

BETH C. DRAIN, CA CSR NO. 7152

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BEFORE THE
JOINT SCIENCE SUBCOMMITTEE AND
TASK FORCE ON NEUROSCIENCE AND MEDICINE
TO THE
CALIFORNIA INSTITUTE FOR REGENERATIVE MEDICINE
ORGANIZED PURSUANT TO THE
CALIFORNIA STEM CELL RESEARCH AND CURES ACT
REGULAR MEETING

LOCATION: VIA ZOOM

DATE: MARCH 5, 2025
1 P.M.

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

FILE NO.: 2025-5

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I N D E X

ITEM DESCRIPTION	PAGE NO.
OPEN SESSION	
1. CALL TO ORDER	3
2. ROLL CALL	3
CLOSED SESSION	NONE
3. DISCUSSION OF CONFIDENTIAL INTELLECTUAL PROPERTY OR WORK PRODUCT, PREPUBLICATION DATA, FINANCIAL INFORMATION, CONFIDENTIAL SCIENTIFIC RESEARCH OR DATA, AND OTHER PROPRIETARY INFORMATION RELATING TO THE CLINICAL, TRANSLATIONAL, AND DISCOVERY PORTFOLIO. (HEALTH & SAFETY CODE 125290.30(F) (3) (B) AND (C)).	
OPEN SESSION	
4. UPDATE ON THE STRATEGIC ALLOCATION FRAMEWORK IMPLEMENTATION: NEW AND AMENDED	6
5. CONSIDERATION OF THE DISC5 PROGRAM CONCEPT	16
6. CONSIDERATION OF THE DISC4 PROGRAM CONCEPT	34
7. CONSIDERATION OF THE PRECLINICAL DEVELOPMENT PROGRAM CONCEPT	61
8. CONSIDERATION OF THE CLIN2 PROGRAM CONCEPT	86
9. PUBLIC COMMENT	NONE
10. ADJOURNMENT	104

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MARCH 5, 2025; 1 P.M.

CHAIRMAN FISCHER-COLBRIE: SO WE CONTINUE TO MAKE SUBSTANTIAL PROGRESS TOWARDS THE STRATEGIC ALLOCATION FRAMEWORK AND A NUMBER OF OTHER ISSUES THAT WE'RE DEALING WITH TODAY. SO, SCOTT, IF YOU COULD CALL THE ROLL, THAT BE WOULD BE GREAT.

MR. TOCHER: THANK YOU VERY MUCH, MARK. MARIA BONNEVILLE.

VICE CHAIR BONNEVILLE: PRESENT.

MR. TOCHER: LEONDRA CLARK-HARVEY. DEBORAH DEAS. MARK FISCHER-COLBRIE.

CHAIRMAN FISCHER-COLBRIE: HERE.

MR. TOCHER: ELENA FLOWERS.

DR. FLOWERS: PRESENT.

MR. TOCHER: JUDY GASSON.

DR. GASSON HERE.

MR. TOCHER: JEFF GOLDEN.

DR. GOLDEN: PRESENT.

MR. TOCHER: DAVID HIGGINS.

DR. HIGGINS: HERE.

MR. TOCHER: VITO IMBASCIANI.

CHAIRMAN IMBASCIANI: HERE.

MR. TOCHER: PAT LEVITT. SORRY, PAT. I THINK YOU'RE MUTED. PAT. WE'LL COME BACK. I CAN

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1 SEE THAT THE MIC IS MUTED STILL ON PAT.

2 CAROLYN MELTZER.

3 DR. MELTZER: PRESENT.

4 MR. TOCHER: PAT, I THINK YOU'RE THERE.

5 IS YOUR MIC READY? CAN YOU HEAR ME?

6 CAROLYN MELTZER. DID I CALL YOU CAROLYN?

7 DR. MELTZER: YOU DID. PRESENT.

8 MR. TOCHER: THANKS. CHRIS MIASKOWSKI.

9 DR. MIASKOWSKI: PRESENT.

10 MR. TOCHER: MARV SOUTHARD.

11 DR. SOUTHARD: HERE.

12 MR. TOCHER: KAROL WATSON.

13 DR. WATSON: HERE.

14 MR. TOCHER: KEITH YAMAMOTO.

15 DR. YAMAMOTO: HERE.

16 MR. TOCHER: AND THE RECORD WILL REFLECT

17 THAT PAT LEVITT IS ATTENDING THE MEETING. GREAT.

18 THANKS. WE HAVE A QUORUM, MARK. READY TO PROCEED?

19 CHAIRMAN FISCHER-COLBRIE: GREAT. JUST AN

20 IMPORTANT DATA POINT IN THE CONSIDERATION FOR WHAT

21 IS HAPPENING HERE WITH THE OVERALL PROCESS, AND

22 THAT'S WITHIN THE CONTEXT OF AN EXTRAORDINARY AMOUNT

23 OF WORK AND COLLECTIVE TIME THAT HAS BEEN SPENT WITH

24 A PROCESS TO WORK ON THE STRATEGIC ALLOCATION

25 FRAMEWORK AND INHERENTLY THE PRIORITIZATIONS FOR

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1 CIRM AS A VEHICLE FOR DRIVING LEVERAGE AND WORKING
2 EVEN MORE SUCCESSFULLY TOWARDS OUR COLLECTIVE GOALS
3 AS STATED IN THE MISSION STATEMENT FOR CIRM.

4 AND WITHIN THAT CONTEXT, NOT ONLY HAS THE
5 WORK BEEN A HERCULEAN EFFORT, IT'S ALSO A QUALITY
6 THAT I THINK COULD BE REPRESENTED IN ACADEMIC
7 JOURNALS IN THE CONTEXT THAT THESE ARE DECISIONS AND
8 ALLOCATION ELEMENTS THAT MANY, MANY ORGANIZATIONS
9 HAVE FACED, WHETHER IT'S PRIVATE OR PUBLIC
10 INSTITUTIONS --

11 DR. LEVITT: HELLO. CAN YOU HEAR ME NOW?

12 CHAIRMAN FISCHER-COLBRIE: -- AND THE WORK
13 HAS BEEN PHENOMENAL.

14 DR. LEVITT: I CAN'T HEAR YOU.

15 CHAIRMAN FISCHER-COLBRIE: OKAY. WE CAN
16 HEAR YOU, PAT.

17 DR. LEVITT: HOW ABOUT NOW?

18 DR. YAMAMOTO: YEP.

19 DR. LEVITT: NOW I CAN HEAR YOU.

20 CHAIRMAN FISCHER-COLBRIE: OKAY. GREAT.

21 WITH THAT PREAMBLE TO REFLECT THE
22 INCREDIBLE QUALITY OF THE WORK IS ALSO THE NEXT
23 STEPS IN THE CONTEXT OF THE FINANCE SUBCOMMITTEE AND
24 NEURO TASK FORCE REVIEW OF WHERE WE STAND AS THE
25 NEXT STEP IN PROGRESSION TOWARDS DISCUSSION AND

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1 RECOMMENDATIONS TO THE BOARD WHICH IS UPCOMING HERE
2 IN MARCH. SO IT'S A VERY IMPORTANT MEETING FOR THE
3 SHAPING AND DETERMINATION FOR THAT ELEMENT. AND I
4 APPRECIATE EVERYBODY'S TIME AND EFFORT IN DOING
5 THAT. AND I LOOK FORWARD TO A WIDE-OPEN,
6 FREE-RANGING DISCUSSION TO ENSURE THAT WE DO THE
7 BEST JOB WE POSSIBLY CAN IN SHAPING THOSE
8 COMMUNICATIONS TO THE BOARD IF REQUIRED.

9 SO WITH THAT, I'D LIKE TO TURN IT OVER TO
10 J.T. FOR COMMENTS BEFORE WE GET INTO THE MEETING
11 HERE.

12 MR. TOCHER: AND, MARK, JUST FOR THE
13 RECORD REFLECT THAT DEBORAH DEAS AND LEONDR
14 CLARK-HARVEY ARE ATTENDING.

15 CHAIRMAN FISCHER-COLBRIE: GREAT. THANK
16 YOU, SCOTT.

17 DR. THOMAS: THANK YOU, MARK, MEMBERS OF
18 THE SCIENCE SUBCOMMITTEE AND NEURO TASK FORCE,
19 MEMBERS OF THE PUBLIC. IN OUR SEPTEMBER MEETING
20 WHEN THE BOARD APPROVED THE STRATEGIC ALLOCATION
21 FRAMEWORK, WHICH IS THE DOCUMENT THAT SET THE STAGE
22 FOR DETERMINING HOW WE WERE GOING TO DEPLOY THE
23 BALANCE OF OUR PROP 14 FUNDING, WE PROCEEDED TO PUT
24 TOGETHER AN EFFORT THAT HAS LITERALLY INVOLVED
25 VIRTUALLY EVERYBODY AT CIRM TO DEVELOP CONCEPT PLANS

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1 FOR FOUR OF THE 13 CONCEPTS THAT WERE ADOPTED AT THE
2 SEPTEMBER BOARD MEETING. AND THOSE ARE THE CONCEPTS
3 WHICH YOU'RE GOING TO BE HEARING ABOUT TODAY FROM A
4 NUMBER OF MEMBERS OF THE TEAM.

5 MY MESSAGE TO YOU IS JUST SIMPLY THAT THIS
6 HAS BEEN AN EFFORT THAT WAS EXTREMELY SUBSTANTIAL,
7 AS MARK HAS MENTIONED. THIS IS SOMETHING THAT IS,
8 IN ADDITION TO MANY OTHER RESPONSIBILITIES THAT THE
9 MEMBERS OF THE TEAM ALREADY HAD GOING FORWARD, WHICH
10 MAKES THE WORK PRODUCT, IN MY OPINION, EVEN THAT
11 MUCH MORE IMPRESSIVE. AND I THINK THAT OVER THE
12 COURSE OF THIS DISCUSSION YOU WILL SEE THAT THERE
13 HAS BEEN EXHAUSTIVE THOUGHT AS TO HOW TO BEST
14 IMPLEMENT THE FOUR CONCEPTS THAT ARE GOING TO BE
15 DISCUSSED, AND WE'LL FEEL THAT AT THE END OF THIS
16 DISCUSSION THAT WE HAVE, I WOULD HOPE AND BELIEVE, A
17 ROADMAP TO PROCEED WITH IMPLEMENTING WHAT WILL BE
18 BROUGHT, NOT JUST TO TODAY, BUT TO MARCH'S BOARD
19 MEETING.

20 I WANT TO CONGRATULATE THE MEMBERS OF ALL
21 OF THE TEAMS, ALL THE PROGRAM GROUPS, PEOPLE YOU
22 WILL BE HEARING FROM TODAY, AND ALL OF THE TEAM HERE
23 AT CIRM, INCLUDING MEMBERS OF THE BOARD AS YOU HAVE
24 STUCK WITH THIS THROUGH MANY, MANY MONTHS. THANK
25 YOU FOR THAT. AND WITH THAT, I WANT TO TURN IT OVER

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1 TO ROSA, WHO HAS OVERSEEN THIS ENORMOUS UNDERTAKING.
2 AND I WANT, ROSA, TO PERSONALLY CONGRATULATE YOU AS
3 WELL. SO PLEASE TAKE IT FROM HERE.

4 DR. CANET-AVILES: THANK YOU, J.T.

5 SO ALL THIS INTRODUCTION, I WANT TO ALSO
6 THANK EVERYBODY FOR SPENDING THE TIME WITH US TO GO
7 THROUGH WHAT WE HAVE PREPARED FOR YOU THIS
8 AFTERNOON. AND I WANT TO PERSONALLY ACKNOWLEDGE THE
9 INCREDIBLE EFFORT THAT HAS GONE INTO GETTING US TO
10 THIS POINT. THIS HAS BEEN A REAL TEAM EFFORT. AND
11 I WANT TO RECOGNIZE, NOT ONLY TODAY'S PRESENTERS AND
12 LEADS OF THE DIFFERENT PARTS OF THE EFFORTS, BUT
13 ALSO THE TEAMS FROM REVIEW AND COLLEAGUES FROM THE
14 PROGRAMS TEAMS, THE TEAMS FROM GRANTS MANAGEMENT,
15 LEGAL, AND BOARD GOVERNANCE AS WELL EVERYONE WHO HAS
16 PLAYED A KEY ROLE IN SHAPING THESE CONCEPTS. AND I
17 THINK IT'S IMPORTANT TO JUST TAKE A MINUTE TO
18 ACKNOWLEDGE THIS.

19 A SPECIAL THANKS ALSO TO OUR SCIENCE
20 SUBCOMMITTEE AND NEURO TASK FORCE CO-CHAIRS. THANK
21 YOU, MARK, CAROLYN, AND PAT. AND YOUR LEADERSHIP
22 AND COMMITMENT AND TIME TO KEEPING WITH THE
23 INVESTMENT STRATEGIES ARE IMPACTFUL ARE TRULY
24 APPRECIATED. AND GOING THROUGH ALL THESE DIFFERENT
25 PRECALLS HAS BEEN VERY HELPFUL IN SHAPING WHAT WE

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1 ARE BRINGING TODAY.

2 I THINK I WANT TO TAKE A MINUTE TO MENTION
3 THAT WHAT WE HAVE ACCOMPLISHED IN THE LAST FOUR
4 MONTHS IS PRETTY REMARKABLE. TYPICALLY, AS A
5 REMINDER, WE ARE ALL FAMILIAR WITH THE PROCESS. IT
6 TAKES ABOUT A YEAR WITH MULTIPLE DISCUSSIONS ALONG
7 THE WAY TO DEVELOP AND BRING A CONCEPT TO THE BOARD.
8 AND I'D LIKE TO REMIND THIS BOARD OF THE STRATEGIC
9 ALLOCATION FRAMEWORK PROCESS WHICH UNFOLDED OVER A
10 PERIOD OF TWO YEARS. WE'VE HAD TO WORK FAST AND
11 EFFICIENTLY TO ALIGN THESE PROPOSALS WITH OUR
12 STRATEGIC GOALS AND GET THEM READY FOR YOUR
13 CONSIDERATION IN MARCH AT THE BOARD MEETING.

14 THIS PACE WAS NECESSARY. I THINK WE ARE
15 ALREADY AWARE OF WHAT'S GOING ON, NOT ONLY IN
16 CALIFORNIA, BUT MORE AT THE FEDERAL LEVEL. AND IT'S
17 BEEN NECESSARY TO KEEP THE MOMENTUM AS WELL WITH
18 WHAT WE HAVE STARTED AND ENSURE CONTINUITY OF
19 FUNDING AND SUPPORT OUR RESEARCH AND CLINICAL
20 COMMUNITIES.

21 AS LIZ, DR. NOBLIN, WILL PRESENT IN HER
22 PRESENTATION, TODAY'S DISCUSSIONS ARE JUST ONE PART
23 OF A LARGER TIMELINE. EVERYTHING WE ARE DOING NOW
24 IS BUILT ON THE ASSUMPTION THAT THESE CONCEPTS WILL
25 MOVE FORWARD IN MARCH. WE UNDERSTOOD THAT THERE CAN

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1 BE DELAYS, BUT WE ALSO WANT TO BRING UP THAT
2 REWORKING THE CALENDAR OR SHIFTING PROGRAM TIMELINES
3 WILL PUSH BACK FUTURE FUNDING OPPORTUNITIES SINCE
4 EVERYTHING IS INTERCONNECTED. AND WE WANT TO BE
5 MINDFUL OF THAT AS WE MOVE FORWARD.

6 NOW, WHAT ARE WE BRINGING TO TODAY'S
7 MEETING? TODAY WE ARE ROLLING OUT THE FIRST
8 IMPLEMENTATION OF CIRM'S STRUCTURED
9 PREFERENCE-SETTING PROCESS, WHICH IS FRAMEWORK THAT
10 HELPS KEEP FUNDING PRIORITIES DYNAMIC, DATA DRIVEN,
11 AND ALIGNED WITH THE MATCHING OPPORTUNITIES AND
12 PORTFOLIO NEEDS. AND THIS, VERY IMPORTANTLY, BUILDS
13 ON THE NEURO TASK FORCE MODEL, WHICH WAS ORIGINALLY
14 DEVELOPED TO GUIDE CIRM'S NEUROSCIENCE INVESTMENTS
15 UNDER PROPOSITION 14.

16 NOW, WE ARE EXPANDING AND INCLUDING THAT
17 STRUCTURED APPROACH ACROSS THE ENTIRE REGENERATIVE
18 MEDICINE SPACE, INCLUDING PROP 14'S NEURO MANDATE
19 AND BROADER CELL AND GENE THERAPY PRIORITIES.

20 FOR TODAY, WHICH IS THIS FIRST BOX THAT WE
21 SEE HERE, WE ARE GOING TO BRING THE NEW CONCEPTS AND
22 INTEGRATE FOCUS AREAS AND PREFERENCE SETTING INTO
23 BRINGING THESE CONCEPTS. AND YOU WILL SEE IT IN THE
24 PRESENTATION. WE'VE BEEN USING A DATA-DRIVEN
25 APPROACH TO IDENTIFY PORTFOLIO GAPS, EMERGING

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1 SCIENCE, AND REGULATORY TRENDS THAT HAVE DRIVEN THIS
2 PREFERENCE SETTING. AND WE ARE ALSO PRIORITIZING
3 HIGH IMPACT RESEARCH AREAS AND UNMET CLINICAL NEEDS
4 TO ENSURE THAT CIRM FUNDING AND STRATEGY IS AS
5 STRATEGIC AND EFFECTIVE AS POSSIBLE.

6 NOW, IN JUNE WE ARE GOING TO BRING ANOTHER
7 PRESENTATION. WHAT WE WILL COME WITH TO YOU IN JUNE
8 IS THIS WILL EVOLVE INTO A FORMALIZED ANNUAL
9 PORTFOLIO PROGRAM PERFORMANCE REVIEW TOWARDS THE END
10 OF THE FISCAL YEAR. THIS YEAR WE ARE COMING
11 SEPARATE. WE ARE COMING WITH THE CONCEPTS NOW, AND
12 THEN THE PORTFOLIO IN JUNE. AND THE MAIN REASON WAS
13 A TIME ISSUE HERE, BUT WE'VE IMPLEMENTED A LOT OF
14 WHAT WE'VE BEEN ANALYZING INTO THE CONCEPTS. RIGHT.

15 NOW, WE WILL BE BRINGING COMPREHENSIVE
16 ASSESSMENT OF CURRENT AWARDS, RESEARCH PROGRESS, AND
17 FUNDING GAPS IN JUNE. AND THEN THE SCIENCE
18 COMMITTEE AND THE ICOC EVERY YEAR, AT THE END OF THE
19 FISCAL YEAR, WE'LL REVIEW PROPOSED ADJUSTMENTS TO
20 FUNDING PRIORITIES WHICH WILL THEN BE INCORPORATED
21 INTO NEXT YEAR'S FUNDING CYCLES. THE GOAL IS TO
22 KEEP CIRM'S FUNDING APPROACH FLEXIBLE AND FORWARD
23 LOOKING WHILE STAYING ALIGNED WITH THE SAF. THIS
24 PREFERENCE-SETTING PROCESS AS OUTLINED IN THE
25 EXHIBIT A OF THE MEMO FOR THE CONCEPTS IS A BIG STEP

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1 TOWARDS MAXIMIZING THE IMPACT OF CIRM'S INVESTMENTS
2 AND ENSURING THAT REGENERATIVE MEDICINE FUNDING
3 STAYS STRATEGIC, RESPONSIVE, AND POSITIONED FOR
4 SUCCESS.

5 SO WE LOOK FORWARD TO THE DISCUSSION AND
6 YOUR INSIGHTS TODAY. AND WITHOUT LESS FURTHER ADO,
7 UNLESS THERE ARE ANY QUESTIONS ABOUT THIS, I WOULD
8 LIKE TO LEAD ON TO DR. NOBLIN FOR HER SAF
9 PRESENTATION.

10 DR. NOBLIN: THANK YOU ALL VERY MUCH.
11 TODAY I WILL GIVE A VERY BRIEF BACKGROUND ON OUR
12 CONCEPT DEVELOPMENT PROCESS AND THEN HAND IT OVER TO
13 MY COLLEAGUES IN TURN TO TALK THROUGH THE DISC5,
14 DISC4, PDEV, AND CLIN2 CONCEPTS.

15 SO BY MEANS OF INTRODUCTION, TODAY I'LL
16 COVER HOW THE NEW CONCEPTS YOU'LL HEAR ABOUT RELATED
17 TO CIRM'S IMPACT GOALS IN THE SAF, BRIEFLY TALK
18 THROUGH THE CONCEPT DEVELOPMENT PROCESS, AND THEN
19 SHOW THE LAUNCH TIMELINE THAT WE'VE BEEN REFERRING
20 TO IN THIS INTRODUCTION.

