TIME
17	WE OFFER THE OPPORTUNITY.
18	AND SO THE RECURRING AND NONRECURRING
19	OPPORTUNITIES ARE BOTH PART OF OUR TOOLKIT THAT WE
20	CURRENTLY USE IN ORDER TO MAKE THESE SOLICITATIONS
21	AND GET APPLICATIONS TO COME IN.
22	NOW, REGARDLESS OF THE PROGRAM TYPE, WHAT
23	PILLAR IT BELONGS TO, THEY ALL HAVE TO GO THROUGH A
24	VERY SPECIFIC APPLICATION AND REVIEW PROCESS. AND
25	THAT IS BEST DESCRIBED IN THIS IMAGE, WHICH IS A
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1	THREE-STEP PROCESS. SO APPLICATIONS THAT COME TO
2	CIRM FIRST GO THROUGH AN ELIGIBILITY ASSESSMENT.
3	AND THE ELIGIBILITY IS DONE INTERNALLY BY THE CIRM
4	TEAM. WE LOOK AT VERY SIMPLE THINGS, OBJECTIVE,
5	CRITERIA, IF YOU WILL, OF WHETHER AN APPLICATION IS
6	COMPLETE, IF IT'S A COMPANY, WHETHER IT'S SOLVENT,
7	WHETHER IT MEETS THE CRITERIA THAT WE HAVE
8	ESTABLISHED IN THE PA OR RFA FOR A THERAPEUTIC
9	CANDIDATE. AND THOSE THAT ARE APPROPRIATE AND
10	ACCEPTED FOR REVIEW THEN GO ON TO THE MERIT REVIEW,
11	WHICH IS TYPICALLY CONDUCTED BY THEY GRANTS WORKING
12	GROUP.
13	AND SO THE GRANTS WORKING GROUP'S TASK IS
14	TO ASSESS THE APPLICATIONS BASED ON THE SCIENTIFIC
15	MERIT, AND THOSE CRITERIA ARE LAID OUT IN OUR RFA'S
16	AND PA'S SO THAT IT IS CLEAR TO THE APPLICANTS WHAT
17	IT IS THE GRANTS WORKING GROUP REVIEWERS WILL LOOK
18	AT. AND BEYOND THE SCIENTIFIC ASSESSMENT, WE ALSO
19	DO, AS YOU KNOW, THE DEI ASSESSMENT AT THIS STAGE.
20	SO OUR PATIENT ADVOCATE MEMBERS OF OUR GRANTS
21	WORKING GROUP PARTICIPATE IN SCORING FOR THOSE THAT
22	ARE TRANSLATIONAL AND CLINICAL APPLICATIONS,
23	PARTICIPATING IN DISCUSSION THAT HELPS US BETTER
24	ASSESS THE DEI ELEMENTS AS WELL.
25	AND THEN THE OUTCOME OF THESE REVIEWS IS A

1	RECOMMENDATION TO THE CIRM BOARD. IN MOST CASES IT
2	IS TO THE APPLICATION REVIEW SUBCOMMITTEE THAT MAKES
3	THE FINAL DETERMINATION, BUT IN SOME CASES, SUCH AS
4	WITH THE AAWG, THE ACCESS AND AFFORDABILITY WORKING
5	GROUP, IT IS THE FULL BOARD. THE IDEA IS THESE
6	RECOMMENDATIONS THAT ARE COMING TO THE BOARD ARE
7	ONLY PART OF THE EQUATION THAT THE ICOC OR THE
8	APPLICATION REVIEW SUBCOMMITTEE MAY USE IN MAKING
9	THAT FUNDING DECISION. SO THERE'S THOSE
10	RECOMMENDATIONS, BUT THERE ARE ALSO CIRM TEAM
11	RECOMMENDATIONS THAT MAY COME TO YOU. THERE ARE
12	ALSO PUBLIC COMMENT AND OTHER FACTORS THAT MAY
13	CONTRIBUTE TO DETERMINING WHETHER CIRM SHOULD FUND A
14	GIVEN PROJECT OR SET OF PROJECTS. AND PART OF THAT
15	MAY BE STRATEGY, PORTFOLIO, OTHER ELEMENTS THAT COME
16	INTO PLAY. AND SO THESE THREE STEPS IS SOMETHING
17	THAT WE UTILIZE FOR ALL OUR PROGRAMS.
18	NOW, WHAT WE FUND, WHAT ACTUALLY COMES IN
19	AND GOES THROUGH THIS PROCESS IS LARGELY DETERMINED
20	BY THE MANDATE UNDER PROP 71 AND/OR PROP 14. AND
21	IT'S PRETTY STRAIGHTFORWARD AND SIMPLE, AND I'VE
22	ACTUALLY ATTEMPTED TO SUMMARIZE THAT IN FOUR
23	BULLETS. THE MAIN ONE BEING RESEARCH USING STEM AND
24	PROGENITOR CELLS AND NOW UNDER PROP 14 WHAT WE
25	DEFINE AS GENETIC THERAPIES. AND SO THAT HAS BEEN

RESEARCH THAT GENERALLY THE NIH AND THE FEDERAL
GOVERNMENT DO NOT SUPPORT OR DOES NOT SUPPORT
SUFFICIENTLY.
AND SO THE CASE THAT WE HAVE MADE, EVEN
THOUGH IT IS TRUE THAT NIH FUNDS STEM CELL RESEARCH,
THEY CERTAINLY HAVE REGENERATIVE MEDICINE PROGRAMS
AND RESEARCH THAT INVOLVES STEM CELLS, IS THAT WE
HAVE A VERY UNIQUE FUNDING MODEL. SO WE TEND TO
FUND RESEARCH AT LATER STAGES, PARTICULARLY THAT
VALLEY OF DEATH, THE TRANSLATIONAL AND CLINICAL
STAGES. WE TEND TO SUPPORT RESEARCH AND ACTIVITIES
THAT THE FEDERAL GOVERNMENT AND NIH DO NOT. AND WE
ALSO PROVIDE A LEVEL OF SUPPORT FOR AWARDEES THAT
GENERALLY IS UNPRECEDENTED IN OTHER FUNDING
AGENCIES. AND SO THOSE ARE OUR KEY ELEMENTS THAT DO
DISTINGUISH US FROM NIH AND THE FEDERAL GOVERNMENT.
ALSO IMPORTANTLY PART OF OUR MANDATE IS
THE DEVELOPMENT OF THERAPIES AND CURES. SO ALL OF
OUR WORK, ALL OF THE RESEARCH THAT WE DO, ALL OF OUR
PROGRAMS ARE DIRECTED IN SOME WAY TOWARDS THAT GOAL.
NOW, UNDER PROP 14 TO ALSO MAKE THEM AFFORDABLE AND
ACCESSIBLE, AND THAT'S SOMETHING THAT WE STILL HAVE
TO TACKLE.
AND THEN, FINALLY, SOMETHING THAT WE'VE
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1	TALKED ABOUT EARLIER TODAY AND IN OTHER MEETINGS IS
2	THE ALLOCATION THAT HAS BEEN SPECIFICALLY SET FOR
3	DISEASES OF THE BRAIN. AND SO HOW THAT IS INCLUDED
4	AND ACCOUNTED FOR WITHIN THE MANDATE IS SOMETHING
5	THAT WE WILL ALSO CONTINUE TO TALK ABOUT.
6	BUT OTHER THAN THAT, THERE IS NO SPECIFIC
7	DIRECTIVE TOWARDS A SPECIFIC DISEASE, CONDITION, ANY
8	SCIENTIFIC DISCIPLINES THAT MUST BE ACCOUNTED FOR OR
9	ANY STAGE OF RESEARCH THAT WE MUST TAKE ON. SO
10	THERE IS STILL WITHIN OUR MANDATE QUITE A BIT OF
11	FLEXIBILITY IN WHAT WE DO.
12	AND I'LL SHOW YOU ONE MORE SLIDE AS IT
13	RELATES TO THE SCOPE OF WHAT IT IS THAT WE DO JUST
14	BECAUSE IT'S A GOOD EXAMPLE OF HOW IT IS THAT WE
15	DETERMINE WHAT COMES IN AS AN APPLICATION. AND
16	OFTENTIME THIS RELATES TO THE SUPPORT OF DIFFERENT
17	THERAPEUTIC CANDIDATE TYPES. SO OVER THE YEARS THIS
18	HAS CHANGED A LITTLE BIT HERE AND THERE, BUT
19	GENERALLY WE HAVE SUPPORTED CELL THERAPIES WHERE A
20	STEM OR PROGENITOR CELL IS A COMPONENT OF THAT
21	THERAPY OR IS USED TO MANUFACTURE IT. WE ALSO,
22	BEYOND THE ACTUAL CELL THERAPY, WHICH IS WHAT MOST
23	PEOPLE THINK ABOUT WITH RESPECT TO REGENERATIVE
24	MEDICINE, ARE SMALL MOLECULES OR BIOLOGICS. THESE
25	ARE JUST SMALL MOLECULE DRUGS THAT ACT ON A STEM

1	CELL, WHETHER IT'S AN ENDOGENOUS STEM CELL OR A
2	CANCER STEM CELL, TO EXERT A THERAPEUTIC EFFECT. WE
3	ALSO ALLOW FOR, FOR EXAMPLE, ANY BIOLOGIC THAT CAN
4	MODIFY A STEM CELL THERAPY, SO AN IMAGING AGENT, FOR
5	EXAMPLE, OR WHERE A STEM CELL IS NECESSARY TO
6	MANUFACTURE IT. SO THESE ARE EXTRACELLULAR
7	VESICLES, FOR EXAMPLE, THAT CAN BE GENERATED.
8	SO ALL OF THOSE DIFFERENT TYPES OF
9	THERAPEUTIC CANDIDATES AND MODALITIES QUALIFY FOR
10	CIRM FUNDING. SO IT IS A PRETTY BROAD WINDOW. AND
11	NOW UNDER PROP 14 WE HAVE ALSO ADDED THE GENETIC
12	THERAPY. AND SO THIS WE HAVE DEFINED QUITE BROADLY
13	AS WELL. THIS IS BEYOND JUST THE GENE THERAPY THAT
14	MANY PEOPLE KNOW, WHICH IS ENCOMPASSED UNDER
15	ANYTHING THAT ALTERS THE GENOMIC SEQUENCE OF CELLS.
16	IT IS ALSO ANY THERAPEUTIC THAT INTRODUCES OR
17	DIRECTLY MANIPULATES NUCLEIC ACIDS. SO NOW WE HAVE
18	M-RNA'S, ANTISENSE OLIGOS, AND SO ON THAT ARE PART
19	OF THE SCOPE OF WHAT WE CAN FUND.
20	AND SO ALL OF THIS BACKGROUND I'M GIVING
21	TO YOU IS PART OF A WAY OF INFORMING YOU WHAT IT IS
22	THAT WE DO, BUT ALSO HOPING TO INSPIRE YOU TO THINK
23	ABOUT, AS WE MOVE FORWARD, AND THINK ABOUT
24	PRIORITIZATION, HOW THAT MODEL THAT WE HAVE BEEN
25	USING EITHER COULD BE TWEAKED, CHANGED, MODIFIED, OR

1	CONTINUE TO BE USED IN A WAY THAT IS BETTER FOCUSED
2	ON US ACCOMPLISHING OUR MISSION. SO TOWARDS THAT
3	END, THERE'S A SERIES OF QUESTIONS THAT I'LL GO OVER
4	VERY BRIEFLY, BUT ARE NOT INTENDED FOR US TO DISCUSS
5	HERE, BUT MAYBE ARE AN INSPIRATION FOR WHAT THE
6	SCIENCE SUBCOMMITTEE AND DR. IMBASCIANI WAS
7	REQUESTING THAT COULD BE TAKEN ON.
8	AND ONE OF THE MOST IMPORTANT QUESTIONS IS
9	HOW IS IT THAT CIRM CAN MAKE THE GREATEST IMPACT ON
10	ITS MISSION? NOW, THIS QUESTION, AS WELL AS ALL
11	THESE OTHER QUESTIONS THAT ARE I'M GOING TO GO
12	THROUGH ARE ONES THAT WE'RE NOT JUST ASKING NOW.
13	WE'VE BEEN ASKING THESE ALL ALONG THE WAY. THIS HAS
14	BEEN ESSENTIAL IN DEVELOPING THE STRATEGIC PLAN THAT
15	WE HAVE AS WELL AS THE STRATEGIC PLANS THAT WE HAVE
16	THAT HAVE COME BEFORE THAT. BUT IT IS SOMETHING
17	THAT IS AN ONGOING PROCESS. WE NEED TO CONTINUOUSLY
18	BE ASKING THESE QUESTIONS TO SEE WHETHER WE ARE
19	STILL ON TASK.
20	AND SO HOW IS IT THAT WE CAN MAKE THE
21	GREATEST IMPACT? WE HAVE A VERY GENEROUS AMOUNT OF
22	FUNDS TO WORK WITH, BUT IT'S ALSO NOT UNLIMITED.
23	AND SO HOW WE CHOOSE TO FOCUS AND BRING THAT
24	TOGETHER IN ORDER TO MAKE AN IMPACT IS A KEY
25	QUESTION. HOW NARROW OR HOW BROAD SHOULD OUR

1	PORTFOLIO BE AS IT RELATES TO DIFFERENT ELEMENTS?
2	DISEASE REPRESENTATION, FOR EXAMPLE, IS ONE THAT
3	OFTEN COMES UP. SHOULD WE SEEK TO HAVE AS MANY
4	DISEASES AS POSSIBLE REPRESENTED WITHIN OUR
5	PORTFOLIO? OR IS IT OKAY TO MAYBE FOCUS IN ON THOSE
6	THAT ARE MOST LIKELY TO BE IMPACTED BY CELL AND GENE
7	THERAPY APPROACHES?
8	QUALIFYING CANDIDATES. AS I SHOWED YOU,
9	WE HAVE A VERY BROAD ARRAY OF WHAT QUALIFIES FOR
10	CIRM FUNDING. IN SOME CASES THE LINE CAN GET A
11	LITTLE BIT BLURRY EVEN AT THE ELIGIBILITY STAGE.
12	FOR EXAMPLE, WHAT DETERMINES WHAT IS A CANCER STEM
13	CELL? EVEN IN THE FIELD, IT ISN'T ALWAYS ACCEPTED
14	THAT A GIVEN CELL TYPE IS A CANCER STEM CELL OR WHAT
15	MAY BE A PROGENITOR CELL OR WHAT SHOULD BE
16	INCORPORATED WITHIN THE DEFINITION OF A GENETIC
17	THERAPY. WE CREATED A DEFINITION, BUT THAT CAN
18	CHANGE DEPENDING ON WHAT WE THINK OUR PRIORITIES
19	MIGHT BE. OR HOW DO WE ADDRESS HAVING SIMILAR
20	THERAPEUTIC APPROACHES? CAR-T COMES UP AS AN
21	EXAMPLE BECAUSE WE SEE THAT A LOT. THAT COMES QUITE
22	OFTEN, BUT THERE ARE OTHERS. IS IT OKAY TO TAKE ON
23	THE SAME APPROACH? AND HOW MANY PROJECTS ARE
24	SUFFICIENT TO SAY THAT WE'VE COVERED THAT ARENA?
25	WHICH LEADS TO THE NEXT QUESTION: HOW

1	MUCH FUNDING SUPPORT IS ACTUALLY NECESSARY WITHIN A
2	GIVEN THERAPEUTIC APPROACH OR WITHIN A STAGE OF
3	RESEARCH OR A DISEASE FOR US TO HAVE A MEANINGFUL
4	IMPACT? AND THAT IS IMPORTANT BECAUSE THERE MAY BE
5	CASES WHERE WE MAY HAVE ONLY TWO PROJECTS IN A GIVEN
6	DISEASE AREA OR THAT USE AN APPROACH. HOW MUCH OF
7	AN IMPACT OVER OUR TIME FRAME WILL THAT MAKE?
8	AND THEN, LASTLY, WHAT IS OR WHAT ARE THE
9	MOST IMPORTANT OUTCOMES FOR CIRM IN TEN YEARS?
10	LOOKING INTO THE FUTURE AND THINKING OF WHAT WE'D
11	LIKE TO ACCOMPLISH, WHERE WE WOULD LIKE TO BE, WHAT
12	WOULD WE HAVE TO DO TODAY IN ORDER TO ACCOMPLISH
13	THOSE ELEMENTS? AND, AGAIN, THESE ARE QUESTIONS NOT
14	FOR TODAY, BUT HOPEFULLY TO INSPIRE YOUR THINKING
15	AND HOPEFULLY THAT IT DOES. SO THAT IS MY
16	PRESENTATION, AND I THANK YOU VERY MUCH.
17	(APPLAUSE.)
18	CHAIRMAN IMBASCIANI: WE'RE GOING TO START
19	WITH LEONDRA.
20	DR. CLARK-HARVEY: THANK YOU FOR YOUR
21	PRESENTATION. I REALLY APPRECIATE IT. AND I KNOW
22	YOU SAID THE QUESTIONS AREN'T FOR TODAY, BUT I'M
23	DYING TO HAVE A FEW COMMENTS TODAY. IS THAT OKAY?
24	IS THAT OUT OF ORDER?
25	I LOVE THE SLIDE THAT YOU HAD THAT

1	REMINDED US OF OUR SCOPE. AND I THINK ONE OF THE
2	STRENGTHS OF CIRM IS THE ABILITY TO GO OUTSIDE
3	WHAT'S TYPICALLY FUNDED AND TYPICALLY SUPPORTED. I
4	THINK THAT JUST LEADS TO DIVERSITY AND THOUGHT AND
5	INNOVATION. AND THAT'S REALLY, I THINK, A VALUE OF
6	CIRM.
7	AND IN LINE WITH THAT, YOUR QUESTION
8	AROUND SHOULD WE STAY NARROW, SHOULD WE GO BROAD, I
9	KNOW GOING NARROW MAY SEEM MORE FOCUSED AND
10	STRATEGIC IN SOME WAYS, BUT I THINK THE ABILITY TO
11	STAY BROAD IN SOME WAYS DOES CORRELATE WITH THE
12	SCOPE OF THINKING OUTSIDE THE BOX AND INNOVATION IN
13	DIFFERENT WAYS AND ALSO REALLY VALUING THE
14	DIVERSITY. I THINK ABOUT THE STORIES THAT WERE
15	SHARED THIS MORNING BY MARIA AND THE FACT THAT THESE
16	INNOVATIONS WERE SUPPORTED AND CONTINUE TO BE
17	SUPPORTED.
18	SO I WOULD HATE TO DO SOMETHING THAT WOULD
19	POTENTIALLY PUT US IN A SPACE WHERE WE'RE NOT ABLE
20	TO FUND SOMETHING THAT COMES UP THAT IS REALLY
21	INNOVATIVE AND IMPORTANT WORK. AND SO I WOULD, EVEN
22	THOUGH YOU DIDN'T ASK FOR QUESTIONS AND RESPONSES
23	RIGHT NOW, I REALLY AM LEANING INTO WHAT'S ATYPICAL,
24	WHICH IS BEING PRETTY BROAD AND OPEN TO THE
25	DIVERSITY OF DIFFERENT APPROACHES. WANTED TO SHARE

1	THAT.
2	AND IN TEN YEARS, I REALLY DO HOPE THAT
3	WE'RE ABLE TO SAY THAT WE DID THAT. JUST TODAY AS
4	FOLKS ARE REPORTING ON THE WONDERFUL THINGS THAT WE
5	DID BECAUSE WE STEPPED OUTSIDE THE BOX, I WANT TO BE
6	ABLE TO SAY THAT IN TEN YEARS AS WELL. UNSOLICITED
7	INPUT.
8	CHAIRMAN IMBASCIANI: THANK YOU VERY MUCH.
9	I THINK NEXT IS MEMBER DULIEGE.
10	DR. DULIEGE: THANK YOU. WE'RE ALL GOING
11	TO AGREE, PROBABLY NOT ALL. I SHOULDN'T SAY THAT,
12	BUT I DO AGREE. GREAT PRESENTATION.
13	CAN YOU GIVE US A FEW EXAMPLES OF SOME OF
14	THE CHALLENGES THAT THE CIRM TEAM HAS ALREADY FACED
15	WHEN REVIEWING THE APPLICATION INITIALLY, THE FIRST
16	SCREEN BEFORE IT GOES TO GWG, AND SPECIFICALLY ABOUT
17	THE DEFINITION, NOT SO MUCH ABOUT THE QUALITY, THE
18	DEFINITION.
19	AND YOUR SECOND POINT HERE, HOW HAS THE
20	TEAM ADDRESSED THAT, FACED THAT BECAUSE IT'S A REAL
21	CHALLENGE. YOU REALLY ELOQUENTLY DESCRIBED HOW
22	DEFINITIONS CAN BE BLURRIER THAN WHAT WE THINK.
23	DR. SAMBRANO: THAT'S RIGHT. IT CONTINUES
24	TO BE CHALLENGING BECAUSE IT SEEMS ANYWHERE WE TRY
25	TO DRAW A LINE, THERE IS ALWAYS GOING TO BE A

1	PROJECT THAT JUST STRADDLES THAT LINE. AND WHAT WE
2	DO IS WE HAVE GROUP DISCUSSIONS ABOUT THESE, AND WE
3	ATTEMPT TO BE CONSISTENT IN OUR INTERPRETATION. AND
4	SO WE MAKE SURE THAT IF WE SAY, OKAY, SOMETHING THAT
5	WAS STRADDLING THE LINE THAT WE DECIDED WAS
6	ELIGIBLE, THAT IF WE SEE ANYTHING THAT LOOKS LIKE
7	THAT AGAIN, THAT WE TREAT IT THE SAME WAY. AND IT
8	DOES TAKE EFFORT AND TIME, AND I THINK THAT'S THE
9	CHALLENGE.
10	IN AN IDEAL WORLD, WE WOULD LIKE TO HAVE A
11	VERY CLEAR DELINEATION THAT ALLOWS US TO SAY, OKAY,
12	THIS PROJECT IS IN, THIS PROJECT IS OUT, BUT IT JUST
13	HAS BEEN THE CASE THAT IT'S NOT THAT EASY. FOR SOME
14	THINGS IT IS SIMPLE; BUT WHERE A FIELD CONTINUES TO
15	MOVE AND EVOLVE AND DEFINITIONS WITHIN A FIELD
16	CHANGE AND OPINIONS CHANGE, IT IS SORT OF THE MOVING
17	TARGET THAT WE JUST HAVE TO KEEP UP WITH.
18	AND I'M NOT SURE, OTHER THAN WHAT WE ARE
19	DOING, WHAT ELSE WE CAN DO.
20	DR. DULIEGE: I WAS ASKING IF YOU HAD ONE
21	OR TWO SPECIFIC EXAMPLES.
22	DR. SAMBRANO: I'M SORRY. SO THE ONES
23	THAT OFTEN COME UP ARE A SMALL MOLECULE THAT TARGETS
24	A CANCER STEM CELL OF SOME TYPE. AND THERE WE OFTEN
25	LOOK TO SEE IS THERE EVIDENCE THAT THIS TUMOR TYPE

1	ACTUALLY INVOLVES OR HAS CANCER CELLS, WHAT DATA
2	DOES THE APPLICANT PROVIDE AND SHOW TO SAY THAT THEY
3	HAVE AN ACTUAL CANCER STEM CELL THAT THEY ARE
4	TARGETING. SO THAT'S ONE EXAMPLE OF WHAT WE DO.
5	AND IT'S SIMILAR WITH PROGENITOR CELLS. SOMETIMES
6	IN CERTAIN DISCIPLINES SOMEBODY IDENTIFIES AN
7	ENDOGENOUS STEM CELL TYPE THAT ARGUABLY MAY OR MAY
8	NOT BE ONE. WE ALSO HAVE A VERY BROAD DEFINITION OF
9	WHAT A PROGENITOR IS. THE QUALIFIER IS THAT IT MUST
10	BE NOT A COMPLETELY MATURE CELL IN THAT IT HAS THE
11	CAPACITY TO DIVIDE. AND THERE ARE CELLS THAT MAYBE
12	IN THE FIELD IT WOULD NOT BE ACCEPTED AS A
13	PROGENITOR, BUT IT STILL MEETS THE DEFINITION. SO
14	IN SOME CASES WE WOULD ALLOW IT.
15	CHAIRMAN IMBASCIANI: MEMBER YAMAMOTO.
16	DR. YAMAMOTO: STEPPING BACK FROM THESE
17	CHALLENGES OF HAVING TO MAKE CHOICES ABOUT SPECIFIC
18	DISEASE AREAS OR PROJECTS, I THINK ONE OF THE
19	STRIKING THINGS ABOUT WHAT CIRM HAS DONE
20	HISTORICALLY IS THE BALANCE THAT IT HAS REALLY
21	EXERCISED IN SUPPORTING THE DIFFERENT RESEARCH
22	APPROACHES. I DON'T THINK THERE'S ANY REASON TO TRY
23	TO BE SLAVISH ABOUT THIS. DIFFERENT KINDS OF
24	RESEARCH COST DIFFERENT AMOUNTS OF MONEY. BUT
25	NEVERTHELESS, IT IS REALLY INTERESTING, AS MARIA