21 IN SEPTEMBER OF LAST YEAR, THE ICOC
22 APPROVED THE STRATEGIC ALLOCATION FRAMEWORK. AND
23 THIS FRAMEWORK INCLUDED A SET OF GOALS TO MAXIMIZE
24 CIRM'S IMPACT IN THE REGENERATIVE MEDICINE SPACE.
25 THE GOALS WERE ORGANIZED INTO FOUR CATEGORIES; AND

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1 IN ADDITION TO THE IMPACT GOALS THEMSELVES, THE SAF
2 INCLUDED RECOMMENDATIONS FOR CONCEPT DEVELOPMENT TO
3 ACHIEVE THOSE GOALS.

4 THE CONCEPTS THAT YOU WILL HEAR ABOUT
5 TODAY ARE FOCUSED ON GOAL 1, WHICH IS TO CATALYZE
6 THE IDENTIFICATION AND VALIDATION OF AT LEAST FOUR
7 NOVEL TARGETS AND BIOMARKERS, ENSURING INTEGRATION
8 INTO PRECLINICAL OR CLINICAL RESEARCH FOR DISEASES
9 IN CALIFORNIA, AS WELL AS GOAL 4, WHICH IS TO PROPEL
10 15 TO 20 THERAPIES TARGETING DISEASES AFFECTING
11 CALIFORNIANS TO LATE STAGE TRIALS. AND BY DESIGN,
12 THE CONCEPTS THAT YOU WILL HEAR ABOUT TODAY
13 INCORPORATE ELEMENTS OF GOAL 5, WHICH IS TO ENSURE
14 THAT EVERY BLA-READY PROGRAM HAS A STRATEGY FOR
15 ACCESS AND AFFORDABILITY.

16 FOLLOWING APPROVAL OF THE SAF AT THE ICOC
17 MEETING IN SEPTEMBER OF LAST YEAR, WE'VE BEEN FULLY
18 FOCUSED ON DEVELOPING THE CONCEPTS THAT ARE IN THIS
19 INITIAL PHASE. AND ASSUMING ICOC APPROVAL AT THE
20 END OF MARCH, WE'RE ALSO POISED TO OPEN ALL OF THESE
21 FUNDING OPPORTUNITIES AS SOON AS POSSIBLE FOR THE
22 REMAINDER OF THIS CALENDAR YEAR. AND IN ADDITION TO
23 OPENING THESE FUNDING OPPORTUNITIES, WE WOULD THEN
24 TURN OUR ATTENTION TO THE DEVELOPMENT OF THE NEXT
25 PHASE OF CONCEPTS. AND THIS IS ALL CONCURRENT WITH

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1 CONTINUING TO MANAGE AND EVALUATE THE FUNDING
2 OPPORTUNITIES THAT REMAIN OPEN AND OUR ACTIVE AWARD
3 PORTFOLIO.

4 THIS SCHEMATIC WALKS THROUGH OUR PROCESS
5 FOR DEVELOPING THE CONCEPTS THAT YOU WILL HEAR ABOUT
6 TODAY. WE STARTED WITH THE IMPACT GOALS AND
7 RECOMMENDATIONS THAT EMERGED FROM THE SAF. AND WE
8 FOLLOWED A DATA-DRIVEN APPROACH INCORPORATING BOTH
9 THE RECOMMENDATIONS FROM THE SAF AS WELL AS ANALYSIS
10 OF CIRM'S PORTFOLIO AND THE REGENERATIVE MEDICINE
11 LANDSCAPE TO ARRIVE AT THE CONCEPT DESIGNS THAT YOU
12 WILL HEAR ABOUT TODAY. AND THIS PORTFOLIO ANALYSIS
13 AND LANDSCAPE ANALYSIS ARE WHAT INFORMS THE
14 PREFERENCES THAT ARE INCORPORATED INTO THREE OUT OF
15 THE FOUR CONCEPTS WHICH WE WILL GO THROUGH.

16 NOW, FOR A VERY BRIEF SNAPSHOT, THE FOUR
17 CONCEPTS YOU WILL HEAR ABOUT TODAY COVER CIRM'S
18 DISCOVERY, PRECLINICAL DEVELOPMENT, AS WELL AS
19 CLINICAL DEVELOPMENT STAGES IN THE R&D PROCESS.

20 ON THE DISCOVERY SIDE, THE TWO
21 COMPLEMENTARY PROGRAMS, DISC5 AND DISC4, BOTH
22 EMPHASIZE TEAM SCIENCE TO ARRIVE AT NOVEL
23 DISCOVERIES IN REGENERATIVE MEDICINE WITH DISC4
24 HAVING AN EMPHASIS ON LARGE TEAMS FOLLOWING THE
25 REMIND MODEL AND DISC5 ENABLING SMALLER TEAMS.

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1 PDEV IS A NEW CONCEPT, WHICH IS A
2 CONSOLIDATION OF PRIOR FUNDING OPPORTUNITIES
3 ADDRESSING THE PRECLINICAL SPACE AND AIMS TO ADVANCE
4 PROMISING CANDIDATES THROUGH IND. AND IN PDEV
5 YOU'LL HEAR ABOUT CANDIDATE PREFERENCES THAT ARE
6 ALIGNED TO SAF GOALS. AND ON THE CLINICAL SIDE,
7 WE'LL HAVE AN UPDATE TO OUR CLIN2 FUNDING
8 OPPORTUNITY, AND THOSE UPDATES REFLECT INCORPORATING
9 THE SAF RECOMMENDATIONS AS WELL AS PREFERENCE
10 SETTING.

11 AND THEN TO CLOSE THIS INTRODUCTION, THIS
12 SLIDE HERE IS OUR SNAPSHOT OF WHAT THE YEAR AHEAD
13 LOOKS LIKE FOR US ASSUMING ICOC APPROVAL OF THESE
14 FOUR NEW CONCEPTS AT THE END OF MARCH. WE HAVE
15 WORKED WITH OUR COLLEAGUES AND ARE POISED TO OPEN
16 FUNDING OPPORTUNITIES IN DISCOVERY, PDEV, AND CLIN2
17 IN THE SPRING PENDING ICOC APPROVAL.

18 MR. TOCHER: LIZ, I'M SORRY. LEONDR
19 CLARK-HARVEY HAS HER HAND RAISED.

20 DR. NOBLIN: OH, OF COURSE. GO AHEAD.

21 DR. CLARK-HARVEY: SORRY TO INTERRUPT. I
22 JUST WANT TO MAKE SURE THAT I CAUGHT THE NAME
23 CORRECTLY. SO THE NEW PDEV, DOES THAT STAND FOR
24 PRECLINICAL DEVELOPMENT? DID I GET IT RIGHT?

25 DR. NOBLIN: YES.

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1 DR. CLARK-HARVEY: OKAY. PERFECT. THANK
2 YOU. I APPRECIATE THAT.

3 DR. NOBLIN: SO FOLLOWING THE OPENING OF
4 APPLICATIONS IN THE SPRING, WE'RE THEN SET TO BEGIN
5 GRANTS WORKING GROUP REVIEWS OF THE NEW CONCEPTS IN
6 THE FALL. AND THIS IS CONCURRENT WITH THE
7 CONTINUATION OF THE DISC-0 FUNDING OPPORTUNITY,
8 WHICH IS ACTIVE, AND THE CCCE CONCEPT, WHICH IS IN
9 DEVELOPMENT AND WILL BE GOING THROUGH THE AAWG FOR
10 BOARD APPROVAL IN MARCH.

11 SO UNLESS THERE ARE FURTHER QUESTIONS, I
12 WILL HAND IT OVER TO DR. SHEPARD FOR AN OVERVIEW OF
13 THE DISC5 CONCEPT.

14 DR. SHEPARD: GOOD AFTERNOON, EVERYONE,
15 MEMBERS OF THE SCIENCE SUBCOMMITTEE, NEURO TASK
16 FORCE, MEMBERS OF THE PUBLIC, AND THE CIRM TEAM.
17 IT'S MY PLEASURE TO KICK OFF THE SERIES OF
18 DISCUSSIONS ON THESE CONCEPTS THAT WE ARE BRINGING
19 FOR YOUR CONVERSATION TODAY.

20 I'D LIKE TO BEGIN BY JUST GOING -- GIVING
21 A BRIEF OVERVIEW OF THE CONTENTS OF MY PRESENTATION
22 BECAUSE THIS WILL BE A FORMAT THAT WE ALL FOLLOW
23 TODAY. SO WE'LL START WITH A GENERAL BACKGROUND
24 AND INTRODUCTION AND EXPLAIN HOW THIS NEW PROGRAM
25 ALIGNS WITH THE IMPACT GOALS THAT LIZ JUST

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1 DESCRIBED. WE'LL BRIEFLY GO OVER THE OBJECTIVE OF
2 THIS PROGRAM AS WELL AS THE SCOPE AND STRUCTURE,
3 WHICH INCLUDES INFORMATION ABOUT THE AWARD BUDGET,
4 THE PROJECT ELIGIBILITY, AND TEAM ELIGIBILITY, AS
5 WELL AS OTHER TYPES OF CHANGES AND IMPROVEMENTS THAT
6 WE ARE DEVELOPING AND PROPOSING. AND FINALLY, WE
7 WILL FOLLOW WITH A REQUEST FOR YOUR RECOMMENDATION
8 TO THE FULL BOARD MEETING AT THE END OF MARCH.

9 OKAY. SO JUST -- I WON'T GO IN TOO MUCH
10 DETAIL OVER THIS BECAUSE ROSA AND LIZ NICELY WENT
11 OVER THIS, BUT I JUST WANT TO REMIND YOU THAT THE
12 IMPACT GOAL THAT THIS PROGRAM IS DESIGNED TO ADDRESS
13 IS TO CATALYZE THE IDENTIFICATION AND VALIDATION OF
14 AT LEAST FOUR TARGETS, NOVEL TARGETS AND BIOMARKERS,
15 AND ENSURING INTEGRATION INTO PRECLINICAL OR
16 CLINICAL RESEARCH PROGRAMS. AND THE RECOMMENDATION
17 TO ACHIEVE THIS GOAL WAS TO SUPPORT COMPREHENSIVE
18 DISCOVERY THROUGH DISC4 AND DISC5 FUNDING
19 STRUCTURES.

20 SO THE OBJECTIVE, THEN, OF BOTH OF THESE
21 PROGRAMS, DISC5 AND DISC4, WHICH YOU WILL HEAR ABOUT
22 NEXT, APPLY A COMMON OBJECTIVE, WHICH IS TO SUPPORT
23 COMPREHENSIVE DISCOVERY RESEARCH ACROSS A DIVERSE
24 RANGE OF DISEASES AND BOTTLENECKS TO ACCELERATE THE
25 DEVELOPMENT OF POTENTIAL THERAPEUTICS AND BIOMARKERS

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1 IN REGENERATIVE MEDICINE. SO THESE TWO AWARD
2 STRUCTURES THAT YOU WILL BE HEARING ABOUT PROVIDE
3 COMPLEMENTARY APPROACHES TO MEETING THIS COMMON
4 OBJECTIVE. AND THIS IS BRIEFLY ILLUSTRATED ON THE
5 SLIDE HERE. DISC4 WILL BE DESCRIBING LARGE,
6 MULTIDISCIPLINARY COLLABORATIONS, AND DISC5 IS
7 FOCUSED ON SMALLER MULTIDISCIPLINARY, COLLABORATIVE
8 APPROACHES.

9 MS. MANDAC: JEFF HAS HIS HAND RAISED.
10 JEFF GOLDEN.

11 DR. SHEPARD: SORRY. DR. GOLDEN.

12 DR. GOLDEN: I JUST HAD A QUESTION. ON
13 THIS SLIDE IN DISC4 YOU SAY TO FACILITATE TARGET AND
14 BIOMARKER IDENTIFICATION, BUT IT SEEMS LIKE THAT
15 WOULD BE EQUALLY LIKELY IN DISC5.

16 DR. SHEPARD: YES.

17 DR. GOLDEN: ARE YOU SUGGESTING THAT ONE
18 IS TARGETED ON ONE OR THE OTHER, OR DO THEY CROSS
19 OVER TO BOTH OF THOSE?

20 DR. SHEPARD: I'M SORRY IF I DIDN'T
21 ELABORATE CLEARLY ENOUGH. BOTH OF THESE PROGRAMS
22 ADDRESS THE SAME GOAL AND TO LEAD TO DISCOVERY OF
23 TARGETS AND BIOMARKERS, BUT THEY'RE TAKING
24 COMPLEMENTARY APPROACHES SO THAT THEY ARE WORKING
25 TOGETHER AND INDIVIDUALLY TOWARDS IMPACTING THIS

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1 GOAL THROUGH ELUCIDATING DISEASE MECHANISMS AND
2 OTHER RESEARCH THAT I'LL GO OVER IN MY SUBSEQUENT
3 SLIDES. BUT WE WANTED TO INTRODUCE THIS SINCE
4 THERE'S THIS COMMON OBJECTIVE BETWEEN THE TWO
5 PROGRAMS THAT YOU'RE GOING TO BE HEARING ABOUT THAT
6 ARE INTENDED TO WORK TOGETHER. AND IN ADDITION TO
7 WORKING TOGETHER, THEY'RE DESIGNED TO WORK WITH
8 INFRASTRUCTURE THAT'S BEEN DEVELOPED ACROSS A
9 BROADER SET OF PROGRAMS, INCLUDING OUR ALPHA CLINICS
10 AND OUR EDUCATIONAL PROGRAMS, AND EVEN SOME PROGRAM
11 INFRASTRUCTURE THAT'S BEING PILOTED THROUGH THE
12 REMIND AWARDS THAT WERE RECENTLY LAUNCHED.

13 AND THE IDEA BEHIND THIS IS THAT BY
14 LEVERAGING INTERNAL/EXTERNAL PARTNERSHIPS AND OTHER
15 CIRM-FUNDED RESOURCES, WE CAN MAXIMIZE OR EVEN
16 INCREASE THE IMPACT OF THE OUTCOMES OF THESE AWARDS
17 BEYOND WHAT THE RESEARCH ITSELF ENTAILS.

18 DR. GOLDEN: OKAY. SO JUST TO BE CLEAR,
19 AN APPLICATION IN DISC5 COULD STILL INCLUDE THE
20 DISCOVERY OF BIOMARKERS FOR TARGETS EQUAL TO WHAT
21 DISC4 DOES; IS THAT CORRECT?

22 DR. SHEPARD: THE TYPES OF APPROACHES AND
23 QUESTIONS ADDRESSED, YES, OR COULD BE EXACTLY THE
24 SAME, BUT THE SCALE OF THE RESEARCH THAT THESE
25 PROGRAMS WILL SUPPORT IS WHERE THE DIFFERENCE IS.

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1 DR. GOLDEN: GREAT. THANK YOU.

2 DR. SHEPARD: SO NOW WE'LL GO A BIT MORE
3 INTO THE SPECIFIC DETAILS OF WHAT SETS DISC5 APART
4 FROM THE OTHER PROGRAMS. SO JUST TO REPEAT, THE
5 OBJECTIVE IS TO SUPPORT COMPREHENSIVE DISCOVERY
6 RESEARCH ACROSS DIVERSE RANGES OF DISEASES AND
7 TECHNICAL BOTTLENECKS, ACCELERATE THE DEVELOPMENT OF
8 POTENTIAL THERAPEUTICS AND BIOMARKERS IN
9 REGENERATIVE MEDICINE. AND THE APPROACH WILL BE TO
10 SUPPORT EXPLORATORY AND INNOVATIVE FOUNDATIONAL
11 RESEARCH LED BY SMALL TEAMS OF INVESTIGATORS.

12 SO THE SCOPE OF THESE AWARDS IS COMPRISED
13 IN THIS LIST OF EXPECTED OUTCOMES. SO ALL DISC5
14 AWARDS WILL SUPPORT EXPLORATORY AND INNOVATIVE
15 FOUNDATIONAL RESEARCH, BUT THEY WILL BE LED BY PAIRS
16 OF INVESTIGATORS. AND THE IDEA IS TO ACHIEVE ONE OR
17 MORE OF THE FOLLOWING OUTCOMES: ADVANCING OUR
18 UNDERSTANDING OF HUMAN STEM AND PROGENITOR CELLS AS
19 THEY PERTAIN TO HUMAN HEALTH AND DISEASE. ADVANCING
20 THE USE AND IMPACT OF STEM CELLS, AND THE
21 EXPLORATION OF DISEASE MECHANISMS AND THERAPEUTIC
22 TARGET DISCOVERY. IDENTIFYING BIOLOGICAL INSIGHTS
23 TO ADDRESS KEY BOTTLENECKS IN STEM CELL AND GENE
24 THERAPY AND OTHER REGENERATIVE MEDICINE APPROACHES.
25 AND ADVANCING THE APPLICABILITY OF STEM CELL AND

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1 GENE THERAPY AND OTHER REGENERATIVE MEDICINE
2 APPROACHES TO DIVERSE HUMAN POPULATIONS.

3 SO IF THIS SOUNDS A LITTLE BIT FAMILIAR TO
4 YOU, IT'S NOT SURPRISING BECAUSE DISC5 IS BASICALLY
5 A RESPONSE OF THE STRATEGIC ALLOCATION FRAMEWORK TO
6 BUILD OFF THE SUCCESSFUL FOUNDATIONAL DISC-0 PROGRAM
7 THAT WE'VE BEEN OPERATING FOR THE PAST COUPLE OF
8 YEARS, BUT INCREASE ITS EFFECTIVENESS BY ALIGNING IT
9 TO THE NEW GOALS. SO IT'S BASICALLY SIMPLIFYING,
10 IMPROVING, AND BUILDING UPON THE DISC-0 STRUCTURE TO
11 ENCOURAGE SMALL COLLABORATIONS AND ENHANCE THE
12 SUPPORT FOR THE MORE EXPLORATORY SIDE OF THIS
13 RESEARCH.

14 SO HOW IS IT DIFFERENT FROM DISC-0? WE'RE
15 GOING TO GO INTO THAT IN A LITTLE BIT MORE DETAIL,
16 BUT IT BOILS DOWN TO THE TWO FOLLOWING THINGS. ONE,
17 THERE IS A MUCH GREATER EMPHASIS ON COLLABORATION.
18 SO RATHER THAN BEING LED BY A SINGLE PRINCIPAL
19 INVESTIGATOR, AS WAS THE CASE IN OUR FIRST TRACK OF
20 DISC-0, DISC5 WILL SUPPORT A CORE TEAM COMPRISING A
21 PAIR OF INVESTIGATORS WITH EQUAL LEADERSHIP TO THE
22 TEAM. SO BASICALLY IT'S A JOINT LEADERSHIP, AND
23 THEY'RE EXPECTED TO BRING DIFFERENT PERSPECTIVES OR
24 DISCIPLINES TO A PROBLEM TO CREATE A NEW WAY OF
25 LOOKING AT THINGS, NEW PERSPECTIVES TO OPEN NEW

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1 DOORS INTO RESEARCH.

2 THE SECOND AREA IS WE'RE ENHANCING THE
3 SUPPORT AND WEIGHT THAT INNOVATION TAKES SO THAT
4 THAT EARLIER MORE STAGED EXPLORATORY PROGRAMS THAT
5 MAY BE HIGH RISK, HIGH REWARDS CAN BE SUPPORTED
6 THROUGH THIS PROGRAM.

7 OKAY. SO THIS SLIDE IS A BIT OF A PUNCH
8 LINE BECAUSE THIS DESCRIBES EVERYTHING THAT I'M
9 GOING TO GO OVER IN MY NEXT FEW SLIDES. BUT A
10 COUPLE OF THINGS I WANTED TO JUST HIGHLIGHT BEFORE I
11 GO INTO MORE DETAIL IS THAT THESE PROGRAMS WILL BE
12 OFFERED ONCE A YEAR. THE GRANTS ARE DESIGNED TO
13 PROVIDE SUPPORT FOR THREE YEARS IN DURATION. IT
14 WILL BE OPEN TO CALIFORNIA NON-PROFIT OR FOR-PROFIT
15 RESEARCH INSTITUTIONS. IT WILL BE LED BY A TEAM OF
16 TWO PRINCIPAL INVESTIGATORS, WHICH BY DESIGNATION
17 ARE CALLED THE PI, CO-PI FOR REASONS I'LL GO INTO.
18 A MAXIMUM AWARD TOTAL OF \$2.5 MILLION. AND WE
19 ANTICIPATE THAT AN ALLOCATION OF \$50 MILLION WOULD
20 SUPPORT APPROXIMATELY 15 TO 20 OF THESE AWARDS.

21 SO THE FIRST THING I'D LIKE TO HIGHLIGHT
22 IS THE TOTAL COST CAP. ONE DIFFERENCE BETWEEN THIS
23 DISC5 PROGRAM AND DISC-0 IS THAT WE ARE OFFERING A
24 TOTAL AWARD CAP RATHER THAN A DIRECT PROJECT COST
25 CAP. WHILE THE OVERALL AWARD AMOUNT IS SIMILAR, BY

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1 USING THE TOTAL COST CAP, IT REMOVES A DISINCENTIVE
2 FOR MULTI-INSTITUTIONAL COLLABORATIONS. AND WE
3 WANTED TO MAKE THAT CHANGE BECAUSE WE WANT TO REALLY
4 ENCOURAGE MULTI-INSTITUTIONAL COLLABORATIONS THROUGH
5 THIS PROGRAM.