1	SHOWED IN ONE OF HER GRAPHICS, THAT HISTORICALLY
2	CIRM HAS REALLY SUPPORTED BASIC RESEARCH,
3	TRANSLATIONAL, AND CLINICAL REALLY ACROSS THE BOARD
4	ROBUSTLY.
5	THAT'S NOT TRUE IN THE RECENT
6	EXPENDITURES. I THINK THAT WAS THE OTHER STRIKING
7	THING THAT I TOOK AWAY FROM THAT SLIDE IS THAT IN
8	THE REALLY RECENT HISTORY, WHAT WE'VE SEEN IS A MUCH
9	STRONGER LEVEL OF SUPPORT IN TERMS OF DOLLARS THAT
10	HAVE GONE TO CLINICAL RESEARCH. I'M ASSUMING THAT
11	DOESN'T REPRESENT A TREND OR A DECISION. IT'S JUST
12	A POINT IN TIME. BUT IF YOU COULD SPEAK TO THAT
13	POINT SPECIFICALLY, I THINK WOULD BE HELPFUL.
14	DR. SAMBRANO: IN MANY WAYS THE DEMAND, IF
15	YOU WILL, THAT IS OUT THERE, AS WAS MENTIONED, HAS
16	INCREASED OVERALL FOR ALL PROJECTS. BUT AS YOU ALSO
17	INDICATED, FOR SOME PROJECTS IT'S GREATER COST,
18	PARTICULARLY WHEN YOU'RE LOOKING AT CLINICAL TRIALS.
19	SO WE ARE FACED WITH THE QUESTION OF HOW MUCH CAN
20	CIRM ACTUALLY HANDLE WHEN WE DEAL WITH THIS DEMAND.
21	
21	IN SOME AREAS IT IS REASONABLE, WE HAVE MECHANISMS
21	IN SOME AREAS IT IS REASONABLE, WE HAVE MECHANISMS IN PLACE TO DO IT, BUT WE HAVE A CONTINUINGLY
22	IN PLACE TO DO IT, BUT WE HAVE A CONTINUINGLY
22 23	IN PLACE TO DO IT, BUT WE HAVE A CONTINUINGLY GROWING NUMBER OF APPLICATIONS THAT CONTINUE TO COME

1	AS WE'VE BEEN TALKING ABOUT, OR CHOOSE TO FUND OVER
2	OTHERS. BECAUSE IT'S NOT AN ISSUE OF MERIT WHERE I
3	THINK WHERE WE STARTED IT WAS LET THE SCIENCE
4	DETERMINE WHAT WE FUND BECAUSE THE MERIT ALONE WAS
5	ENOUGH TO KEEP THE NUMBER OF PROJECTS AND THE AMOUNT
6	OF FUNDS THAT WE WOULD ISSUE TO THEM TO BE ALIGNED.
7	NOW WE MAY BE GETTING TO A POINT WHERE THE
8	NUMBER OF MERITORIOUS PROJECTS EXCEEDS WHAT WE MAY
9	WANT TO ACTUALLY EXPEND ON AN ANNUAL BASIS. AND SO
10	THEN COMES THE QUESTION OF THEN WHICH ONES DO WE
11	CHOOSE. AND AMONG A SET OF ALL MERITORIOUS
12	PROJECTS, WHICH ONES ARE THE MOST LIKELY TO HELP US
13	ACHIEVE OUR MISSION OR HAVE AN IMPACT? AND SO I
14	KIND OF TWIRLED AROUND TRYING TO ANSWER YOUR
15	QUESTION, BUT IT MAYBE GIVES A LITTLE CONTEXT AS TO
16	HOW WE'RE THINKING ABOUT IT IN TERMS OF THAT
17	PERSPECTIVE.
18	CHAIRMAN IMBASCIANI: THANK YOU. MEMBER
19	JUELSGAARD AND THEN WE'LL JUST CONTINUE AROUND THE
20	TABLE.
21	MR. JUELSGAARD: THANKS, AGAIN, GIL, FOR
22	THE PRESENTATION. SO THE LAST SLIDE POSED FOUR
23	STRATEGIC QUESTIONS. I ASSUME THE REASON FOR POSING
24	THE QUESTIONS IS TO DEVELOP ANSWERS, AND THOSE
25	ANSWERS WILL BE DISCUSSED HERE IN THIS ROOM OR A

1	ROOM LIKE THIS AT SOME POINT.
2	I'M GOING TO FOCUS FOR A MOMENT ON THE
3	THIRD ONE BECAUSE THAT'S THE ONE THAT FOR ME,
4	ANYWAY, BASED UPON BEING ON THE NEURO TASK FORCE AND
5	SOME OF THE THINGS THAT WE'VE HEARD, PARTICULARLY
6	ANECDOTALLY, IS WHETHER WE HAVE ENOUGH FUNDING
7	SUPPORT. SO OUR FUNDING SUPPORT, IF YOU GO BACK, I
8	LOOKED BACK, WHAT, IN 2016 I THINK THE AWARD LEVELS
9	WERE THE SAME IN 2016 AS THEY ARE TODAY. WE HAVEN'T
10	CHANGED THE AMOUNT OF AWARDS WE'RE MAKING, AND YET
11	I'M SURE MANY OF US ARE AWARE OF THE IMPACT OF
12	INFLATION AND PARTICULARLY MORE RECENTLY.
13	AND SO IS THERE A HOW MUCH THOUGHT IS
14	BEING GIVEN TO REALLY LOOK AT OUR FUNDING LEVELS?
15	AND THIS FOLLOWS DR. YAMAMOTO'S QUESTION
16	PARTICULARLY IN THE AREA OF DISCOVERY AND OF
17	TRANSLATIONAL WORK TO SAY WHETHER OR NOT THEY'RE
18	SUFFICIENT AND EVEN WITH SPECIFIC AREAS THE
19	ANECDOTAL ISSUE I REFERRED TO IS NEUROPSYCHIATRIC
20	RESEARCH WHICH INVOLVES A LOT OF GENETIC RESEARCH
21	WHICH IS NOT SIMPLE AND NOT INEXPENSIVE.
22	AND SO, ANYWAY, I'M JUST HOPEFUL THAT WE
23	TAKE A GOOD LOOK AT THAT AND WHETHER WE OUGHT TO
24	THINK ABOUT MAKING SOME CHANGES AT LEAST IN SOME
25	SPECIFIC AREAS. THANK YOU.

1	DR. SAMBRANO: YES. AND WE ARE
2	SPECIFICALLY LOOKING AT THE BUDGET CAPS THAT WE HAVE
3	FOR EACH OF THE PROGRAMS TO ENSURE THAT THEY'RE
4	APPROPRIATE. BUT AS YOU KNOW, THERE IS QUITE A BIT
5	OF VARIABILITY AMONG PROJECTS AND THE DIFFERENT
6	ACTIVITIES THAT THEY CONDUCT, THAT IN SOME CASES
7	JUSTIFY A GREATER AMOUNT AND IN OTHER CASES MAYBE
8	NOT.
9	CHAIRMAN IMBASCIANI: THANK YOU, GIL.
10	MEMBER BARRETT.
11	DR. BARRETT: THANK YOU, GIL, VERY MUCH
12	FOR YOUR PRESENTATION. I REALLY WANTED IN SOME WAYS
13	TO ECHO WHAT LEONDRA SAID, THAT IT IS IMPORTANT
14	WITHIN THE CONSTRAINTS OF WHAT THE AGENCY WAS SET UP
15	TO DO TO REMAIN AS BROAD AS POSSIBLE BECAUSE HISTORY
16	HAS SHOWN US THAT WE ARE PRETTY FOOLISH IF WE THINK
17	THAT WE CAN TRULY PREDICT WHAT IS GOING TO BE THE
18	MOST IMPACTFUL. LETTING THINGS BUBBLE UP FROM THE
19	SCIENTIFIC COMMUNITY, MAKING SURE THAT WE DO
20	CONTINUE TO SUPPORT DISCOVERY RESEARCH EVEN THOUGH
21	THE IMPACT OF THAT MAY BE A LONG WAY DOWN THE ROAD
22	AND PERHAPS BEYOND MANY OF OUR LIFE SPANS DOESN'T
23	MEAN THAT WE SHOULDN'T BE SUPPORTING IT.
24	SO A BALANCE BETWEEN THE QUICK WINS AND
25	THE BLUE SKY RESEARCH THAT MAY BE EXTREMELY

1	IMPACTFUL IF JUDGED TO BE HIGHLY MERITORIOUS. BUT I
2	DO NOT PERSONALLY SEE, OTHER THAN THE CONSTRAINTS OF
3	THE PROPOSITION LEGISLATION, THAT WE SHOULD BE
4	TARGETING SPECIFIC DISEASE STATES. THERE'S A LOT OF
5	SUFFERING TO GO AROUND.
6	CHAIRMAN IMBASCIANI: I'LL TAKE THAT AS A
7	COMMENT RATHER THAN A QUESTION. SO MEMBER SOUTHARD.
8	DR. SOUTHARD: I ALSO WANTED TO BUILD ON
9	THE REMARKS ALREADY MADE ABOUT THE THINGS THAT WE'VE
10	BEEN TALKING ABOUT IN THE NEURO TASK FORCE
11	PARTICULARLY ON NEUROPSYCH WHERE IT'S CLEARLY AN
12	AREA THAT WE HEAR. WE DON'T GET PROPOSALS BECAUSE
13	THE PROPOSALS TO DO REAL ACTION WOULD BE VERY
14	EXPENSIVE, AND YET THEY'RE AT THE VERY BEGINNING
15	STAGES. SO IN THE TEN-YEAR AREA, I WOULD HOPE THAT
16	WE ARE ABLE TO AT LEAST BEGIN TO START TO MAKE AN
17	EFFECT ON THE ISSUES OF SEVERE MENTAL ILLNESS AND
18	ADDICTION AS ONE OF THE THINGS THAT BECOMES OUR
19	HALLMARK. THAT WOULD BE THE HOPE OF MANY OF US
20	HERE.
21	CHAIRMAN IMBASCIANI: THANK YOU VERY MUCH.
22	ANY OTHER COMMENTS IN THE ROOM? VICE CHAIR.
23	VICE CHAIR BONNEVILLE: I ALSO WANTED TO
24	COMMENT ON CAPACITY FOR OUR REVIEW TEAM AND HOW MANY
25	REVIEWS WE CAN HAVE A YEAR. THAT REALLY ALSO

1	DETERMINES HOW MUCH MONEY IS PUT OUT IN DIFFERENT
2	AREAS. SO IT ALSO FOR DISCOVERY, HOW MANY ROUNDS
3	DO WE HAVE OF DISCOVERY VERSUS HOW MANY ROUNDS DO WE
4	HAVE OF CLIN VERSUS HOW MANY ROUNDS WE HAVE OF
5	TRANSLATION. SO THAT'S ALSO SOMETHING TO TAKE INTO
6	CONSIDERATION, KEITH, WITH YOUR QUESTION. SO IT'S
7	NOT JUST DOLLARS ALLOCATED, BUT IT'S WHAT THE
8	CAPACITY IS AND WHAT THE BOARD THINKS IS BEST.
9	CHAIRMAN IMBASCIANI: MEMBER DURON.
10	MS. DURON: GIL, YOU SAID IT'S NOT ALWAYS
11	EASY, BUT I THINK THAT'S WHAT CIRM IS ALL ABOUT. IT
12	IS A MAVERICK. IT WAS MADE TO EXIST BECAUSE THE
13	FEDS WOULDN'T DO IT. AND SO WE ARE ALWAYS REACHING
14	HIGHER THAN PERHAPS PEOPLE THINK IS REASONABLE.
15	WE'RE SHOOTING FOR THE STARS HERE. WE ARE SHOOTING
16	FOR THE HOPES AND DREAMS OF PEOPLE WHO ARE ILL, AS
17	KIM SAID. TO EVERY PERSON WHO'S ILL LOOKING FOR AN
18	ANSWER, THIS IS WHAT WE ARE ABOUT. SO I DON'T
19	I NEVER I ALWAYS WANT TO DO RISK, AND I ALWAYS
20	WANT TO SHOOT AS HIGH AS WE CAN. AND, YES, THERE
21	ARE REASONABLE PEOPLE WHO MIGHT HELP US KEEP SOME
22	FEET ON THE GROUND, BUT I THINK THAT WHAT CIRM IS
23	ALL ABOUT IS ABOUT SHOOTING FOR THE HIGHEST AND
24	HOPING FOR THE BEST RESULTS WE CAN GET AND THEN
25	LEADING, HELPING LEAD THE SCIENCE. AND SO I'M NOT

1	FOR CLIPPING WINGS. I'M FOR ADDING NEW OPPORTUNITY.
2	SO THANK YOU. PERHAPS WITHIN THE WORK WE'VE ALREADY
3	DONE, THEY'RE STARTING TO SHOW US SOME ANSWERS THAT
4	WE CAN LOOK AT TO SEE WHAT ARE THE GOOD OUTCOMES,
5	HOW LONG IT TAKES TO GET TO THESE GOOD OUTCOMES, ET
6	CETERA, ET CETERA, SO WE CAN START THERE WITH SOME
7	BASELINE DATA.
8	CHAIRMAN IMBASCIANI: THANK YOU, BOARD
9	MEMBERS, FOR YOUR COMMENTS AND QUESTIONS. GIL,
10	THANK YOU VERY MUCH FOR A GREAT PRESENTATION. I
11	HAVE A FEELING, WHEN THE BOARD DISCUSSES THIS TOPIC
12	IN THE MONTHS AND MONTHS TO COME, THEY'RE GOING TO
13	REFER BACK. REMEMBER WHAT GIL SAID ON JUNE 29TH.
14	SO THIS WAS VERY IMPORTANT FOR US TO HEAR. I THINK
15	IMPORTANT FOR BOARD MEMBERS, REGARDLESS OF HOW MANY
16	YEARS OF TENURE ON THE BOARD, ESPECIALLY IF YOU'RE
17	NEW, TO HAVE HAD A REALLY FUNDAMENTAL REVIEW OF OUR
18	WHOLE FUNDING PROCESS. SO IT WAS A DOUBLE WHAMMY.
19	THANK YOU VERY MUCH.
20	I AM GOING TO DO ONE MORE THING AND
21	PROCEED TO THE CONSENT CALENDAR AND THEN WE'LL TAKE
22	A SHORT BREAK. BEFORE WE GO TO THE CONSENT, LET ME
23	ADD AN ADDENDUM TO THE CHAIR'S REPORT. I STARTED BY
24	SAYING I HAD TOURED THE STATE AND VISITED SIX OF OUR
25	NINE ALPHA CLINICS. AND THEN WHEN I WAS DONE

1	SPEAKING, I ONLY TICKED OFF FIVE ON MY FINGERS. I
2	CREDIT IT TO THE NERVOUSNESS OF A MAIDEN VOYAGE, IF
3	YOU WILL. I THINK I LEFT OUT ONE, AND I THINK IT
4	WAS UC IRVINE. I DID NOT MEAN TO SLIGHT ANYONE BY
5	OVERSIGHT. SO I APOLOGIZE. BUT THE RECEPTION THERE
6	WAS EQUAL IN ENTHUSIASM AND COMPLETENESS AS ALL THE
7	OTHERS. SO THANK YOU.
8	SO THE CONSENT CALENDAR, YOU KNOW HOW THIS
9	WORKS. THIS IS SOMETHING THE BOARD LEADERSHIP HAS
10	DETERMINED IT PROBABLY CONTAINS NONCONTROVERSIAL
11	ITEMS WHICH CAN BE VOTED ON UNLESS ANYONE AT THE
12	TABLE, ANY BOARD MEMBER, WHETHER YOU'RE HERE IN THE
13	ROOM OR NOT, HAS AN ISSUE WITH ANY ONE, THEN YOU
14	WOULD EXCERPT IT. AND IF YOU DO TAKE IT OUT OF
15	CONSENT, WE WILL DISCUSS THE REASONS WHY YOU WANT TO
16	CONSIDER IT SEPARATELY AT A SLIGHTLY LATER POINT IN
17	THE AGENDA.
18	SO UNDERSTANDING THAT, I WOULD LIKE TO
19	KNOW ARE THERE ANY DOES ANY BOARD MEMBER HAVE ANY
20	DESIRE TO REMOVE ANY ITEM FROM THE CONSENT AGENDA?
21	HEARING NONE, I WOULD LIKE A MOTION AND A SECOND TO
22	APPROVE ALL THE REMAINING ITEMS ON THIS CONSENT
23	CALENDAR WHICH ARE ALL OF THEM.
24	DR. BARRETT: SO MOVED.
25	DR. SOUTHARD: SECOND.
	60

1	CHAIRMAN IMBASCIANI: WE HAVE A MOVE AND A
2	SECOND. SO IS THERE ANY PUBLIC COMMENT ON THIS
3	BEFORE WE PROCEED TO A VOTE?
4	MS. DEQUINA-VILLABLANCA: THERE ARE NONE.
5	CHAIRMAN IMBASCIANI: OKAY. THEN, SCOTT,
6	I CAN GO TO A VOTE THEN, I PRESUME. ALL THOSE IN
7	FAVOR PLEASE SAY AYE. THOSE OPPOSED SAY NAY.
8	SCOTT, WOULD YOU TAKE A ROLL CALL OF THOSE
9	MEMBERS ON THE PHONE?
10	MR. TOCHER: HAIFAA ABDULHAQ. I'LL COME
11	BACK. DAN BERNAL. I'LL COME A BACK. GEORGE
12	BLUMENTHAL.
13	DR. BLUMENTHAL: YES.
14	MR. TOCHER: LINDA BOXER.
15	DR. BOXER: YES.
16	MR. TOCHER: FRED FISHER. JUDY GASSON.
17	DR. GASSON: YES.
18	MR. TOCHER: LARRY GOLDSTEIN.
19	DR. GOLDSTEIN: YES.
20	MR. TOCHER: RICH LAJARA.
21	MR. LAJARA: YES.
22	MR. TOCHER: DAVID LO.
23	DR. LO: YES.
24	MR. TOCHER: CHRISTINE MIASKOWSKI.
25	DR. MIASKOWSKI: YES.
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	DETTI G. DIGTIN, GII GSK NO. 7 132
1	MR. TOCHER: MICHAEL STAMOS.
2	DR. STAMOS: YES.
3	MR. TOCHER: I'LL CALL THE OTHERS AGAIN.
4	HAIFAA.
5	DR. ABDULHAQ: YES.
6	MR. TOCHER: DAN BERNAL. FRED FISHER.
7	THE MOTION CARRIES.
8	CHAIRMAN IMBASCIANI: THANKS VERY MUCH.
9	OKAY. THE BOARD WILL NOW ENJOY A SHORT RECESS.
10	(A RECESS WAS TAKEN.)
11	CHAIRMAN IMBASCIANI: I THINK WE ARE ABOUT
12	TO CONVENE BACK INTO REGULAR ORDER HERE. THANK YOU
13	VERY MUCH.
14	SO CHAIR'S DISCRETION, BECAUSE OF SOME OF
15	THE EXIGENCIES OF SOME OF OUR BOARD MEMBERS, I'M
16	GOING TO MOVE UP ITEM NO. 12 IN THE AGENDA.
17	EVERYTHING ELSE WILL KEEP ITS ORDER. THIS IS THE
18	CONSIDERATION OF FROM THE GOVERNANCE SUBCOMMITTEE,
19	AND I'M GOING TO ASK DR. LEVITT TO MY LEFT TO TAKE
20	IT FROM HERE.
21	DR. LEVITT: I WAS GOING TO ASK DR. GASSON
22	ON MY RIGHT TO DO IT, BUT SHE'S NOT HERE AND YOU'RE
23	SILENCED AS WELL.
24	SO LET ME PREFACE A FEW REMARKS ABOUT THE
25	PROCESS. THIS IS TO TAKE UP THE CORE OF THE REVIEW
	7.1

1	OF THE PRESIDENT AND CEO. AND YOU HAD IN YOUR
2	BRIEFING BOOK THE SURVEY, WHICH WILL BE THE ITEM TO
3	VOTE ON.
4	JUST TO PREFACE, THE GOVERNANCE
5	SUBCOMMITTEE MET ON JUNE 19TH. PRIOR TO JUNE 19TH,
6	THE BOARD CHAIR, VICE CHAIR, AND THE CO-CHAIRS OF
7	THE GOVERNANCE COMMITTEE MET TO DISCUSS A PROCESS
8	THAT WE WOULD USE FOR THE RETROSPECTIVE ASSESSMENT
9	OF DR. MILLAN THAT WOULD ENCOMPASS FY '23. SO THIS
10	IS A RETROSPECTIVE REVIEW.
11	I DO WANT TO SAY THAT WE'VE HAD REALLY
12	PRODUCTIVE CONVERSATIONS ABOUT THE GOVERNANCE
13	COMMITTEE TAKING UP, AFTER THIS REVIEW, TO REVIEW
14	THE PROCESS OF THE REVIEW AND TO WORK WITH THE
15	PRESIDENT AND CEO AND THE CHAIR AND VICE CHAIR OF
16	THE BOARD ABOUT MODIFYING THE PROCESS IN A VERY
17	PRODUCTIVE WAY. SO WE HAVE HAD SOME VERY EXCITING
18	CONVERSATIONS. AND SPEAKING ON BEHALF OF THE
19	GOVERNANCE SUBCOMMITTEE, I THINK THEY'RE EXCITED
20	ABOUT THIS AS WELL. HOPEFULLY I'M NOT EXAGGERATING.
21	MARIA IS VERY EXCITED ABOUT THIS.
22	AND SO THE REVIEW PERIOD I'VE ALREADY
23	MENTIONED. THE STAKEHOLDERS THAT ARE GOING TO
24	COMPLETE THE SURVEY ARE THE BOARD CHAIR AND VICE
25	CHAIR, THE CO-CHAIRS OF GOVERNANCE, THE CO-CHAIRS OF

1	THE OTHER BOARD SUBCOMMITTEES, AND THE DIRECT
2	REPORTS TO THE PRESIDENT AND CEO. THERE WAS AN
3	INDEPENDENT CONSULTANT WHO WAS ENGAGED, SUSAN WHITE,
4	TO LOOK AT THE DECISION WAS MADE TO BRING TO THE
5	GOVERNANCE SUBCOMMITTEE ESSENTIALLY THE SAME SURVEY
6	THAT WAS DONE IN THE LAST REVIEW WITH SOME MINOR
7	MODIFICATIONS THAT WERE MADE. IT'S NOT A 360. I
8	WANT TO POINT THAT OUT. IT'S A SURVEY, AND WE'RE
9	GOING TO TAKE UP A NUMBER OF THESE ISSUES PROBABLY
10	AROUND SEPTEMBER.
11	SO WE HAD THE SUBCOMMITTEE MEETING TO
12	DISCUSS THE PROCESS SURVEY AND THE TIMELINE, AND
13	THAT WAS ALL APPROVED. THE PROCESS INVOLVES THE
14	SURVEY, IT ALSO INVOLVES VIRTUAL INDIVIDUAL
15	INTERVIEWS WITH THE BOARD CHAIR AND VICE CHAIR AND
16	THE CO-CHAIRS OF THE MANY SUBCOMMITTEES FOR THIS
17	BOARD, AND THEN SOME OF THE DIRECT REPORTS THAT WERE
18	INVITED TO DO A VIRTUAL INTERVIEW. I THINK IT'S UP
19	TO THEM TO DO THAT. THERE WILL BE THE SAME, IF YOU
20	READ IT BEFORE THIS MEETING, THE COMPETENCY AREAS,
21	THE REVIEW AREAS. WE ARE HAVING THIS MEETING TODAY
22	ON THE 29TH TO APPROVE THAT SURVEY. THE BOARD CHAIR
23	WILL COMMUNICATE TO DR. MILLAN, THE BOARD, AND THE
24	DIRECT REPORTS TO INTRODUCE SUSAN WHITE AS THE
25	INDEPENDENT CONSULTANT. THERE WILL BE AN EMAIL THAT

1	GETS SENT OUT JULY 11TH WITH REQUESTS FOR RESPONSE
2	BY THE 25TH. GIVEN THAT DR. YAMAMOTO IS ALWAYS
3	LATE, WE'RE GOING TO ADD ANOTHER DAY OR TWO TO MAKE
4	SURE THAT YOU GET YOUR SURVEY IN. THAT WAS JUST
5	SPONTANEOUS. MOST BASIC SCIENTISTS ARE ALWAYS LATE.
6	ABSOLUTELY.
7	SO THERE WILL BE A LATE RESPONSE WINDOW,
8	AND THEN THE CONSULTANT WILL YOU ASKED ME TO DO
9	THIS. THE CONSULTANT WILL COMPILE THE RESULTS,
10	CREATE A PERFORMANCE REVIEW SUMMARY. WRITTEN
11	PERFORMANCE SUMMARY WILL GO TO THE BOARD CHAIR AND
12	VICE CHAIR AND THE GOVERNANCE COMMITTEE'S CO-CHAIRS.
13	SUSAN WHITE WILL BE AVAILABLE TO MEET WITH US TO
14	DISCUSS THE PERFORMANCE SUMMARY SOMETIME IN AUGUST
15	LIKELY. AND THEN THERE WILL BE A BOARD MEETING IN
16	SEPTEMBER IN WHICH THE PERFORMANCE REVIEW SUMMARY
17	WILL BE DISCUSSED. SO THAT'S THE TIMELINE.
18	JUDY, DID I LEAVE ANYTHING CRITICAL OUT?
19	DR. GASSON: YOU DID NOT. IT WAS PERFECT.
20	DR. LEVITT: PERFECT. TELL MY FAMILY
21	THAT. I NEVER HEAR THAT.
22	SO I THINK THAT WAS MY PREFACE, THAT WE
23	ARE NOT GOING TO REVIEW THE QUESTIONS. WE HAVE TO
24	HAVE A MOTION AND A SECOND IN ORDER TO DISCUSS.
25	CHAIRMAN IMBASCIANI: THAT'S RIGHT. OKAY.

	, <b>,</b>
1	THANK YOU FOR THAT INTRODUCTION. MAY I HAVE A
2	MOTION TO APPROVE THE FORM RECOMMENDED FOR APPROVAL
3	BY THE GOVERNANCE SUBCOMMITTEE?
4	VICE CHAIR BONNEVILLE: SO MOVED.
5	DR. ABOUSALEM: SECOND.
6	CHAIRMAN IMBASCIANI: WE HAVE A SECOND.
7	COMMENTS IN THE BOARD? GOING ONCE. IS THERE ANY
8	PUBLIC COMMENT ON THIS TOPIC?
9	MS. DEQUINA-VILLABLANCA: THERE ARE NO
10	PUBLIC COMMENTS.
11	CHAIRMAN IMBASCIANI: THERE ARE NO
12	COMMENTS. ALL RIGHT. SO OKAY. ALL THOSE IN FAVOR
13	OF THIS RECOMMENDATION FROM THE GOVERNANCE
14	SUBCOMMITTEE PLEASE SAY AYE. THOSE OPPOSED SAY NO.
15	SCOTT, WILL YOU PLEASE POLL THE PEOPLE ON THE LINE.
16	MR. TOCHER: HAIFAA ABDULHAQ. I'LL COME
17	BACK. DAN BERNAL. I'LL COME A BACK. GEORGE
18	BLUMENTHAL.
19	DR. BLUMENTHAL: YES.
20	MR. TOCHER: LINDA BOXER.
21	DR. BOXER: YES.
22	MR. TOCHER: FRED FISHER. JUDY GASSON.
23	DR. GASSON: YES.
24	MR. TOCHER: LARRY GOLDSTEIN.
25	DR. GOLDSTEIN: YES.
	7.5
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1	MR. TOCHER: RICH LAJARA.
2	MR. LAJARA: YES.
3	MR. TOCHER: DAVID LO.
4	DR. LO: YES.
5	MR. TOCHER: CHRISTINE MIASKOWSKI.
6	DR. MIASKOWSKI: YES.
7	MR. TOCHER: MICHAEL STAMOS.
8	DR. STAMOS: YES.
9	MR. TOCHER: I'LL CALL THE OTHERS AGAIN.
10	HAIFAA.
11	DR. ABDULHAQ: YES.
12	MR. TOCHER: DAN BERNAL. FRED FISHER.
13	THE MOTION CARRIES UNANIMOUSLY.
14	CHAIRMAN IMBASCIANI: THANK YOU, MR.
15	TOCHER. OKAY. WE'RE GOING TO MOVE ON NOW TO
16	REGULAR ORDER HERE. ITEM NO. 10, WE HAVE TWO BUDGET
17	ITEMS TO CONSIDER TODAY. THIS IS THE FIRST,
18	CONSIDERATION OF CIRM'S ADMINISTRATIVE BUDGET FOR
19	FISCAL YEAR 23/24. I'M GOING TO INVITE POUNEH
20	SIMPSON TO PRESENT THE ADMINISTRATIVE BUDGET.
21	MS. SIMPSON: GOOD MORNING, CHAIR AND
22	BOARD MEMBERS. I AM POUNEH SIMPSON, THE SENIOR
23	DIRECTOR OF FINANCE, AND, LIKE THE CHAIR SAID, I
24	WILL BE MAKING TWO PRESENTATIONS TODAY.
25	THE FIRST WILL BE THE ADMINISTRATIVE
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1	BUDGET. AND IN OUR PRESENTATIONS, WE ALWAYS START
2	WITH OUR MISSION. AS DR. MILLAN SAID, OUR MISSION
3	IS THE NORTH STAR, AND WE BUILT OUR BUDGET BASED ON
4	THE MISSION AND OUR GOALS FOR THIS NEXT YEAR.
5	TO GO OVER THE AGENDA FOR THE FIRST
6	PRESENTATION, I'M GOING TO ADD SOMETHING THAT I
7	HAVEN'T IN PREVIOUS YEARS, WHICH IS THE OVERVIEW OF
8	PROP 14. THEN I WILL SHARE WITH YOU WHERE WE ARE AT
9	IN THIS FISCAL YEAR, FISCAL YEAR 22/23, AND THEN
10	PRESENT THE 23/24 PROPOSED BUDGET FOR YOUR APPROVAL.
11	SO TO START WITH THE OVERVIEW OF PROP 14,
12	WE HAVE SHOWN IN THIS GRAPH EVERYTHING THAT'S IN
13	THAT \$5.5 BILLION PROPOSITION. AND WE'VE BROKEN IT
14	OUT INTO FOUR DIFFERENT BUCKETS, THE LARGEST BUCKET
15	BEING THE RESEARCH AT \$4.9 BILLION. THE DISCUSSION
16	ON THAT BUCKET WILL BE LATER IN THE SECOND
17	PRESENTATION. THE OTHER THREE BUCKETS ARE THE GRANT
18	ADMINISTRATION AND COMPLIANCE, WHICH EQUAL \$320
19	MILLION, THE ADMINISTRATION AND OVERHEAD, WHICH IS
20	\$192.5 MILLION, AND A BUCKET THAT'S CONTROLLED BY
21	THE TREASURER'S OFFICE FOR THE SALE OF OUR BONDS FOR
22	\$100 MILLION.
23	SO I WANT TO BREAK OUT THE THREE BUCKETS
24	ON THE RIGHT IN THE NEXT SLIDE AND SHOW YOU WHERE WE
25	ARE AT AS IT RELATES TO EXPENDITURES IN THE LAST

1	THREE YEARS THAT WE HAVE BEEN OPERATING WITH PROP 14
2	FUNDS.
3	SO THE LARGEST OF THOSE IS THE 3.5 PERCENT
4	THAT'S ALLOWED FOR GENERAL ADMINISTRATION. THE
5	OTHER THREE BUCKETS THAT I HAD COMBINED INTO GRANT
6	ADMINISTRATION AND COMPLIANCE ARE REALLY THREE
7	INDIVIDUAL SECTIONS CALLED OUT IN THE PROPOSITION.
8	THE FIRST BEING 3 PERCENT FOR GRANT ADMINISTRATION,
9	THE SECOND BEING 1 PERCENT FOR ACCESS AND
10	AFFORDABILITY, AND THE LAST BEING A POT OF \$100
11	MILLION SET ASIDE FOR GRANT COMPLIANCE. AND
12	FINALLY, THE HUNDRED MILLION THAT THE TREASURER'S
13	OFFICE CONTROLS.
	SO HAVING SHARED THAT OVERVIEW OF THE
14	
14 15	PROPOSITION AND WHERE THE ADMINISTRATIVE BUCKETS
15	PROPOSITION AND WHERE THE ADMINISTRATIVE BUCKETS
15 16	PROPOSITION AND WHERE THE ADMINISTRATIVE BUCKETS  ARE, I WANT TO TALK ABOUT WHERE WE'VE BEEN IN THIS
15 16 17	PROPOSITION AND WHERE THE ADMINISTRATIVE BUCKETS  ARE, I WANT TO TALK ABOUT WHERE WE'VE BEEN IN THIS  FISCAL YEAR, IN FISCAL YEAR 22/23. THIS WAS ANOTHER
15 16 17 18	PROPOSITION AND WHERE THE ADMINISTRATIVE BUCKETS  ARE, I WANT TO TALK ABOUT WHERE WE'VE BEEN IN THIS  FISCAL YEAR, IN FISCAL YEAR 22/23. THIS WAS ANOTHER  YEAR OF RAMPING FOR US, AND WE INCREASED OUR
15 16 17 18 19	PROPOSITION AND WHERE THE ADMINISTRATIVE BUCKETS  ARE, I WANT TO TALK ABOUT WHERE WE'VE BEEN IN THIS  FISCAL YEAR, IN FISCAL YEAR 22/23. THIS WAS ANOTHER  YEAR OF RAMPING FOR US, AND WE INCREASED OUR  STAFFING LEVELS DUE TO THE INCREASED WORKLOAD. AS A
15 16 17 18 19 20	PROPOSITION AND WHERE THE ADMINISTRATIVE BUCKETS  ARE, I WANT TO TALK ABOUT WHERE WE'VE BEEN IN THIS  FISCAL YEAR, IN FISCAL YEAR 22/23. THIS WAS ANOTHER  YEAR OF RAMPING FOR US, AND WE INCREASED OUR  STAFFING LEVELS DUE TO THE INCREASED WORKLOAD. AS A  RESULT OF THE HARD WORK OF OUR HR EXPERTS AND THE
15 16 17 18 19 20 21	PROPOSITION AND WHERE THE ADMINISTRATIVE BUCKETS  ARE, I WANT TO TALK ABOUT WHERE WE'VE BEEN IN THIS  FISCAL YEAR, IN FISCAL YEAR 22/23. THIS WAS ANOTHER  YEAR OF RAMPING FOR US, AND WE INCREASED OUR  STAFFING LEVELS DUE TO THE INCREASED WORKLOAD. AS A  RESULT OF THE HARD WORK OF OUR HR EXPERTS AND THE  LEADERSHIP TEAM, WE WELCOMED 16 NEW MEMBERS THAT ARE
15 16 17 18 19 20 21	PROPOSITION AND WHERE THE ADMINISTRATIVE BUCKETS  ARE, I WANT TO TALK ABOUT WHERE WE'VE BEEN IN THIS  FISCAL YEAR, IN FISCAL YEAR 22/23. THIS WAS ANOTHER  YEAR OF RAMPING FOR US, AND WE INCREASED OUR  STAFFING LEVELS DUE TO THE INCREASED WORKLOAD. AS A  RESULT OF THE HARD WORK OF OUR HR EXPERTS AND THE  LEADERSHIP TEAM, WE WELCOMED 16 NEW MEMBERS THAT ARE  TALENTED AND HAVE BEEN CONTRIBUTING TO THE NEW
15 16 17 18 19 20 21 22	PROPOSITION AND WHERE THE ADMINISTRATIVE BUCKETS  ARE, I WANT TO TALK ABOUT WHERE WE'VE BEEN IN THIS  FISCAL YEAR, IN FISCAL YEAR 22/23. THIS WAS ANOTHER  YEAR OF RAMPING FOR US, AND WE INCREASED OUR  STAFFING LEVELS DUE TO THE INCREASED WORKLOAD. AS A  RESULT OF THE HARD WORK OF OUR HR EXPERTS AND THE  LEADERSHIP TEAM, WE WELCOMED 16 NEW MEMBERS THAT ARE  TALENTED AND HAVE BEEN CONTRIBUTING TO THE NEW  MISSIONS OF OUR ORGANIZATION.

1	THIS FISCAL YEAR. SO WE WILL BE REQUESTING THREE IN
2	MY PRESENTATION LATER WHEN WE TALK ABOUT THE 23/24
3	BUDGET. AND THE REASON WE DO THAT IS IF POSITIONS
4	ARE LEFT VACANT, WE EVALUATE THEIR NEED AND WHETHER
5	WE NEED TO CONTINUE THEM OR RETURN THE FUNDS TO THE
6	BIG BUCKET. SO YOU WILL SEE THOSE THREE IN A FEW
7	SLIDES.
8	WE ALSO COMPLETED OUR MOVE TO THE SOUTH
9	SAN FRANCISCO OFFICE, AND WE HAVE HAD PARTIAL
10	RESUMPTION OF OUR TRAVEL AND PRE-PANDEMIC ACTIVITIES
11	THAT HAVE SHAPED SOME OF THE EXPENDITURES FOR THIS
12	FISCAL YEAR.
13	IN THE NEXT CHART WE KIND OF SUMMARIZE
14	WHAT WAS APPROVED BY THE BOARD AND HOW MUCH WE
15	SPENT. SO IN THE SECOND COLUMN WE HAD A BUDGET
16	APPROVED BY THE ICOC OF \$26.2 MILLION. WE ESTIMATE
17	THAT WE'RE GOING TO FINISH THIS YEAR AT \$21.7
18	MILLION, AND THE VARIANCE IS 4.5 MILLION.
19	I WANT TO TALK A LITTLE BIT ABOUT THAT
20	VARIANCE IN THE NEXT FEW SLIDES AND EXPLAIN SOME OF
21	THE FACTORS THAT CONTRIBUTED TO IT. BEFORE I MOVE
22	ON, I WANTED TO REMIND EVERYBODY. FUNDS NOT SPENT
23	IN A GIVEN YEAR ARE NOT LOST. THEY'RE RETURNED TO
24	THE BIG BUCKET OF AVAILABLE FUNDS FOR FUTURE USE.
25	THERE WERE FOUR CATEGORIES THAT

1	CONTRIBUTED TO THAT \$4.5 MILLION VARIANCE, THE
2	LARGEST ONE BEING EMPLOYEE EXPENSE. WE WERE UNDER
3	BUDGET BY THREE MILLION, AND THAT WAS MAINLY BECAUSE
4	OF THE DELAYS IN HIRING THOSE 16 POSITIONS AND THE
5	FOUR VACANT ONES THAT ARE STILL BEING WORKED ON
6	ACTIVELY, SOME STAFF TURNOVER, AND SOME TRANSIT AND
7	PER DIEM SAVINGS. WE HAD BUDGETED MORE THAN WHAT
8	ACTUALLY HAPPENED.
9	WE ALSO HAD SAVINGS IN THE AREA OF
10	REVIEWS, MEETINGS, AND WORKSHOPS. WE WERE UNDER
11	BUDGET BY \$551,000. THIS WAS PRIMARILY BECAUSE
12	IN-PERSON MEETINGS BECAME VIRTUAL OR WERE POSTPONED.
13	WE HAD SOME SAVINGS IN OFFICE EXPENSES, AND THAT HAD
14	TO DO WITH SOME OF OUR MOVE COSTS BEING LOWER DUE TO
15	THE DILIGENT WORK OF THE STAFF TO BRING IN
16	COMPETITIVE BIDS FOR THE VARIOUS ASPECTS OF OUR
17	MOVE.
18	FINALLY, WE HAD SOME SAVINGS IN RENT
19	BECAUSE WE DIDN'T MOVE INTO THIS BUILDING UNTIL THE
20	FIFTH MONTH OF THE FISCAL YEAR. SO WE HAD A SAVINGS
21	OF \$600,000. ALTOGETHER THESE COST SAVINGS ARE A
22	RESULT OF THE HARD WORK OF THE TEAM MANAGING
23	EXPENSES AND KEEPING COSTS DOWN WHILE ADDRESSING THE
24	CHANGING NEEDS OF OUR PROGRAM.
25	I WANT TO TALK A LITTLE BIT MORE ABOUT

1	EMPLOYEE EXPENSES BECAUSE IT IS A LARGE NUMBER, AND
2	I WANT TO BREAK THAT DOWN A LITTLE BIT MORE. THE
3	VACANCIES AND THE DELAYED HIRING ATTRIBUTED TO 2.3
4	MILLION OF THE VARIANCE THAT WE HAD. A LOT OF THOSE
5	POSITIONS ARE FILLED NOW. SO WHEN I PRESENT THE
6	23/24 BUDGET, I'M ACCOUNTING FOR THE FULL-YEAR COSTS
7	NOW THAT THEY'RE ON BOARD. BUT I HAD TO SHOW THE
8	SAVINGS HERE BECAUSE IT WAS DOLLARS NOT SPENT.
9	THERE WAS ALSO SOME UNDER-UTILIZATION OF
10	TEMP HELP AND THE ACTUALS FOR OUR PATIENT ADVOCATE
11	BOARD MEMBER PER DIEM COMING IN LOWER THAN WE HAD
12	BUDGETED.
13	FINALLY, I MENTIONED THE TRANSIT SAVINGS.
14	ALTOGETHER THERE WAS A \$3 MILLION VARIANCE BETWEEN
15	WHAT WE HAD REQUESTED AND WHAT WE HAD SPENT. THIS
16	\$3 MILLION IS GOING TO COME UP IN A LATER SLIDE. SO
17	I WANT YOU TO REMEMBER THAT BECAUSE IT WILL COME UP
18	WHEN WE TALK ABOUT THE 23/24 BUDGET.
19	I ALSO WANTED TO POINT OUT THE HIGHER
20	EXPENSES. SO THERE WAS LOT OF SAVINGS IN DIFFERENT
21	CATEGORIES. THERE WAS A CATEGORY WHERE WE HAD
22	HIGHER EXPENSES. SO THIS HAD TO DO WITH EXTERNAL
23	SERVICES, AND THERE'S TWO REASONS WHY WE HAD HIGHER
24	EXPENSES IN THIS CATEGORY. THE FIRST WAS WE NEEDED
25	CONSULTANTS FOR SOME OF OUR NEW INITIATIVES. THEY

1	INCLUDED THE IP AND INDUSTRY ACTIVITIES FOR BUSINESS
2	DEVELOPMENT, THE ROADMAP DISCUSSION FOR ACCESS AND
3	AFFORDABILITY, THE FACILITIES WORKING GROUP
4	CONSULTANT TO HELP US GET THOSE GRANTS UNDER WAY.
5	AND, FINALLY, IN FINANCE WE HAD A CONSULTANT THAT
6	HELPED US WITH THE AUTOMATION OF FINANCIAL
7	PROCESSES.
8	THERE WAS ALSO ANOTHER REASON FOR THIS
9	INCREASE, AND IT HAD TO DO WITH A CORRECTION WE MADE
10	IN THE BUDGET. WE FELT THERE WERE SOME ITEMS IN
11	OFFICE EXPENSES THAT WERE MORE ACCURATELY PRESENTED
12	AS EXTERNAL SERVICES. THEY WERE MORE CONTRACTS THAN
13	THEY WERE SERVICES. SO WE MOVED THEM UP. AND AN
14	EXAMPLE IS A CONTRACT FOR \$225,000 WHICH WAS FOR THE
15	DIAGRAMS AND THE CONSULTING FOR OUR AV SYSTEM. SO
16	ALTOGETHER THERE WAS AN INCREASE HERE OF 535, BUT WE
17	SHOWED THE SAVINGS IN OFFICE EXPENSES AND WERE ABLE
18	TO MANAGE THE OVERALL BUDGET WITHIN WHAT THE BOARD
19	HAD APPROVED.
20	HAVING SUMMARIZED WHAT WE DID IN 22/23, I
21	WANT MOVE ON TO 23/24 AND TALK ABOUT WHAT WE'RE
22	ASKING FOR. IN THE SECOND COLUMN, I, AGAIN, PRESENT
23	TO YOU WHAT THE BOARD APPROVED IN 22/23 AND IN THE
24	THIRD COLUMN THE ESTIMATE TO FINISH THAT WE JUST
25	LOOKED AT. IN THE FOURTH COLUMN I PRESENT THE 23/24

1	PROPOSED BUDGET FOR ADMINISTRATION. RIGHT OFF THE
2	BAT THE TOP NUMBER, \$19.7 MILLION, AGAIN, THAT'S THE
3	FULL-YEAR COST OF ALL THE POSITIONS THAT WERE
4	APPROVED AND FILLED THIS YEAR PLUS THE ADDITIONAL
5	POSITIONS I WILL BE REQUESTING IN A FEW SLIDES.
6	ALTOGETHER WE'RE ASKING FOR A BUDGET OF
7	\$28.9 MILLION IN FISCAL YEAR 23/24. AND WE ALWAYS
8	SHOW YOU THE COMPARISON OF WHAT WE ARE ASKING FOR
9	VERSUS WHAT WE SPENT THIS YEAR. SO THE LAST COLUMN,
10	THE \$7.2 MILLION, IS THE DIFFERENCE BETWEEN WHAT WE
11	ARE ASKING FOR NEXT YEAR VERSUS WHAT WE ACTUALLY
12	THINK WE SPENT THIS YEAR.
13	SO I WANT TO DIG INTO THAT \$7.2 MILLION A
14	LITTLE BIT AND MAINLY FOCUS ON THE TOP THREE
15	CATEGORIES WHICH ARE THE LARGEST DOLLAR AMOUNTS.
16	THOSE THREE CATEGORIES ARE EMPLOYEE
17	EXPENSE. IT HAS TO DO WITH NINE ADDITIONAL
18	POSITIONS. REMEMBER THREE ARE IN RECRUITMENT NOW.
19	SO REALLY WE'RE ASKING FOR SIX NEW POSITIONS AND
20	CONTINUATION OF THREE THAT ARE IN RECRUITMENT. SO
21	ADDITIONAL REVIEWS, MEETINGS, AND WORKSHOPS THAT
22	WILL TAKE PLACE IN PERSON, WHICH IS A HIGHER COST
23	THAN VIRTUAL. AND THEN SOME MEMBERSHIP AND
24	TRAINING, BOTH BECAUSE WE HAVE INCREASED NUMBER OF
25	STAFF AND BECAUSE WE'RE RESUMING THE PRE-PANDEMIC

1	LEVELS OF ACTIVITY.
2	SO TO DIG A LITTLE BIT MORE INTO THE
3	EMPLOYEE COSTS, WHICH ARE THE LARGEST COMPONENT OF
4	THE BUDGET, WE ARE REQUESTING NINE NEW POSITIONS
5	WHICH EQUALS \$1.6 MILLION. WE ARE ALSO ACCOUNTING
6	FOR A SALARY INCREASE CALLED A PERFORMANCE-BASED
7	MERIT SALARY INCREASE. THIS IS BUDGETED AT 3
8	PERCENT. SO THE BUDGET INCLUDES \$290,000 FOR A
9	MERIT INCREASE FOR THOSE WHO ARE ELIGIBLE FOR IT. I
10	HAVE NOT BUDGETED ANYTHING FOR COST OF LIVING. SO
11	NOTHING IN THE BUDGET FOR THAT. AND THERE'S ALSO
12	BEEN AN ADJUSTMENT HERE WHERE WE HAVE TO ADJUST THE
13	CONTRIBUTIONS TO RETIREMENT WAS AT 34 PERCENT AND
14	IT'S BEEN DECREASED TO 33 PERCENT. THIS IS SET BY
15	THE CONTROL AGENCIES. IT'S NOT ANYTHING WE CONTROL,
16	BUT IT RESULTED IN A SAVINGS. SO THE NET IMPACT IS
17	\$4.5 MILLION. THREE MILLION BEING THE SAVINGS FROM
18	LAST YEAR, WHICH I SHOWED YOU A FEW SLIDES AGO, AND
19	THEN 1.4 MILLION INCREASE THIS YEAR.
20	THE NEXT SLIDE GOES INTO THE NEXT CATEGORY
21	WHERE WE HAD A HIGH VARIANCE, EXTERNAL SERVICES.
22	THERE WAS SOME ONE-TIME CONSULTING THAT I MENTIONED
23	NEEDED TO DEVELOP OUR NEW INITIATIVES AND PROGRAMS.
24	THERE WAS SOME CONTINGENT CONTRACTS IN PLACE FOR THE
25	MOVE WHICH WE NOW CAN TAKE OUT OF OUR BUDGET BECAUSE

1	WE HAVE MOVED AND DON'T NEED THOSE CONTINGENT
2	CONTRACTS ANYMORE. ALSO THERE WAS THAT REALIGNMENT
3	WHERE WE'RE TRYING TO SHOW SERVICES UNDER EXTERNAL
4	SERVICES VERSUS OTHER CATEGORIES. SO THIS
5	ATTRIBUTED TO \$996,000 BETWEEN WHAT WE SPENT THIS
6	YEAR AND WHAT WE ANTICIPATE SPENDING NEXT YEAR.
7	FINALLY, IN THE LAST CATEGORY, WHICH IS
8	REVIEWS, MEETINGS, AND WORKSHOPS, WE HAD HIGHER COST
9	OF REVIEWS. WE ARE INCREASING TO FIVE IN-PERSON
10	MEETINGS VERSUS THE VIRTUAL ONES WE WERE HAVING. WE
11	ARE CONTINUING OUR SCIENTIFIC WORKSHOPS AND ADVISORY
12	MEETINGS. AND WE ARE CONTINUING THE CLINICAL AND
13	TRANSLATIONAL ADVISORY PANELS. SO THE DIFFERENCE
14	BETWEEN WHAT WE SPENT THIS YEAR AND WHAT WE'RE
15	ASKING FOR NEXT YEAR IS \$845,000.
16	IN BUILDING THE BUDGET, WE TRY TO ACTIVELY
17	MANAGE ALL OF THE ASPECTS OF THE BUDGET, BUT THERE
18	ARE THINGS THAT ARE OUTSIDE OUR CONTROL. THOSE
19	INCLUDE RECRUITMENT AND PERSONNEL GROWTH, ECONOMIC
20	INSTABILITY, AND POST-PANDEMIC RECOVERY OF MEETINGS,
21	TRAVEL, AND WORK ACTIVITIES.
22	WITH THOSE CONSTRAINTS, WE HAVE PREPARED
23	THE BUDGET OF 28.9 MILLION THAT WE ARE ASKING THE
24	BOARD TO APPROVE. SO I CAN STOP HERE AND TAKE ANY
25	QUESTIONS BEFORE THE VOTE.