6 IN TERMS OF PROJECT ELIGIBILITY, IN ORDER
7 FOR SOMEONE TO APPLY, THEIR PROJECT MUST ADDRESS KEY
8 KNOWLEDGE GAPS OR RESEARCH BOTTLENECK THAT COULD
9 LEAD TO ONE OR MORE OF THE EXPECTED OUTCOMES THAT I
10 HIGHLIGHTED EARLIER. IT SHOULD FOCUS ON STUDIES
11 THAT EMPLOY HUMAN STEM CELLS AND/OR GENETIC RESEARCH
12 AS PART OF THE CENTRAL APPROACH OR HYPOTHESIS. AND
13 IF IT'S NECESSARY TO USE ANY NONHUMAN MODELS,
14 PROVIDE A STRONG JUSTIFICATION FOR THAT.

15 IN TERMS OF TEAM ELIGIBILITY, AS I
16 MENTIONED, IT'S OPEN TO ALL CALIFORNIA RESEARCH
17 INSTITUTIONS WHETHER THEY BE NON-PROFIT OR
18 FOR-PROFIT. THE CORE TEAM MUST COMPRISE TWO
19 CALIFORNIA-BASED INVESTIGATORS THAT BOTH CONTRIBUTE
20 AT LEAST 5-PERCENT EFFORT. THE DIFFERENCE IN
21 DESIGNATION IS THAT THE PRINCIPAL INVESTIGATOR IS
22 THE ONE WHO ACTS AS THE MAIN POINT OF CONTACT WITH
23 CIRM STAFF FOR ADMINISTRATIVE PURPOSES. AT THE
24 LEVEL OF SCIENTIFIC LEADERSHIP, BOTH OF THESE
25 INVESTIGATORS ARE CONTRIBUTING EQUALLY TO THE

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1 PROJECT.
2 IN TERMS OF THE APPLICATION REVIEW
3 PROCESS, DISC5 WILL UTILIZE THE ESTABLISHED
4 TWO-STAGE REVIEW PROCESS THAT WE HAVE BEEN USING FOR
5 SEVERAL YEARS NOW FOR OUR DISCOVERY STAGE PROGRAMS,
6 WHICH ALLOWS US TO EFFECTIVELY MANAGE HIGH
7 APPLICATION VOLUMES BECAUSE WITH THESE DISCOVERY
8 PROGRAMS THAT WE'LL SEE HOPEFULLY. AND IN ADDITION
9 SOME IMPROVEMENTS AND ENHANCEMENT TO OUR REVIEW
10 PROCESS WILL ENHANCE WEIGHT AND VISIBILITY FOR
11 INNOVATION. AS WE MENTIONED, WE WANT TO INCREASE
12 THE LIKELIHOOD OF HIGH RISK, HIGH REWARD PROPOSALS
13 RECEIVING MERITORIOUS FUNDING DECISIONS, AND IMPROVE
14 GRANULARITY AND VISIBILITY FOR SCORE-DRIVING
15 DECISIONS.

16 NOW, OTHER ATTRIBUTES AND IMPROVEMENTS
17 INCLUDE MAINTAINING THE DATA SHARING AND MANAGEMENT
18 PLAN REQUIREMENT THAT WAS INTRODUCED IN OUR
19 DISCOVERY-0 OR FOUNDATIONAL AWARD PROGRAM AND
20 CONTINUING TO ITERATE ON THE DATA SHARING AND
21 MANAGEMENT IMPROVEMENTS AS CIRM DEVELOPS ITS DATA
22 SHARING INFRASTRUCTURE. AND THAT, OF COURSE,
23 INVOLVES REQUIRING THE COORDINATION WITH CIRM'S DATA
24 INITIATIVES.

25 THIS IS JUST A SNAPSHOT OF THE TIMELINE

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1 THAT DR. NOBLIN PRESENTED EARLIER SHOWING THAT IF
2 THIS CONCEPT IS APPROVED AT THE MARCH BOARD MEETING,
3 WE WOULD MOVE ON TO POSTING THE PROGRAM ANNOUNCEMENT
4 SHORTLY THEREAFTER AND OPENING THE COMPETITION SUCH
5 THAT APPLICATIONS WOULD BE RECEIVED IN NOVEMBER. I
6 KNOW NOVEMBER MIGHT SEEM LIKE A WAYS AWAY, BUT I
7 ALSO WANT TO REMIND YOU THAT WE HAVE OUR DISC-0
8 FUNDING OPPORTUNITY THAT HAS APPLICATIONS DUE IN
9 APRIL. SO WE DO HAVE OPPORTUNITIES THROUGHOUT THE
10 YEAR FOR SMALL TEAMS AND SMALLER SCALE PROJECTS TO
11 APPLY FOR SUPPORT OF THEIR NOVEL AND INNOVATIVE
12 PROJECTS THROUGH OUR PROGRAMS.

13 AND WITH THAT, WE WOULD REQUEST A MOTION
14 THAT THE SCIENCE COMMITTEE/NEURO TASK FORCE
15 RECOMMEND APPROVAL TO THE FULL ICOC OF THIS DISC5
16 CONCEPT. BUT BEFORE THAT, I'D BE HAPPY TO TAKE ANY
17 QUESTIONS THAT WOULD HELP YOUR DISCUSSION.

18 DR. SOUTHARD: THAT WE BE -- OH, THERE'S A
19 QUESTION. PAT HAS A QUESTION.

20 DR. LEVITT: DO YOU WANT ME TO WAIT UNTIL
21 THERE'S A MOTION AND THEN COMMENT? I'M FINE WITH
22 THAT.

23 MR. TOCHER: NO, PAT. YOU CAN PROCEED
24 WITH YOUR QUESTION, AND THEN JUDY WILL FOLLOW.

25 DR. LEVITT: SO I WENT THROUGH THE SLIDES

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1 AGAIN, AND WE HAD THIS CONVERSATION. WE HAD THE
2 PREMEETING. THIS IS LIKE ONE OF THE REMIND -- THIS
3 IS THE SMALLER VERSION OF THE REMIND THAT'S BEEN
4 QUITE SUCCESSFUL, WHICH IS THE INVESTMENTS IN
5 NEURO-RELATED RESEARCH IN ACCORDANCE WITH
6 PROPOSITION 14. THE SLIDES THAT I REVIEWED, NEURO
7 IS BEING INTEGRATED WITHIN THIS AND THE OTHER
8 APPROACHES THAT WE'RE GOING TO HEAR ABOUT.

9 I'M ALL IN FAVOR OF THE APPROACH. I'M
10 STILL QUITE WORRIED ABOUT WE HAVE A PROPOSITION THAT
11 HAS AN IDENTIFICATION OF A SPECIFIC DOMAIN OF
12 INVESTMENT THAT'S QUITE SIZABLE. WE HAVE A TASK
13 FORCE THAT WAS IMPLEMENTED TO DEAL WITH THAT
14 SPECIFICALLY SEPARATE FROM THE SCIENCE SUBCOMMITTEE.
15 BUT WE HAVE, FROM MY PERSPECTIVE, A MISALIGNMENT IN
16 TERMS OF WHAT WE'RE GOING TO DO WITH THESE NEW
17 FUNDING APPROACHES.

18 THE FUNDING APPROACHES ARE GREAT, BUT I
19 THINK, FROM MY PERSPECTIVE, IT'S NOT ALIGNED WITH
20 WHAT WE KNOW ARE THINGS THAT WE'RE GOING TO HAVE TO
21 ACCOMPLISH WITHIN A RELATIVELY MODEST PERIOD OF
22 TIME. SO I DON'T KNOW HOW TO ADDRESS THIS OTHER
23 THAN TO SAY THAT I'M CONCERNED ABOUT THIS
24 MISALIGNMENT.

25 DR. CANET-AVILES: THANK YOU, PAT. SO AS

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1 PART OF THE -- WE HAVEN'T YET GONE THROUGH THE DISC4
2 PRESENTATION. AND FOR THIS ONE WE ARE AN ALL
3 ENCOMPASSING SCOPE OF THE APPLICATIONS, AND THIS IS
4 A SMALLER AMOUNT OF MONEY. THEY ARE IN SCALE MUCH
5 SMALLER AWARDS. I THINK THAT THE NEURO TASK FORCE
6 DISCUSSION OF PREFERENCES COULD HAVE A SWING INTO
7 THE DISC4. WE ARE GOING TO GO -- DR. LEK TAN IS
8 GOING TO BE PRESENTING THIS. AND IN THAT CASE THERE
9 ARE SOME AREAS, PREFERENCES THAT WE COULD SET UP
10 THAT WOULD VERY MUCH ALIGN WITH THE NEURO TASK
11 FORCE. AND I THINK THERE ARE DIFFERENT LEVELS OF
12 OPPORTUNITIES OF WHERE WE CAN DO THAT.

13 ANOTHER COMMENT I WOULD LIKE TO MAKE IS
14 THAT IN TERMS OF SPENDING, AND I KNOW THIS DOES NOT
15 ANSWER EVERYTHING, BUT AT THE RATE WE ARE SPENDING
16 ON NEURO PROJECTS, WE ARE RIGHT NOW OVER THE -- IF
17 WE KEEP GOING AT THIS RATE, BY THE TIME CIRM COULD
18 END ITS FUNDING, WE COULD HAVE OVERSPENT OVER \$1.5
19 BILLION FOCUSED ON NEURO.

20 NOW, THE KEY HERE, WHAT YOU'RE ASKING US,
21 IS WHAT'S THE STRATEGY. THE STRATEGY STARTED WITH
22 THE NEURO TASK FORCE UNDERSTANDING THERE WAS NO
23 FOCUS OR INVESTMENT IN NEUROPSYCHIATRIC DISORDERS.
24 WE DID THE DISC4 REMIND-L FOCUS ON THAT. AND THEN
25 NOW WHAT WE ARE BRINGING TO YOU TODAY USING THAT

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1 SAME MODEL IS A SERIES OF PROGRAMS. THIS ONE DOES
2 NOT HAVE FOCUS, BUT THE NEXT ONE HAS THE POSSIBILITY
3 FOR FOCUS. SO WE COULD HAVE THAT DISCUSSION AFTER
4 CHAN'S PRESENTATION, AND I THINK THAT MIGHT BE A
5 PLACE WHERE THE BOARD AND THE NEURO TASK FORCE
6 DECIDES THEY WANT TO HAVE MORE OF A SAY IN THE
7 FOCUS. THAT'S WHAT I COULD SUGGEST.

8 DR. LEVITT: OKAY. IF IT'S GOING TO BE
9 TAKEN UP IN THAT WAY, I'M FINE WITH THAT. I DON'T
10 WANT TO DELAY ANYTHING BECAUSE I THINK THE
11 APPROACHES, WHICH ARE A MIRROR FOR WHAT WAS DONE
12 WITH THE REMIND, BOTH THE L AND THE REMIND-L AND THE
13 REMIND WHATEVER THE OTHER LETTER IS. BUT IT'S
14 BASICALLY THE SAME PROGRAMS, AND THEY WORK REALLY
15 WELL. AND YOU MENTIONED IT ALREADY. NEURO AS A
16 CATCHALL IS THE MOST DIVERSE AREA OF INVESTIGATION
17 BECAUSE IT GOES EVERYTHING FROM ONCOLOGY TO
18 METABOLISM. AND IT'S ENORMOUS.

19 AND SO I GET THAT WE'RE GOING TO MEET THE
20 GOALS OF 1.4 BILLION, BUT THE TASK FORCE IDENTIFIED
21 CERTAIN AREAS THAT WERE WAY UNDERINVESTED. AND
22 THAT'S WHAT I'M MOST CONCERNED ABOUT. SO IF WE TAKE
23 IT UP LATER, I'M FINE WITH THAT AS LONG AS IT'S ON
24 THE AGENDA, WE TAKE IT UP, AND WE'RE SERIOUS ABOUT
25 TRYING TO ADDRESS THE DEFICIENCIES IN SPECIFIC

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1 AREAS, INCLUDING THOSE THAT WERE CALLED OUT IN
2 PROPOSITION 14, BY THE WAY, SO NOT MY LANGUAGE. IT
3 WAS IN THE PROP. OKAY?

4 DR. CANET-AVILES: ABSOLUTELY. THANK YOU,
5 PAT, FOR THE POINT.

6 ONE MORE POINT I FORGOT TO MENTION IS THAT
7 PART OF WHAT WAS STARTED WITH THE MODEL OF THE NEURO
8 TASK FORCE HAS NOW BEEN EXTENDED TO THIS
9 PREFERENCE-SETTING EXERCISE. FOR THE PURPOSE OF
10 THIS YEAR, BECAUSE OF THE PASSING OF THE TIME, WE
11 ARE PRESENTING IT IN TWO PARTS. HALF OF IT IS
12 IMPLEMENTED IN THE CONTEXT OF THE CONCEPT
13 PRESENTATION. THE OTHER HALF WILL COME IN JUNE WHEN
14 WE PROVIDE THE FORMALIZED PORTFOLIO PERFORMANCE
15 REVIEW AND A COMPREHENSIVE ASSESSMENT OF WHERE ARE
16 WE WITH AWARDS AND WHAT ARE THE CURRENT GAPS WITH
17 THE LANDSCAPE AS WELL. AND THE BOARD, THE NEURO
18 TASK FORCE, AND SCIENCE SUBCOMMITTEE WILL HAVE A
19 CHANCE TO REVIEW PROPOSED ADJUSTMENTS TO FUNDING
20 PRIORITIES WHICH WOULD THEN BE INCORPORATED INTO THE
21 NEXT CYCLES OF OUR PROGRAM ANNOUNCEMENTS.

22 SO I THINK YOU ARE RIGHT ON THE SPOT AS
23 ALWAYS, AND WE REALLY APPRECIATE WHAT YOU ARE
24 SAYING. AND I HOPE THAT IN THE NEXT PRESENTATION
25 THERE IS A BIT OF A CHANCE TO DISCUSS THAT FOCUS.

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1 DR. LEVITT: THAT SOUNDS GREAT. THANKS,
2 ROSA.

3 MR. TOCHER: JUDY GASSON.

4 DR. GASSON: THANK YOU VERY MUCH. AND I
5 ENDORSE WHAT PAT JUST SAID, BUT I HAD A SLIGHTLY
6 DIFFERENT QUESTION. AND COULD YOU, FOR THE BENEFIT
7 OF FOLKS THAT ARE NEW TO THIS COMMITTEE OR MEMBERS
8 OF THE PUBLIC, CAN YOU REMIND US HOW THE TWO-STEP
9 REVIEW PROCESS WORKS PLEASE?

10 DR. SHEPARD: YES, I CAN.

11 DR. GASSON: THANK YOU.

12 DR. SHEPARD: SO THE WAY IT WORKS IS THAT
13 APPLICANTS WILL SUBMIT A FULL APPLICATION AND CIRM
14 WILL RECEIVE THEM ALL. AND IF IT EXCEEDS A CERTAIN
15 NUMBER, THEN THIS TWO-STEP PROCESS KICKS IN. AND
16 THE FIRST STEP IS A STEP CALLED POSITIVE SELECTION.
17 SO WHAT HAPPENS IS THE APPLICATIONS ARE PUT INTO A
18 POOL THAT ARE THEN VIEWED BY MEMBERS OF THE GRANTS
19 WORKING GROUP WHO WILL GO THROUGH AND LOOK AT THEM,
20 AND THEY WILL EACH BE GIVEN A CERTAIN NUMBER OF
21 CHOICES TO MAKE SELECTIONS. THOSE CHOICES ARE THEN
22 FORWARDED TO THE SECOND STAGE OF REVIEW, WHICH IS
23 THE TRADITIONAL GWG REVIEW WHERE THERE'S A FULL SET
24 OF DISCUSSION AND COMMENTS AND CRITIQUES AND SCORES.
25 SO APPLICATIONS THAT DON'T MAKE IT THROUGH

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1 THAT FIRST STEP ARE DEEMED TO BE DENIED. THEY DON'T
2 RECEIVE A SCORE. BUT THOSE THAT MAKE IT THROUGH TO
3 THE SECOND STAGE DO RECEIVE A SCORE AND CRITIQUES
4 THAT THEY CAN ADDRESS IF THEY CONSIDER APPLYING WITH
5 A SIMILAR PROJECT IN THE FUTURE EDITION OF THE
6 PROGRAM.

7 THERE'S ALSO A STEP WHERE PATIENT ADVOCATE
8 MEMBERS OF CIRM'S GOVERNING BOARD CAN MAKE
9 SELECTIONS DURING THE FIRST PHASE OF REVIEW. SO
10 THEY CAN ADD SOME TO THE POOL. AND THE CIRM STAFF
11 HAS A ROLE TO LOOK THROUGH ANYTHING THAT WASN'T
12 SELECTED TO MAKE SURE THAT THERE ISN'T ANYTHING
13 HIGHLY IMPACTFUL OR MERITORIOUS THAT MIGHT HAVE BEEN
14 OVERLOOKED THAT MIGHT ALSO BE ABLE TO BE REVIEWED IN
15 THAT POOL.

16 CHAIRMAN FISCHER-COLBRIE: WITH THAT, IF
17 WE MIGHT -- OH, I'M SORRY, JUDY. I'M SORRY. GO
18 AHEAD.

19 MR. TOCHER: NO, MARK. I THINK THAT WAS
20 INTERNAL HERE IN THE ROOM.

21 CHAIRMAN FISCHER-COLBRIE: OH, SORRY ABOUT
22 THAT. ANY ADDITIONAL -- IF THERE ARE NO ADDITIONAL
23 COMMENTS OR QUESTIONS, WE CAN MOVE TO THE MOTION,
24 GET A MOTION FROM THE COMMITTEE.

25 DR. SOUTHARD: MOVE APPROVAL.

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1 VICE CHAIR BONNEVILLE: SECOND.

2 MR. TOCHER: OKAY. WE HAVE A MOTION TO
3 APPROVE -- RECOMMEND APPROVAL TO THE BOARD FROM MARV
4 SOUTHARD, SECONDED BY MARIA BONNEVILLE.

5 CHAIRMAN FISCHER-COLBRIE: GREAT. JUST TO
6 CLOSE IT OUT, ANY OTHER COMMENTS OR QUESTIONS FROM
7 THE COMMITTEE BEFORE WE ASK THE PUBLIC?

8 MR. TOCHER: I DON'T SEE ANY.

9 CHAIRMAN FISCHER-COLBRIE: NOTHING?

10 MR. TOCHER: CORRECT.

11 CHAIRMAN FISCHER-COLBRIE: OKAY. AND THEN
12 WE CAN ASK ANYTHING FROM THE PUBLIC IN TERMS OF
13 QUESTIONS OR COMMENTS.

14 MR. TOCHER: FROM THE PUBLIC, WE'RE
15 LOOKING. I DON'T SEE ANY. NO. IT APPEARS NO
16 COMMENT FROM THE PUBLIC.

17 CHAIRMAN FISCHER-COLBRIE: OKAY. WITH
18 THAT, LET'S GO AHEAD WITH THE ROLL CALL ROTE.

19 MR. TOCHER: MARIA BONNEVILLE.

20 VICE CHAIR BONNEVILLE: YES.

21 MR. TOCHER: LEONDRA CLARK-HARVE.

22 DR. CLARK-HARVEY: YES.

23 MR. TOCHER: DEBORAH DEAS.

24 DR. DEAS: YES.

25 MR. TOCHER: MARK FISCHER-COLBRIE.

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1 CHAIRMAN FISCHER-COLBRIE: YES.
2 MR. TOCHER: ELENA FLOWERS.
3 DR. FLOWERS: YES.
4 MR. TOCHER: JUDY GASSON.
5 DR. GASSON: YES.
6 MR. TOCHER: JEFF GOLDEN.
7 DR. GOLDEN: YES.
8 MR. TOCHER: DAVID HIGGINS.
9 DR. HIGGINS: YES.
10 MR. TOCHER: VITO IMBASCIANI.
11 CHAIRMAN IMBASCIANI: YES.
12 MR. TOCHER: PAT LEVITT.
13 DR. LEVITT: YES.
14 MR. TOCHER: CAROLYN MELTZER.
15 DR. MELTZER: YES.
16 MR. TOCHER: CHRIS MIASKOWSKI.
17 DR. MIASKOWSKI: YES.
18 MR. TOCHER: MARV SOUTHARD.
19 DR. SOUTHARD: YES.
20 MR. TOCHER: KAROL WATSON.
21 DR. WATSON: YES.
22 MR. TOCHER: KEITH YAMAMOTO.
23 DR. YAMAMOTO: YES.
24 MR. TOCHER: THANKS VERY MUCH. THE MOTION
25 CARRIES UNANIMOUSLY.

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1 DR. SHEPARD: THANK YOU, EVERYONE.