1	CHAIRMAN IMBASCIANI: BEFORE WE GO TO
2	QUESTIONS, MAY I HAVE A MOTION TO APPROVE THE FORM
3	RECOMMENDED BY THE FINANCE COMMITTEE AND A SECOND
4	PLEASE?
5	DR. SOUTHARD: MOVE.
6	DR. CLARK-HARVEY: SECOND.
7	CHAIRMAN IMBASCIANI: WE HAVE A MOVEMENT
8	AND A SECOND. OKAY. ANY BOARD COMMENT? MOHAMED.
9	DR. ABOUSALEM: THANK YOU VERY MUCH,
10	POUNEH, FOR THE VERY CLEAR MATERIAL AND VERY CLEAR
11	AND SUCCINCT PRESENTATION. I HAVE ONE QUESTION
12	REGARDING COST OF LIVING. SO YOU DON'T HAVE IN THE
13	BUDGET, I'M ASSUMING, WHAT I UNDERSTOOD, YOU DON'T
14	HAVE A PROVISION FOR COST OF LIVING INCREASE, BUT IT
15	IS A FACT, INFLATION IS AN ACTUAL MATTER. AND STATE
16	AGENCIES, A NUMBER OF STATE AGENCIES ARE EXPECTED TO
17	HAVE RAISES FOR COST OF LIVING OVER THE NEXT FEW
18	MONTHS RETRO TO JULY 1ST JUST BASED ON THE DYNAMICS
19	AND WHAT'S GOING ON.
20	CAN YOU JUST SPEAK TO WHY NOT HAVING AT
21	LEAST A PROVISION IN THERE IN CASE YOU NEED IT?
22	MS. SIMPSON: ABSOLUTELY. THANK YOU FOR
23	THE QUESTION.
24	SO THE GOVERNOR NEGOTIATES THE COST OF
25	LIVING ADJUSTMENT PERCENTAGE WITH THE DIFFERENT

1	BARGAINING UNITS. WE ARE ALL EXEMPT EMPLOYEES AT
2	CIRM. WE HAVE NO BARGAINING, BUT WE DO FOLLOW WHAT
3	THE GOVERNOR RECOMMENDS AS A COST OF LIVING
4	ADJUSTMENT. BECAUSE THAT HASN'T BEEN DETERMINED, WE
5	DIDN'T WANT TO PUT ANY IN MONEY IN THE BUDGET FOR
6	IT. AGAIN, PARTIALLY BECAUSE WE'RE TRYING TO PUT
7	THINGS IN THE BUDGET THAT WE'RE NOT SURE MIGHT
8	MATERIALIZE, WHICH LEADS TO THOSE REALLY BIG
9	VARIANCE GAPS OF WHAT WE SPENT VERSUS WHAT WE'RE
10	ASKING FOR.
11	SO NOTHING HAS BEEN PUT IN THE BUDGET.
12	BUT SHOULD THE GOVERNOR APPROVE A COST OF LIVING
13	ADJUSTMENT, WE WILL EVALUATE IT AND DECIDE IF IT IS
14	SOMETHING THAT CIRM WANTS TO INCLUDE IN OUR BUDGET.
15	WE WILL ADDRESS THAT EITHER BY REDIRECTING SAVINGS
16	IF WE HAVE ANY IN THE FISCAL YEAR OR THAT ADJUSTMENT
17	WON'T TAKE PLACE, OR WE WILL COME BACK TO THE BOARD
18	IF WE DON'T HAVE ENOUGH FUNDS AND ASK FOR THOSE
19	DOLLARS.
20	DR. ABOUSALEM: THANK YOU.
21	CHAIRMAN IMBASCIANI: MEMBER JUELSGAARD IS
22	NEXT FOLLOWED BY MEMBER HIGGINS.
23	OKAY. DAVID.
24	DR. HIGGINS: MOHAMED ASKED, I THINK, A
25	VERY GOOD QUESTION ABOUT IF THIS NUMBER CHANGES.

1	CHAIRMAN IMBASCIANI: I THINK HE SAID THAT
2	MOHAMED ASKED HIS QUESTION. ANY OTHER BOARD
3	COMMENT? IS THERE ANY PUBLIC COMMENT ON THE 23/24
4	BUDGET?
5	MS. DEQUINA-VILLABLANCA: NO PUBLIC
6	COMMENT.
7	CHAIRMAN IMBASCIANI: NONE. OKAY. THEN
8	WE'RE GOING TO VOTE ON CIRM MR. TOCHER IS CLEARLY
9	PLURIPOTENT IN HIS ABILITIES. THEN WE'RE GOING TO
10	MOVE TO A VOTE ON ACCEPTING THE BUDGET FOR THE NEXT
11	FISCAL YEAR. ALL THOSE IN FAVOR PLEASE SAY AYE.
12	AND THOSE OPPOSED SAY NAY. NO OPPOSITION. SCOTT,
13	WOULD YOU PLEASE CALL THE ROLL OF THE MEMBERS ON THE
14	PHONE.
15	MR. TOCHER: HAIFAA ABDULHAQ.
16	DR. ABDULHAQ: YES.
17	MR. TOCHER: DAN BERNAL.
18	MR. BERNAL: AYE.
19	MR. TOCHER: GEORGE BLUMENTHAL.
20	DR. BLUMENTHAL: YES.
21	MR. TOCHER: LINDA BOXER.
22	DR. BOXER: YES.
23	MR. TOCHER: FRED FISHER.
24	DR. FISHER: YES.
25	MR. TOCHER: JUDY GASSON.
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1	DR. GASSON: YES.
2	MR. TOCHER: LARRY GOLDSTEIN.
3	DR. GOLDSTEIN: YES.
4	MR. TOCHER: RICH LAJARA.
5	MR. LAJARA: YES.
6	MR. TOCHER: DAVID LO.
7	DR. LO: YES.
8	MR. TOCHER: CHRISTINE MIASKOWSKI.
9	DR. MIASKOWSKI: YES.
10	MR. TOCHER: MICHAEL STAMOS.
11	DR. STAMOS: YES.
12	MR. TOCHER: THANK YOU. THE MOTION
13	CARRIES.
14	CHAIRMAN IMBASCIANI: THANK YOU VERY MUCH.
15	SO WE'RE GOING TO NOW MOVE TO MEMBER DURON.
16	MS. DURON: MR. CHAIR, I JUST WANTED TO
17	COMMENT BECAUSE I'D ASKED THIS LAST YEAR. I HOPE
18	IT'S BEING CONSIDERED. CONCERN ABOUT HAVING A
19	ROBUST, DECENT COMMS BUDGET. AFTER ALL, WE ARE NOW
20	PROMOTING NEW ISSUES, NEW ACTIVITIES, NEW
21	OPPORTUNITIES FOR OUR DIVERSE COMMUNITIES TO ENGAGE.
22	AND THAT TAKES A REAL LIFT FOR OUR COMMS TEAM TO
23	MAKE SURE THAT THEY'RE WELL SUPPORTED, THEY HAVE
24	ENOUGH PEOPLE TO DO THE WORK, AND WE ARE OUTREACHING
25	IN THE MULTIPLE WAYS ONE NEEDS TO IN ORDER TO GET
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1	THE MESSAGE OUT AND TO ENGAGE, NOT JUST OUR BRIDGES
2	TEAMS AND OUR SPARKS KIDS AND SO ON AND SO FORTH,
3	BUT TO MAKE SURE THAT OUR PUBLIC IS REALLY BEGINNING
4	TO HEAR, SEE, AND KNOW WHAT THE HECK WE'RE ALL
5	ABOUT.
6	AND SO I JUST REALLY WANT TO CONTINUE TO
7	SUPPORT THAT SOMEHOW OR ANOTHER BUILT WITHIN THIS IS
8	A DECENT AMOUNT OF DOLLARS FOR OUR COMMS TEAM. AND
9	WELCOME ABOARD KOREN WHO'S JUST IN THE BACK OF THE
10	ROOM. SORRY, MR. CHAIR, DIDN'T MEAN TO STEEL ANY
11	THUNDER HERE, BUT JUST WANTED TO WELCOME KOREN.
12	CHAIRMAN IMBASCIANI: CERTAINLY CONSTANT
13	WITH ONE OF MY IMPERATIVES, IF YOU WILL. I
14	CERTAINLY SUPPORT YOUR COMMENT, AND I DON'T THINK
15	THERE'S A WORRY ON THAT.
16	MS. DURON: SHOW ME THE MONEY.
17	CHAIRMAN IMBASCIANI: I DON'T THINK IT'S
18	CALLED OUT AS A SEPARATE LINE ITEM.
19	MS. DURON: I THINK IT SHOULD BE.
20	CHAIRMAN IMBASCIANI: OKAY. FINANCE CAN
21	TAKE THAT UNDER ADVISEMENT. GOOD SUGGESTION. THANK
22	YOU.
23	SO PLEASE, MS. SIMPSON, STAY THERE AT THE
24	PODIUM. WE'RE GOING TO CONSIDERATION OF CIRM'S
25	SCIENTIFIC RESEARCH BUDGET FOR FISCAL YEAR 23/24.

1	SO MAY I HAVE A MOTION TO APPROVE THE FORM
2	RECOMMENDED IN YOUR PACKET BY THE FINANCE
3	SUBCOMMITTEE AND A SECOND?
4	DR. HIGGINS: SO MOVED.
5	DR. YAMAMOTO: SECOND.
6	CHAIRMAN IMBASCIANI: MEMBER HIGGINS HAS
7	MOVED IT; MEMBER YAMAMOTO HAS SECONDED. POUNEH, YOU
8	MAY PROCEED.
9	MS. SIMPSON: SO TO PRESENT THE RESEARCH
10	BUDGET, WE BROUGHT BACK A COUPLE OF SLIDES THAT YOU
11	MAY REMEMBER SEEING IN THE PRE-PANDEMIC ERA,
12	PRE-PROP 14 ERA. SO THIS IS TO SUMMARIZE THE 5.5
13	BILLION OF PROP 14 AGAIN. SO TO CALL OUT WHAT IS IN
14	THE RESEARCH BUCKET, THE 4.9 BILLION.
15	IN THE NEXT SLIDE I BREAK OUT THAT
16	RESEARCH BUCKET INTO COMMITTED AND UNCOMMITTED. SO
17	FAR THE BOARD HAS COMMITTED \$811.4 MILLION OF THE
18	RESEARCH BUCKET. SO TODAY I'M GOING TO BE
19	PRESENTING THE 23/24 BUDGET FOR ADDITIONAL
20	COMMITMENTS IN THE FUTURE FOR RESEARCH.
21	TO GO OVER THE AGENDA, I WILL TELL YOU
22	WHERE WE ARE AT WITH THIS YEAR WITH WHAT THE BOARD
23	APPROVED AND WHAT WE'VE BEEN ABLE TO DO WITH IT
24	BEFORE PRESENTING THE 23/24 BUDGET FOR YOUR
25	APPROVAL.

1	SO IN 22/23 IN THIS CHART WE SUMMARIZE THE
2	AMOUNT THAT THE BOARD APPROVED, \$426.7 MILLION. THE
3	BOARD HAS BEEN VERY BUSY IN COMMITTING GRANTS TO
4	VARIOUS PROJECTS. AND IN TOTAL WE HAVE COMMITTED
5	\$293.6 MILLION. THERE'S PENDING COMMITMENTS OF
6	\$26.2 MILLION, AND THIS HAS TO DO WITH THE TIMING OF
7	HOW WE PUT OUR GRANTS OUT. SOME OF THEM CAN'T FIT
8	IN THE CALENDAR BEFORE JUNE 30TH AND FALL INTO
9	SUBSEQUENT MONTHS. THIS IS ACTUALLY SOMETHING THAT
10	WE ARE PROPOSING A CHANGE TO IN FISCAL YEAR 23/24,
11	WHICH I WILL TALK ABOUT IN FEW SLIDES.
12	SO THE COMBINED ESTIMATED TO FINISH
13	COMMITMENTS IN RESEARCH WILL BE \$330.4 MILLION THIS
14	YEAR WITH A SAVINGS OF 96.3 MILLION. I WANT TO TALK
15	A LITTLE BIT ABOUT THE LARGEST CATEGORY OF SAVINGS
16	THERE, THE 70 MILLION. THIS IS MOSTLY ATTRIBUTED TO
17	OUR INABILITY TO FIND A CONTRACTOR QUICKLY ENOUGH
18	FOR THE FACILITIES WORKING GROUP AND SOME DELAYS
19	THAT CAME FROM THAT FOR THE SHARED LABS. WE NOW
20	HAVE THE CONTRACTOR IN PLACE AND THEY WILL HELP US
21	WITH DESIGNING THE REVIEW REQUIREMENTS FOR THE
22	APPLICATIONS THAT WE WILL BE REVIEWING.
23	SO MOVING ON TO THE 23/24 BUDGET, THERE'S
24	SOME MAJOR DRIVERS THAT HAVE LED TO THE BUDGET WE
25	ARE PROPOSING. WE PLAN ON HAVING 18 GRANTS WORKING

1	GROUPS, ONE FACILITIES WORKING GROUP, ONE ACCESS AND
2	AFFORDABILITY WORKING GROUP IN A 12-MONTH PERIOD.
3	WE WILL CONTINUE FUNDING OUR DISCOVERY,
4	TRANSLATIONAL, AND CLINICAL PILLARS. AND WE WILL
5	CONTINUE FUNDING CONFERENCE GRANTS IN THE EDUCATION
6	PILLAR.
7	WE HAVE SOME NEW INITIATIVES THAT WE'RE
8	PROPOSING THIS YEAR, WHICH INCLUDE THE SHARED LABS,
9	THE ACCESS AND AFFORDABILITY IN THE PATIENT SUPPORT
10	PROGRAM, AND THE DISC NEURO CONCEPT WILL BE
11	PRESENTED IN THE FALL OF THIS COMING YEAR.
12	SO TO DIG A LITTLE BIT DEEPER INTO OUR
13	METHODOLOGY BY PILLAR, I WANT TO START BY SAYING
14	THAT, WHEN WE PREPARE THE RESEARCH BUDGET, WE WANT
15	TO MAKE SURE THERE'S ENOUGH FUNDING SO THAT IF OUR
16	PERFORMANCE IN A GIVEN YEAR IS THE SAME AS PREVIOUS
17	YEARS, THAT WE HAVE THE FUNDS AVAILABLE FOR THE
18	BOARD SO THAT THEY CAN MAKE COMMITMENTS.
19	SO WITH REGARDS TO THE CLINICAL BUDGET, WE
20	HAVE A NEW PARADIGM THIS YEAR WITH INCREASES IN THE
21	VOLUME OF APPLICATIONS. THIS IS PRIMARILY DUE TO
22	TWO THINGS: THE SUCCESSFUL RECRUITMENT OF GRANTEES
23	AND ALSO THE CHANGE IN THE ECONOMY. SO WE ARE
24	REQUESTING \$250 MILLION, WHICH IS BASED ON THE
25	MAXIMUM NUMBER OF AWARDS FUNDED IN A YEAR TIMES THE

1	AVERAGE AWARD AMOUNT. AND THIS SPACE HAS BEEN NOW
2	ADJUSTED TO REFLECT THE HIGH THAT WE HAD IN FISCAL
3	YEAR 22/23.
4	FOR TRANSLATIONAL BUDGET, WE'RE REQUESTING
5	\$84.6 MILLION. THIS IS BASED ON THE AVERAGE NUMBER
6	OF AWARDS FUNDED PER REVIEW TIMES THE NUMBER OF
7	REVIEWS TIMES THE AVERAGE AMOUNT. WE ARRIVED AT
8	THIS METHODOLOGY BASED ON THE INPUT WE GET FROM THE
9	STAFF. AND THIS ALSO INCLUDES AN INCREASE OF TWO
10	EXTRA GRANTS GOING OUT IN 23/24.
11	FOR THE DISCOVERY BUDGET, WE INITIALLY
12	REQUESTED \$62.5 MILLION, BUT IN A LATER SLIDE I WANT
13	TO COME BACK TO THIS BECAUSE WE HAVE SOME ADDITIONAL
14	NUMBERS THAT WE WANT TO UPDATE YOU ON. WITH REGARDS
15	TO EDUCATION, WE'RE GOING TO CONTINUE WITH 2.5
16	MILLION IN FUNDING FOR CONFERENCE GRANTS. AND,
17	FINALLY, IN THE CATEGORY OF INFRASTRUCTURE, WE ARE
18	REQUESTING 62.5 MILLION TO COVER THE SHARED LABS,
19	THE PATIENT SUPPORT GRANTS, AND THE MANUFACTURING
20	POTENTIAL FOR POSSIBLE RESUBMISSION OF APPLICATIONS.
21	IN A SITUATION WHERE PERFORMANCE EXCEEDS
22	OUR BUDGET, WE CAN ALWAYS COME BACK TO THE BOARD AS
23	PART OF THE MID-YEAR BUDGET TO REQUEST ADDITIONAL
24	FUNDS SO THAT ALL MERITORIOUS GRANTS AND NEEDS OUT
25	THERE ARE MET.

1	UP TO NOW THE BUDGET INCLUDED THE START OF
2	ALL OF OUR INITIATIVES, BUT NOT NECESSARILY WHEN
3	THAT INITIATIVE WOULD BE PRESENTED FOR AWARD. SO AN
4	INITIATIVE MIGHT HAVE STARTED MID-YEAR AND IT WOULD
5	SPILL INTO THE FOLLOWING YEAR BECAUSE OF THE
6	CALENDARING OF THE REVIEW AND AWARD PROCESS.
7	ONE OF THE FISCAL CHANGES WE'RE PROPOSING
8	IS STARTING IN FISCAL YEAR 23/24, ALL THE REQUESTS
9	IN ALL THE PILLARS THAT WE'RE PRESENTING WILL BE
10	COMMITTED IN THAT FISCAL YEAR. SO BARRING ANY
11	UNFORESEEN CIRCUMSTANCES, ALL THE FUNDS WE ARE
12	ASKING FOR IN THIS NEXT FISCAL YEAR WILL ACTUALLY
13	COME TO THE BOARD FOR A DECISION BEFORE JUNE 30TH.
14	THIS NEXT SLIDE IS WHAT I PRESENTED TO THE
15	SCIENCE SUBCOMMITTEE. AND SINCE THEN WE HAVE HAD
16	ADDITIONAL INFORMATION THAT IS ADJUSTING THE TOTAL
17	ASK. SO THE FOLLOWING SLIDE SHOWS THE ADJUSTMENT
18	THAT WE'RE GOING TO BE ASKING FOR. SO IN THE LAST
19	NEURO TASK FORCE, THE CIRM STAFF WAS ASKED TO
20	REEVALUATE THE GRANT AMOUNTS FOR THE DISCOVERY
21	PROGRAM. AND SO FOR THAT REASON, WE HAD BEEN
22	PROPOSING A REDUCTION IN DISCOVERY OF \$22.2 MILLION;
23	BUT NOW WE'VE REVISED OUR REQUEST AND ARE ASKING
24	THAT YOU ALLOW US TO STAY AT THAT 84.7 MILLION THAT
25	WAS APPROVED IN 22/23 SO THAT THERE WON'T BE ANY

1	CHANGES FROM THIS FISCAL YEAR TO NEXT IN THAT
2	CATEGORY.
3	AS A RESULT, WE ARE ASKING FOR A TOTAL OF
4	\$486.3 MILLION FOR THE 23/24 FISCAL YEAR.
5	AND THAT IS THE PRESENTATION. I'M ASKING
6	FOR APPROVAL FOR THAT AMOUNT. IF THERE'S ANY
7	QUESTIONS, I'M HAPPY TO TAKE IT.
8	CHAIRMAN IMBASCIANI: NOW PROCEED TO BOARD
9	QUESTIONS AND COMMENTS. KIM BARRETT.
10	DR. BARRETT: THANK YOU VERY MUCH FOR YOUR
11	CLEAR PRESENTATION. IF I'M READING THE NUMBERS
12	RIGHT, IN 22/23 THERE WAS A SIGNIFICANT UNDER-SPEND
13	IN THE DISCOVERY CATEGORY OF AROUND 20 PLUS MILLION.
14	MS. SIMPSON: THAT WAS ACTUALLY A RESULT
15	OF A POSTPONEMENT OF ONE OF OUR AWARDS. SO IT WAS
16	JUST POSTPONED OUT.
17	DR. BARRETT: BUT YOU WERE BUDGETED LAST
18	YEAR A HUNDRED MILLION; AND EVEN WITH THE INCREASE
19	OF 22.2 MILLION, YOU WOULD STILL GO UP TO 84?
20	MS. SIMPSON: THAT'S CORRECT. THAT'S WHAT
21	WE'RE ASKING FOR.
22	DR. BARRETT: SO THAT DOES REFLECT AN
23	OVERALL REDUCTION IN INVESTMENT IN THE DISCOVERY
24	CATEGORY. AND APROPOS OF THE CONVERSATION THAT WE
25	HAD EARLIER WITH GIL ABOUT HAVING TO PRIORITIZE AND

1	HAVE MORE MERITORIOUS APPLICATIONS THAN CAN BE
2	SUPPORTED, I WONDERED WHETHER THAT WAS PERHAPS
3	SHORTSIGHTED.
4	MS. SIMPSON: MY COLLEAGUE WILL ADDRESS
5	THAT QUESTION.
6	DR. CANET-AVILES: THERE ARE TWO REASONS.
7	SO YOU HAVE ACTUALLY VERY CORRECTLY IDENTIFIED \$22
8	MILLION, THAT WAS ONE OF DISCOVERY, THAT DUE TO
9	CAPACITY FROM REVIEW AND ALSO FROM A STATUS YOU CAN
10	SEE WE WERE NOT ABLE HIRE ON TIME, WE HAD TO REMOVE
11	ONE OF THE CALLS. ALSO WE WERE DEVELOPING NEW
12	INITIATIVES. SO WE WERE BEING VERY MINDFUL.
13	THE SECOND REASON WAS THAT WE ACCOUNTED
14	FOR ONE OF THE DISC2S FROM LAST YEAR IN THE BUDGET
15	OF 22/23, BUT IT HAD ACTUALLY COME IN 2021. WE HAD
16	THE REVIEW, BUT WE ACCOUNTED WE HAD PAID FOR IT
17	ALREADY IN THE YEAR BEFORE. AND THAT WAS A FISCAL
18	YEAR ACCOUNTING TIMELINE MISTAKE THAT WE MADE AS NEW
19	THAT WE DIDN'T REALIZE. SO THAT WAS THE REASON, BUT
20	WE HAD THE AMOUNT OF THE THREE REVIEWS ACTUALLY.
21	HOPEFULLY THAT ANSWERS.
22	AND THEN IN TERMS
23	DR. BARRETT: IF I MAY BE ALLOWED JUST TO
24	FOLLOW UP, I THINK THIS MUST BE CAREFULLY MESSAGED
25	BECAUSE THE COMMUNITY WILL SEE THIS AS A REDUCTION

1	IN SUPPORT FOR DISCOVERY GRANTS.
2	DR. CANET-AVILES: THANK YOU. WE WILL.
3	CHAIRMAN IMBASCIANI: FURTHER COMMENTS OR
4	QUESTIONS FROM THE BOARD? MEMBER SOUTHARD.
5	DR. SOUTHARD: IN THIS AREA OF DISCOVERY,
6	I THINK IT'S REALLY IMPORTANT FOR US TO KEEP OUR EYE
7	ON IT FOR THE MIDTERM BUDGET ADJUSTMENT BECAUSE IF
8	WE ARE SUCCESSFUL IN DOING THE SEEK AND FIND FOR THE
9	NEUROPSYCH AREAS, IT WILL BE QUITE EXPENSIVE. AND
10	SO IN SOME WAYS WE SHOULD PREPARE OUR MINDS AND OUR
11	EFFORTS TOWARDS A BUDGET CORRECTION AT MID TERM.
12	DR. CANET-AVILES: THANK YOU, DR.
13	SOUTHARD. WE ARE ACTUALLY TAKING THAT INTO ACCOUNT
14	ALREADY, AND THAT'S WHY WE ADDED THE \$22.2 MILLION.
15	AND WE ARE GOING TO BE STAGING THE NEURO DISCOVERY
16	STRATEGY. SO THAT WILL COME AT THE JUNE MEETING OF
17	NEXT YEAR, BUT WE HAVE A LARGE INITIATIVE THAT HAS
18	BEEN TAKEN INTO ACCOUNT HERE. SO THANK YOU. AND IT
19	WILL COME IN SEPTEMBER.
20	CHAIRMAN IMBASCIANI: MEMBER LEVITT.
21	DR. LEVITT: I'LL SAVE IT FOR LUNCH. SO
22	WHEN YOU LOOK AT THE VARIANCE, CAN YOU YOU'VE
23	DONE YOUR CALCULATIONS. IS THIS INCREASE IN NUMBER
24	OF GRANTS OR AN INCREASE OF THE SIZE OF EACH GRANT
25	OR BOTH GIVEN THE CONVERSATIONS THAT HAVE OCCURRED

1	IN VARIOUS FORMS ABOUT THE CHALLENGES OF CONTINUING
2	TO DO THIS RESEARCH ON BUDGET LEVELS THAT WERE SET
3	SOME YEARS AGO?
4	DR. CANET-AVILES: I'LL JUST STAY HERE NOW
5	FOR A BIT. IT'S AN INCREASE IN THE SIZE OF THE
6	GRANTS, A SUBSTANTIAL INCREASE THAT YOU HAVE TO
7	REVISE AND APPROVE AND AN INCREASE IN NUMBERS AS
8	WELL.
9	DR. LEVITT: SO IT'S AN INCREASE IN BOTH.
10	DR. CANET-AVILES: IN BOTH. WE ARE
11	TALKING ABOUT DISCOVERY RIGHT NOW. I WILL DEAL WITH
12	DISCOVERY AND SHARED LABS AND EDUCATION, AND MY
13	COLLEAGUE, DR. CREASEY, CAN DEAL WITH THE
14	TRANSLATION ON CLINICAL.
15	DR. LEVITT: OKAY.
16	CHAIRMAN IMBASCIANI: THANK YOU, ROSA.
17	IS THERE ANY PUBLIC COMMENT? I'M BEING
18	TOLD THERE'S NO PUBLIC COMMENT. SO WE'RE GOING TO
19	PROCEED TO A VOTE TO ACCEPT THE FORM RECOMMENDED FOR
20	APPROVAL BY THE SCIENCE SUBCOMMITTEE. I
21	MISAPPROPRIATED THEM. I SAID FINANCE SUBCOMMITTEE.
22	SO PROCEEDING, ALL THOSE IN FAVOR OF ACCEPTING THE
23	PROPOSED FISCAL YEAR 23/24 RESEARCH BUDGET, PLEASE
24	SAY AYE. THOSE OPPOSED SAY NO. MR. TOCHER, IF YOU
25	WOULD POLL THE MEMBERS ONLINE.

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1	MR. TOCHER: HAIFAA ABDULHAQ.
2	DR. ABDULHAQ: YES.
3	MR. TOCHER: DAN BERNAL.
4	MR. BERNAL: AYE.
5	MR. TOCHER: GEORGE BLUMENTHAL.
6	DR. BLUMENTHAL: YES.
7	MR. TOCHER: LINDA BOXER.
8	DR. BOXER: YES.
9	MR. TOCHER: FRED FISHER.
10	DR. FISHER: AYE.
11	MR. TOCHER: JUDY GASSON.
12	DR. GASSON: YES.
13	MR. TOCHER: LARRY GOLDSTEIN.
14	DR. GOLDSTEIN: YES.
15	MR. TOCHER: RICH LAJARA.
16	MR. LAJARA: YES.
17	MR. TOCHER: DAVID LO.
18	DR. LO: YES.
19	MR. TOCHER: CHRISTINE MIASKOWSKI.
20	DR. MIASKOWSKI: YES.
21	MR. TOCHER: MICHAEL STAMOS.
22	DR. STAMOS: YES.
23	MR. TOCHER: GREAT. THANKS VERY MUCH.
24	THE MOTION CARRIES.
25	CHAIRMAN IMBASCIANI: WE'RE GOING TO
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1	PROCEED TO AGENDA ITEM NO. 13, WHICH IS
2	CONSIDERATION OF AN UPDATE FROM THE NEURO TASK FORCE
3	OF THE BOARD. THIS WILL BE PRESENTED BY BOARD
4	MEMBER LARRY GOLDSTEIN.
5	DR. GOLDSTEIN: OKAY. LET ME GET
6	ACTIVATED HERE. MARIANNE, IF YOU COULD BRING UP THE
7	FIRST SLIDE PLEASE.
8	MS. DEQUINA-VILLABLANCA: WE ARE WORKING
9	ON IT, LARRY.
10	DR. GOLDSTEIN: GREAT. SO LET ME JUST
11	GIVE YOU A SUMMARY OF WHERE WE ARE AFTER HALF A
12	DOZEN OR SO MEETINGS. WE'VE BEEN MEETING MONTHLY
13	SINCE FEBRUARY, AND THOSE MEETINGS HAVE BEEN DEVOTED
14	TO A REVIEW OF THE CURRENT PORTFOLIO OF GRANTS FROM
15	CIRM IN A VARIETY OF AREAS OF NEURO, A DISCUSSION OF
16	PRIORITIES, AND A DISCUSSION OF REALLY WHERE WE WANT
17	TO BE MOVING FORWARD.
18	THIS SLIDE JUST SUMMARIZES THE BULK OF OUR
19	CONCLUSIONS. FIRST, WHEN WE LOOK AT THE FRACTION OF
20	THE BUDGET THAT IS BEING SPENT IN THE NEURO AREA, IT
21	IS RUNNING AT ABOUT THE SAME PERCENTAGE AS THE 1.5
22	BILLION SET ASIDE OUT OF THE TOTAL 5.5 BILLION. SO
23	THAT'S WE WOULD EXPECT SLASH HOPE IN ORDER TO HIT
24	THAT MARK, THAT IT OUGHT TO BE ABOUT 30 PERCENT, AND
25	THAT'S ABOUT WHAT IT'S BEEN RUNNING AT. SO THERE'S

1	NO, IN A SENSE, EMERGENCY TO BE SURE THAT WE EITHER
2	DECREASE OR INCREASE THE RATE OF SPENDING IN THE
3	NEURO AREA BECAUSE THE GRANTS WORKING GROUP IS DOING
4	AN APPROPRIATE JOB OF SORTING THROUGH THE
5	APPLICATIONS.
6	NONETHELESS, WHEN WE THINK ABOUT HOW MUCH
7	OF THAT ONE AND A HALF BILLION SHOULD WE TRY TO
8	PROGRAM, AT PRESENT THERE'S NOT A LOT OF SENTIMENT
9	IN FAVOR OF TRYING TO SPECIFY ALL OF THAT ONE AND A
10	HALF BILLION. WE THINK THAT THE GRANT REVIEW SYSTEM
11	IS DOING JUST FINE.
12	BUT PORTFOLIO REVIEW HAS SUGGESTED A
13	COUPLE THINGS WE SHOULD THINK ABOUT. AND, MARIANNE,
14	COULD WE HAVE THE NEXT SLIDE PLEASE. SO THIS IS ONE
15	OF SEVERAL SLIDES THAT THE CIRM TEAM CREATED
16	FOLLOWING A REALLY EXCELLENT REVIEW OF THE
17	PORTFOLIO. AND IT'S A MEASURE OF SPENDING IN
18	DIFFERENT AREAS OF NEURO DISEASE RELATIVE TO THE
19	DISABILITY INDEX. DALY, DISABLED ADJUSTED LIFE
20	YEARS, IS ONE OF SEVERAL MEASURES THAT CAN BE USED
21	TO MEASURE THE IMPACT OF A DISEASE ON THE AMERICAN
22	POPULATION. AND ALTHOUGH THE FUNDING DOESN'T
23	NECESSARILY FOLLOW THE DISABILITY INDEX VERY
24	CLOSELY, THERE'S NO REASON AT THE MOMENT TO SUSPECT
25	WITH AN EXCEPTION OR TWO THAT THE GRANT REVIEW

1	SYSTEM IS NOT DOING AN ADEQUATE JOB OF ALLOCATING
2	BASED ON THE MERIT OF THE APPLICATIONS IN THE AREA.
3	ONE MAJOR EXCEPTION YOU CAN SEE AT THE
4	BOTTOM THERE, WHICH ARE GRANTS IN THE
5	NEUROPSYCHIATRIC DISEASE AREA, WHERE YOU CAN SEE THE
6	DISABILITY INDEX IS ENORMOUS COMPARED TO MOST OTHER
7	DISEASES. AND YOU CAN SEE THAT OUR CURRENT
8	COMMITMENT IN THIS AREA IS ZERO, AND WE FELT THAT
9	THAT WAS ULTIMATELY INAPPROPRIATE. THERE'S ALSO A
10	DISCUSSION ENSUING ABOUT STROKE ALTHOUGH IT'S
11	PROBABLY LESS URGENT IN THE NEUROPSYCHIATRIC AREA.
12	MARIANNE, IF YOU CAN GO BACK TO THE
13	PREVIOUS SLIDE. SO CONCLUSION NO. 2 THERE, WE ARE
14	RECOMMENDING AN INCREASED INVESTMENT IN
15	NEUROPSYCHIATRIC DISORDERS WHERE I'LL COME TO WHAT
16	OUR PLANS ARE IN A MOMENT AND POSSIBLY IN STROKE.
17	NOW, THE OTHER THING THAT HAS COME UP IS
18	SOMETHING THAT THE BOARD JUST DISCUSSED EARLIER IN
19	THIS MEETING, WHICH IS SIZE AND DURATION OF GRANT
20	AWARDS. WE HEARD FROM SOME FOLKS IN THE
21	NEUROPSYCHIATRIC COMMUNITY IN PARTICULAR THAT THE
22	GRANT AMOUNTS ARE REALLY NOT LARGE ENOUGH TO SUPPORT
23	WHAT THEY REGARD AS APPROPRIATE SCIENTIFIC AND
24	MEDICAL INVESTMENTS IN THIS AREA. AND I KNOW THAT
25	THERE'S GOING TO BE CONTINUED BOARD DISCUSSION OF
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1	THIS AND PROBABLY SOME DISCUSSION IN THE TASK FORCE.
2	ITEM 4 IS, IN PARTICULAR, FOR NEW WORK IN
3	NEUROPSYCHIATRY, PSYCHIATRIC DISEASE, THAT WE HOPE
4	WILL BE FUNDED. WE REALLY THINK THERE OUGHT TO BE A
5	STRONG EFFORT TO PUT MULTIDISCIPLINARY TEAMS
6	TOGETHER. THE REASON FOR THAT IS THAT IT'S VERY
7	CLEAR THAT THERE ARE STRONG GENETIC INFLUENCES ON
8	THE DEVELOPMENT OF NEUROPSYCHIATRIC DISEASE AND AT
9	THE VERY LEAST A TEAM WITH STEM CELL BIOLOGISTS AND
10	BIOCHEMISTS OUGHT TO INCLUDE GENETICISTS TO HELP
11	FIGURE OUT WHAT SORTS OF INDIVIDUALS TO GENERATE
12	STEM CELL LINES FROM FOR DIFFERENT NEUROPSYCHIATRIC
13	DISORDERS. THERE'S A MIX IN THAT 50 PERCENT
14	HERITABILITY OF SINGLE LARGE EFFECT RARE FACTORS
15	COMBINED WITH MUCH MORE COMMON LOW EFFECT
16	INDIVIDUALLY GENETIC VARIANTS.
17	AND THEN, FINALLY, AGAIN, THERE WAS A
18	DISCUSSION THAT CAME UP IN THIS AREA ABOUT FUNDING
19	OF SMALL MOLECULES. I KNOW GIL ADDRESSED THAT
20	EARLIER IN THE MEETING. I'LL JUST POINT OUT THAT IN
21	THE NEUROPSYCHIATRIC AREA ONE HOPE WOULD BE THAT
22	USING STEM CELL MODELS, IT MAY BE POSSIBLE, FOR
23	EXAMPLE, TO FIND FDA-APPROVED DRUGS THAT HAVE SOME
24	INFLUENCE ON THE BEHAVIOR OF NEURONS AND GLIA
25	DERIVED FROM INDIVIDUALS WITH, FOR EXAMPLE,

1	SCHIZOPHRENIA OR DEPRESSION OR WHAT HAVE YOU.
2	EXACTLY HOW THOSE WOULD BE FUNDED TO GET THEM TO
3	CLINICAL TRIALS AND THEN APPROVAL MAY REQUIRE AT
4	SOME POINT A DISCUSSION OF FUNDING OF SMALL MOLECULE
5	PROPOSALS, IN PARTICULAR, THOSE THAT DON'T
6	NECESSARILY DEPEND ON STEM OR PROGENITOR CELLS FOR
7	THEIR EVALUATION.
8	I THINK THAT THIS IS NOT HIGHLY LIKELY,
9	BUT IT MAY WELL HAPPEN AND WE SHOULD PREPARE
10	OURSELVES AT SOME POINT TO DISCUSS THIS ISSUE.
11	SO, MR. CHAIRMAN, THAT'S THE SUMMARY I
12	WANTED TO PROVIDE. AND I'D BE HAPPY TO TAKE
13	QUESTIONS FROM BOARD MEMBERS IF THERE ARE ANY.
14	CHAIRMAN IMBASCIANI: THANK YOU VERY MUCH
15	FOR THAT PRESENTATION. THE FLOOR IS NOW OPEN FOR
16	COMMENTS AND QUESTIONS STARTING WITH SHLOMO.
17	DR. MELMED: THANKS, LARRY. THAT WAS
18	REALLY A TERRIFIC ASSESSMENT AND VERY HELPFUL FOR
19	UNDERSTANDING THE LANDSCAPE AND ALSO BE IMPORTANT
20	FOR GOING FORWARD.
21	I WAS STRUCK BY ANOTHER INCONSISTENCY IN
22	THE DALY VERSUS WHAT WE ARE FUNDING, WHICH ALSO
23	INDIRECTLY AND DIRECTLY LEADS TO STROKE AND
24	ALZHEIMER'S IN YOUR PURVIEW, AND THAT IS DIABETES.
25	IS THERE REALLY ZERO IN DIABETES? I RECALL THERE

1	WERE SOME DIABETES GRANTS. IF IT IS ZERO, I THINK
2	THAT SHOULD APPEAR AS A TRIGGER FOR STROKE AND
3	CERTAINLY SHOULD BE CONSIDERED BECAUSE THE DALY IS
4	VERY HIGH.
5	DR. GOLDSTEIN: THANK YOU, SHLOMO. THAT'S
6	AN EXCELLENT POINT. I DON'T THINK WE CALLED OUT
7	DIABETES IN THE NEURO AREA SPECIFICALLY IN THE
8	PORTFOLIO ANALYSIS. SOMEBODY FROM THE CIRM TEAM CAN
9	CORRECT ME IF I'M WRONG ABOUT THAT. YOU'VE RAISED
10	AN INTERESTING POINT THOUGH ABOUT WHETHER WE SHOULD
11	INCLUDE IT IN OUR THINKING ABOUT STROKE. AND I'LL
12	BRING THAT TO OUR NEXT TASK FORCE MEETING.
13	DR. CANET-AVILES: THE ANALYSIS THAT DR.
14	CREASEY AND MY TEAM DID ONLY WAS FOR NEUROSCIENCE
15	BECAUSE WE WERE THIS WAS IN CONTEXT OF THE NEURO
16	TASK FORCE.
17	DR. MELMED: BECAUSE IT WOULD BE
18	INTERESTING TO COMPARE THE DALY TO THAT AS WELL AND
19	WHAT OUR SUPPORT IS BECAUSE THE DALY IS MUCH HIGHER
20	THAN MANY OF THOSE THERE FOR DIABETES. IT'S 14
21	PERCENT OF THE HEALTHCARE GMP.
22	CHAIRMAN IMBASCIANI: THANK YOU, SHLOMO.
23	NEXT WE HAVE BOARD MEMBER FRED FISHER.
24	DR. FISHER: HI. I APOLOGIZE FOR MISSING
25	THE LAST TASK FORCE MEETING. SO MY QUESTION

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1	PROBABLY COULD HAVE BEEN ASKED AND ANSWERED IN THE
2	LAST MEETING.
3	I'M NOT FAMILIAR WITH THE DALY. AND THE
4	WAY I HEARD YOU SPEAK OF IT, WHICH I MIGHT HAVE
5	MISHEARD YOU, IT'S SOME REFLECTION OF EITHER DISEASE
6	BURDEN OR BURDEN SHLOMO'S COMMENTS SUGGEST TO ME
7	MAYBE IT'S NOT, NOT ABOUT DISEASE BURDEN, BUT IT'S
8	ABOUT HOW MUCH BURDEN IT PUTS ON THE HEALTHCARE
9	SYSTEM.
10	SO COULD YOU CLARIFY FOR ME WHAT THE DALY
11	MEANS?
12	DR. GOLDSTEIN: YEAH. SO I'M NOT AN
13	EPIDEMIOLOGIST EXPERT, BUT MY UNDERSTANDING OF IT,
14	FRED, IS THAT IT IS THE BURDEN OF DISEASE ON THE
15	INDIVIDUALS, NOT NECESSARILY THE HEALTHCARE SYSTEM.
16	I THINK THE BURDEN ON THE HEALTHCARE SYSTEM IS A
17	DIFFERENT MEASURE THAT'S NOT SHOWN THERE. SO THE
18	NEUROPSYCHIATRIC DISEASE BURDEN, FOR EXAMPLE,
19	MEASURES OR ESTIMATES HOW MUCH DOES DEPRESSION OR
20	MANIA OR OTHER OR SCHIZOPHRENIA BURDEN PEOPLE'S
21	PRODUCTIVE LIVES. IT'S A VERY IMPORTANT WAY OF
22	LOOKING AT DISEASE.
23	COST OBVIOUSLY IS IMPORTANT, BUT IT
24	DOESN'T MEASURE THE HUMAN IMPACT NECESSARILY. AND I
25	THINK THAT'S WHAT WE'RE LOOKING AT THERE.

1	DR. FISHER: IT MAY BE THAT FOR NEUROPSYCH
2	IT'S AN EXCELLENT MEASURE OF BURDEN AND CERTAINLY
3	SOMETHING THAT WE SHOULD BE LOOKING AT. IF YOU CAN
4	PUT THAT CHART BACK UP. AS THE ALS/MMD PATIENT
5	ADVOCATE, THE DALY FOR ALS AND NEURODEGENERATIVE
6	DISEASES IS AMONG THE LOWEST HERE, BUT FEW WOULD
7	ARGUE THAT THE BURDEN OF HAVING ALS IS SMALL. SO IT
8	MIGHT BE THAT WHAT WE USE TO EVALUATE THE BURDEN OF
9	DISEASE, WE MAY NEED DIFFERENT TOOLS BECAUSE THIS
10	ONE, IN MY MIND, CERTAINLY DOES NOT CAPTURE IN ANY
11	ADEQUATE WAY THE BURDEN OF DISEASE THAT ALS AND
12	MOTOR NEURON DISEASE AND MS FOR THAT MATTER WHICH I
13	AM ALSO THE PATIENT ADVOCATE FOR.
	DR. MELMED: I THINK IT'S THE NOMINATOR.
14	
14 15	IT'S DALY PER 100,000. BECAUSE ALS IS SO RARE,
	IT'S DALY PER 100,000. BECAUSE ALS IS SO RARE, THAT'S WHY IT COMES OUT 4.7 OR 47. CAN'T SEE.
15	
15 16	THAT'S WHY IT COMES OUT 4.7 OR 47. CAN'T SEE.
15 16 17	THAT'S WHY IT COMES OUT 4.7 OR 47. CAN'T SEE.  DR. GOLDSTEIN: IF I MIGHT ADD TO THAT,
15 16 17 18	THAT'S WHY IT COMES OUT 4.7 OR 47. CAN'T SEE.  DR. GOLDSTEIN: IF I MIGHT ADD TO THAT,  SHLOMO, THE OTHER THING THAT YOU POINT OUT, FRED, IS
15 16 17 18 19	THAT'S WHY IT COMES OUT 4.7 OR 47. CAN'T SEE.  DR. GOLDSTEIN: IF I MIGHT ADD TO THAT,  SHLOMO, THE OTHER THING THAT YOU POINT OUT, FRED, IS  I THINK COMPLETELY CORRECT. AND THAT IS THAT A
15 16 17 18 19	THAT'S WHY IT COMES OUT 4.7 OR 47. CAN'T SEE.  DR. GOLDSTEIN: IF I MIGHT ADD TO THAT,  SHLOMO, THE OTHER THING THAT YOU POINT OUT, FRED, IS  I THINK COMPLETELY CORRECT. AND THAT IS THAT A  DISORDER SUCH AS ALS THAT IS RAPIDLY LETHAL IS GOING
15 16 17 18 19 20	THAT'S WHY IT COMES OUT 4.7 OR 47. CAN'T SEE.  DR. GOLDSTEIN: IF I MIGHT ADD TO THAT,  SHLOMO, THE OTHER THING THAT YOU POINT OUT, FRED, IS  I THINK COMPLETELY CORRECT. AND THAT IS THAT A  DISORDER SUCH AS ALS THAT IS RAPIDLY LETHAL IS GOING  TO UNDERESTIMATE THE DISEASE BURDEN OVER TIME
15 16 17 18 19 20 21	THAT'S WHY IT COMES OUT 4.7 OR 47. CAN'T SEE.  DR. GOLDSTEIN: IF I MIGHT ADD TO THAT,  SHLOMO, THE OTHER THING THAT YOU POINT OUT, FRED, IS  I THINK COMPLETELY CORRECT. AND THAT IS THAT A  DISORDER SUCH AS ALS THAT IS RAPIDLY LETHAL IS GOING  TO UNDERESTIMATE THE DISEASE BURDEN OVER TIME  BECAUSE THE TIME THAT PEOPLE HAVE THESE SORTS OF
15 16 17 18 19 20 21 22	THAT'S WHY IT COMES OUT 4.7 OR 47. CAN'T SEE.  DR. GOLDSTEIN: IF I MIGHT ADD TO THAT,  SHLOMO, THE OTHER THING THAT YOU POINT OUT, FRED, IS  I THINK COMPLETELY CORRECT. AND THAT IS THAT A  DISORDER SUCH AS ALS THAT IS RAPIDLY LETHAL IS GOING  TO UNDERESTIMATE THE DISEASE BURDEN OVER TIME  BECAUSE THE TIME THAT PEOPLE HAVE THESE SORTS OF  THINGS IS SO SHORT.