2 CHAIRMAN FISCHER-COLBRIE: LET'S GET ON TO
3 THE NEXT DISCUSSION. THANK YOU.

4 DR. LEK TAN: HI. THANK YOU, KELLY. AND
5 GOOD AFTERNOON TO MEMBERS OF THE BOARD. MY NAME IS
6 CHAN LEK TAN. AND FOR THE NEXT SECTION, I WILL
7 PROVIDE AN OUTLINE OF THE AMENDMENTS TO THE
8 DISCOVERY4 CONCEPT.

9 AGAIN, WE WILL USE THE SAME OUTLINE
10 STARTING WITH THE BACKGROUND TO THE CONCEPT COVERING
11 THE HIGH LEVEL OVERVIEW OF KEY ELEMENTS OF THE AWARD
12 STRUCTURE, AND WE'LL END WITH A TIMELINE AND A
13 REQUEST FOR A MOTION TO RECOMMEND.

14 JUST A QUICK REMINDER AGAIN THAT BOTH
15 DISCOVERY CONCEPTS ARE GUIDED BY GOAL 1 AND THE
16 CORRESPONDING RECOMMENDATION TO SUPPORT
17 COMPREHENSIVE DISCOVERY RESEARCH THROUGH THESE TWO
18 FUNDING STRUCTURES. THE GOAL IS TO PROVIDE
19 SCIENTIFIC FINDINGS THAT WILL LAY THE FOUNDATION FOR
20 FUTURE THERAPEUTIC DEVELOPMENT, INCLUDING THROUGH
21 FUTURE PRECLINICAL DEVELOPMENT AT CIRM.

22 AS KELLY HAS DESCRIBED, WE HAVE
23 ARTICULATED A SIMPLE, COMMON OBJECTIVE FOR BOTH
24 DISC4 AND DISC5 BASED ON THE RECOMMENDATION ITSELF.
25 THE APPROACH THAT DISC4 CONCEPTS WILL TAKE IS ONE

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1 THAT IS COMPLEMENTARY TO WHAT YOU HAVE JUST HEARD
2 HAD FROM KELLY FOR DISC5.

3 DISC4 BUILDS ON THE REMIND PROGRAM TO
4 SUPPORT LARGE, COLLABORATIVE TEAMS THAT HAVE
5 EXPANSIVE STUDIES THAT INTEGRATE MULTIPLE
6 DISCIPLINES AND APPROACHES WITH A FOCUS ON DISCOVERY
7 OF -- WITH A FOCUS ON DISEASE BIOLOGY IN ORDER TO
8 FACILITATE TARGET AND BIOMARKER IDENTIFICATION.

9 ONCE AGAIN, BOTH DISCOVERY PROGRAMS WILL
10 MAKE IT EASIER FOR PROGRAM INFRASTRUCTURE, SOME OF
11 WHICH ARE BEING PILOTED RIGHT NOW WITH THE REMIND
12 PROGRAM, INCLUDING GRANTEE MEETINGS, DATA SHARING
13 INFRASTRUCTURE, AND POTENTIAL TO LEVERAGE INTERNAL
14 AND EXTERNAL PARTNERSHIPS TO INCREASE SCIENTIFIC
15 IMPACT AND THE POTENTIAL FOR TRANSLATION.

16 AND JUST TO RETURN TO THE FOCUS ON DISC4,
17 THE RATIONALE BEHIND THIS PROGRAM AND THE REMIND
18 PROGRAM BEFORE THIS IS THAT, DESPITE THE NEW
19 THERAPEUTIC PLATFORMS AND MODALITIES, SOUND TARGETS
20 BASED ON STRONG BIOLOGICAL UNDERSTANDING REMAINS ONE
21 OF THE MOST IMPORTANT BOTTLENECKS TO TREATMENTS.
22 LARGELY THIS IS DUE TO THE COMPLEXITY OF DISEASE
23 BIOLOGY. SO THE TEAM AND THE BOARD ACKNOWLEDGES
24 THAT APPROACHES THAT INTEGRATE THINGS FROM MULTIPLE
25 DISCIPLINES AND COMPLEMENTARY APPROACHES IS THE KEY

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1 TO SUCCESS HERE.

2 DISC4 WILL APPLY THIS MULTIDISCIPLINARY
3 APPROACH TO THE UNDERSTANDING OF DISEASE BIOLOGY.
4 PROPOSALS MUST AIM TO ACHIEVE ONE OR MORE OF THE
5 FOLLOWING OUTCOMES. BETTER UNDERSTANDING OF HUMAN
6 DISEASE BIOLOGY THROUGH NOVEL MECHANISTIC INSIGHTS.
7 EXTENDING OUR UNDERSTANDING OF DISEASE MECHANISMS TO
8 DIVERSE HUMAN POPULATIONS. AND ULTIMATELY
9 IDENTIFYING AND VALIDATING NOVEL THERAPEUTIC
10 TARGETS, STRATEGIES, AND/OR BIOMARKERS.

11 AND AS YOU'VE HEARD, DISC4 BUILDS ON THE
12 FRAMEWORK THAT WE PILOTED THROUGH THE REMIND
13 PROGRAM, SPECIFICALLY THE REMIND-L AWARD THAT HAD A
14 FOCUS ON NEUROPSYCHIATRIC DISORDERS SUCH AS
15 SCHIZOPHRENIA AND AUTISM.

16 AND THE TWO MAJOR CHANGES THAT WE ENVISION
17 HERE GOING FROM REMIND TO DISC4 IS, FIRST, THE
18 EXPANSION OF THE SCOPE TO SUPPORT NOT JUST OTHER
19 DISEASE AREAS, BUT ALSO TO TAKE A SYSTEMS BIOLOGY
20 APPROACH THAT HAS THE POTENTIAL TO ALLOW TEAMS TO
21 CUT ACROSS DISEASE -- TRADITIONAL SILOS AS WELL AS
22 DISEASE INDICATIONS.

23 THE SECOND SET OF CHANGES SEEKS TO BETTER
24 POSITION TEAMS FOR READINESS FOR TARGET VALIDATION
25 BY THE END OF THE AWARD PERIOD. WE DON'T WANT TO BE

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1 DETRACTING FROM THE CORE FOCUS ON DISEASE BIOLOGY
2 INSIGHTS SO THAT NEW DISCOVERIES CAN BE MORE RAPIDLY
3 TRANSLATED INTO PRECLINICAL EFFORTS. AND THIS IS
4 IMPLEMENTED THROUGH A SERIES OF SMALLER CHANGES
5 ACROSS THE PROGRAM DESIGN, MANY OF WHICH WILL NOT BE
6 TOUCHED UPON TODAY, BUT WOULD INCLUDE THINGS LIKE
7 THE APPLICATION MATERIALS, THE REVIEW PROCESS, AND
8 BOARD MANAGEMENT.

9 SO THIS SLIDE SUMMARIZES ALL THE MAJOR
10 ELEMENTS OF THE AWARD STRUCTURE. MUCH OF IT IS
11 PRESERVED FROM THE REMIND PROGRAM. IN BOLD ARE THE
12 ELEMENTS WHERE THE CHANGES HAVE BEEN MADE, AND WE
13 WILL SAY MORE ABOUT EACH OF THOSE IN TURN IN A BIT.

14 JUST TO RECAP, THIS IS A FOUR-YEAR AWARD
15 FOR TEAMS OF FIVE OR MORE CALIFORNIA-BASED
16 INVESTIGATORS WITH ONE CONTACT PI AND AT LEAST FOUR
17 CO-INVESTIGATORS. THE BASE BUDGET IS FOR \$13
18 MILLION IN TOTAL COSTS, AND WE EXPECT TO FUND SIX
19 TEAMS A YEAR FOR AN ANNUAL BUDGET OF \$84 MILLION.

20 AND JUST TO GO INTO THE AWARD BUDGET A
21 LITTLE BIT MORE, THESE AWARD BUDGETS ARE CAPPED AT A
22 BASE OF \$13 MILLION IN TOTAL COST INCLUSIVE OF
23 OVERHEADS. IN ALIGNMENT WITH DISC5, WE ARE ALSO
24 MOVING FROM A DIRECT COST CAP IN THE REMIND PROGRAM
25 TO NOW A TOTAL COST CAP TO ALIGN BOTH WITH DISCOVERY

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1 AND ACROSS CIRM MORE BROADLY AND HAS THE IMPORTANT
2 SIDE EFFECTS OF REMOVING DISINCENTIVES FOR
3 MULTI-INSTITUTIONAL TEAMS. SO WE GET TO THIS NUMBER
4 BY APPLYING THE SAME DIRECT COST CAP TO REMIND AT \$8
5 MILLION AND APPLYING A 62-PERCENT OVERHEAD RATE,
6 WHICH IS JUST ABOVE THE ACTUAL AVERAGE OVERHEAD
7 RATES OF 60 PERCENT HISTORICALLY.

8 SIMILAR TO REMIND, AN ADDITIONAL \$1
9 MILLION IN TOTAL COST CAN BE REQUESTED WITH THE
10 CONTRIBUTION OF ELIGIBLE MATCHING FUNDS OF EQUAL OR
11 GREATER VALUE.

12 SO ELIGIBLE PROJECTS IN THIS AWARD MUST
13 ADDRESS KNOWLEDGE GAPS OR BOTTLENECKS IN THE
14 UNDERSTANDING OF HUMAN DISEASES. TO ENSURE
15 ALIGNMENT WITH CIRM'S MISSION, THE OVERALL PROJECT
16 MUST ALSO INCLUDE STUDIES THAT EMPLOY HUMAN STEM
17 CELLS AND/OR GENETIC RESEARCH AS PART OF THE CENTRAL
18 APPROACH OR HYPOTHESIS. ALTHOUGH, GIVEN THE
19 STRUCTURE OF THE PROGRAM, APPLICANTS ARE ENCOURAGED
20 TO INTEGRATE A VARIETY OF APPROACHES, MODELS, AND
21 TECHNOLOGIES TO MAXIMIZE SCIENTIFIC IMPACT.

22 AND AS WITH ALL OUR PROGRAMS, THESE AWARDS
23 MUST BE CENTERED ON HUMAN BIOLOGY AND EMPLOY
24 HUMAN-DERIVED CELLS, TISSUES WHERE POSSIBLE.
25 APPLICANTS MAY INCLUDE NONHUMAN MODELS TO ACHIEVE

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1 SPECIFIC OBJECTIVES, BUT MUST, IN TURN, PROVIDE
2 STRONG JUSTIFICATION FOR ANY SUCH USE OF NONHUMAN
3 MODELS.

4 THE AWARD IS OPEN TO CALIFORNIA-BASED
5 NON-PROFIT OR FOR-PROFIT ORGANIZATIONS. EACH TEAM
6 HAS A SCIENTIFIC LEADERSHIP OF WHAT WE CALL A CORE
7 TEAM WITH A MINIMUM OF FIVE INVESTIGATORS, A CONTACT
8 PI, AND FOUR OR MORE CO-INVESTIGATORS.

9 IN CONTRAST TO REMIND, WE ARE ALSO
10 REQUIRING AT LEAST ONE MEMBER OF THE CORE TEAM TO
11 COME FROM INSIDE OF THE PI INSTITUTION.

12 THE BROADER TEAM, WHICH INCLUDES KEY
13 PERSONS IN ADDITION TO THE CORE TEAM, MUST INCLUDE
14 ONE MEMBER OF EACH WITH THE RELEVANT CLINICAL,
15 COMPUTATIONAL, AND INDUSTRY AND TRANSLATIONAL
16 EXPERTISE AS WELL. IN ADDITION, ALL TEAMS MUST HAVE
17 A DATA PROJECT MANAGER THAT WILL WORK WITH CIRM TO
18 ENSURE DATA SHARING VIA REPORTING. WE HAVE A
19 15-PERCENT AND 10-PERCENT EFFORT MINIMUM FOR THE
20 INVESTIGATORS AND THAT IS UNCHANGED.

21 SO AN IMPORTANT CHALLENGE THAT WE FACE
22 WITH EXPANDING THE SCOPE FROM REMIND WHICH HAD A
23 NARROW FOCUS ON NEUROPSYCHIATRIC DISEASES TO AN
24 OPPORTUNITY THAT'S AVAILABLE TO RESEARCHERS ACROSS
25 ALL DISEASE AREAS AS WELL AS RESEARCH THAT CUTS

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1 ACROSS DISEASE INDICATIONS. THIS INVOLVED A BALANCE
2 OF SEVERAL FACTORS, NOT LEAST OF ALL THE POTENTIAL
3 FOR HIGH APPLICATION VOLUMES. AND WE NEED TO ENSURE
4 THAT REVIEW PANELS WITH SUFFICIENTLY FOCUSED
5 EXPERTISE. AND MORE IMPORTANTLY WE WANTED TO
6 PRESERVE MANY OF THE KEY ADVANTAGES AND POTENTIAL
7 FOR IMPACT THAT WERE PRESENT WITH THE MORE FOCUSED
8 APPROACH.

9 SO IN LIGHT OF THESE CONSIDERATIONS AND
10 FOLLOWING BOARD MEMBER FEEDBACK, THE DISC4 AWARD
11 WILL BE OPEN TO ALL ELIGIBLE APPLICATIONS WITHOUT
12 RESTRICTIONS IN TOPIC OR DISEASE. SO PARTICULARLY
13 EXCITING OR IMPACTFUL PROPOSALS WILL FIND A CHANCE
14 TO BE REVIEWED IN ANY CYCLE.

15 IN ADDITION, WE PROPOSE THAT SELECT
16 RESEARCH TOPICS BE PRIORITIZED EACH YEAR. AND THIS
17 PROCESS WILL TAKE THE FOLLOWING FORM. CIRM TEAM
18 WILL PRESENT RECOMMENDATIONS TO THE SCIENCE
19 SUBCOMMITTEE FOR FUNDING PREFERENCES ANNUALLY. AND
20 WE'LL GIVE YOU SOME OF THOSE RECOMMENDATIONS ON THE
21 NEXT SLIDE. AND THIS COMMITTEE WILL THEN BE SENDING
22 THOSE RECOMMENDATIONS TO THE ICOC FOR APPROVAL, AND
23 THOSE PREFERENCE TOPICS WILL BE INCORPORATED INTO
24 THE PROGRAM ANNOUNCEMENT FOR THE SUBSEQUENT CYCLE.

25 THIS WILL ALLOW US TO MAXIMIZE THE

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1 POTENTIAL FOR SYNERGY ACROSS TEAMS AS WE HAD FOR
2 REMIND. INCREASE THE POTENTIAL TO LEVERAGE COMMON
3 EXTERNAL PARTNERSHIPS. AND CAPITALIZE ON
4 OPPORTUNITIES IN THE EVOLVING RESEARCH LANDSCAPE AND
5 ADDRESS POTENTIAL PORTFOLIO GAPS AS WELL.

6 SO FOR THIS FIRST CYCLE, THE TEAM HAS
7 CONSIDERED A BROAD SET OF PREFERRED TOPICS AS SHOWN
8 HERE. THIS IS SIMILAR -- WE HAVE TAKEN A PROCESS
9 THAT IS SIMILAR TO THE SELECTION OF NEUROPSYCHIATRIC
10 DISEASES -- THAT LED TO THE SELECTION OF
11 NEUROPSYCHIATRIC DISEASES AS THE PILOT FOCUS AREA BY
12 THE NEUROSCIENCE TASK FORCE. AND THESE ARE
13 CONSIDERED A RELATIVE REPRESENTATION OF THESE TOPICS
14 IN OUR EXISTING PORTFOLIO, THE RELEVANCE OF THESE
15 TOPICS TO DISEASES OF HIGH UNMET NEED AND BURDEN,
16 AND OPPORTUNITIES FOR LEVERAGING NEW ADVANCES IN
17 STEM CELL MODELS.

18 SO I WON'T READ ALL THE TOPICS THAT WE'VE
19 CONSIDERED. BUT FOR THIS NEXT CYCLE, CIRM STAFF
20 RECOMMENDS TO INCLUDE A PREFERENCE FOR APPLICATIONS
21 INVESTIGATING THE FIRST CATEGORY SHOWN HERE, THAT OF
22 METABOLIC PHYSIOLOGY, THE INFLUENCE OF DIET OR
23 MICROBIOME ON DISEASE BIOLOGY AND HEALTH, AND
24 APPLICATIONS THAT SEEK TO UNDERSTAND THE BIOLOGY OF
25 THE GI TRACT, LIVER, KIDNEY, PANCREAS, OR ENDOCRINE

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1 ORGANS, INCLUDING ADIPOSE TISSUE.

2 SO WE CAME TO THIS RECOMMENDATION FOR A
3 NUMBER OF REASONS. FIRST, THIS TOPIC HAS LOWER
4 REPRESENTATION IN CIRM'S PORTFOLIO THAN OTHER TOPICS
5 SHOWN HERE. ALTHOUGH THIS AWARD WILL CUT ACROSS
6 DISEASE TYPES, SOME OF THE MOST RELEVANT DISEASES IN
7 THIS AREA INCLUDE HYBRID INDICATIONS LIKE DIABETES,
8 FATTY LIVER DISEASE. AND AS DATA EMERGES FROM SOME
9 OF THE MORE WELL-KNOWN DRUG INDICATIONS NOW AND THE
10 EFFECTS ON OBESITY AND METABOLIC SYNDROME, THERE
11 MIGHT BE A POSSIBILITY THAT UNDERSTANDING THESE
12 AREAS WOULD HAVE A BROADER IMPACT ON OTHER DISEASE
13 AREAS AS WELL.

14 AND FINALLY, WE WANTED TO HIGHLIGHT THAT
15 THIS PARTICULAR RESEARCH TOPIC AREA, WE EXPECT TO
16 HAVE A SLIGHTLY LOWER APPLICATION VOLUME COMPARED TO
17 THE OTHER TOPICS SHOWN HERE WHICH WOULD ALSO ALLOW
18 US TO PILOT OUR NEW FRAMEWORK AND TO TROUBLESHOOT
19 SOME OF OUR INTERNAL PROCESSES AS WELL.

20 SO SIMILAR TO THE REMIND -- TO SOME
21 PROGRAMS IN THE PAST AND THE CONCEPTS THAT YOU WILL
22 HEAR ABOUT LATER TODAY, THIS PROGRAM WILL IMPLEMENT
23 A PRESUBMISSION PROCESS TO ENSURE THAT APPLICATIONS
24 ALIGN WITH PROGRAM SCOPE, OBJECTIVES, AND HELP US
25 PRIORITIZE PROPOSALS IN THE CHOSEN PREFERENCE TOPIC

1 AREA.

2 THIS PROCESS WILL ALSO REDUCE TIME BURDEN
3 FOR APPLICANTS, ESPECIALLY THOSE WITH POOR FIT FOR
4 THIS PROGRAM WHILE THE EXTENDED TIMELINE, WE HOPE,
5 WILL ALSO ALLOW APPLICANTS TO FORM NEW
6 COLLABORATIONS THAT COULD LEAD TO MORE IMPACTFUL
7 PROPOSALS.

8 AND FINALLY, THIS WOULD ALSO GIVE US THE
9 FLEXIBILITY TO MANAGE HIGH APPLICATION VOLUMES AND
10 PREPLAN FOR THE APPROPRIATE REVIEW PANEL WHERE WE
11 NEED THEIR EXPERTISE.

12 IN ADDITION, DISC4 WILL ALIGN WITH DISC5
13 AND OTHER CIRM PROGRAMS TO MAKE CHANGES TO THE
14 SCORING SYSTEM, MOVING TO A 1 TO 100 NUMERICAL
15 SCORING SYSTEM AND OTHER CHANGES IN THE REVIEW
16 PROCESS THAT WILL INCREASE THE VISIBILITY OF
17 SCORE-DRIVING DECISIONS.

18 WE CONTINUE TO REQUIRE DATA SHARING AND
19 MANAGEMENT PLAN AND COORDINATION WITH CIRM'S DATA
20 INITIATIVES. THAT IS UNCHANGED FROM WHAT WE HAVE
21 RIGHT NOW WITH REMIND.

22 AND WITH THE APPROVAL WE CAN QUICKLY MOVE
23 TO POST THE PA BY EARLY APRIL WITH AN EXPECTATION
24 FOR PRESUBMISSIONS DUE IN JUNE.

25 AND WITH THE REQUEST FOR MOTION TO

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1 RECOMMEND APPROVAL TO THE FULL ICOC FOR THIS DISC4
2 CONCEPT AND HAPPY TO TAKE QUESTIONS AS WELL.

3 CHAIRMAN FISCHER-COLBRIE: LET'S GO AHEAD
4 AND GET THE MOTION ON THE TABLE. THEN WE CAN MOVE
5 INTO THE DISCUSSION. SO WITH THAT, I'M CALLING FOR
6 A MOTION AND A SECOND.

7 DR. MELTZER: MOTION TO APPROVE.

8 DR. SOUTHARD: SECOND.

9 CHAIRMAN FISCHER-COLBRIE: THANK YOU. AND
10 WITH THAT, LET'S OPEN UP FOR QUESTIONS AND
11 DISCUSSION.

12 MR. TOCHER: LOOKS LIKE JUDY GASSON --

13 DR. LEVITT: MAYBE YOU CAN ELABORATE A
14 LITTLE BIT MORE ON THE DOMAINS WHERE YOU SAID THERE
15 WAS A RED X BECAUSE SOME OF THE THINGS LISTED THERE
16 LIKE THE GI SYSTEM, I KNOW THERE'S BEEN MULTIPLE
17 GRANTS IN THAT AREA FOR SURE. IT WAS A LONG LIST.
18 SO I'M JUST WONDERING, MAYBE YOU CAN ELABORATE
19 BECAUSE THAT ONE WAS HIGHLIGHTED IN TERMS OF
20 PREFERENCE.

21 DR. LEK TAN: YEAH. I CAN DEFINITELY GO
22 INTO THAT. THIS RED DOT HERE SHOWING THE RELATIVE
23 REPRESENTATION IN CIRM'S PORTFOLIO ACTUALLY COMBINES
24 MULTIPLE DIFFERENT NUMBERS HERE. SO WE START
25 BETWEEN THE DISC-0 AWARDS. IF YOU SUM UP THE AWARDS

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1 WITHIN THE DISC-0 HISTORICALLY FOR THIS PARTICULAR
2 BUCKET, IT COMES IN LAST OUT OF THE FIVE WITH THE
3 BRAIN BIOLOGY AND IMMUNE AND BLOOD CATEGORIES BEING
4 THE HIGHEST FOLLOWED BY CARDIOVASCULAR AND
5 REPRODUCTION.

6 IF WE LOOK AT ACTIVE DISC2, TRAN, AND CLIN
7 AWARDS, THIS AREA AROUND METABOLISM AND
8 GASTROINTESTINAL BIOLOGY COMES IN JUST SECOND TO
9 LAST, WHICH IS ONLY HIGHER THAN THE CARDIOVASCULAR
10 BUCKET.

11 IN TERMS OF TOTAL FUNDING HISTORICALLY
12 FROM 2015 TO 2024 ACROSS ALL OF OUR PROGRAMS, THIS
13 PARTICULAR BUCKET FOR DIGESTIVE SYSTEM AND ENDOCRINE
14 ALSO COMES IN SECOND TO LAST, ONLY SLIGHTLY HIGHER
15 THAN THE CARDIOVASCULAR AS WELL.

16 IN TERMS OF RELEVANCE TO DISEASE --

17 DR. LEVITT: SO IT'S LESS REPRESENTED THAN
18 PSYCHIATRIC DISORDERS?

19 DR. LEK TAN: PSYCHIATRIC DISORDERS, WE
20 DIDN'T BREAK OUT THOSE NUMBERS SPECIFICALLY BECAUSE
21 THEY'RE A SUBSET OF THE BROADER NEURO PROGRAM.

22 DR. LEVITT: ALL RIGHT.

23 DR. CANET-AVILES: WE COMPARE ACTUALLY TO
24 NEURODEGENERATIVE, NOT NEUROPSYCHIATRIC, IN TERMS OF
25 THE PREFERENCE TOPICS.

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1 MR. TOCHER: JUDY GASSON.

2 DR. GASSON: TWO QUESTIONS. THE FIRST
3 QUESTION IS IN THE TWO-STEP REVIEW PROCESS, AGAIN,
4 IF I UNDERSTOOD YOU CORRECTLY, YOU'RE NOT SUBMITTING
5 THE FULL GRANT APPLICATION FOR THE FIRST STEP; IS
6 THAT CORRECT?

7 DR. LEK TAN: YES, THAT'S RIGHT. WE
8 PROBABLY WON'T GO INTO THE DETAILS OF THE
9 PRESUBMISSION PROCESS HERE. BUT JUST ON A HIGH
10 LEVEL, THE PRESUBMISSION PROCESS WILL BE A MUCH
11 SMALLER PRESUBMISSION PROPOSAL.

12 DR. GASSON: GREAT. OKAY. THAT'S GREAT.
13 BUT MY SECOND QUESTION WAS THE PREFERENCE.
14 SO I'M WONDERING IF IT DOESN'T ALIGN WITH THE
15 PREFERENCE, HOW WOULD A REALLY GREAT POTENTIALLY
16 TRANSFORMATIVE PROJECT BE SELECTED IF IT DOESN'T,
17 FOR WHATEVER REASON, ALIGN WITH THE CURRENT
18 PREFERENCES?

19 DR. LEK TAN: YEAH. SO OUR THINKING RIGHT
20 NOW IS THAT THE PREFERENCE TOPICS WILL BE
21 ADJUDICATED THROUGH THE PRESUBMISSION PROCESS. AND
22 THAT NEEDS TO BE WORKED OUT IN ITS DETAILS, WHETHER
23 WE HAVE A FIRM KIND OF SCORING AND WEIGHTING SYSTEM,
24 BUT WE WILL BE ABLE TO BALANCE THOSE TWO OUTCOMES
25 HAVING THOSE PRIORITIZATION TOPICS BE WELL

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1 REPRESENTED, BUT KEEPING THE FLEXIBILITY AND THE
2 OPENNESS FOR OTHER PROPOSALS THAT ARE NOT WITHIN
3 THOSE TOPICS, BUT SCORE HIGHLY IN TERMS OF ALIGNMENT
4 TO OUR OBJECTIVES AND SCOPE AS WELL.

5 DR. GASSON: AND ARE YOU ENVISIONING THAT
6 THAT WILL ALSO BE DONE BY THE GWG AT THAT POINT IN
7 TIME?

8 DR. LEK TAN: I THINK I'LL REFER TO GIL ON
9 THAT TOPIC.

10 DR. CANET-AVILES: DR. SAMBRANO IS
11 ACTUALLY PREPARING A PRESENTATION FOR THE MARCH 27TH
12 THAT WILL PREVIEW AND REVIEW PROCESSES. THIS
13 PROCESS IS NOT PLANNED TO BE AT THE GRANTS WORKING
14 GROUP, RIGHT, GIL; BUT HE IS GOING TO PRESENT FULLY
15 ON THIS.

16 DR. SAMBRANO: CORRECT. YES, I'M GOING TO
17 PROVIDE AN OVERVIEW THAT WILL HELP THE BOARD
18 UNDERSTAND HOW WE ARE ALIGNING THE REVIEW WITH EACH
19 OF THESE CONCEPTS AND THE OBJECTIVES OF EACH. AND
20 WHAT IS BEING DESCRIBED HERE IS A PROCESS THAT
21 INVOLVES, AS DESCRIBED, A PRESUBMISSION THAT IS
22 REVIEWED BY THE CIRM PROGRAM TEAM TO DETERMINE THE
23 ALIGNMENT WITH THE PROGRAM AND SELECT THE ONES THAT
24 ARE BEST ALIGNED TO THEN MOVE FORWARD TO GWG. SO
25 ESSENTIALLY THAT'S THE PROCESS.

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1 THE MECHANISM THAT WE WILL USE IN ORDER TO
2 ASSIGN POINTS OR MAKE SELECTIONS SO THAT WE CAN MAKE
3 IT AS FAIR AND APPROPRIATE AS POSSIBLE IS PART OF
4 WHAT WE WILL PRESENT IN MARCH.

5 DR. GASSON: GREAT. SO WE'LL TALK MORE
6 ABOUT THIS IN MARCH. OKAY. THANK YOU.

7 MR. TOCHER: MARK AND THEN JEFF GOLDEN.

8 CHAIRMAN FISCHER-COLBRIE: YEAH. IF YOU
9 CAN GO BACK TO THE PREVIOUS SLIDE ON THE
10 PREFERENCES. CLEARLY THE GRAYED-OUT AREA WOULD BE
11 INDICATIVE OF THE NEAR TERM PREFERENCE ELEMENT. TWO
12 THINGS. ONE IS THIS THEN A SITUATION WHERE THERE'S
13 A SOFT PREFERENCE BY SEQUENCE ON THE OTHER ONES, OR
14 ARE THE NEXT FOUR BUCKETS INHERENTLY JUST MORE OR
15 LESS RANDOM AND JUST USING THE DATA POINTS TO SHOW
16 WHERE THEY'RE CHARACTERIZED, OR HOW ARE WE THINKING
17 ABOUT THE OTHER FOUR ELEMENTS WITHIN THE FRAMEWORK
18 OF THE FACT THAT WE'RE SAYING ANY APPLICATIONS
19 ELIGIBLE FOR REVIEW, THIS IS OUR PREFERENCE?

20 DR. LEK TAN: THANK YOU FOR THAT QUESTION.
21 I THINK WE ARE PRESENTING THESE FIVE OPTIONS HERE.
22 THERE IS A SLIGHT RANKING IN TERMS OF HOW THE CIRM
23 STAFF HAS SEEN WHICH ONES SHOULD RANK HIGHER, AND
24 THEN WE ULTIMATELY TEND TO ALIGN ON METABOLIC
25 PHYSIOLOGY AS OUR TOP CHOICE. BUT WITH THAT CHOICE,

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1 ALL OTHER TOPICS WOULD STILL BE ELIGIBLE FOR
2 SUBMISSION. AND WE WILL COME BACK TO THE BOARD
3 EVERY YEAR WITH NEW RECOMMENDATIONS, AND SOME OF
4 THESE WILL BE REPRODUCED IN THOSE SUBSEQUENT YEARS.
5 AND THEN THE BOARD CAN MAKE A DECISION AGAIN.

6 DR. CANET-AVILES: AND JUST TO CLARIFY,
7 THAT WAS THE TOP CHOICE FOR FY 25/26. AND THE
8 REASON FOR THAT IS BECAUSE WE DID NOT -- WE ARE
9 GOING TO BE PILOTING A PRESUBMISSION OR PREREVIEW
10 PROCESS. AND WE THINK THAT WE WILL BE ABLE TO
11 HANDLE THE NUMBER OF PREAPPLICATIONS WITH A TOPIC
12 THAT MIGHT NOT BE AS MUCH DEMAND NOW. OKAY. JUST
13 GOING TO STOP.

14 CHAIRMAN FISCHER-COLBRIE: OKAY. WELL,
15 THANK YOU. THAT'S VERY HELPFUL. AND, AGAIN, THE
16 LEAD-OFF ON THE PRESENTATION WITH RESPECT TO THE
17 FACT THAT, EVEN THOUGH THERE ARE INDICATIONS AROUND
18 A PREFERENCE FOR THE NEXT CERTAIN TIME PERIOD, THIS
19 IS OPEN TO EVERYTHING ALONG THE WAY, AND IT'S NOT
20 FOR CLOSING OFF PROGRAMS THAT COULD BE INCREDIBLY
21 IMPACTFUL. SO THANK YOU.

22 DR. LEK TAN: EXACTLY. THANK YOU.

23 MR. TOCHER: JEFF GOLDEN.

24 DR. GOLDEN: YEAH. THIS MAY BE A NAIVE
25 QUESTION, AND THIS IS MY FIRST TIME PARTICIPATING.

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1 SO I APOLOGIZE FOR THAT. BUT HOW DO YOU ENSURE THAT
2 ALL THESE AREAS ALIGN WITH REGENERATIVE MEDICINE
3 STEM CELL BIOLOGY AND GENE THERAPY, ET CETERA, STEM
4 CELL THERAPY? BECAUSE A LOT OF THESE COULD BE SET
5 UP WITH THINGS -- IT'S JUST NOT CLEAR TO ME WHERE
6 THAT FITS IN. AND MAYBE THAT'S IN THE KIND OF
7 INTRODUCTION TO THE DISC4, BUT I JUST HAVEN'T SEEN
8 IT HERE, AND I JUST WONDER HOW YOU PUT THAT
9 TOGETHER.

10 DR. LEK TAN: YEAH. I THINK I WOULD
11 ANSWER THAT BY GOING BACK TO THE PAGE ON PROJECTS
12 ELIGIBILITY, WHICH IS AN ELIGIBILITY REQUIREMENT FOR
13 ALL PROJECTS REGARDLESS OF THE YEAR OR THE
14 PREFERENCE TOPICS. SO EVERY PROPOSAL, IN ORDER TO
15 ALIGN WITH OUR MISSION, MUST INCLUDE STUDIES THAT
16 EMPLOY HUMAN STEM CELLS AND/OR GENETIC RESEARCH AS
17 PART OF THE CENTRAL APPROACH.

18 GIVEN OUR EXPERIENCE WITH REMIND, THAT
19 TURNS OUT TO BE IN ALMOST ALL CASES A VAST MAJORITY
20 OF THE APPLICATIONS THEMSELVES, BUT WE DO ENCOURAGE
21 THEM TO BRING IN OTHER APPROACHES AS WELL WHERE
22 NECESSARY AND IMPACTFUL.

23 DR. GOLDEN: GOT IT. THANK YOU.

24 DR. CANET-AVILES: THAT WAS PART OF THE
25 WHOLE THINKING PROCESS WHEN WE CAME WITH THE PILOT

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1 FOR DISC4 REMIND-L TO LEVERAGE OTHER DISCIPLINES IN
2 ORDER TO MAKE SURE THAT WE CAN ANSWER THESE
3 QUESTIONS AND PROVIDE MORE POWER TO THESE STUDIES.

4 MR. TOCHER: PAT LEVITT.

5 DR. LEVITT: YEAH. SO WHEN AN RFA GOES
6 OUT OR A PA GOES OUT, AT LEAST IN MY EXPERIENCE,
7 INVESTIGATORS ARE QUITE LITERAL ABOUT HOW THEY
8 INTERPRET THE WORDING. SO TO ME THIS JUST FEELS TOO
9 SQUISHY. LIKE, THERE WILL BE A PREFERENCE, BUT IT'S
10 NOT EXACTLY CLEAR TO ME, WHAT DOES IT EXACTLY MEAN?
11 HOW IS THE WORDING GOING TO BE? THIS IS NOT
12 INSIGNIFICANT BECAUSE IN THE INITIAL DESIGN OF THIS,
13 WHICH WE SAW, THERE WAS GOING TO BE LIKE A
14 PREFERENCE EACH YEAR, LIKE A SPECIFIC PREFERENCE
15 EACH YEAR. THERE WILL BE A CALL FOR INVESTIGATIONS
16 IN CARDIOVASCULAR AND THAT WOULD BE IT. AND THAT
17 WAS NOT -- I DIDN'T HEAR ANYBODY SUPPORTING THAT.

18 SO THIS IS SORT OF A MODIFICATION OF THAT,
19 BUT TO ME THERE'S JUST NOT ENOUGH -- I DON'T
20 UNDERSTAND HOW THIS IS GOING TO BE ADJUDICATED OR
21 HOW THIS IS GOING TO BE DESCRIBED TO INVESTIGATORS.
22 IF THEY READ -- LIKE I COULD WRITE THIS SENTENCE
23 SEVERAL WAYS. ONE WOULD BE TARGETED TO OFF-PUTTING
24 THOSE WHO ARE NOT DOING RESEARCH IN A CERTAIN AREA,
25 AND OTHERS WOULD BE A SENTENCE THAT WOULD REASSURE

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1 THAT THERE'S GOING TO BE PLENTY OF OPPORTUNITY IF
2 THE GRANT IS GREAT TO BE SUCCESSFUL. THAT'S HOW
3 INVESTIGATORS THINK.

4 AND SO MAYBE YOU'RE GOING TO DEAL WITH
5 THIS, BUT I THINK IF IT COMES BACK TO THE BOARD HOW
6 THIS WAS HANDLED AND IT WASN'T REALLY TRANSPARENT
7 FOR INVESTIGATORS, I'LL JUST SPEAK FOR MYSELF, I'M
8 NOT GOING TO BE REAL HAPPY ABOUT THAT BECAUSE WE
9 HAVE TO BE REALLY TRANSPARENT WITH INVESTIGATORS.
10 THEY'RE LITERAL ABOUT HOW THEY INTERPRET THESE
11 THINGS. AND YOU ALL KNOW THIS FROM YOUR HISTORY OF
12 HOW YOU'VE WORKED HERE. SO I JUST HAD TO SAY THAT.
13 I JUST THINK THAT RIGHT NOW FOR US I DON'T KNOW IF
14 SQUISHY IS AN OFFICIAL SCIENTIFIC TERM, MARK, BUT
15 THAT'S HOW IT FEELS.

16 CHAIRMAN FISCHER-COLBRIE: I THINK, PAT,
17 YOUR POINT IS WELL TAKEN BECAUSE THE ISSUE IS GOING
18 TO BE A CONDITION OF DO I GO THROUGH THE EFFORT IN
19 TIME TO FILE AN APPLICATION OR NOT, OR IS IT
20 INHERENTLY GOING TO AUTOMATICALLY GET SHUT DOWN OR
21 NEARLY SHUT DOWN. YOUR QUESTION IS VERY MUCH ON
22 POINT HERE. SORRY TO INTERRUPT.

23 DR. LEVITT: I'M JUST SAYING I COULD WRITE
24 THAT SENTENCE THREE DIFFERENT WAYS. I KNOW IT WOULD
25 HAVE THREE DIFFERENT IMPACTS. SO THAT TO ME IS LIKE

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1 HOW IS THIS SENTENCE GOING TO BE WRITTEN SO THAT
2 EVERYONE IS ENCOURAGED, BUT WE'RE PARTICULARLY
3 INTERESTED IN ATTRACTING IN A CERTAIN FIELD. SO
4 IT'S GOT TO BE DONE REALLY CAREFULLY SO THAT WE
5 DON'T OFF-PUT THOSE WHO ARE SAYING WHY AM I GOING TO
6 SPEND THREE MONTHS PUTTING A GRANT TOGETHER WHERE
7 THE ODDS ARE 1 IN 20; WHEREAS, IF I DID IT IN, LET'S
8 SAY, SMALL INTESTINE, THE ODDS WOULD BE 1 IN 3.
9 THAT'S HOW INVESTIGATORS LOOK AT THIS.

10 DR. CANET-AVILES: PAT, SO ACTUALLY THE
11 PREFERENCE SETTING, AND I THOUGHT WE HAD IT HERE IN
12 A FOOTNOTE, BUT THE PREFERENCE SETTING IS GOING TO
13 BE WORKED OUT AT THE PREREVIEW PROCESS. SO THE
14 APPLICANTS WILL NOT HAVE TO DO THE FULL APPLICATION,
15 WHICH ARE VERY BURDENSOME. WE ARE GOING TO PROBABLY
16 HAVE A VERY SMALL PREAPP WITH WHAT'S THE TOPIC, WHO
17 ARE THE COLLABORATORS, AND THE DIFFERENT
18 DISCIPLINES, AND A SERIES OF QUESTIONS SO WE CAN
19 THEN INVITE LIKE WITH THE REVIEW IS GOING TO BE 30.
20 THERE WILL BE 30 APPLICANTS, AND THEN AT THAT STAGE,
21 WHEN THEY COME TO THE REVIEW, EVERYBODY IS AT THE
22 SAME LEVEL OF PREFERENCE. THE PREFERENCE WILL NO
23 LONGER BE THERE BECAUSE WE WILL HAVE ALREADY DECIDED
24 THAT THOSE PEOPLE ARE ALL VALID TO BE COMING TO
25 REVIEW. AND THEN THERE WILL BE OTHER CRITERIA THAT

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1 WILL BE IN TERMS OF IMPACT AND FEASIBILITY, ET
2 CETERA. RIGHT.

3 SO THE PREFERENCE, JUST TO BE CLEAR, COULD
4 BE BEFORE WE ASK ANYBODY TO COME WITH A FULL REVIEW,
5 A FULL APPLICATION.

6 NOW, ONE OF THE THINGS THAT WE HAVE DONE
7 IS WE'VE -- SO DISEASES IN THE MOST LOGICAL SENSE,
8 HUMAN DISEASES NOW CUTTING ACROSS SYSTEMS. AND
9 WE'VE BEEN TRYING TO TAKE A SYSTEMS BIOLOGY
10 APPROACH, IF YOU WANT TO GO TO THAT. SO IF WE THINK
11 ABOUT SETTING PREFERENCE FOR THE METABOLIC
12 PHYSIOLOGY, DIET, MICROBIOME, THERE'S A STRONG
13 FOUNDATION FOR ALSO EXPLORING IF SOMEBODY WANTS TO
14 TAKE THE HEAT THERE, THEY CAN COME AND SAY WE ARE
15 EXPLORING NEURODEGENERATION, GUT/BRAIN ACCESS
16 DISORDERS, LIVER-BRAIN INTERACTIONS, ET CETERA, THE
17 NEURO COMPONENT CAN ALSO BE THERE. SO THERE'S A LOT
18 OF CROSSTALK AMONGST THESE. WHAT WE'RE ASKING
19 PEOPLE IS TO GIVE US A PREFERENCE FOCUS.