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1	DOES THE GRANT PORTFOLIO LOOK LIKE AND ARE GRANTS
2	MISSING SOMETHING OBVIOUS IN THE AREA OF ALS. SO I
3	WOULDN'T SAY THAT WE'VE NECESSARILY CUT OFF FURTHER
4	DISCUSSION OF THAT. AND YOUR POINT IS, I THINK,
5	PRETTY REASONABLE FOR THESE DISORDERS THAT ARE SO
6	RAPIDLY LETHAL.
7	DR. FISHER: AND REPRESENT PERHAPS A
8	SMALLER PERCENTAGE OF THE PATIENT POPULATION. SO WE
9	NEED A DIFFERENT TOOL TO LOOK AT WHAT WE ARE
10	INVESTING AND THE BURDEN OF THE DISEASE ON THOSE
11	POPULATIONS SUFFERING FROM WHAT ARE CONSIDERED RARE
12	DISEASES.
13	DR. GOLDSTEIN: FAIR POINT.
14	DR. CANET-AVILES: DR. GOLDSTEIN, CAN I
15	ADD A COMMENT?
16	DR. GOLDSTEIN: OH, YES. PLEASE, ROSA.
17	DR. CANET-AVILES: I JUST WANTED TO READ
18	HOW WE CALCULATED THESE. THE DALY ACTUALLY REFLECTS
19	A TIME-BASED MEASURE THAT COMBINES YEARS OF LIFE
20	LOST DUE TO PREMATURE MORTALITY AND YEARS OF LIFE
21	LOST DUE TO TIME IN STATES OF LESS THAN FULL HEALTH
22	OR HEALTH. SO I JUST WANTED TO AND WE DID THIS
23	PER 100,000, AND WE TOOK VALUES THAT WERE FROM THE
24	WORLD HEALTH ORGANIZATION AND THE GATES FOUNDATION
25	THAT HAS BEEN CALCULATING THESE OVER THE YEARS, AND

1	THESE ARE THE MOST RECENT VALUES.
2	DR. FISHER: I WOULD JUST SUGGEST THAT
3	USING THE DALY WHEN IT COMES TO FAST PROGRESSING,
4	LETHAL DISEASES, THAT THIS IS NOT THE BEST
5	ILLUSTRATION OF INVESTMENT VERSUS IMPACT BECAUSE
6	WHEN YOU GO FROM BEING PERFECTLY FUNCTIONING TO
7	LOSING THE ABILITY TO EAT, SWALLOW, MOVE, TALK, AND
8	BREATHE WITHIN TYPICALLY A TWO- TO FIVE-YEAR PERIOD
9	AND IT'S A RARE DISEASE, YOU'RE GOING TO BE
10	UNDERREPRESENTED IN THE WAY THAT ROSA JUST
11	DESCRIBED. AND SO WE NEED A VARIETY OF TOOLS TO
12	EXPRESS AND UNDERSTAND HOW WE ARE INVESTING FUNDS
13	AND THE IMPACT OF THOSE DISEASES ON THOSE
14	COMMUNITIES AS THIS ONE REALLY IS INADEQUATE WHEN IT
15	COMES TO ALS AND MND AND MS.
16	DR. GOLDSTEIN: I THINK THIS IS SOMETHING
17	WE CAN TAKE UP AT A FUTURE MEETING, FRED. I DON'T
18	DISPUTE THAT THERE'S VALUE IN CONTINUING THAT
19	DISCUSSION. UNFORTUNATELY FOR MANY OF THESE
20	DISEASES, ADVOCATES CAN MAKE VERY STRONG ARGUMENTS
21	ABOUT WHAT THE RIGHT LEVEL OF ALLOCATION IS. AND AS
22	YOU KNOW, THAT'S ALWAYS A TRICKY BUSINESS. I THINK
23	HITTING NEUROPSYCH FIRST IS SOMETHING WHERE IT'S
24	REALLY BEEN ALMOST COMPLETELY IGNORED IN OUR
25	PORTFOLIO AND, THEREFORE, CONSTITUTES A HIGH

1	PRIORITY. AND THERE WILL BE A CONCEPT COMING FROM
2	VICE PRESIDENT CANET-AVILES SOON.
3	DR. FISHER: I DON'T WANT TO BE
4	MISUNDERSTOOD. I'M NOT BEING CRITICAL OF THE
5	PRIORITY OF NEUROPSYCH. I'M BEING CRITICAL OF USING
6	DALY WHEN IT COMES TO UNDERSTANDING OUR INVESTMENT
7	RELATED TO THE IMPACT OF DISEASE BECAUSE IT SEVERELY
8	UNDERREPRESENTS THE BURDEN OF DISEASE.
9	CHAIRMAN IMBASCIANI: VERY GOOD POINT.
10	MEMBER MELMED.
11	DR. MELMED: ANOTHER NUANCE, LARRY. I
12	DON'T KNOW IF YOU CONSIDERED FOR EPILEPSY, FOR
13	EXAMPLE, DID YOU CALL OUT PEDIATRICS? BECAUSE
14	PEDIATRIC EPILEPSY AND NEONATAL EPILEPSY IS SO MUCH
15	MORE COMMON IN ADULTS. I WONDER IF THAT SHOULDN'T
16	BE EMPHASIZED. THAT'S A VERY SIGNIFICANT COMPONENT
17	OF THE NEONATAL MORBIDITY POPULATION.
18	DR. GOLDSTEIN: ROSA OR ABLA, CAN YOU
19	ADDRESS THAT PLEASE?
20	DR. MELMED: DO WE HAVE ANYTHING IN
21	PEDIATRIC EPILEPSY? IF WE DON'T, WE SHOULD. I
22	WOULD ARGUE THAT'S A VERY IMPORTANT DALY FOR
23	PEDIATRIC PATIENTS.
24	DR. CANET-AVILES: WE WILL HAVE TO LOOK
25	INTO THIS. WELL, WE HAVE EPILEPSY. YOU WERE

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1	TALKING ABOUT PEDIATRIC EPILEPSY?
2	DR. MELMED: DID WE CALL IT OUT SEPARATELY
3	OR IN ADDITION?
4	DR. MILLAN: JUST IN TERMS OF THE
5	PORTFOLIO, IN THE PRESIDENT'S REPORT, I REPORTED ON
6	AT LEAST ONE PROGRAM THAT'S IN CLINICAL STAGE FOR
7	PEDIATRIC FOCAL EPILEPSY THAT'S RESISTANT TO DRUGS,
8	WHICH IS WHERE WE ARE FINDING
9	DR. MELMED: ONLY ONE.
10	DR. MILLAN: THERE MAY BE MORE IN THE
11	TRANSLATIONAL PORTFOLIO, BUT I'LL DEFER TO DR.
12	CREASEY FOR ADDITIONAL.
13	DR. CREASEY: THERE'S ONLY ONE, THAT'S THE
14	NEURONA PROGRAM IN CLINICAL CURRENTLY. WE DON'T
15	HAVE PEDIATRICS IN CLINICAL YET.
16	DR. MELMED: I WOULD SUGGEST THAT THE TASK
17	FORCE CONSIDER THAT WE CALL THAT OUT SEPARATELY
18	BECAUSE IT'S SO IMPORTANT.
19	CHAIRMAN IMBASCIANI: MEMBER DURON.
20	MS. DURON: I WANTED TO PULL OUT, LARRY, A
21	WRINKLE AND PERHAPS EVEN FROM LEFT FIELD. BUT I
22	WOULD LIKE TO SEE SOME DATA THAT REPRESENTS THE
23	IMPACT OF THESE DISEASES ON COMMUNITIES OF COLOR
24	WHICH SOMETIMES THE IMPACT IS EVEN GREATER AS A
25	RESULT OF SOCIAL DETERMINANTS OF HEALTH. THEREFORE,

1	I WOULD LIKE TO SEE IF THEY'RE ACTUALLY RECEIVING OR
2	BEING INCLUDED. THIS GETS REALLY COMPLEX, BUT ARE
3	THEY BEING EQUALLY INCLUDED SO THAT THEY'RE GETTING
4	THE BENEFIT OF THE RESEARCH, THE TRIALS, ET CETERA,
5	BECAUSE THEY MIGHT BE DISPROPORTIONATELY IMPACTED BY
6	SOME OF THESE DISEASES.
7	ONE OF THE THINGS WE SAW PARTICULARLY
8	DURING COVID WAS THE MENTAL, EMOTIONAL IMPACT ON
9	MANY OF OUR COMMUNITIES; BUT FOR THIS FIRST TIME, IN
10	A RESPONSE FROM THE LATINO COMMUNITY WAS THEY ARE
11	ACTUALLY ADMITTING TO THE NEED FOR EMOTIONAL HELP,
12	THAT THEY WERE ACTUALLY ADMITTING THAT THERE WAS AN
13	ISSUE IN TERMS OF MENTAL HEALTH. SO THAT'S A
14	MESSAGING ISSUE. IT'S AN INVESTMENT ISSUE. IT'S A
15	WAY TO BRING THEM TO THE TABLE FOR CLINICAL TRIALS
16	THROUGH OUR CANCER CENTERS OF EXCELLENCE. I KEEP
17	SAYING THAT. I'M GOING TO HAVE TO WIPE IT OFF MY
18	TONGUE.
19	AND SO IF WE DON'T SEE IT REFLECTED IN THE
20	DATA, IT'S JUST THIS MASS STUFF, THEN I DON'T KNOW
21	HOW TO MESSAGE BACK TO MY COMMUNITY IF THIS IS
22	HELPING THEM, IF THEY'RE BEING IMPACTED, IF THEY'RE
23	ENGAGED, AND WHAT THEY NEED TO DO IN ORDER TO DO AND
24	ADDRESS ISSUES THAT THEY'RE FINALLY ADMITTING ARE
25	PART OF THE COMMUNITY IMPACT. SO I DON'T KNOW IF

1	YOU CAN PULL THAT DATA OUT, IF IT EXISTS, IF
2	ANYBODY'S TRIED TO LOOK AT IT, BUT I THINK IT IS
3	REALLY CRITICAL IF WE'RE, IN FACT, GOING TO BEGIN
4	MESSAGING TO THESE VULNERABLE POPULATIONS AS WELL.
5	DR. GOLDSTEIN: THANK YOU FOR THAT
6	COMMENT, YSABEL. I THINK I'M SURE THAT THE NUMBERS
7	EXIST SOMEWHERE. WE DID NOT DISCUSS THE DETAILS OF
8	THOSE NUMBERS THUS FAR, BUT I WILL TELL YOU THAT, AS
9	A GENERAL MATTER, THE TASK FORCE IS AWARE THAT
10	UNDERSERVED COMMUNITIES AND COMMUNITIES OF COLOR
11	ARE, IN FACT, VERY HIGHLY IMPACTED BY THESE SORTS OF
12	DISORDERS AND ABSOLUTELY NEED TO BE INCLUDED MOVING
13	FORWARD.
14	THE MESSAGING WILL BE CRITICAL, TO BE SURE
15	THAT, AS GENETIC STUDIES NOT SUPPORTED BY CIRM AND
16	PERHAPS THOSE THAT WE PARTNER ON, ARE CONTINUED IN
17	THE COMING YEARS. I'M RELATIVELY SURE THAT SOME OF
18	THEM ARE TRYING TO GET INTO COMMUNITIES OF COLOR,
19	AND IT'S CERTAINLY A COMMUNITY THAT WE ABSOLUTELY
20	HAVE TO ENGAGE MOVING FORWARD HERE.
21	CHAIRMAN IMBASCIANI: THANK YOU. MEMBER
22	MALKAS.
23	DR. MALKAS: ACTUALLY I WOULD LOVE TO ECHO
24	THAT AND ALSO DRAW A POINT TO THE CHILDREN HAVE BEEN
25	SO PROFOUNDLY AFFECTED IN THOSE COMMUNITIES BY THIS.

1	SO I WANT TO ECHO YOUR POINT.
2	CHAIRMAN IMBASCIANI: PAT LEVITT.
3	DR. LEVITT: SO THERE IS DATA ON SELECTIVE
4	DSM-V DISORDERS THAT SPEAK TO YOUR POINT DIRECTLY.
5	AND PARTICULARLY IN PEDIATRIC POPULATIONS, IT HAS A
6	VERY LARGE IMPACT ON TIME TO FIRST DIAGNOSIS, WHICH,
7	OF COURSE, THEN AFFECTS TIME TO FIRST INTERVENTION.
8	SO AFRICAN-AMERICAN CHILDREN HAVE THE LARGEST GAP
9	BETWEEN THE MEAN, WHICH IS ABOUT 3.2 YEARS FOR
10	AUTISM SPECTRUM DISORDER, FOR EXAMPLE, AND FIRST
11	DIAGNOSIS FOR CHILDREN WHO ARE IN THOSE FAMILIES,
12	WHICH IS ABOUT SIX YEARS OLD. SO IT'S SCHOOL AGE.
13	THE GAP IS CLOSING, BUT SLOWLY.
14	THERE'S ALSO NOW A LARGE NIH-FUNDED STUDY
15	OF GENETICS THAT INCLUDES LARGE LATINO POPULATIONS.
16	ALMOST ALL OF GENETICS AND IDENTIFYING MUTATIONS ARE
17	BASED ON NORTHERN EUROPEAN DATA. SO THAT'S CHANGING
18	AS WELL. BUT, AS YOU KNOW, IT'S REALLY A HEAVY LIFT
19	TO WORK WITH COMMUNITIES, PARTICULARLY WITH
20	ORGANIZATIONS THAT ARE IN COMMUNITIES, TO TALK ABOUT
21	WHY IT'S IMPORTANT TO PARTICIPATE IN RESEARCH. SO
22	THERE IS NOT JUST A GROWING AWARENESS, BUT THERE'S A
22 23	THERE IS NOT JUST A GROWING AWARENESS, BUT THERE'S A  LARGE EFFORT ON THE PART OF THE RESEARCH COMMUNITY
23	LARGE EFFORT ON THE PART OF THE RESEARCH COMMUNITY

1	THE POINT YOU MAKE IS ABSOLUTELY SPOT ON.
2	MS. DURON: MAY I JUST ADD BUT WE NEED TO
3	SEE THE DATA BECAUSE OTHERWISE WE DON'T BUY IT,
4	RIGHT. THERE'S JUST TOO MANY PEOPLE WHO DON'T
5	BELIEVE IT. AND SO WE NEED TO SEE THE DATA. AND I
6	KNOW THAT PULLING THAT OUT MIGHT BE DIFFICULT,
7	WHETHER STAFF CAN HELP WITH THAT, BUT I JUST THINK
8	OVERARCHINGLY WE JUST NEED TO SEE IT SO I CAN GO
9	BACK AND USE THAT. ALL OF US RESEARCH PROGRAM IN
10	WHICH THEY CLAIM NOW TO HAVE THE LARGEST GENOMIC
11	DATABASE, DIVERSE DATABASE, SHOWED THAT 16 PERCENT
12	OF THE ENROLLEES ARE LATINO. SO WHEN YOU SAY YOU
13	CAN'T GET THEM TO GET ENGAGED, YOU CAN, BUT WHO'S
14	CALLING THEM OUT AND WHAT ARE THEY TELLING THEM AND
15	HOW ARE THEY LISTENING TO THEM AND IN WHAT LANGUAGE
16	ARE THEY TALKING?
17	SO I THINK, AS YOU SAY, PAT, IT'S THE
18	DEVIL'S IN THE DETAILS OF HOW WE'RE GOING TO DO
19	THIS, BUT WE NEED THE DATA. SO IT HAS TO BE CALLED
20	OUT AND PULLED OUT.
21	DR. CREASEY: YSABEL, I JUST WANTED TO
22	MENTION TO YOU THAT WE ARE COMMITTED TO DOING THAT.
23	WE'RE IN THE PROCESS OF COLLECTING THAT KIND OF DATA
24	FROM THE CLINICAL TRIALS. AND SO AS SOON AS WE HAVE
25	CRITICAL AMOUNTS THAT ARE WORTHY OF ANALYSIS, WE

	,
1	WILL BE DOING THAT. SO WE HEARD YOU.
2	MS. DURON: THAT'S SAD, ABLA, THAT ARE
3	WORTHY OF CALLING OUT.
4	DR. CREASEY: NUMBERS-WISE.
5	MS. DURON: YOU KNOW. BUT I APPRECIATE
6	IT. THANK YOU.
7	DR. CREASEY: ALL I'M SAYING IS THAT IF WE
8	HAD ONLY FIVE PATIENTS, WHAT DO THESE DATA MEAN; BUT
9	IF WE HAVE 25, I CAN THEN DESCRIBE TRENDS FOR YOU
10	THE WAY WE DID HERE.
11	DR. GOLDSTEIN: LET ME JUST ADD A
12	TECHNICAL POINT. SO FIRST OF ALL, YSABEL, I AGREE.
13	WE SHOULD HAVE A LOOK AT THOSE DATA. I WANT TO
14	REMIND EVERYBODY THAT IN ORDER FOR STEM CELL
15	PROJECTS TO BE INITIATED IN SOME OF THESE AREAS, IN
16	PARTICULAR NEUROPSYCHIATRY, WE DEPEND VERY HEAVILY
17	ON THE GENETIC ANALYSES DONE BY THE GENETICS
18	COMMUNITY. AT PRESENT CIRM IS NOT SUPPORTING
19	GENOMEWIDE SCREENS IN ANY OF THESE COMMUNITIES.
20	IT'S AN IMPORTANT QUESTION, TO WHAT EXTENT SHOULD WE
21	BECOME INVOLVED IN STIMULATING THOSE PROJECTS? AND
22	I THINK AS WE START TO DEVELOP SOME PILOT PROJECTS
23	IN THE PORTFOLIO, WE'LL START TO LEARN TO WHAT
24	EXTENT THE STEM CELL COMMUNITY IS ENGAGED WITH THE
25	GENETICS COMMUNITY AND TO WHAT EXTENT WE CAN
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1	ENCOURAGE THAT.
2	DR. CANET-AVILES: I'D LIKE TO ADD. SO
3	THIS CONVERSATION ABOUT ANCESTRAL DIVERSITY HAD COME
4	UP EARLIER ON. AS WE WERE DEVELOPING AND
5	BRAINSTORMING ABOUT THE NEURO DISCOVERY INITIATIVE,
6	ONE OF THE THINGS THAT THE CIRM TEAM DID WAS START
7	DISCUSSING WHAT'S OUT THERE. WHAT IS THE NATIONAL
8	INSTITUTES OF MENTAL HEALTH FUNDING? WHAT ARE OTHER
9	ORGANIZATIONS FUNDING? SO THERE'S ACTUALLY A VERY
10	LARGE COHORT WITH ANCESTRAL DIVERSITY, GENOTYPING
11	AND CLINICAL PHENOTYPING OF DIVERSE POPULATIONS
12	ACROSS THE WORLD, THOUSANDS OF SCHIZOPHRENIA AND
13	BIPOLAR DISEASE. AND THEY ARE ACTUALLY CURRENTLY
14	LOOKING FOR A PARTNER TO DERIVE SOME LINES, IPS
15	LINES, SO THAT WE COULD HAVE ACTUALLY THIS COULD
16	BE SOMETHING THAT, THIS IS A PROPOSAL FOR LATER.
17	JUST WANTED TO BRING IT UP TO THE BOARD, THAT THIS
18	MIGHT COME UP AT THE TASK FORCE LEVEL, BUT THIS
19	COULD BE A VERY GOOD RESOURCE FOR US TO PARTNER AND
20	ANSWER SOME OF THE QUESTIONS AND VOIDS THAT WE ARE
21	IDENTIFYING IN THIS DISCUSSION. JUST WANTED TO
22	BRING IT UP. I'M HAPPY TO PRESENT IT AT A LATER
23	TIME.
24	DR. GOLDSTEIN: THANK YOU, ROSA.
25	CHAIRMAN IMBASCIANI: ANY OTHER COMMENTS
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	TTO

1	FROM BOARD MEMBERS IN THE ROOM OR ONLINE OR FROM THE
2	PUBLIC? OKAY. THIS WAS A VERY GOOD CONVERSATION.
3	I'M SURE THE NEURO TASK FORCE IS GOING TO TAKE THIS
4	BACK FOR CONSIDERATION, AND THEY ARE GOING TO MAKE A
5	PRESENTATION, I THINK, MORE FORMALLY AT THE NEXT
6	BOARD IN SEPTEMBER.
7	WITH THAT, I WOULD LIKE TO HAVE A
8	TEMPORARY RECESS FOR LUNCH, AND THEN WE WILL COME
9	BACK AND LISTEN TO DR. TURBEVILLE'S REPORT ON AAWG.
10	MR. TOCHER: WE'LL COME BACT AT 12:40, SO
11	HALF AN HOUR.
12	CHAIRMAN IMBASCIANI: PERFECT. THANK YOU.
13	(A RECESS WAS TAKEN.)
14	CHAIRMAN IMBASCIANI: IF EVERYONE CAN
15	PLEASE RESUME THEIR SEATS. WE'LL TAKE UP THE FINAL
16	ITEM ON THE AGENDA. GIVE EVERYONE A FEW SECONDS TO
17	GET SETTLED. OKAY. THANK YOU, EVERYONE. HOPE YOU
18	ENJOYED YOUR LUNCH.
19	WE HAVE ONE ITEM ON THE FORMAL AGENDA
20	REMAINING, AND THAT IS AN UPDATE ON ACCESSIBILITY
21	AND AFFORDABILITY WORKING GROUP. AND THE
22	PRESENTATION WILL BE LED BY DR. SEAN TURBEVILLE, OUR
23	VICE PRESIDENT FOR MEDICAL AFFAIRS. THANK YOU.
24	DR. TURBEVILLE: OKAY. THANK EVERYBODY
25	AND GOOD AFTERNOON. I WANT TO THANK THE CHAIRMAN,

1	OF COURSE, AND VICE CHAIR, MEMBERS OF THE ICOC, AND
2	MEMBERS OF THE PUBLIC. I THINK IT'S FIRST TO SAY
3	THAT THIS IS PROBABLY MY LAST PRESENTATION TO THE
4	ICOC. AND I WANT TO TAKE THIS OPPORTUNITY TO
5	EXPRESS MY GRATITUDE AND APPRECIATION FOR THE
6	OPPORTUNITY TO WORK FOR CIRM. CIRM IS AN AMAZING
7	PLACE, PARTICULARLY THE EXTRAORDINARY ORGANIZATION
8	WITH RESPECT TO THE TIRELESS WORK THAT I SEE FROM
9	THE CIRM EMPLOYEES, THE STAFF. THE GROUNDBREAKING
10	INVESTIGATIVE THERAPIES FOR CALIFORNIA PATIENTS
11	DESERVES IMMENSE RECOGNITION, AND SOMETIMES I HEAR,
12	TALKING TO COLLEAGUES, THAT PEOPLE STILL DON'T KNOW
13	WHO CIRM IS. AND IT'S JUST QUITE SURPRISING TO ME
14	GIVEN ALL THE WORK THAT I SEE INTERNALLY AS WELL AS
15	EXTERNALLY, BUT I'M CERTAIN THAT THAT WILL CHANGE
16	OVER TIME. SO THE DEDICATION AND REMARKABLE
17	ACHIEVEMENTS OF CIRM IN THIS FIELD IS TRULY
18	INSPIRING AND CERTAINLY APPRECIATE THE OPPORTUNITY
19	TO BUILD THE MEDICAL AFFAIRS ORGANIZATION. WE DID A
20	LOT OF WORK IN 14 MONTHS. AND I'D LIKE TO NOW MOVE
21	TO THE PRESENTATION TODAY.
22	AND WHAT I'LL BE SPEAKING TO IS OUR
23	INTRODUCTION TO OUR PROPOSED ROADMAP TO ACCESS AND
24	AFFORDABILITY. IN THE LAST FOUR TO FIVE MONTHS,
25	WE'VE BEEN ENGAGING WITH THE AAWG ON DIFFERENT

1	CONCEPTS THAT SHOULD BE CONSIDERED FROM ICOC, THE
2	OPPORTUNITY TO BE IN A ROADMAP FOR ACCESS AND
3	AFFORDABILITY. SO I'M GOING TO FOCUS ON WHY WE ARE
4	CREATING THE ROADMAP, REVIEW THE POTENTIAL PROBLEM
5	STATEMENT, AND THE OPPORTUNITY AREAS TO ADDRESS
6	BARRIERS TO ACCESS AND AFFORDABILITY. AND THEN AT
7	THE END OF THIS PRESENT A COUPLE OF CONCEPTS THAT
8	I'D LIKE TO GET FEEDBACK ON THAT WE CAN CONSIDER FOR
9	NEAR-TERM OPPORTUNITY WITHIN THE ROADMAP.
10	SO IT'S CRITICAL TO TAKE A MOMENT TO
11	REFLECT ON THE PURPOSE BEHIND THE DEVELOPMENT OF THE
12	PROPOSED ROADMAP. SO WHY ARE WE DOING THIS? SO
13	PROPOSITION 14 AND THE FIVE-YEAR STRATEGIC PLAN
14	STATE THAT CIRM WILL SUPPORT THE DEVELOPMENT OF A
15	ROADMAP FOR ACCESS AND AFFORDABILITY IN CONCORDANCE
16	WITH CIRM'S ACCESSIBILITY AND AFFORDABILITY WORKING
17	GROUP, THE AAWG.
18	THE ROADMAP WILL INCLUDE A STRATEGY FOR
19	GATHERING DATA TO SUPPORT REIMBURSEMENT, ENGAGING
20	POLICYMAKERS AND REGULATORS, AND DEVELOPING NOVEL
21	HEALTHCARE DELIVERY MODELS. IT WILL ALSO MANAGE
22	FUTURE INITIATIVES INVOLVING POST-MARKETING
23	RESEARCH, FOLLOW-UP AND OUTCOME DATABASES, REGISTRY
24	DEVELOPMENT, REAL-WORLD EVIDENCE RESEARCH,
25	HEALTHCARE ECONOMICS, AND PATIENT-REPORTED OUTCOMES.