20 NOW, THE BOARD HAS THE PREROGATIVE TO SAY,
21 LOOK, WE DON'T WANT YOU TO START WITH THAT OR WE
22 DON'T WANT YOU TO START WITH THESE PREFERENCE
23 TOPICS. WE WANT YOU TO DO IT DIFFERENTLY. OR WE
24 WOULD LIKE FOR YOU TO COME IN WITH ALL COMERS EVERY
25 YEAR AND SET THE PREFERENCE TO NEURO. AND EVERY

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1 YEAR SAY THIS YEAR IS GOING TO BE NEURODEGENERATIVE,
2 NEXT YEAR NEURODEVELOPMENTAL, THE OTHER YEARS
3 NEUROPSYCHIATRIC. LIKE WE COULD DO SOMETHING LIKE
4 THAT TO BE MORE COMPLIANT WITH WHAT YOU HAD ASKED
5 BEFORE. RIGHT.

6 SO THERE ARE OPTIONS. THAT'S WHY WE
7 THOUGHT A LOT ABOUT DIFFERENT OPTIONS. WE CAME WITH
8 THIS OPTION TO THE BOARD, BUT WE ARE HAPPY TO TAKE
9 FEEDBACK AND COME IN WITH SOMETHING LATER. I'M JUST
10 AWARE THAT THERE IS A LOT OF NEED FOR FUNDING AND TO
11 KEEP THIS GOING. AND WE ALSO UNDERSTAND THAT WE
12 WANT TO MAXIMIZE THE LEVERAGING OF DATA FOR NEURO.
13 SO WE ARE HERE TO HEAR YOUR FEEDBACK.

14 DR. LEVITT: YEAH. LISTEN, I'M
15 NOT -- I'VE WORKED ON THE GASTROINTESTINAL SYSTEM.
16 SO I LOVE THE GASTROINTESTINAL SYSTEM. I LOVE
17 BIOGASTROINTESTINAL SYSTEMS. SO THAT'S NOT THE
18 ISSUE.

19 AS LONG AS YOU AND THE TEAM HAVE THE SENSE
20 THAT THIS CAN BE -- THERE'S PLASTICITY HERE, RIGHT,
21 IN TERMS OF HOW THE BOARD FEELS ABOUT THE BEST
22 APPROACH. I THINK THE LETTER, THE LOI. THE LOI IS
23 A VERY IMPORTANT STEP. I AGREE WITH YOU. IT WILL
24 SAVE PEOPLE TIME. SO I'M FINE WITH THAT. AND,
25 AGAIN, I REALLY LIKE THE FUNDING MECHANISM, WHICH IS

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1 WHAT WE'RE REALLY FOCUSING ON HERE TO RECOMMEND TO
2 THE FULL BOARD, THAT THESE FUNDING MECHANISMS ARE
3 GREAT AND WILL MATTER A LOT. SO I'LL STOP THERE.

4 MR. TOCHER: THANK YOU, PAT. LEONDRA, I
5 THINK I SAW YOUR HAND COME UP A COUPLE TIMES.

6 DR. CLARK-HARVEY: IT DID. I WANT TO
7 JUST -- AND I SEE, MARK, YOU PUT UP YOUR HAND AS
8 WELL. BUT I JUST WANT TO PULL OUT THAT IN SOME OF
9 OUR MORE DRILL-DOWN GROUPS, WE DID TALK ABOUT SOME
10 OF THE GAPS AND DEFICITS ACROSS NEURO AND WHAT'S
11 PASSING AROUND THE DIVERSITY THERE.

12 AND SO I WOULD HOPE THAT WHATEVER APPROACH
13 WE MOVE FORWARD WITH, THAT WE'RE REALLY PAYING
14 ATTENTION TO THE FEEDBACK THAT CAME BACK OUT OF
15 THOSE MEETINGS BECAUSE WE DID GET REALLY -- I'M
16 SORRY. I CAN'T REMEMBER THE EXACT DATES -- BUT THIS
17 PAST YEAR I REMEMBER SOME MEETINGS WHERE WE GOT
18 REALLY DEEP INTO SOME OF THE DEFICITS, SOME OF THE
19 GAPS, SOME OF THE AREAS THAT ARE LESS LIKELY TO BE
20 ATTENUATED JUST BECAUSE OF THE LACK OF RESEARCH IN
21 THAT AREA. AND I DO THINK THOSE ARE OPPORTUNITIES.
22 AND SO I'M SURE THAT THE STAFF AND THE TEAM IS
23 WORKING ON THAT. AND I THINK THAT YOU SHOULD
24 ALREADY HAVE A SMALL COMPENDIUM OF SOME OF OUR ON
25 RECOMMENDATIONS AND SOME OF THE AREAS IDENTIFIED,

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1 AND I DO HOPE THAT WE CAN KEEP THAT IN MIND.

2 ALSO WANT TO MENTION I THINK IT'S
3 DIFFICULTY WITH NEURO, RIGHT. AND SO WHEN YOU'RE
4 TALKING ABOUT WITH THE GASTROINTESTINAL, ALL OF
5 THESE THINGS, IT SEEMS LIKE, OKAY, THAT'S A CATEGORY
6 TO THE SIDE. WE CAN PERHAPS DO WITHOUT THAT OR NOT
7 FOCUS THERE, BUT WE HAVE TO REMEMBER THAT ALL OF
8 THESE THINGS CUT ACROSS WHEN YOU'RE TALKING ABOUT
9 NEURO AND BEHAVIORIAL HEALTH DISORDERS, THAT ALL OF
10 THESE THINGS SHOW UP IN DIFFERENT WAYS FOR FOLKS
11 THAT HAVE SPECIFIC CONDITIONS. LIKE, I REMEMBER
12 THERE WAS A CONVERSATION WE BROUGHT IN SOME FOLKS
13 AROUND AUTISM AND SOME WAYS THAT THINGS WERE
14 EMERGING SPECIFICALLY FOR THOSE CLIENTS.

15 BOTH/AND, RIGHT? YES, LET'S FIGURE IT OUT
16 AND CATEGORIZE AND KIND OF LINE UP IN RANK ORDER AND
17 ALSO REMEMBER THAT THINGS AREN'T SO SEPARATE AND
18 DISTINCT, BUT THERE'S SO MUCH INTERSECTION. SO WITH
19 ALL THAT SAID, I WOULD ARGUE FOR MORE CONNECTION,
20 CHECKUP WITH THE COMMITTEE ON SOME OF THE THINGS
21 THAT WE HAVE HIGHLIGHTED. I HOPE THAT MAKES SENSE.

22 DR. CANET-AVILES: GOOD POINT. THANK YOU,
23 LEONDRA.

24 MR. TOCHER: MARK, YOUR HAND IS RAISED.

25 CHAIRMAN FISCHER-COLBRIE: YEAH. GOOD

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1 COMMENTS THERE. AND I THINK IT'S GOING TO BE
2 INCUMBENT TO ENSURE THAT WE HAVE A PLACEHOLDER HERE
3 FOR A COMMENT, IF YOU WILL, IN THE CONTEXT THAT A
4 NUMBER OF THINGS ARE GOING TO COME TO THE HEAD ON
5 THE PRESUBMISSION DIALOGUE. AND EVEN AHEAD OF THAT,
6 TO PAT'S POINT, EVEN THE COMMUNICATION AROUND
7 PRESUBMISSION WORK WILL REQUIRE CAREFUL THOUGHT
8 ABOUT THE LANGUAGE BEING SENT OUT TO PEOPLE AROUND
9 THAT. SO THAT'S GOING TO TAKE SOME WORK, POSSIBLY
10 SOME TESTING, IF YOU WILL, WITH RESEARCHERS TO
11 ENSURE THAT WE'VE GOT THE PROPER COMMUNICATION GOING
12 ON WITH THEM TO ENSURE THAT SOME GRANTEE THAT MIGHT
13 HAVE -- DOESN'T GET CHOPPED OFF BECAUSE THEY THINK
14 THE PROCESS IS GOING TO BE PROBLEMATIC TYPE OF
15 THING. SO I JUST WANTED TO MAKE THAT NOTATION AND
16 CALL THAT OUT SPECIFICALLY, TIE BACK TO LEONDRA'S
17 AND TO PAT'S COMMENTS.

18 DR. LEK TAN: THANK YOU, MARK. I THINK
19 THAT'S SOMETHING THAT WAS EXTREMELY IMPORTANT. WE
20 REALIZE THE IMPORTANCE OF THAT MESSAGING TO THE
21 APPLICANTS AS WELL. WE'VE PUT A LOT OF THOUGHT INTO
22 IT AND WILL BRING YOU OUR DECISION AND DESIGN AT THE
23 APPROPRIATE TIME WITH GIL. THANK YOU.

24 MR. TOCHER: MARIA BONNEVILLE.

25 VICE CHAIR BONNEVILLE: I JUST WANTED TO

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1 REEMPHASIZE THAT WHAT WE ANTICIPATE WILL COME TO THE
2 BOARD IN MARCH, WHICH IS GIL PROVIDING A LOT OF THE
3 DETAIL AROUND HOW ALL OF THIS GETS ADJUDICATED
4 INTERNALLY, EXTERNALLY, WHO'S RESPONSIBLE FOR WHAT,
5 AT WHAT POINT THE GWG TAKES OVER, WHAT THE BOARD IS
6 NO LONGER SORT OF RESPONSIBLE FOR, AND IT GOES
7 INTERNAL. AND I THINK THAT THAT'S REALLY WHAT'S
8 MISSING IN ORDER TO COMPLETELY FEEL LIKE ALL THE
9 BASES ARE COVERED. AND SO I THINK THAT'S JUST
10 SOMETHING REALLY IMPORTANT FOR US TO LOOK FORWARD TO
11 IN MARCH. THANKS, GIL.

12 DR. CANET-AVILES: HE GAVE A THUMBS UP.

13 MR. TOCHER: MARK, I DON'T SEE ANY OTHER
14 HANDS RAISED FROM THE BOARD.

15 CHAIRMAN FISCHER-COLBRIE: OKAY. ANY
16 OTHER QUESTIONS FROM THE PUBLIC OR COMMENTS?

17 MR. TOCHER: LOOKS LIKE THERE ARE NOT,
18 MARK.

19 CHAIRMAN FISCHER-COLBRIE: OKAY. WELL,
20 LET'S PROCEED TO A ROLL CALL VOTE.

21 MR. TOCHER: GREAT. AND THE MOTION IS TO
22 RECOMMEND TO THE ICOC APPROVAL OF THE DISC4 CONCEPT.

23 MARIA BONNEVILLE.

24 VICE CHAIR BONNEVILLE: YES.

25 MR. TOCHER: LEONDRA CLARK-HARVEY.

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1 DR. CLARK-HARVEY: YES.
2 MR. TOCHER: DEBORAH DEAS.
3 DR. DEAS: YES.
4 MR. TOCHER: MARK FISCHER-COLBRIE.
5 CHAIRMAN FISCHER-COLBRIE: YES.
6 MR. TOCHER: ELENA FLOWERS.
7 DR. FLOWERS: YES.
8 MR. TOCHER: JUDY GASSON.
9 DR. GASSON: YES.
10 MR. TOCHER: JEFF GOLDEN.
11 DR. GOLDEN: YES.
12 MR. TOCHER: DAVID HIGGINS.
13 DR. HIGGINS: YES.
14 MR. TOCHER: VITO IMBASCIANI.
15 CHAIRMAN IMBASCIANI: YES.
16 MR. TOCHER: PAT LEVITT.
17 DR. LEVITT: YES.
18 MR. TOCHER: CAROLYN MELTZER.
19 DR. MELTZER: YES.
20 MR. TOCHER: CHRIS MIASKOWSKI.
21 DR. MIASKOWSKI: YES.
22 MR. TOCHER: MARV SOUTHARD. SORRY, MARV.
23 ARE YOU STILL ON THE CALL?
24 DR. SOUTHARD: YES.
25 MR. TOCHER: OKAY. THANK YOU. CAME IN

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1 LOUD AND CLEAR.

2 KAROL WATSON.

3 DR. WATSON: YES.

4 MR. TOCHER: KEITH YAMAMOTO.

5 DR. YAMAMOTO: YES.

6 MR. TOCHER: GREAT. THANK YOU, KEITH.

7 THE MOTION CARRIES UNANIMOUSLY. MARK.

8 CHAIRMAN FISCHER-COLBRIE: GREAT. WE GOT
9 THROUGH THOSE TWO APPROVALS. LET'S MOVE ON TO THE
10 NEXT TOPIC FOR DISCUSSION, WHICH I THINK IS THE
11 PRECLINICAL DEVELOPMENT.

12 DR. CANET-AVILES: SHYAM IS READY.

13 DR. PATEL: GOOD AFTERNOON. MY NAME IS
14 SHYAM PATEL. AND ON BEHALF OF THE PRECLINICAL
15 DEVELOPMENT TEAM, I THANK THE MEMBERS OF THE SCIENCE
16 SUBCOMMITTEE AND THE NEURO TASK FORCE FOR THE
17 OPPORTUNITY TO PRESENT THE PDEV CONCEPT TO YOU.

18 SO AS DR. CLARK-HARVEY NOTED, THE PDEV
19 CONCEPT IS PRECLINICAL DEVELOPMENT. AND I'LL
20 DESCRIBE HOW THAT CONCEPT IS BEING DEVELOPED AND HOW
21 IT COMBINES AND CONSOLIDATES SOME OF OUR EXISTING
22 PROGRAMS AND ADDS SOME NEW FEATURES AS WE GO
23 FORWARD.

24 QUICK NOTE, I UNFORTUNATELY HAVE A HARD
25 TIME PRONOUNCING THE WORD "PRECLINICAL" AND

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1 "REGENERATIVE", SO I'M GOING TO TRY TO AVOID USING
2 BOTH OF THOSE WORDS AS MUCH AS POSSIBLE IN THIS
3 PRESENTATION.

4 SO THE OUTLINE FOR THIS PRESENTATION IS
5 VERY SIMILAR TO THE OTHER ONE THAT YOU'VE HEARD SO
6 FAR. I'M GOING TO SPEND A LITTLE BIT MORE TIME ON
7 THE BACKGROUND AND THE STRUCTURE BECAUSE THIS IS
8 NEW, BUT THE OTHER ELEMENTS ARE VERY CONSISTENT WITH
9 WHAT YOU'VE HEARD SO FAR.

10 SO FIRST OF ALL, THIS PROGRAM IS MEANT TO
11 RESPOND TO GOAL 4 IN THE SAF RECOMMENDATION, WHICH
12 IS TO PROPEL 15 TO 20 THERAPIES TARGETING DISEASES
13 AFFECTING CALIFORNIANS TO LATE STAGE TRIALS. AND
14 THE RECOMMENDATION THAT WAS APPROVED BY THE BOARD AT
15 THAT TIME INCLUDED TWO IMPORTANT POINTS. THE FIRST
16 WAS TO CONSOLIDATE OUR EXISTING PRECLINICAL
17 DEVELOPMENT PROGRAMS, ACCELERATE THAT DEVELOPMENT
18 AND THAT PROGRESSION TO IND. AND THE SECOND WAS TO
19 INCORPORATE PRIORITIZATION TO FOCUS ON INNOVATIVE
20 THERAPIES FOR DISEASES THAT AFFECT CALIFORNIANS.

21 NOW, I'LL TOUCH UPON BOTH OF THOSE POINTS
22 THROUGHOUT THIS PRESENTATION. SO BEFORE WE GET TO
23 THE DESIGN OF THE PROGRAM, WE WANTED TO TALK A
24 LITTLE BIT ABOUT THE EXTERNAL LANDSCAPE AS WELL AS
25 THE INTERNAL LANDSCAPE THAT INFORMED THE DESIGN OF

1 THIS PROGRAM.

2 SO THIS SLIDE IS MEANT TO CONVEY A
3 SINGULAR POINT, WHICH IS THAT OVER THE LAST DECADE
4 THERE HAS BEEN A HUGE GROWTH BOTH ON THE COMMERCIAL
5 SIDE AS WELL AS ON THE PRECOMMERCIAL SIDE OF CELL
6 AND GENE THERAPY CANDIDATES.

7 AND WHAT THIS SLIDE DEMONSTRATES IS THE
8 VAST NUMBER OF PRECLINICAL AND CLINICAL STAGE CELL
9 AND GENE THERAPY CANDIDATES IN DEVELOPMENT. WHAT'S
10 WORTH NOTING HERE IS THAT EVEN DESPITE THE
11 SIGNIFICANT OVERREPRESENTATION OF SOLID AND BLOOD
12 CANCERS, BOTH CELL AND GENE THERAPIES HAVE BEEN
13 TARGETED AT MULTIPLE THERAPEUTIC AREAS, ALL MAJOR
14 THERAPEUTIC AREAS REPRESENTED HERE. AND THIS
15 HIGHLIGHTS THE FACT THAT THERE'S WAY MORE DEMAND FOR
16 FUNDING THAN CIRM CAN POTENTIALLY PROVIDE FOR CELL
17 AND GENE THERAPIES.

18 DESPITE THIS SIGNIFICANT GROWTH IN THE
19 FIELD, THERE IS, HOWEVER, A CHALLENGE ON THE
20 INVESTMENT SIDE. SO OVER THE PAST FEW YEARS,
21 VENTURE INVESTMENT IN CELL AND GENE THERAPIES
22 ACTUALLY FLATLINED COMPARED TO BIOLOGICS AND SMALL
23 MOLECULES. AND THE BAR FOR INVESTMENT IN CELL AND
24 GENE THERAPY DEVELOPMENT HAS GOTTEN PROGRESSIVELY
25 HIGHER OVER THE YEARS. AT THIS POINT MOST OF THE

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1 VENTURE INVESTMENT AND BIOPHARMA PARTNERSHIP DOLLARS
2 ARE FOCUSED ON CLINICAL STAGE COMPANIES AND CLINICAL
3 STAGE CANDIDATES. IN FACT, WE SEE THIS IS OUR OWN
4 PORTFOLIO WHERE, DESPITE OVER \$2 BILLION OF INDUSTRY
5 SUPPORT FLOWING INTO CIRM-FUNDED PROGRAMS LAST YEAR
6 IN 2024, ONLY A SMALL FRACTION OF THAT WAS ACTUALLY
7 DEDICATED TO PRECLINICAL STAGE COMPANIES.

8 SO WITH THAT LEARNING IN PLACE, WHAT THAT
9 HIGHLIGHTS IS THAT THERE IS STILL A VERY CRITICAL
10 NEED FOR CIRM ACCELERATE CELL AND GENE THERAPY
11 DEVELOPMENT THROUGH THE PROTOTYPICAL TRANSLATIONAL
12 VALLEY OF DEATH TO FIRST-IN-HUMAN CLINICAL TRIALS.
13 AND ON THIS SLIDE I'M GOING TO HIGHLIGHT SOME OF THE
14 OBSERVATIONS WE'VE BEEN MAKING OVER THE LAST DECADE
15 OF RUNNING THESE PROGRAMS.

16 AND SO CIRM'S FUNDING PROGRAMS OVER THE
17 LAST DECADE HAVE HAD PROGRESSIVE, BUT DISTINCT
18 FUNDING OPPORTUNITIES FOR PRECLINICAL DEVELOPMENT.
19 SO, FIRST OF ALL, THERE'S CANDIDATE DISCOVERY, WHICH
20 IS THE DISC2 PROGRAM HERE IN YELLOW. UPON DECLARING
21 A SINGULAR CANDIDATE, THE AWARDEE WOULD APPLY FOR A
22 TRAN1 AWARD WHERE THAT WOULD SUPPORT ALL THE
23 PRECLINICAL DEVELOPMENT ACTIVITIES LEADING UP TO AND
24 COMPLETION OF AN FDA PRE-IND MEETING. UPON
25 ACHIEVING THAT OUTCOME, THE AWARDEE WOULD APPLY TO A

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1 CLIN1 PROGRAM. HERE THE CLIN1 AWARD WOULD SUPPORT
2 THEM ALL THE WAY TO IND FILING. SO THREE DISTINCT
3 FUNDING OPPORTUNITIES MEANT TO BE PROGRESSIVE, MEANT
4 TO SUPPORT PROJECTS AT THE STAGE THEY'RE AT, BUT
5 BEING DISTINCT IN THAT NATURE.

6 AND SO WHAT I'M GOING TO HIGHLIGHT IN THE
7 IT NEXT FEW BUBBLES ARE ACCELERATION OBSERVATIONS
8 WE'VE BEEN MAKING AS WELL AS SCOPE OBSERVATIONS THAT
9 WE HOPE TO ADDRESS IN THE NEW PDEV PROGRAM.

10 SO FIRST AND FOREMOST, MULTIPLE TRAN1
11 AWARDS HAVE ACTUALLY PROGRESSED TO PRE-IND MEETING
12 EARLIER THAN EXPECTED. THIS CAN BE A FEW MONTHS OR
13 IT COULD BE A COUPLE YEARS EARLIER THAN EXPECTED.
14 THIS REQUIRES AWARD AMENDMENTS TO USE THE REMAINING
15 FUNDING TO CONDUCT STUDIES INFORMED BY FDA FEEDBACK.
16 NOW, THIS IS A SIGN OF A MATURING FIELD, AND WE
17 EXPECT THIS TREND TO CONTINUE GOING FORWARD.
18 HOWEVER, AFTER CONDUCTING THAT PRE-IND MEETING,
19 THERE'S ONLY A LIMITED NUMBER OF ACTIVITIES THAT ARE
20 ACTUALLY ALLOWED IN THE TRAN1 AWARD BASED ON THE
21 PROGRAM.