1	AS WE DIVE INTO VARIOUS RECOMMENDATIONS,
2	YOU WILL NOTICE THAT THESE SUGGESTIONS ARE IN LINE
3	WITH THE LANGUAGE OUTLINED IN THE PROPOSITION 14 AND
4	OUR FIVE-YEAR STRATEGIC PLAN THAT I JUST DESCRIBED.
5	SO NO DOUBT ABOUT IT, CELL AND GENE
6	THERAPIES HAVE A SIGNIFICANT IMPACT ON PATIENTS, AND
7	WE'VE SEEN IT TIME AND TIME AGAIN OVER A NUMBER OF
8	DIFFERENT THERAPEUTIC AREAS; HOWEVER, THERE ARE ALSO
9	SOME CHALLENGES. AND WE COULD PERHAPS START WITH A
10	PROBLEM STATEMENT, BUT ALSO SOME OPPORTUNITIES. ONE
11	OF THE PROBLEM STATEMENTS SAYS THERE ARE SEVERAL
12	LOGISTICAL AND FINANCIAL BARRIERS TO CLINICAL TRIALS
13	AND APPROVED THERAPIES FOR CELL AND GENE THERAPIES.
14	WE'VE SEEN OVER AND OVER AGAIN THE CHALLENGES FOR
15	PATIENTS AND FAMILY MEMBERS TO PARTICIPATE IN MANY
16	OF THESE TRIALS.
17	THE OPPORTUNITY THAT WE HAVE IS IN
18	PROPOSITION 14, WHICH PROVIDES DEDICATED FUNDING AND
19	THE FORMATION OF THE ACCESSIBILITY AND AFFORDABILITY
20	WORKING GROUP TO ADDRESS THESE BARRIERS. THE GOAL
21	OF THE ROADMAP IS TO IDENTIFY NEAR-TERM AND
22	LONGER-TERM INITIATIVES TO HELP PATIENTS OVERCOME
23	SOME OF THESE BARRIERS TO ACCESS AND AFFORDABILITY.
24	SO I WANT TO TAKE A LITTLE BIT OF TIME TO
25	FOCUS ON THIS SLIDE. SO WE'VE DONE A LOT OF DUE
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1	DILIGENCE ON BARRIERS THAT PREVENT PATIENTS FROM
2	HAVING ACCESS TO CLINICAL TRIALS. AND THERE ARE A
3	NUMBER OF OPPORTUNITIES AND A NUMBER OF PROGRAMS
4	WITHIN CIRM THAT ARE ALREADY IN PLAY AND OTHERS THAT
5	WE WANT TO RECOMMEND THAT WILL MITIGATE SOME OF THE
6	BARRIERS.
7	SO IF WE THINK ABOUT INITIATIVES THAT
8	MITIGATE NEGATIVE SOCIAL AND CULTURAL DETERMINANTS
9	OF HEALTH, ONE, WE ALREADY HAVE THE EXPANSION OF THE
10	ALPHA CLINICS THAT WENT FROM SIX TO NINE, AND THERE
11	ARE A NUMBER OF OFFERINGS WITHIN THOSE AWARDS THAT
12	ACTUALLY ADDRESS AND SOME OF THEM MITIGATE THE
13	NEGATIVE SOCIAL AND CULTURAL DETERMINANTS OF HEALTH.
14	AND I'LL SPEAK TO THOSE IN A FEW MINUTES.
15	WE ALSO HAVE THE COMMUNITY OUTREACH IN
16	EDUCATION. THIS IS A NEW DEPARTMENT THAT'S JUST
17	STARTING TO GEAR UP, STARTING TO THINK THROUGH
18	OUTREACH PROGRAMS THAT WOULD HELP WITH EDUCATION AND
19	OTHER OPPORTUNITIES.
20	WE ALSO HAVE THE FUTURE COMMUNITY CARE
21	CENTERS OF EXCELLENCE. THIS IS A BIG INITIATIVE
22	I'LL SPEAK TO IN A FEW MINUTES. AND THEN COMMUNITY
23	PARTNERS. I'VE LEARNED RECENTLY THROUGH THIS
24	JOURNEY HOW IMPORTANT COMMUNITY-BASED ORGANIZATIONS
25	ARE IN INTERACTING WITH PATIENTS, GETTING THE WORD

1	ACROSS, EDUCATING ON CELL AND GENE THERAPIES, ET
2	CETERA.
3	WHEN WE THINK ABOUT CIRM PROGRAMS TO
4	ADDRESS INFORMATIONAL BARRIERS, THIS IS WHERE OUR
5	PATIENT SUPPORT PROGRAM SITS. AND SO THE PATIENT
6	SUPPORT PROGRAM PROVIDES A NUMBER OF SERVICES. ONE,
7	NAVIGATING PATIENTS TO THE RIGHT CLINICAL TRIAL. SO
8	CIRM HAS, WHAT, ABOUT 91 TRIALS CURRENTLY ENROLLED.
9	THE OTHER THING IS INFORMATION, INFORMATION ABOUT
10	THE TRIAL, INFORMATION FOR HEALTHCARE PROVIDERS AND
11	PATIENTS IS ABSOLUTELY KEY.
12	WHEN WE THINK ABOUT PROGRAMS TO HELP
13	PATIENTS NAVIGATE THE LOGISTICAL BARRIERS, AND THIS
14	IS ONE OF THE VARIABLES THAT CONSISTENTLY COMES UP
15	IN PARTICIPATING IN TRIALS, IS HOW CAN I GET TO THE
16	SITE, THE EXPENSES THAT TAKE PLACE, FAMILY,
17	CHILDCARE, ET CETERA. THIS TOO IS WHERE IT CAN BE
18	SUPPORTED BY THE PATIENT SUPPORT PROGRAM. AND WHEN
19	WE THINK ABOUT LOGISTICS, THERE'S AN OPPORTUNITY FOR
20	THE PATIENT SUPPORT PROGRAM TO HELP THE SITE
21	ORGANIZE THE PATIENT IN TERMS OF LOGISTICS TO THE
22	SITE, GOING BACK AND FORTH HOME, ET CETERA.
23	THE OTHER THING WITH RESPECT TO FINANCIAL,
24	WITHIN THE PATIENT SUPPORT PROGRAM THERE'S ALSO THE
25	PATIENT ACCESS FUND. AND THIS IS AN RFA THAT'S

1	POSTED RIGHT NOW. THAT PATIENT ACCESS FUND SITS
2	WITHIN THE PATIENT SUPPORT PROGRAM. THIS IS \$15.6
3	MILLION THAT IS DEDICATED DIRECTLY TO SUPPORTING
4	PATIENTS THROUGH TRIALS. AND, AGAIN, WE KNOW THOSE
5	OUT-OF-POCKET PATIENT EXPENSES CAN BE HIGH. IN
6	FACT, THERE'S RECENT DATA THAT SUGGESTS THAT
7	OUT-OF-POCKET PATIENT EXPENSES CAN BE ANYWHERE
8	BETWEEN FIVE TO EIGHT HIGHER THAN WHAT YOU WOULD SEE
9	IN PATIENTS WHO ARE PARTICIPATING IN NON-CELL AND
10	GENE THERAPY TRIALS.
11	SO WHILE CIRM'S EFFORT PRIMARILY FOCUSES
12	ON ADDRESSING BARRIERS TO CLINICAL TRIALS, IT IS
13	CRUCIAL TO ACKNOWLEDGE THAT REMOVING ALL BARRIERS,
14	EVEN IF WE HAD THE OPPORTUNITY, DOES NOT NECESSARILY
15	MEAN PATIENTS ARE ALWAYS GOING TO GET ACCESS TO
16	DRUGS. MARIA MILLAN JUST GAVE A PRESENTATION TODAY
17	ABOUT CANDIDATES, DRUG CANDIDATES, THAT DEMONSTRATED
18	EFFICACY THAT STILL CAN'T GET TO THE MARKETPLACE.
19	SO FDA APPROVAL AND REIMBURSEMENT FOR A THERAPY ARE
20	ESSENTIAL ASPECTS TO ENSURE THAT ALL CALIFORNIA
21	PATIENTS HAVE MEANINGFUL ACCESS TO CELL AND GENE
22	THERAPIES BEYOND JUST THE CLINICAL TRIAL STAGE.
23	SO I'LL TALK A LITTLE BIT ABOUT SUPPORTING
24	BROAD AND FAIR COVERAGE FOR CELL AND GENE THERAPIES.
25	A COUPLE OF COMPONENTS I'LL GET BACK INTO IN MORE

1	DETAIL LATER. ONE IS THINKING ABOUT THE RESEARCH
2	WITH RESPECT TO REAL-WORLD EVIDENCE AND HEALTH
3	OUTCOMES AND OPPORTUNITIES AND THAT IMPACT ON ACCESS
4	AND AFFORDABILITY. ANOTHER IS THE ENGAGEMENT WITH
5	PAYERS. AND THIRD IS OUTCOMES-BASED PERFORMANCE
6	MODELS, WHICH ARE ABSOLUTELY CRITICAL WITH RESPECT
7	TO REIMBURSEMENT, ET CETERA.
8	SO I'D LIKE TO DIRECT YOU TO THIS SLIDE.
9	THIS IS OUR PROPOSED ROADMAP TO ACCESS AND
10	AFFORDABILITY, AND IT IS COLOR CODED. SO THE ORANGE
11	TO THE LEFT OF THE SLIDE REPRESENTS APPROVED
12	CIRM-FUNDED PROGRAMS. SO RIGHT NOW WE HAVE
13	EXPANSION OF THE ALPHA CLINICS AND WE HAVE THE
14	PATIENT SUPPORT PROGRAM. THE NAVY BLUE DEPICTS
15	THREE PROPOSED STRATEGIES IN THE MIDDLE THAT I WILL
16	FOCUS ON TODAY FURTHER ON WITH MY DISCUSSION. AND
17	THEN THE GRAY COMPONENT INDICATES AN IMPORTANT
18	PROGRAM THAT IS CURRENTLY IN PROGRESS. AND, OF
19	COURSE, THAT'S THE COMMUNITY CARE CENTERS OF
20	EXCELLENCE. AND THE WAY WE DESIGNED THIS IS ALSO
21	THINKING THROUGH MUCH MORE LONG-TERM FUTURE
22	INITIATIVES.
23	SO FOR THE PURPOSE FOR THIS PRESENTATION
24	IS REALLY TO THINK ABOUT SHORT-TERM, NEAR-TERM
25	OPPORTUNITIES THAT WE CAN HELP PATIENTS WITH RESPECT

1	TO ACCESS AND AFFORDABILITY.
2	SO LET'S FIRST TALK ABOUT APPROVED
3	PROGRAMS, SO THE EXPANSION OF THE ALPHA CLINICS.
4	THIS PROGRAM ALIGNS WITH PROP 14 AND INVOLVES
5	EXPANDING THE EXISTING NETWORK OF ALPHA CLINICS.
6	THE NINE CENTERS OF EXCELLENCE OFFER VARIOUS
7	CLINICAL SERVICES, RESOURCES THAT ALLOW CIRM TO
8	GATHER ADDITIONAL INFORMATION FOR FUTURE
9	CONSIDERATIONS RELATED TO ACCESS AND AFFORDABILITY.
10	AS PART OF THE EXPANSION, THERE ARE SPECIFIC
11	OFFERINGS WITHIN THE AWARDS, SUCH AS PATIENT
12	NAVIGATION, COVERAGE ANALYSIS, NEW FINANCIAL MODELS,
13	DEI INITIATIVES, AND OTHER OFFERINGS THAT ARE
14	INCORPORATED TO ENHANCE THE PATIENT SUPPORT AND
15	ACCESS.
16	SO AS THESE STUDIES CONTINUE TO ENROLL,
17	WE'LL BE ABLE TO GET INFORMATION FROM THE ALPHA
18	CLINICS ON THE REPORTING THAT WILL GIVE US GUIDANCE
19	IN TERMS OF WHERE THERE MAY BE ADDITIONAL
20	OPPORTUNITIES FOR ACCESS AND AFFORDABILITY RELATED
21	TO THESE VARIABLES.
22	THE OTHER IS THE PATIENT SUPPORT PROGRAM.
23	AND THIS IS OFFSETTING THE COST OF PROVIDING
24	TREATMENTS AND CURES ARISING FROM INSTITUTE FUNDING
25	RESEARCH. SO THE ACTIVITY HERE IS TO CREATE

1	CONSISTENT, EFFICIENT, STREAMLINED, AND RELIABLE
2	ACCESS TO RESOURCES AND SUPPORT ACROSS ALL THE
3	DIFFERENT TYPES OF CIRM-FUNDED PROGRAMS. AGAIN,
4	THESE ARE TWO PROGRAMS THAT ARE PROGRESSING AND ARE
5	PART OF THE PROPOSED ROADMAP AND DIRECTLY ALIGN WITH
6	THE PROPOSITION 14.
7	NOW I WANT TO TALK ABOUT THE PROGRAM IN
8	PROGRESS, AND THIS IS THE COMMUNITY CARE CENTERS OF
9	EXCELLENCE. SO THIS ALIGNS WITH PROPOSITION 14, IN
10	THAT IT ENHANCES THE GEOGRAPHICAL DISTRIBUTION TO
11	PROMOTE PATIENT ACCESS TO TRIALS AND CREATE NOVEL
12	HEALTHCARE DELIVERY MODELS. SO THIS IS AN ONGOING
13	PROGRAM. THE MEDICAL AFFAIRS TEAM WORKED
14	TIRELESSLY. MANY PEOPLE HERE IN THIS ROOM GAVE A
15	LOT OF GUIDANCE AND ATTENDED NOT ONLY THE THREE
16	LISTENING SESSIONS, BUT JUST RECENTLY THE PUBLIC
17	SESSION THAT WE HAD LAST WEEK. AND THESE COMMUNITY
18	CARE CENTERS OF EXCELLENCE ARE QUALIFIED SITES WITH
19	CLINICAL, OPERATIONAL, AND EDUCATIONAL EXPERTISE TO
20	PROVIDE RURAL COMMUNITIES ACCESS TO INVESTIGATIONAL
21	CELL AND GENE THERAPY TRIALS.
22	THE CCE HOLDS SIGNIFICANT IMPORTANCE AS IT
23	WILL SERVE AS A CRUCIAL COMPONENT OF THE ROADMAP
24	PARTICULARLY IN SUPPORTING CLINICAL TRIALS IN RURAL
25	COMMUNITIES. SO AT THIS STAGE, AS DR. MILLAN
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1	MENTIONED EARLIER TODAY, WE ARE NOW STARTING TO
2	DEVELOP THE CONCEPT PLAN. THAT CONCEPT PLAN WILL BE
3	PRESENTED TO THE ACCESS AND AFFORDABILITY WORKING
4	GROUP, TO THE SCIENTIFIC COMMITTEE, AND THEN
5	HOPEFULLY TO THE ICOC FOR FINAL CONSIDERATION INTO
6	AN RFA. AND OUR EXPECTATION IS THAT THROUGH THAT
7	PROCESS AN RFA COULD BE POSTED AS EARLY AS Q2 OF THE
8	FIRST HALF OF 2024.
9	SO THIS IS A SLIDE THAT WAS DEVELOPED BY
10	MY COLLEAGUE GEOFF. AND BY INTEGRATING THE ALPHA
11	CLINICS, THE COMMUNITY CARE CENTERS OF EXCELLENCE,
12	THE CIRM-FUNDED TRIALS, AND THE PATIENT SUPPORT
13	PROGRAM, THIS COLLABORATIVE APPROACH WILL ALLOW THE
14	CREATION OF MORE ROBUST STRATEGIES AND INITIATIVES
15	THAT ADDRESS THE SPECIFIC NEEDS OF DIVERSE
16	COMMUNITIES, ENHANCE ACCESSIBILITY TO INNOVATIVE
17	THERAPIES, AND PROMOTE AFFORDABILITY FOR PATIENTS
18	ACROSS DIFFERENT REGIONS.
19	SO IF YOU THINK ABOUT THIS, OF COURSE,
20	WE'VE GOT THE ALPHA CLINICS. THOSE ARE THE NINE
21	LEAD SITES AND CENTERS, CENTERS OF EXCELLENCE. THE
22	COMMUNITY CARE CENTERS OF EXCELLENCE BRING THE
23	CLINICAL CAPACITY TO THE COMMUNITY. THE CIRM
24	CLINICAL TRIALS, NOW 91 CIRM-FUNDED TRIALS, ARE IN
25	PLAY. AND THEN YOU TACK ON BOARD THE PATIENT

1	SUPPORT PROGRAM THAT WILL PROVIDE THE ADDITIONAL
2	FINANCIAL AND LOGISTICAL BARRIERS.
3	SO NOW WHAT I'D LIKE TO DO IS DISCUSS THE
4	PROPOSED INITIATIVES FOR CONSIDERATION. SO POSSIBLE
5	STRATEGY NO. 1 IS SUPPORTING FUNDING OF CALIFORNIA
6	DISEASE REGISTRIES AND OTHER REAL-WORLD DATA
7	COLLECTION. WE KNOW THAT THE FDA AND PAYERS HAVE
8	REQUIREMENTS NOW FOR REAL-WORLD DATA. THEY HAVE A
9	SIGNIFICANT IMPACT ON CLINICAL DOSSIERS THAT GO TO
10	THE FDA, AND THEY HAVE EVEN MORE IMPORTANCE WITH
11	RESPECT TO REIMBURSEMENT. SO THE BENEFIT HERE IS IT
12	ENHANCES OPPORTUNITY FOR APPROVED AND PAYER
13	REIMBURSEMENT WHEN DATA IS APPROPRIATELY
14	SUBSTANTIATED ACCORDING TO FDA GUIDANCE AND PAYER
15	MANDATES. PATIENTS WILL HAVE ACCESS TO THE
16	TREATMENT IF APPROVED AND REIMBURSED BY PAYERS.
17	AS AN EXAMPLE, DR. MILLAN, AND THERE ARE
18	OTHERS, JUST RECENTLY WE HEARD ABOUT THE MOST RECENT
19	GENE THERAPY THAT WAS APPROVED FOR DND. AND IN THAT
20	CLINICAL PACKAGE THAT WENT TO THE FDA, THAT BLA, NOT
21	ONLY DID IT INCLUDE OPEN LABEL PHASE 2 TRIAL DATA,
22	BUT IT ALSO INCLUDED REAL-WORLD EVIDENCE AND DATA
23	FROM DISEASE REGISTRY. AND THAT WAS IMPORTANT
24	BECAUSE IT DID PROVIDE SUBANALYSES THAT WERE ASKED
25	OF THE COMMITTEE ON A NUMBER OF DIFFERENT VARIABLES.
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1	AND WE ARE SEEING THIS OVER AND OVER AGAIN WITH
2	OTHER PRODUCTS THAT ARE BEING PRESENTED TO THE FDA
3	THROUGH BLA OR EVEN AN NDA FOR THAT MATTER.
4	SO PAYERS ARE ALSO BEGINNING TO SET UP
5	THEIR INFRASTRUCTURE, WHAT THE REQUIREMENTS ARE,
6	WITH REAL-WORLD DATA. THE AMCP DOSSIER THAT YOU MAY
7	BE FAMILIAR WITH, THAT IS THE GOLD STANDARD
8	FORMULARY SUBMISSION THAT GOES TO ALL THE PAYERS.
9	THAT INCLUDES PUBLIC AS WELL AS PRIVATE. THEY HAVE
10	GUIDELINES ON HOW YOU CAN USE REAL-WORLD DATA TO
11	SUPPORT THE CLINICAL EFFICACY, MORE IMPORTANTLY
12	EFFECTIVENESS OUT THERE IN THE REAL WORLD.
13	SO ONE HAS TO START THINKING THROUGH IN
14	THE ABSENCE OF REAL-WORLD DATA AND LET ME BACK
15	UP. MY POINT BEING IS SO NOW WE MUST CONSIDER THE
16	POTENTIAL CONSEQUENCES FOR PATIENTS IF DISEASE
17	REGISTRIES AND OTHER REAL-WORLD DATA SOURCES ARE NOT
18	UTILIZED FOR REGULATORY AND PAYER SUBMISSION IN
19	APPROVING ACCESS. SO THERE ARE A COUPLE OF
20	RECOMMENDATIONS HERE.
21	ONE, WE RECOMMEND ADDITIONAL RESEARCH.
22	WHERE HAVE DISEASE REGISTRIES BEEN IMPACTFUL FOR
23	REGULATORY APPROVAL? TWO, WHERE HAVE DISEASE
24	REGISTRIES AND OTHER REAL-WORLD DATA BEEN
25	SUCCESSFULLY SUBMITTED TO PAYERS? AND HOW CAN THIS

1	KNOWLEDGE BE APPLIED FOR CIRM-FUNDED TRIALS,
2	PARTICULARLY WHEN WE START ASKING THE QUESTIONS
3	ABOUT PATIENT AND ECONOMIC OUTCOMES?
4	BY CONDUCTING SUCH RESEARCH AND UTILIZING
5	THESE DISEASE REGISTRIES AND OTHER REAL-WORLD DATA
6	SOURCES EFFECTIVELY, CIRM CAN PROVIDE A NEW FUNDING
7	MECHANISM TO PROVIDE AWARDEES THE BEST CHANCE FOR
8	SUCCESS FOR REGULATORY APPROVAL, THEREBY
9	FACILITATING ACCESS TO APPROVED NOVEL THERAPIES. SO
10	THAT IS POSSIBLE STRATEGY NO. 1, SUPPORT THE FUNDING
11	OF REAL-WORLD DATA AND DISEASE REGISTRIES.
12	A POSSIBLE SECOND STRATEGY IS ENGAGING
13	WITH PAYERS. SO THE BENEFIT HERE IS IT CREATES
14	PROACTIVE UNDERSTANDING OF PAYER ISSUES, NECESSARY
15	DATA NEEDED FOR APPROPRIATE PAYMENT MODELS. AND
16	THERE'S A COUPLE OF RECOMMENDATIONS BY THE AAWG.
17	ONE, LET'S PUT OUT A PAYER SURVEY, A ROBUST SURVEY
18	THAT ASKS A NUMBER OF QUESTIONS AMONG PRIVATE AS
19	WELL AS PUBLIC PAYERS TO UNDERSTAND WHAT THEIR
20	CHALLENGES ARE RELATED TO CELL AND GENE THERAPY
21	REIMBURSEMENT. THE SURVEY COULD PROVIDE VALUABLE
22	INFORMATION ON PAYER EXPECTATIONS AND DATA
23	REQUIREMENTS AIDING IN THE DEVELOPMENT OF
24	APPROPRIATE REIMBURSEMENT STRATEGIES. THAT WOULD BE
25	RECOMMENDATION NO. 1.