22 AND SO AWARDEES THAT HAVE CONDUCTED THEIR
23 PRE-IND MEETING AND HAVE SUCCESSFULLY SECURED CLIN1
24 FUNDING ARE OFTEN HAVING A SIGNIFICANT LAG TIME FROM
25 HAVING THAT PRE-IND MEETING TO THE CLIN1 AWARD

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1 START. THE MEDIAN TIME THERE IS 16 MONTHS.

2 ON THE SIDE OF SCOPE, ONE OF THE THINGS I
3 WANT TO HIGHLIGHT IS THAT THERE COULD BE SEVERAL
4 TRAN STAGE PROJECTS THAT MIGHT WANT TO CONDUCT SOME
5 FOCUSED OPTIMIZATION OF THEIR PROJECT. THIS IS
6 PARTICULARLY RELEVANT IN GENE THERAPIES WHERE THEY
7 MAY WANT TO OPTIMIZE THE RNA SEQUENCE, FOR EXAMPLE,
8 OR CHANGE OUT A PROMOTER. IN THIS PARTICULAR
9 INSTANCE, WITH THAT TYPE OF OPTIMIZATION IN OUR
10 CURRENT PROGRAMS, THEY'D ACTUALLY HAVE TO APPLY
11 FIRST TO A DISC2 AWARD, CONDUCT THAT OPTIMIZATION,
12 AND THEN APPLY TO TRAN1.

13 SIMILARLY, APPLICATIONS THAT ARE WITHIN
14 SIX TO TWELVE MONTHS OF A PRE-IND MEETING DON'T
15 REALLY FIT INTO THE TRAN1 OR CLIN1 FUNDING MECHANISM
16 BECAUSE THE OUTCOME OF TRAN1 IS A PRE-IND MEETING,
17 AND THE REQUIREMENT FOR CLIN1 IS TO ACTUALLY HAVE
18 CONDUCTED THAT MEETING FIRST BEFORE YOU APPLY. AND
19 SO THERE ARE THESE SCOPE CHALLENGES AS WELL AS
20 ACCELERATION OPPORTUNITIES.

21 SO PUTTING ALL THIS INTO CONTEXT, WE THINK
22 THAT THERE'S A CLEAR OPPORTUNITY FOR CIRM TO EVOLVE
23 ITS FUNDING PROGRAM TO BETTER ADDRESS THESE TYPES OF
24 OPPORTUNITIES AND CHALLENGES AND HAVE A HOLISTIC
25 FOCUS ON GETTING THESE PROGRAMS TO FIRST-IN-HUMAN

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CLINICAL TRIALS.

IN FACT, OTHER FUNDING AGENCIES, PARTICULARLY NIH, HAS DEVELOPED OVER THE LAST FEW YEARS INNOVATIVE FUNDING PROGRAMS THAT ARE MORE HOLISTIC IN NATURE FOR CELL AND GENE THERAPY DEVELOPMENT. SO THESE PROGRAMS HAVE TWO THINGS IN COMMON. FIRST IS THAT THEY ALLOW FOR MULTIPLE ENTRY POINTS. SO THE PROJECT CAN APPLY AND ENTER AT THE STAGE THAT IT'S AT IN THE PRECLINICAL DEVELOPMENT STAGE. AND SECONDLY, IT WILL SUPPORT PROJECTS ACROSS MULTIPLE CLASSICAL STAGES OF PRODUCT DEVELOPMENT. SO EVERYTHING FROM LEAD OPTIMIZATION TO IND FILING. SOME OF THESE PROGRAMS EVEN THROW IN CLINICAL TRIAL SUPPORT AS PART OF THAT PROJECT.

SO PUTTING ALL THOSE LEARNINGS TOGETHER AND LOOKING AT THE LANDSCAPE EXTERNALLY, INTERNAL LANDSCAPE, AND LEARNINGS FROM OTHER FUNDING OPPORTUNITIES, AS WELL AS OUR OWN, WE'RE PROPOSING THE PDEV PROGRAM WITH A SINGULAR OBJECTIVE OF ACCELERATING COMPLETION OF PRECLINICAL DEVELOPMENT, FDA IND CLEARANCE, AND CLINICAL TRIAL START-UP FOR STEM CELL-BASED AND GENETIC THERAPIES. AND SO THE OVERALL INTENT OF THIS PROGRAM IS TO HAVE A SHARED GOAL BETWEEN THE AWARDEE AND CIRM TO GET TO THAT FIRST-IN-HUMAN CLINICAL TRIAL FOR THAT PARTICULAR

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1 THERAPY IN THAT PARTICULAR INDICATION.

2 EFFECTIVELY WHAT THAT MEANS IS THAT WE'RE
3 COMBINING THE TRANSLATIONAL AND CLINICAL ONE FUNDING
4 OPPORTUNITIES INTO A SINGULAR PROGRAM. THIS ALLOWS
5 FOR MULTIPLE POINTS OF ENTRY. AND WE WILL FUND
6 THOSE PROJECTS TO FIRST-IN-HUMAN CLINICAL TRIALS.

7 AND THIS PROGRAM, THE PDEV PROGRAM, IS
8 MEANT TO FIT INTO THE ENHANCED STRUCTURE OF CIRM
9 FUNDING PROGRAMS SORT OF BRACKETED BY THE EARLY
10 DEVELOPMENT PROGRAM, EDEV, WHICH WILL BE A
11 REPLACEMENT FOR CANDIDATE DISCOVERY PROGRAMS. THIS
12 IS GOING TO COME TO YOU AS A PROPOSAL DOWN THE ROAD.
13 AND IT FEEDS INTO THE CLIN2 PROGRAM, WHICH IS OUR
14 CLINICAL TRIAL PROGRAM, WHICH IS BEING PROPOSED FOR
15 ENHANCEMENTS THAT DR. KADYK WILL TALK ABOUT NEXT.

16 SO I'M GOING SPEND THE NEXT FEW SLIDES
17 TALKING ABOUT THE CONSOLIDATION STRUCTURE OF THIS
18 NEW PROGRAM, AND THEN WE'LL GET INTO THE
19 PRIORITIZATION ELEMENTS.

20 SO AS I MENTIONED, THIS PROGRAM COMBINES
21 EARLY TRANSLATIONAL DEVELOPMENT AS WELL AS LATE
22 STAGE IND-ENABLING TRANSLATIONAL DEVELOPMENT. SO,
23 AGAIN, THE PROGRAM IS DESIGNED TO SUPPORT CRITICAL
24 PATH ACTIVITIES FROM CANDIDATE OPTIMIZATION TO TRIAL
25 START-UP. THE PROGRAM COMES IN AT THE STAGE THAT

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1 IT'S AT, AND WE WILL FUND IT TO IND CLEARANCE AND
2 FIRST-IN-HUMAN CLINICAL TRIAL.

3 SO WHEN WE THINK ABOUT PRECLINICAL
4 DEVELOPMENT, IT'S GENERALLY BUCKETED INTO FOUR
5 CATEGORIES. THERE'S MANUFACTURING, NONCLINICAL
6 TESTING, CLINICAL PLAN DEVELOPMENT, AS WELL AS
7 REGULATORY INTERACTIONS. AND THESE TWO STAGES, YOU
8 RECALL SORT OF TRAN-LIKE STAGE AND THE LATE CLIN1
9 LATE STAGE ARE INTRICATELY LINKED. SO DURING THAT
10 YOU RECALL PRECLINICAL DEVELOPMENT STAGE, THE
11 PROJECT IS FOCUSED ON OPTIMIZING ITS MANUFACTURING
12 AND ANALYTICAL TECHNIQUES. IT'S DOING PILOT STUDIES
13 ON NONCLINICAL TESTING, AND IT'S DEVELOPING ITS
14 CLINICAL PLAN. ALL THAT IS THEN INFORMED BY A
15 PRE-IND MEETING TO HAVE A VERY CLEAR, DEFINED PATH
16 FOR CONDUCTING IND-ENABLING STUDIES, FOR GMP
17 MANUFACTURING OF THE DRUG PRODUCT, AND FINALIZING
18 THE CLINICAL PROTOCOL ALL IN SUPPORT OF FILING THAT
19 IND APPLICATION AND GETTING CLEARANCE TO CONDUCT THE
20 FIRST-IN-HUMAN CLINICAL TRIAL.

21 SO BY HAVING THIS TYPE OF A FUNDING
22 STRUCTURE HERE, WE ALLOW THE AWARDEE TO
23 APPROPRIATELY AND RATIONALLY DESIGN AND STAGE THESE
24 ACTIVITIES FOR THAT PARTICULAR CANDIDATE TO OPTIMIZE
25 THEM TO GET TO FIRST-IN-HUMAN CLINICAL TRIALS AS

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1 QUICKLY AS POSSIBLE.

2 ON THIS SLIDE I'M GOING TO DESCRIBE THE
3 AWARD STRUCTURE. SO IN THE INTEREST OF
4 ACCELERATION, WE'RE PROPOSING TO HAVE DISTINCT
5 FUNDING CAPS AND DURATION LIMITS FOR EACH OF THESE
6 TWO STAGES. SO AS A REMINDER, THE PROGRAM CAN COME
7 IN AT THE STAGE IT'S AT; BUT IF IT'S REQUESTING
8 FUNDING FOR EARLY PDEV STAGE, IT'S GOING TO HAVE A
9 MAXIMUM AMOUNT OF \$5.5 MILLION TOTAL COST THEY CAN
10 REQUEST. AND THE MAXIMUM STAGE DURATION IS 30
11 MONTHS.

12 IF IT'S REQUESTING FUNDING FOR LATE STAGE
13 IND-ENABLING, WHICH ALL OF THEM SHOULD BE, THE
14 MAXIMUM STAGE AMOUNT WOULD BE \$7.5 MILLION TOTAL
15 COST, AND THE MAXIMUM STAGE DURATION IS 30 MONTHS.

16 SO AS A RECAP, WE CAN HAVE PROJECTS THAT
17 ARE REQUESTING FUNDING FOR BOTH THE EARLY PDEV AND
18 LATE PDEV STAGES OR JUST THE LATE PDEV STAGE
19 DEPENDING ON WHERE IT'S AT ALONG THAT SPECTRUM OF
20 PRECLINICAL DEVELOPMENT. SO PUTTING ALL THAT
21 TOGETHER, THE MAX AWARD AMOUNT THAT CIRM CAN GIVE
22 OUT WOULD BE \$13 MILLION, AND THE MAX AWARD DURATION
23 UNDER THIS PROGRAM WOULD BE FIVE YEARS.

24 SO I'M GOING TO TAKE A MINUTE TO TALK
25 ABOUT THE PRIORITIZATION, AND THEN WE'LL COME BACK

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1 AROUND AGAIN TO THE STRUCTURE OF THIS PROGRAM. SO
2 AGAIN, AS A REMINDER, THE SAF RECOMMENDATION IS TO
3 INCORPORATE PRIORITIZATION OF INNOVATIVE THERAPIES
4 FOR DISEASES THAT AFFECT CALIFORNIANS. AND OUR
5 INTENT HERE IS SIMILAR TO WHAT YOU'VE HEARD IN THE
6 PREVIOUS TWO INSTANCES, IS TO INCORPORATE A
7 PREFERENCE-BASED MECHANISM THAT ALLOWS US TO FOCUS
8 THE FUNDING TO THE MOST RESPONSIVE PROJECTS THAT
9 CIRM RECEIVES.

10 SO I'M GOING TO FIRST DESCRIBE THE SORT OF
11 GUIDING PRINCIPLES FOR THE PRIORITIZATION AND THE
12 IMPLEMENTATION PLAN. SO THE GUIDING PRINCIPLES HERE
13 ARE FOCUSED ON FUNDING THERAPIES THAT OFFER
14 POTENTIAL FOR TRANSFORMATIVE CLINICAL IMPACTS, BUT
15 THAT ALSO ADDRESS BOTTLENECKS TO PATIENT ACCESS AND
16 AFFORDABILITY. WE'RE ALL VERY AWARE OF EXISTING
17 BOTTLENECKS IN THE CELL AND GENE THERAPY DELIVERY
18 SYSTEM FOR PATIENTS WITH RESPECT TO ACCESS AND
19 AFFORDABILITY. AND WE WANT THESE PROGRAMS AND NEXT
20 GENERATION TO ADDRESS SOME OF THOSE CHALLENGES.

21 AND LASTLY, TO FUND THERAPIES THAT ARE NOT
22 ADEQUATELY SUPPORTED BY FEDERAL FUNDING OR PRIVATE
23 INVESTMENT.

24 AND THIS IS RELEVANT BECAUSE I MENTIONED
25 SEVERAL EXISTING NIH OR OTHER FUNDING AGENCIES'

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1 PROGRAMS. AND WHAT I DID NOT MENTION AT THAT TIME
2 WAS THAT THOSE VARIOUS PROGRAMS HAVE A LIMITATION
3 THAT CIRM'S FUNDING MODEL OVERCOMES, WHICH IS THAT
4 THEY HAVE LIMITED PROGRAM BUDGETS, LIMITED AWARD
5 AMOUNTS, AND INFREQUENT FUNDING CYCLES.

6 SO THE IMPLEMENTATION PLAN FOR THE
7 PREFERENCES IS SIMILAR TO WHAT DR. LEK TAN DESCRIBED
8 PREVIOUSLY FOR DISC4. HERE THE GOAL IS TO BUILD A
9 DIVERSE PORTFOLIO OF THERAPEUTIC APPROACHES AND TO
10 ADAPT AND EVOLVE THE PREFERENCES ON AN ANNUALIZED
11 BASIS TO HELP CONSTRUCT THAT DIVERSE PORTFOLIO.

12 SO THE PRIORITIES THAT WE'LL PRESENT TO
13 THE BOARD ARE INFORMED BY INTERNAL PORTFOLIO AND
14 EXTERNAL LANDSCAPE ANALYSES. AND THE INTENT HERE IS
15 TO PRESENT THIS INFORMATION AND PROPOSE PREFERENCES
16 TO THE BOARD ON AN APPROXIMATE FISCAL YEAR BASIS TO
17 HELP CONSTRUCT THAT DIVERSE PORTFOLIO AND TO ACCOUNT
18 FOR CHANGES THAT ARE HAPPENING IN THE FIELD.

19 SO WITH THAT IN MIND, FOR THIS FIRST
20 FISCAL YEAR FOR THE PDEV PROGRAM, WE ARE PROPOSING A
21 SET OF PREFERENCES THAT ARE EITHER, ONE, RESPONSIVE
22 TO PROP 14 PRIORITIES OR RESPONSIVE TO THE
23 ACCELERATION FOCUS OF THE PROGRAM. AND SO I'M GOING
24 TO WALK THROUGH A FEW OF THESE.

25 THE FIRST THREE PRIORITIES HERE, THE FIRST

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1 THREE PREFERENCES HERE ARE FOCUSED ON MODALITIES
2 THAT CAN POTENTIALLY ADDRESS PATIENT ACCESS AND
3 AFFORDABILITY BARRIERS. SO THIS INCLUDES
4 PLURIPOTENT STEM CELL-DERIVED THERAPIES WHICH COULD
5 REPRESENT AN ABUNDANT RENEWABLE SOURCE FOR CELL
6 THERAPIES, IN VIVO GENETIC THERAPIES, WHICH COULD
7 OVERCOME SOME OF THE LIMITATIONS, EX VIVO GENETIC
8 THERAPIES BY ADDRESSING THOSE PATIENT ACCESS AND
9 AFFORDABILITY BARRIERS, AND LASTLY NONVIRAL NUCLEIC
10 ACID DELIVERY MECHANISMS WHICH CAN OVERCOME THE
11 EXISTING LIMITATIONS OF BIOMETRIC DELIVERY SYSTEMS.

12 THE FOURTH PREFERENCE, ALSO IN RESPONSE TO
13 PROP 14 PRIORITY, IS FOR DISEASES OF THE BRAIN AND
14 CNS. THE LAST TWO PREFERENCES THAT I MENTIONED ARE
15 RESPONSIVE TO THE ACCELERATION FOCUS. SO THE
16 PREFERENCE FOR DISC2 AND TRAN1 AWARDS ARE
17 PROGRESSING FROM OUR PORTFOLIO. AND LASTLY, A
18 PREFERENCE FOR PROGRAMS THAT ARE INFORMED BY FDA
19 INTERACTIONS WHETHER THEY BE INTERACT MEETING OR A
20 PRE-IND MEETING.

21 THESE PREFERENCES WILL BE FACTORED IN
22 DURING THE PRESUBMISSION PROCESS VERY SIMILAR TO
23 WHAT DISC4 HAS IN MIND. AND THEY COULD ALSO BE
24 FACTORED IN DURING THE ARS REVIEW BY THE BOARD.

25 SO I'M GOING TO GO THROUGH THE NEXT FEW

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1 SLIDES WALKING THROUGH SOME OF THE STANDARD FEATURES
2 OF THAT PROGRAM AS WELL AS SOME OF THE NEW FEATURES.
3 SO ON THIS SLIDE I'M GOING TO POINT OUT A COUPLE OF
4 THINGS. SO FIRST OF ALL, THE PDEV PROGRAM WILL BE
5 OFFERED TWICE A YEAR. IT WILL BE LIMITED TO
6 CALIFORNIA APPLICANTS ONLY. SO NON-PROFIT OR
7 FOR-PROFIT APPLICANTS THAT ARE BASED IN CALIFORNIA
8 AND MEET THE DEFINITION OF A CALIFORNIA
9 ORGANIZATION. THERE WILL BE A CO-FUNDING
10 REQUIREMENT FOR FOR-PROFITS AND PARTNERED
11 NON-PROFITS. THIS IS IDENTICAL TO THE EXISTING
12 TRAN1 AND CLIN1 CO-FUNDING REQUIREMENTS.

13 WE HAVE GRANTS OF ESTIMATED PROJECTIONS TO
14 ESTIMATE A PIPELINE THAT WOULD RESPOND TO THE SAF
15 GOAL 4. AND BASED ON THAT, FOR THE FIRST FISCAL
16 YEAR, WE'RE REQUESTING THE PROGRAM BUDGET OF \$160
17 MILLION. DEPENDING ON THE NATURE OF THE AWARDS THAT
18 COME IN, WHETHER THEY'RE ASKING FOR BOTH STAGES OF
19 DEVELOPMENT OR JUST THE LATE STAGE, THE NUMBER OF
20 AWARDS THAT CAN BE FUNDED ARE 12 TO 21 PER YEAR WITH
21 THAT FISCAL YEAR BUDGET. HERE IN THIS TABLE WE'RE
22 DISPLAYING A PROJECTION AS A REPRESENTATIVE EXAMPLE
23 WHERE THIS AMOUNT OF FUNDING COULD POTENTIALLY FUND
24 SEVEN EARLY PDEV AWARDS AND NINE LATE PDEV AWARDS.
25 AND THIS WOULD STRIKE A BALANCE BETWEEN SUPPORTING

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1 INNOVATIVE, EARLY STAGE THERAPIES AS WELL AS
2 ACCELERATING PROJECTS TO CLINICAL PIPELINE BY
3 SUPPORTING THOSE LATE STAGE PDEV AWARDS.

4 AS YOU'RE AWARE, EVERY APPLICANT HAS TO
5 MEET CERTAIN ELIGIBILITY REQUIREMENTS. FOR THE PDEV
6 PROGRAM, THESE ELIGIBILITY REQUIREMENTS ARE LARGELY
7 SIMILAR TO THE EXISTING TRAN1 AND CLIN1 PROGRAM
8 REQUIREMENTS. SO, FOR EXAMPLE, THIS INCLUDES
9 CANDIDATE READINESS REQUIREMENTS, PI AND PROJECT
10 MANAGER MINIMUM EFFORT REQUIREMENTS, THE ABILITY TO
11 DEMONSTRATE THE CO-FUNDING AT THE TIME OF
12 APPLICATION, AND TO DEMONSTRATE THE ABILITY TO REACH
13 THE EXPECTED OUTCOME, WHICH IS IND SUBMISSION AND
14 CLEARANCE.

15 SO ON THE NEXT COUPLE SLIDES, I'LL DEFINE
16 SOME OF THE NEW FEATURES, MODIFIED FEATURES OF THIS
17 PROGRAM COMPARED TO OUR EXISTING PROGRAMS. SO AS
18 DR. LEK TAN MENTIONED, THIS PROGRAM WILL INCORPORATE
19 A PRESUBMISSION PROCESS. THIS IS MEANT TO MANAGE
20 THE HIGH APPLICATION VOLUMES. IT'S ALSO MEANT TO
21 REDUCE THE BURDEN FOR APPLICANTS BECAUSE THEY'RE
22 SUBMITTING A PRESUBMISSION ON WHICH CIRM IS
23 IMPLEMENTING ITS PROGRAM PREFERENCES. AND THIS ALSO
24 ALLOWS CIRM TO PREPLAN THE GRANTS WORKING GROUP
25 COMPOSITION AND HAVE A MORE ROBUST SCIENTIFIC REVIEW

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1 WHEN THOSE APPLICATIONS COME IN AND ARE REVIEWED BY
2 THE GWG.