1	AFTER THAT THERE WAS A RECOMMENDATION TO
2	ACTUALLY HAVE A PAYER ADVISORY BOARD, ESTABLISHING A
3	ROBUST PAYER ADVISORY BOARD LED BY THE ACCESSIBILITY
4	AND AFFORDABILITY WORKING GROUP. THIS BOARD COULD
5	BRING TOGETHER PAYERS AND OTHER RELEVANT
6	STAKEHOLDERS TO PROVIDE ONGOING GUIDANCE, ADVICE,
7	AND FEEDBACK ON REIMBURSEMENT STRATEGIES, POLICY
8	CONSIDERATIONS, AND PAYER ENGAGEMENT.
9	BY UNDERTAKING THESE RESEARCH
10	OPPORTUNITIES AND ACTIVELY ENGAGING WITH PAYERS,
11	CIRM COULD GAIN INSIGHTS INTO THE PAYER LANDSCAPE,
12	ADDRESS PAYER CONCERNS, FOSTER COLLABORATIVE
13	RELATIONSHIPS. THIS PROACTIVE APPROACH CAN HELP
14	GUIDE APPROPRIATE REIMBURSEMENT STRATEGIES,
15	ANTICIPATE POTENTIAL POLICY RESTRICTIONS, AND ENSURE
16	THAT CIRM-FUNDED THERAPIES HAVE ACCESS TO FAVORABLE
17	REIMBURSEMENT FRAMEWORKS. SO THAT'S POSSIBLE
18	STRATEGY NO. 2.
19	POSSIBLE STRATEGY NO. 3 FOCUSES ON THE
20	FEDERAL AND STATE POLICY ISSUES. SO THE BENEFIT OF
21	THIS IS DEVELOPING AN UNDERSTANDING OF THE STATE
22	POLICY TO SUPPORT PROACTIVE COMMUNICATION AND
23	DEVELOPMENT OF CIRM POLICIES WITH KEY CALIFORNIA
24	AGENCIES. ONE PARTICULAR OPPORTUNITY IS TO WORK
25	WITH CMS. SO CMS, PARTICULARLY THE CENTER FOR
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1	MEDICARE/MEDICAID INNOVATION THAT'S CALLED CMMI, HAS
2	NOW REACHED OUT TO STATES AND REACHED OUT TO STATES
3	TO GET GUIDANCE ON WHAT THE PAYER OUTCOME-BASED
4	MODELS SHOULD LOOK LIKE.
5	SO THIS IS A VOLUNTARY OPPORTUNITY. YOU
6	DON'T HAVE TO DO IT, BUT WHAT WE WERE THINKING IS
7	THAT THIS WOULD BE AN OPPORTUNITY FOR CIRM TO
8	COLLABORATE WITH OTHER STATE ORGANIZATIONS WITHIN
9	CALIFORNIA TO PROVIDE FEEDBACK OF WHAT WE THINK ARE
10	IMPORTANT WHEN IT COMES TO VALUE, PARTICULARLY VALUE
11	OF CELL AND GENE THERAPIES. SO THIS WOULD BE A
12	GREAT OPPORTUNITY TO INTERACT WITH CMS, PROVIDE
13	GUIDANCE PARTICULARLY WHEN IT COMES TO THOSE
14	OUTCOMES-BASED MODELS.
15	JUST TO BRIEFLY SPEAK ABOUT OUTCOMES-BASED
16	MODELS, VALUE-BASED CONTRACTS, THEY'RE NOT ALL THE
17	SAME. AND SOME OF THEM WORK REALLY WELL IN
18	ONCOLOGY, SOME OF THEM WORK REALLY WELL IN GENE
19	THERAPY, BUT FOR NEUROMUSCULAR DISEASES, FOR
20	EXAMPLE, THEY'RE A LITTLE BIT DIFFICULT. AND SO IT
21	GIVES US AN OPPORTUNITY TO TAKE THE LEAD AND PROVIDE
22	SOME GUIDANCE TO THE CMS IN TERMS OF WHAT CALIFORNIA
23	APPRECIATES WITH RESPECT TO VALUE.
24	ANOTHER OPPORTUNITY THAT WAS RECOMMENDED
25	TO US IS TO FURTHER EXPLORE THE CANCER CARE EQUITY

1	ACT. NOW, THERE'S AN ONGOING DISCUSSION ON THE
2	CANCER CARE EQUITY ACT AMONG OTHER STAKEHOLDERS WITH
3	RESPECT TO EXPLORING OPPORTUNITIES TO EXPAND THE
4	LANGUAGE OF THIS LAW. AND BASICALLY HOW THIS LAW
5	WAS SET UP IS THAT IT MANDATES WELL, IT DOESN'T
6	REALLY MANDATE. WHAT IT DOES IS A GOOD FAITH
7	PRINCIPLE, AND THAT IS ANY CANCER PATIENT RECENTLY
8	DIAGNOSED, THEY HAVE THE RIGHT TO BE TREATED AT AN
9	NCI CERTIFIED SITE, MUCH LIKE ALL THE ALPHA CLINICS.
10	ONE OF THE DRAWBACKS TO THIS IS IT'S NOT
11	MANDATED. THAT IS, IF YOU DON'T HAVE TO TELL THE
12	PATIENT, IT'S WITH A GOOD FAITH PRINCIPLE. AND SO
13	THE AAWG AND A NUMBER OF OTHER COLLEAGUES THOUGHT IT
14	MAY BE A GOOD OPPORTUNITY FOR CIRM TO GET INVOLVED
15	WITH PERHAPS UPDATING THIS LEGISLATION TO ACTUALLY
16	HAVE IT MANDATED. THAT IS, ANY CANCER PATIENT
17	THAT'S DIAGNOSED, THEY GET THE OPPORTUNITY TO NOT
18	ONLY BE TREATED AT THE COMMUNITY CENTER, BUT ALSO
19	HAVE A MUCH MORE ROBUST 360 CARE AT ONE OF THE NCI
20	CERTIFIED SITES.
21	AND THEN, FINALLY, ANOTHER OPPORTUNITY ON
22	THE PAYER SIDE IS TO WORK WITH THE OFFICE OF HEALTH
23	AND AFFORDABILITY. AND SENATOR ART TORRES GOT US
24	CONNECTED WITH THIS GROUP. IT'S PART OF THE
25	GOVERNOR'S TEAM. IT IS A BIG INITIATIVE. MANY OF

1	YOU WERE ON THAT CALL WITH ME. THERE IS INTEREST IN
2	COLLABORATION. RIGHT NOW THEY ARE JUST SETTING UP
3	THE INFRASTRUCTURE. CELL AND GENE THERAPY FOR THEM
4	RIGHT NOW IS NOT A BIG BUDGET IMPACT MODEL OR
5	IMPACTS THE BUDGET FRAMEWORK, BUT THERE IS INTEREST
6	FOR US TO GIVE GUIDANCE TO THEM IN TERMS OF WHAT'S
7	IN THE PIPELINE, WHAT THAT LOOKS LIKE. RIGHT NOW
8	THE FDA IS EXPECTING ANYWHERE FROM 15 TO 20 NEW
9	APPROVALS A YEAR INTO THE FUTURE ON CELL AND GENE
10	THERAPIES. AND WHEN YOU START THINKING ABOUT THE
11	COST OF THOSE THERAPIES, EVEN THOUGH THEY'RE NOT
12	LARGE FROM A PATIENT POPULATION STANDPOINT,
13	CUMULATIVELY IT WILL HAVE A LARGE IMPACT ON BUDGET
14	IMPACTS FOR PAYERS. SO THERE'S A GOOD OPPORTUNITY,
15	AND THAT HAS ALREADY KICKED OFF. SO LOOK FORWARD TO
16	POTENTIALLY FUTURE COLLABORATIONS WITH THAT GROUP ON
17	BEHALF, OF COURSE, OUR VICE CHAIR AS WELL.
18	SO THOSE ARE THREE POSSIBLE STRATEGIES FOR
19	NEAR-TERM OPPORTUNITIES. WHEN YOU THINK ABOUT
20	ROADMAP ELEMENTS, THIS IS NOT NECESSARILY A
21	TIMELINE, BUT JUST GIVES YOU AN EXAMPLE OF WHAT WE
22	ARE THINKING FROM A NEAR-TERM STANDPOINT. AGAIN, WE
23	HAVE THE APPROVED PRODUCTS. THAT'S THE EXPANSION OF
24	THE ALPHA CLINICS THAT KICKED OFF IN JANUARY OF THIS
25	YEAR. THE PATIENT SUPPORT PROGRAM, THAT RFA IS

1	POSTED. WE ARE HOPING THAT WE'LL BE ABLE TO LAUNCH
2	THAT IN THE SECOND HALF OF NEXT YEAR. IN PROGRESS,
3	OF COURSE, IS THE COMMUNITY CARE CENTERS OF
4	EXCELLENCE. THAT'S GOING TO GIVE THAT OPPORTUNITY
5	FOR CLINICAL TRIAL ACTIVITIES OUT IN THE RURAL
6	COMMUNITIES, EDUCATION, ETC. THAT IS A VERY BIG
7	INITIATIVE.
8	AND THEN WE HAVE THE POSSIBLE STRATEGIES.
9	SO DISEASE REGISTRIES AND REAL-WORLD EVIDENCE. IF,
10	IN FACT, THAT'S SOMETHING WE WANT TO PURSUE, THAT
11	COULD BE KICKED OFF AS EARLY AS SEPTEMBER OF THIS
12	YEAR. A PAYER ADVISORY GROUP MEETING, WHICH WAS
13	RECOMMENDED, COULD KICK OFF IN DECEMBER OF THIS
14	YEAR. AND THEN POLICY OPPORTUNITIES, WE HAVE TO
15	REALLY THINK THROUGH SOME OF THE STRATEGIES, WHO WE
16	WANT TO ENGAGE WITH, AND THE DELIVERABLE, BUT THAT
17	COULD EASILY BE KICKED OFF IN JANUARY OF 2024.
18	AND THEN THROUGH THESE LEARNING SESSIONS,
19	WE'LL BE ABLE TO IDENTIFY NEW FUTURE STRATEGIES.
20	ONE OF THE CHALLENGES WITH CELL AND GENE THERAPY IS
21	THE FRAMEWORK IS CHANGING DAILY. THE PAYER PATHWAYS
22	ARE CHANGING CONSTANTLY. MANUFACTURING IS CHANGING.
23	DISTRIBUTION IS CHANGING. AND SO IT'S TOUGH TO GET
24	A HANDLE ON A TRAJECTORY OF WHERE YOU WANT TO GO
25	FOUR OR FIVE YEARS FROM NOW. SO IT'S REALLY ABOUT

1	BABY STEPS AND REALLY THE NEAR-TERM OBJECTIVES THAT
2	WE MIGHT BE ABLE TO HAVE AN IMPACT FOR PATIENTS WITH
3	RESPECT TO ACCESS AND AFFORDABILITY.
4	AND SO WITH THAT, I WANT TO SAY THANK YOU
5	FOR THE OPPORTUNITY TO PRESENT WHAT WE HAVE TO DATE
6	ON NEAR-TERM OPPORTUNITIES. AND DO WANT TO OPEN IT
7	UP TO A SPECIFIC QUESTION. AND THAT IS, BASED ON
8	WHAT I REPORTED TODAY, ARE THE PROPOSED RESEARCH
9	ACTIVITIES APPROPRIATE AS INITIAL STEPS OF
10	IMPLEMENTATION FOR THE ROADMAP TO ACCESS AND
11	AFFORDABILITY? CHAIRMAN, I'LL HAND IT OVER TO YOU.
12	CHAIRMAN IMBASCIANI: THANK YOU VERY MUCH,
13	DR. TURBEVILLE. LEONDRA, DID YOU WANT TO START THE
14	CONVERSATION?
15	DR. CLARK-HARVEY: VERY QUIET. I HAVEN'T
16	TALKED MUCH. THANK YOU. GREAT REPORT. AND
17	CONGRATULATIONS ON YOUR TENURE HERE AT CIRM.
18	ONE OF THE THINGS THAT YOU MENTIONED THAT
19	I THOUGHT WAS REALLY GREAT WAS THE IDEA OF A PAYER
20	ADVISORY BOARD. I JUST WONDER, IT MADE ME THINK
21	ABOUT, I KNOW THAT THERE ARE MY UNDERSTANDING IS
22	THAT THERE ARE SOME PATIENT KIND OF ADVISORY BOARDS
23	AND GROUPS THAT YOU ALL WORK WITH IN OTHER WAYS, BUT
24	WONDERING IF IT MIGHT MAKE SENSE TO ALSO THINK ABOUT
25	THAT AS PART OF THIS DISCUSSION, EVEN NOT JUST

1	PATIENTS BECAUSE IT MIGHT MAKE SENSE TO HAVE
2	SPECIFIC PATIENTS FOR SPECIFIC AREAS WHERE YOU NEED
3	THAT FEEDBACK, BUT ALSO INCLUDING, LIKE, COMMUNITY
4	OR STAKEHOLDERS, PARTICULARLY CULTURAL INFORMANTS.
5	I KNOW WE TALK ABOUT THAT A LOT IN THE
6	COMMUNICATIONS SUBGROUP, THE IMPORTANCE OF, LIKE,
7	WHO YOU'RE WORKING WITH TO GET THE MESSAGE ABOUT
8	EVERYTHING OUT TO THE COMMUNITY. SO EVEN IF THOSE
9	KEY CULTURAL INFORMANTS SAT ON SOME TYPE OF
10	COMMUNITY ADVISORY BOARD AS WELL WHEREVER IT MAKES
11	SENSE. IT'S JUST SOMETHING THAT'S GOING AROUND IN
12	MY HEAD RIGHT NOW AS YOU TALKED ABOUT THE PAYER
13	BOARD, A NICE BALANCE TO IT, I THINK.
14	DR. TURBEVILLE: YEAH. THAT'S GOOD.
15	THANK YOU. YEAH. I THINK THAT PROVIDES A MUCH MORE
16	ROBUST INTERACTION. THANK YOU.
17	CHAIRMAN IMBASCIANI: BOARD MEMBER BERNAL
18	IS NEXT.
19	MR. BERNAL: FIRST OF ALL, SEAN, THANK YOU
20	SO MUCH FOR THIS PRESENTATION. THERE'S A LOT OF
21	INNOVATIVE WORK IN THERE. IT'S BEEN A PLEASURE
22	WORKING WITH YOU OVER THESE YEARS, AND YOU'LL
23	CERTAINLY BE MISSED HERE AT CIRM.
24	I WANTED TO ASK SPECIFICALLY ABOUT THE
25	STRATEGY THAT RELATES TO ENGAGING WITH THE CENTER

1	FOR MEDICARE AND MEDICAID SERVICES. THAT SEEMS TO
2	BE A REALLY GOOD IDEA WITH REGARD TO MEDICAID SINCE
3	THAT'S A POPULATION THAT WE ARE HOPING TO TARGET IN
4	MAKING OUR TRIALS AND TREATMENTS AVAILABLE. HOW
5	WOULD THAT FIT IN WITH CHAIR IMBASCIANI'S STATEMENTS
6	EARLIER ABOUT OUR SORT OF HAVING A LACK OF OR NOT
7	HAVING ENOUGH PRESENCE AND ENGAGEMENT WITH FEDERAL
8	LAWMAKERS? AND HOW WOULD WE GO ABOUT IMPLEMENTING
9	THAT STRATEGY GIVEN OUR CURRENT RESOURCES, OR WOULD
10	IT REQUIRE MORE STAFF?
11	DR. TURBEVILLE: YEAH. CERTAINLY. SO,
12	DR. IMBASCIANI, IT WOULD CERTAINLY PIGGYBACK YOUR
13	VISION OF GETTING INTO THE BELTWAY FOR THE MOST PART
14	AND INTERACTING ON THE FEDERAL LEVEL. THAT'S A
15	STRATEGY THAT CERTAINLY CAN BE PUT IN PLAY. BUT
16	CERTAINLY ENCOURAGE, WHEN THEY'RE ASKING US TO COME
17	OUT AND GIVE GUIDANCE, THAT'S ANALOGOUS TO PAYERS
18	REACHING OUT TO, LET'S SAY, A BIOPHARMA COMPANY,
19	WHICH HAPPENS RARELY. WHEN THEY DO ASK US FOR
20	GUIDANCE, WE LISTEN. SO IT'S A UNIQUE OPPORTUNITY.
21	I THINK THAT WOULD BE GREAT SYNERGY.
22	CHAIRMAN IMBASCIANI: YES. RESPONDING
23	WHEN THEY ASK US, BUT I HAD IN MIND US ASKING THEM
24	TO ASK US.
25	DR. TURBEVILLE: WE CAN DO THAT TOO.

1	MR. BERNAL: THANK YOU.
2	CHAIRMAN IMBASCIANI: ABLA, DID YOU WANT
3	TO MAKE A COMMENT?
4	DR. CREASEY: JUST A COMMENT REGARDING
5	ADVISORY PANELS. SO WE ACTUALLY HAVE IN OUR
6	STRATEGIC PLAN MARKETING APPROVAL ADVISORY PANELS.
7	AND WE ARE IN THE PROCESS OF GETTING THOSE STARTED,
8	AND WE WILL INCLUDE PEOPLE LIKE PAYERS IN THOSE
9	PANELS. SO IT'S ALONG THE LINES OF WHAT YOU WERE
10	SUGGESTING, AND THANK YOU FOR MAKING THAT.
11	CHAIRMAN IMBASCIANI: MEMBER LEVITT.
12	DR. LEVITT: SO, SCOTT, WE'VE TALKED ABOUT
13	THIS OFTEN. IN EACH OF THOSE DOMAINS AND WHAT YOU
14	PROPOSE THERE ARE UNIQUE CHALLENGES IN EACH OF THOSE
15	DOMAINS FOR AFFORDABILITY AND ACCESSIBILITY FOR
16	PEDIATRIC POPULATIONS. SO AS YOU'VE GONE THROUGH
17	THIS, I'D BE INTERESTED IN YOUR VIEW OF HOW TO
18	DIFFERENTIATE THAT IN A WAY OR A POSITIVE WAY THAT
19	THOSE ISSUES CAN BE ADDRESSED SPECIFICALLY BECAUSE
20	THEY WON'T BE ADDRESSED FULLY OR MAYBE NOT AT ALL IF
21	IT'S A VERY ADULT DISEASE-CENTRIC SET OF ACTIVITIES
22	THAT GOES ON. I DON'T HAVE TO BELABOR IT. YOU KNOW
23	WHAT I'M TALKING ABOUT.
24	DR. TURBEVILLE: CERTAINLY. IT IS SORT OF
25	AN OVERLOOKED ISSUE, TO BE QUITE HONEST WITH YOU.

1	THERE ARE OPPORTUNITIES WITH THE STATE-FUNDED
2	PROGRAMS THAT ARE TRYING TO IMPROVE EXACTLY WHAT YOU
3	JUST DISCUSSED AND WHAT WE DISCUSSED IN THE PAST.
4	MEDICAID IS MEDICAID. AND TO BE HONEST WITH YOU, I
5	THINK WE'D HAVE TO DO A LITTLE BIT MORE DUE
6	DILIGENCE IN IDENTIFYING WHAT OPPORTUNITIES ARE
7	AVAILABLE ON THE PEDIATRIC SIDE.
8	DR. LEVITT: HAVE YOU HAD CONVERSATIONS
9	WITH, MAYBE OTHERS HAVE HAD CONVERSATION AT THE
10	STATE LEVEL FOR THOSE WHO SORT OF SEE THIS AS
11	CARRYING A TORCH ON THE LEGISLATIVE SIDE TO TRY TO
12	DEAL WITH THIS BECAUSE YOU COULD I CAN IMAGINE, I
13	DON'T EVEN HAVE TO IMAGINE BECAUSE IT EXISTS NOW,
14	THAT THE IDENTICAL TREATMENT THAT WOULD BE
15	REIMBURSED DIFFERENTLY IF IT'S A CHILD VERSUS IF
16	IT'S AN ADULT. SO ARE THERE CHAMPIONS THAT CAN BE
17	ENGAGED IN SOME WAY BECAUSE OTHERWISE, FROM MY
18	PERSPECTIVE, IT'S LIKE SPEAKING INTO THE WIND THAT'S
19	BLOWING AT YOU. SO IT DOESN'T GO VERY FAR.
20	DR. TURBEVILLE: CERTAINLY. WHAT YOU'RE
21	SPECIFICALLY GETTING AT IS REALLY THOSE
22	REIMBURSEMENT RATES FOR CERTAIN ORGANIZATIONS,
23	CERTAIN HOSPITALS. AND I THINK THAT WOULD BE AN
24	INITIATIVE THAT, AND I CAN'T SPEAK FOR CIRM
25	SPECIFICALLY, BUT CERTAINLY TAKE IT BACK TO THE

1	ACCESSIBILITY AND AFFORDABILITY WORKING GROUP AND
2	SEE IF THERE'S ANY OPPORTUNITY THERE WHERE WE COULD
3	PERHAPS CHAMPION SOME NEW LANGUAGE THAT WE COULD
4	TAKE TO THE LEGISLATURE.
5	DR. LEVITT: AND THE OTHER THING IS THAT
6	THERE'S ALSO DIFFERENT NEEDS FOR INFRASTRUCTURE AT
7	THE ALPHA CLINICS AND OTHER AREAS BECAUSE A FAMILY,
8	A CAREGIVER BRINGING A CHILD TO A TREATMENT VISIT IS
9	DIFFERENT THAN EVEN A CAREGIVER BRINGING AN
10	ELDERLY ADULT TO TREATMENT. AND SO WHETHER
11	THERE'S GOING TO BE APPROPRIATE INFRASTRUCTURE TO
12	DEAL WITH THAT SO THAT ACCESSIBILITY WILL BE
13	ACTUALLY BALANCED, I THINK, WILL BE IMPORTANT TO DO
14	AS WELL. I DON'T HAVE ANY SOLUTIONS TO THIS.
15	DR. TURBEVILLE: IT'S A PRESSING ISSUE.
16	CHAIRMAN IMBASCIANI: OKAY.
17	DR. CLARK-HARVEY: I WAS GOING TO SAY I
18	THINK YOU DO HAVE A SOLUTION. I THINK YOU PROPOSED
19	ONE AROUND FINDING LEGISLATIVE CHAMPIONS AND OTHERS.
20	I THINK IF THAT'S APPROPRIATE OR THAT'S NEEDED, THAT
21	SHOULD BE LOOKED AT. AND IF THERE'S OTHER WAYS OF
22	DOING THAT WITHOUT HAVING TO TAKE THAT STEP, I THINK
23	THAT THAT'S WORTH FURTHER DISCUSSION AS WELL.
24	DR. TURBEVILLE: THANK YOU.
25	CHAIRMAN IMBASCIANI: I DON'T SEE
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1	ADDITIONAL BOARD COMMENT EITHER OUTSIDE THE ROOM OR
2	INSIDE THE ROOM. SO THIS IS NOT AN ACTION ITEM.
3	WE'RE GOING TO PROCEED TO OUR LAST ITEM ON THE
4	AGENDA. IS THERE ANY MEMBER OF THE PUBLIC THAT
5	WOULD LIKE TO MAKE COMMENT ON ANY ITEM WHETHER ON
6	THE AGENDA OR NOT?
7	MS. DEQUINA-VILLABLANCA: THERE ARE NO
8	PUBLIC.
9	CHAIRMAN IMBASCIANI: NO PUBLIC COMMENTS.
10	THEN LET ME GIVE MY PERSONAL THANKS TO ALL THE BOARD
11	MEMBERS FOR MAKING THIS A VERY SWEET AND PRODUCTIVE
12	MEETING, BUT VERY NICE FOR ME. THANK YOU VERY MUCH.
13	AND I THINK WE ARE ADJOURNED.
14	MR. TOCHER: HOUSEKEEPING, LITTLE
15	HOUSEKEEPING JUST QUICK. YOUR NEXT IN-PERSON, WE
16	WILL WELCOME YOU BACK HERE ON THE LAST THURSDAY OF
17	SEPTEMBER, SEPTEMBER 28TH, SAME TIME. AND THE
18	APPLICATION REVIEW SUBCOMMITTEE WILL RESUME ITS
19	REGULAR PROGRAMMING ON JULY 27TH. THAT'S ALSO THE
20	LAST THURSDAY, AS WELL AS AUGUST 31ST. SO THOSE ARE
21	YOUR NEXT MEETINGS COMING UP IN THE NEXT QUARTER.
22	THANK YOU.
23	CHAIRMAN IMBASCIANI: THANK YOU, SCOTT.
24	WE ARE ADJOURNED. THANK YOU SO MUCH, EVERYONE.
25	(THE MEETING WAS THEN CONCLUDED AT 1:25 P.M.)

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3	
4	REPORTER'S CERTIFICATE
5	REPORTER 3 CERTIFICATE
6	
7	
8	I, BETH C. DRAIN, A CERTIFIED SHORTHAND REPORTER IN AND FOR THE STATE OF CALIFORNIA, HEREBY CERTIFY THAT
9	THE FOREGOING TRANSCRIPT OF THE PROCEEDINGS BEFORE THE INDEPENDENT CITIZEN'S OVERSIGHT COMMITTEE OF THE CALIFORNIA INSTITUTE FOR REGENERATIVE MEDICINE IN THE MATTER OF ITS REGULAR MEETING HELD ON JUNE 29, 2023, WAS HELD AS HEREIN APPEARS AND THAT THIS IS THE ORIGINAL TRANSCRIPT THEREOF AND THAT THE STATEMENTS THAT APPEAR IN THIS TRANSCRIPT WERE REPORTED STENOGRAPHICALLY BY ME AND TRANSCRIBED BY
10	
11	
12	
13	ME. I ALSO CERTIFY THAT THIS TRANSCRIPT IS A TRUE AND ACCURATE RECORD OF THE PROCEEDING.
14	AND ACCOUNT RECORD OF THE PROCEEDING.
15	
16	
17	BETH C. DRAIN, CA CSR 7152 133 HENNA COURT
18	SANDPOINT, IDAHO (208) 920-3543
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