3 SPEAKING OF THE GWG REVIEW, THIS PROGRAM
4 WILL ADOPT THE 1 TO 100 NUMERICAL SCORING SYSTEM FOR
5 GWG. AND THIS WILL ALIGN ACROSS ALL CIRM PROGRAMS.
6 AND THAT'S SORT OF A RANGE OF SCORING IMPROVES
7 GRANULARITY AND VISIBILITY FOR SCORE-DRIVING
8 DECISIONS.

9 SO THIS SLIDE WILL HIGHLIGHT SOME OF THE
10 REQUIREMENTS THAT ARE MEANT TO BROADLY SUPPORT AND
11 REDUCE BOTTLENECKS TO DEVELOPMENT OF CELL AND GENE
12 THERAPIES AS WELL AS TO AIM FOR PLANNING FOR
13 COMMERCIALIZATION. SO FIRST AND FOREMOST, AS YOU
14 ALL KNOW, CELL AND GENE THERAPIES DEVELOPMENT NEEDS
15 TO FOCUS VERY EARLY ON ON ACCESS AND AFFORDABILITY
16 MARKET ACCESS. AND SO WE'LL BE REQUIRING STAGE
17 APPROPRIATE MARKET ACCESS PLANNING ACTIVITIES ACROSS
18 BOTH THE PDEV AND CLIN2 PROGRAMS WITH A PARTICULAR
19 FOCUS ON ACCESS AND AFFORDABILITY PLANNING. AND
20 WE'RE CURRENTLY WORKING WITH CONSULTANTS TO DEVELOP
21 A ROADMAP OF WHAT ARE STAGE APPROPRIATE ACTIVITIES
22 ACROSS PRECLINICAL AND CLINICAL DEVELOPMENT, AND
23 THEN TO INCORPORATE THAT ROADMAP INTO THE EVALUATION
24 OF APPLICATIONS AS WELL AS SUPPORT FOR CONDUCTING
25 THOSE ACTIVITIES OVER THE COURSE OF A PDEV AWARD.

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1 THIS PROGRAM WILL ALSO INCORPORATE THE
2 DATA SHARING AND MANAGEMENT PLAN REQUIREMENTS IN
3 COORDINATION WITH CIRM'S OVERARCHING DATA
4 INITIATIVES. AND THE LAST POINT HERE IS A TOP
5 PRIORITY FOR THE PDEV TEAM. WE WANT TO BE ABLE TO
6 REQUIRE AND FACILITATE PRECOMPETITIVE SHARING
7 BETWEEN OUR PDEV AWARDEES, EFFECTIVELY CREATING A
8 KNOWLEDGE NETWORK OF OUR PDEV AWARDEES WHERE THEY
9 CAN SHARE BEST PRACTICES FOR REGULATORY
10 INTERACTIONS, FOR STUDY DESIGNS, FOR ASSAY
11 DEVELOPMENT ALL WITH THE AIM OF HELPING ALL THE
12 PROGRAMS ADVANCE TO FIRST-IN-HUMAN CLINICAL TRIALS.

13 AND IN THE SPIRIT OF ADVANCING ALL
14 PROJECTS, WE ARE ALSO MAKING SOME ENHANCEMENTS TO
15 OUR AWARD MANAGEMENT PRACTICES. SO FIRST AND
16 FOREMOST, WE ARE COMMITTING TO HAVING A MORE
17 PROACTIVE AWARD MANAGEMENT APPROACH THAT INCREASES
18 REAL-TIME INTERACTIONS BETWEEN CIRM AND THE AWARDEE
19 PROJECT TEAMS. THIS ALSO INCORPORATES RELEVANT
20 EXPERTISE FROM THE MANUFACTURING LEADERSHIP OF THOSE
21 PROJECT TEAMS, AND IT ALSO ENSURES THAT CIRM IS
22 PARTICIPATING MEANINGFULLY IN THE FDA MEETINGS.

23 WE ARE ALSO PROPOSING TO INCORPORATE AN
24 EXTERNAL PRODUCT DEVELOPMENT EXPERT NETWORK OF
25 EXTERNAL CONSULTANTS IN PRECLINICAL DEVELOPMENT, IN

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1 CLINICAL DEVELOPMENT, REGULATORY EXPERTISE, AS WELL
2 AS DISEASE AREA EXPERTISE THAT WILL SUPPORT CIRM
3 SCIENCE OFFICERS AND PROJECT TEAMS TO ACCELERATE
4 THESE PROJECTS TO IND CLEARANCE. SO THIS, IN
5 EFFECT, IS MEANT TO COMPLEMENT THE INTERNAL
6 EXPERTISE OF THE CIRM SCIENCE OFFICERS AND TO BE A
7 BRAIN TRUST THAT THE SCIENCE OFFICERS AS WELL AS THE
8 AWARDEE TEAMS CAN LEVERAGE TO HELP SUPPORT THEIR
9 ACTIVITIES AND THEIR PLANNING AS THEY PROGRESS
10 THROUGH THE STAGES OF PRECLINICAL DEVELOPMENT.

11 WE WILL ALSO RETAIN THE OPERATIONAL
12 MILESTONE-DRIVEN AWARD MANAGEMENT STRUCTURE OF
13 CLIN1. AND IN THIS PARTICULAR INSTANCE, AS A
14 REMINDER, ALL OF OUR TRANSLATIONAL, CLINICAL AWARDS
15 ARE MILESTONE DRIVEN. AND SO CIRM WILL MAKE A
16 DISBURSEMENT THAT ALLOWS THE AWARDEE TO REACH THE
17 PREDEFINED OPERATIONAL MILESTONE. ONCE THAT
18 MILESTONE HAS BEEN REACHED, THE SECOND DISBURSEMENT
19 IS MADE, ALLOWING THEM TO GET TO THAT NEXT
20 MILESTONE. AND SO THAT'S A WAY TO EFFECTIVELY
21 DERISK CIRM'S INVESTMENT IN THESE PROJECTS AND TO
22 ALSO ENSURE THAT THERE'S TIMELY ACHIEVEMENT OF THOSE
23 MILESTONES AND THAT THEY'RE OBJECTIVELY MET.

24 SO WE'LL ALSO LEVERAGE OUR PROACTIVE
25 COMMUNICATION COMMITMENT TO MAKE SURE THAT WE CAN

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1 MITIGATE ANY PROJECT DELAYS THAT MIGHT ARISE OVER
2 THE COURSE OF THAT PROJECT.

3 SO I'M GOING TO END ON THIS SLIDE, WHICH
4 IS DEMONSTRATING THE FIRST CYCLE. SO IF THE BOARD
5 APPROVES THIS CONCEPT AT THE END OF MARCH, WE'RE
6 EXPECTING TO ROLL OUT THE PROGRAM WITHIN THE NEXT
7 TWO MONTHS. AND AT THE MOMENT, THE CYCLE FROM
8 PRESUBMISSION TO AWARD CONTRACTING IS ESTIMATED TO
9 BE ABOUT TEN MONTHS.

10 SO IN SUMMARY, THE OBJECTIVE OF THE PDEV
11 PROGRAM IS TO ACCELERATE PRECLINICAL DEVELOPMENT TO
12 FIRST-IN-HUMAN CLINICAL TRIALS OF STEM CELL-BASED
13 AND GENETIC THERAPIES. THE EXPECTED OUTCOME IS IND
14 CLEARANCE OF THOSE THERAPIES FOR THAT INDICATION.
15 WE WILL SUPPORT ALL NECESSARY ACTIVITIES TO GET TO
16 THAT OUTCOME. AND LASTLY, WE WILL TO FOCUS THE
17 FUNDING FOR MAXIMAL IMPACT, WE WILL INCORPORATE A
18 SET OF PREFERENCES THAT ARE REVIEWED ANNUALLY BY THE
19 BOARD.

20 SO WITH THAT, WE REQUEST A MOTION FROM THE
21 SCIENCE SUBCOMMITTEE AND NEURO TASK FORCE TO
22 RECOMMEND APPROVAL TO THE FULL ICOC OF THE PDEV
23 CONCEPT. THANK YOU.

24 CHAIRMAN FISCHER-COLBRIE: THANK YOU SO
25 MUCH, SHYAM. GREAT PRESENTATION. I REALLY

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1 APPRECIATE IT WITH AN EDITORIAL COMMENT THAT THIS
2 HAS THE OPPORTUNITY TO ACCELERATE THE PROCESS OF
3 GETTING THINGS INTO CLINICAL TRIALS. VERY
4 INTERESTING PROPOSAL HERE. AND WITH THAT, I'D LIKE
5 TO CALL FOR A MOTION AND A SECOND.

6 DR. YAMAMOTO: SO MOVED.

7 DR. SOUTHARD: SOUTHARD SECONDS.

8 CHAIRMAN FISCHER-COLBRIE: THANK YOU. AND
9 LET'S OPEN IT UP FOR DISCUSSION AND QUESTIONS BY THE
10 COMMITTEES.

11 DR. LEVITT: I GUESS I'LL START. WHAT A
12 REPUTATION. THIS IS LIKE KINDERGARTEN ALL OVER
13 AGAIN FOR ME.

14 SO THAT WAS GREAT. I LOVE THE CONCEPT. I
15 THINK YOU'RE RIGHT. IT'S GOING REALLY SPEED THINGS
16 UP IN A BIG WAY.

17 THE SHARING COMPONENT WHICH YOU'VE SORT
18 OF -- YOU MENTIONED, HOW DO YOU THINK THAT'S GOING
19 TO WORK? BECAUSE LET'S SAY, I DON'T KNOW, LET'S SAY
20 JEFF GOLDEN DISCOVERS THROUGH HIS RESEARCH THIS
21 AMAZING ASSAY THAT COSTS \$1 INSTEAD OF A \$1,000 AND
22 THEY'RE IN THE PROCESS OF USING IT FOR SOME
23 SCREENING OF SOME SORT AND THEN PUT IT INTO A
24 PROGRESS REPORT TO YOU ALL. IS THAT -- HOW IS THE
25 SHARING GOING TO OCCUR? HE HASN'T FILED WITH HIS

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1 TECH TRANSFER YET BECAUSE HE'S LAZY. SORRY, JEFF.
2 AND SO HOW IS THE SHARING GOING TO WORK? HOW IS
3 CIRM GOING TO ENFORCE THE SHARING? ENFORCING DATA
4 SHARING ONCE PUBLISHED, THAT'S PRETTY
5 STRAIGHTFORWARD. ENFORCING THE DATA MANAGEMENT, THE
6 DATA MANAGEMENT APPROACH IS THEY HAVE TO HAVE A
7 ROBUST PLAN, THAT'S ENFORCEABLE. BUT WHERE DO YOU
8 SEE THIS OCCURRING? LIKE AT WHAT POINT IN THESE
9 INVESTIGATIONS WHERE THIS IS GOING TO BE OCCURRING?

10 DR. PATEL: FIRST OF ALL, I APPRECIATE
11 THAT YOU WENT FIRST, PAT. AND DR. GOLDEN IS BUSY.
12 THIS JUST WILL TAKE AWHILE. SO WE WANT TO BE
13 CAREFUL AROUND THE DATA SHARING. SO THERE'S TWO
14 COMPONENTS TO THAT. THE KNOWLEDGE NETWORK PART IS
15 MEANT TO BE MORE COLLABORATIVE IN NATURE. FOR
16 EXAMPLE, THERE COULD BE SOME ASSAYS THAT ARE ROUTINE
17 AND EVERYBODY IS RUNNING THEM. AND SO IN THAT
18 INSTANCE, DOES IT MAKE SENSE TO RE-INVENT THE WHEEL
19 AND SPEND CIRM DOLLARS EVERY SINGLE TIME? COULD
20 THERE BE SOMETHING THAT THEY COULD SHARE?

21 FOR PROPRIETARY ASSAYS LIKE THE ONE YOU
22 MENTIONED, THERE'S TWO COMPONENTS THAT WE NEED TO BE
23 CAREFUL OF. SO ON THE DATA SHARING PART, WE WANT TO
24 MAKE SURE THAT ANY DATA SHARING REQUIREMENTS THAT WE
25 PUT OUT FOR THIS PROGRAM ARE ULTIMATELY GOING TO BE

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1 SOMETHING WHERE THE SHARED DATA CAN BE USEFUL FOR
2 PRECLINICAL DEVELOPMENT. SO WE REALLY WANT TO FOCUS
3 ON THAT, FIND OUT HOW WE CAN DO THAT, AND DO IT
4 WITHOUT JEOPARDIZING THE DEVELOPMENT OF ANY
5 PARTICULAR THERAPEUTIC CANDIDATE. AND SO THAT PART
6 IS SOMETHING WE'RE THINKING THROUGH.

7 IF, FOR EXAMPLE, THAT PARTICULAR ASSAY
8 THAT DR. GOLDEN IS DEVELOPING COULD BE USEFUL FOR
9 ANOTHER AWARDEE, WE MAY, FOR THE KNOWLEDGE NETWORK
10 PART, TRY TO FACILITATE INTERACTION BETWEEN THOSE
11 AWARDEES, RIGHT, WHERE IT MIGHT SENSE. NOW, WE'RE
12 NOT SAYING THAT WE OURSELVES ARE GOING TO DISCLOSE
13 THAT. WE WOULD HAVE TO GO THROUGH AND DISCUSS IT
14 WITH BOTH AWARDEES IF IT MAKES SENSE FOR THEM TO
15 COLLABORATE, COORDINATE, OR SHARE SOMEBODY'S. SO
16 THAT'S HOW THE KNOWLEDGE NETWORK COMPONENT WILL COME
17 INTO PLAY.

18 THE DATA SHARING REQUIREMENT IS GOING TO
19 BE SOMETHING THAT WE CAREFULLY THINK THROUGH AS TO
20 WHAT DATA CAN BE SHARED WITH THE ULTIMATE INTENT OF
21 MAKING SURE THAT WHATEVER IS SHARED IS ACTUALLY
22 USEFUL.

23 DR. LEVITT: OKAY. THAT'S IMPORTANT. AS
24 YOU KNOW, YOU KNOW THIS BETTER THAN I, CLARIFYING
25 THIS SO THAT INSTITUTIONS UNDERSTAND THAT WHEN

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1 INVESTIGATORS SAY THIS IS PART OF WHAT OUR
2 RESPONSIBILITY IS, THEY DON'T COMPLETELY LOSE IT AND
3 SAY, NO, YOU CAN'T APPLY FOR THAT GRANT BECAUSE ALL
4 THINGS HAVE TO BE HELD CLOSE TO THE VEST OR
5 SOMETHING. SO THAT WILL HELP IN TERMS OF
6 CLARIFICATION OF WHAT THE EXPECTATIONS ARE. AND
7 CERTAINLY CIRM FACILITATING COLLABORATIONS, DID YOU
8 KNOW THAT JEFF HAS THIS AMAZING ASSAY, YOU SHOULD
9 TALK TO HIM ABOUT IT KIND OF A THING, RIGHT? IF THE
10 INVESTIGATORS KNOW THAT THAT IS GOING TO BE PART OF
11 THE PROCESS, I THINK THEY'LL BE ENCOURAGED BY THAT.

12 DR. PATEL: WE'RE ALSO THINKING ABOUT
13 HAVING FOCUSED WORKSHOPS AROUND THIS PARTICULAR
14 TOPIC THAT'S RELEVANT TO MULTIPLE AWARDEES INSTEAD
15 OF DOING IT IN A SETTING WHERE IT'S JUST CIRM
16 AWARDEES, MAYBE THEY'RE MORE WILLING TO PARTICIPATE
17 AND COORDINATE THAT WAY.

18 DR. LEVITT: YEP.

19 DR. PATEL: I APPRECIATE THE COMMENT THAT
20 YOU MADE IN DR. CHAN LEK TAN'S PRESENTATION AS WELL
21 OF BEING VERY CLEAR ABOUT OUR EXPECTATIONS IN THE PA
22 AND THE APPLICATION. SO THANK YOU FOR THAT.

23 MR. TOCHER: NOT SEEING ANY OTHER HANDS AT
24 THE MOMENT, MARK.

25 MS. MANDAC: MARK, YOU SEEM TO BE ON MUTE.

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1 MR. TOCHER: MARK, COULD YOU GIVE US AN
2 AUDIO CHECK? I'M NOT HEARING YOU IF YOU'RE IN THE
3 ROOM.

4 CHAIRMAN FISCHER-COLBRIE: SORRY ABOUT
5 THAT. MY APOLOGIES. THAT NEVER HAPPENS. I DON'T
6 KNOW WHAT HAPPENED.

7 ANY QUESTIONS FROM THE COMMITTEES BEFORE
8 WE CLOSE THE CONVERSATION? ANY COMMENTS OR
9 QUESTIONS FROM THE COMMITTEE?

10 MR. TOCHER: I DON'T SEE ANY OTHER HANDS.

11 CHAIRMAN FISCHER-COLBRIE: OKAY. GREAT.
12 ANYBODY FROM THE PUBLIC, QUESTIONS OR COMMENTS?

13 MR. TOCHER: NO, DOESN'T APPEAR SO.

14 CHAIRMAN FISCHER-COLBRIE: OKAY. THANK
15 YOU. WELL, LET'S GO AHEAD WITH THE ROLL CALL VOTE,
16 SCOTT. THANK YOU.

17 MR. TOCHER: AND THE MOTION IS TO
18 RECOMMEND TO THE ICOC APPROVAL OF THE PDEV CONCEPT
19 PLAN.

20 MARIA BONNEVILLE.

21 VICE CHAIR BONNEVILLE: YES.

22 MR. TOCHER: LEONDRA CLARK-HARVEY.

23 DR. CLARK-HARVEY: YES.

24 MR. TOCHER: DEBORAH DEAS.

25 DR. DEAS: YES.

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1 MR. TOCHER: MARK FISCHER-COLBRIE.
2 CHAIRMAN FISCHER-COLBRIE: YES.
3 MR. TOCHER: ELENA FLOWERS.
4 DR. FLOWERS: YES.
5 MR. TOCHER: JUDY GASSON.
6 DR. GASSON: YES.
7 MR. TOCHER: JEFF GOLDEN.
8 DR. GOLDEN: YES.
9 MR. TOCHER: DAVID HIGGINS.
10 DR. HIGGINS: YES.
11 MR. TOCHER: VITO IMBASCIANI.
12 CHAIRMAN IMBASCIANI: YES.
13 MR. TOCHER: PAT LEVITT.
14 DR. LEVITT: YES.
15 MR. TOCHER: CAROLYN MELTZER.
16 DR. MELTZER: YES.
17 MR. TOCHER: CHRIS MIASKOWSKI.
18 DR. MIASKOWSKI: YES.
19 MR. TOCHER: MARV SOUTHARD.
20 DR. SOUTHARD: YES.
21 MR. TOCHER: KAROL WATSON.
22 DR. WATSON: YES.
23 MR. TOCHER: KEITH YAMAMOTO.
24 DR. YAMAMOTO: YES.
25 MR. TOCHER: THANK YOU VERY MUCH. MARK,

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1 THE MOTION CARRIES UNANIMOUSLY.

2 DR. PATEL: THANK YOU.

3 VICE CHAIR BONNEVILLE: THANK YOU, SHYAM,
4 SO MUCH.

5 DR. YAMAMOTO: GREAT JOB.

6 CHAIRMAN FISCHER-COLBRIE: THAT'S A LOT TO
7 GO THROUGH. SO LET'S PROCEED.

8 MR. TOCHER: WE'RE ON THE HOME STRETCH
9 NOW, MARK. AND WE'RE JUST SETTING UP HERE. STAND
10 BY. WE'RE JUST GETTING THE PRESENTATION COMPUTER
11 SET UP.

12 CHAIRMAN FISCHER-COLBRIE: NO PROBLEM.

13 DR. KADYK: OKAY. GOOD AFTERNOON, MEMBERS
14 OF THE BOARD AND COLLEAGUES AND MEMBERS OF THE
15 PUBLIC. MY NAME IS LISA KADYK. I'M A MEMBER OF THE
16 CLINICAL DEVELOPMENT TEAM AT CIRM.

17 AND I'M HERE TO PRESENT TO YOU PROPOSED
18 UPDATES TO THE CLIN2 CONCEPT. CLIN2 IS OUR FUNDING
19 OPPORTUNITY FOR CLINICAL TRIAL STAGE AWARDS. AND MY
20 PRESENTATION IS GOING TO FOLLOW THE SAME OUTLINE
21 THAT YOU'VE SEEN FOR THE PREVIOUS CONCEPT
22 PRESENTATIONS.

23 SO, AGAIN, THE CLIN2 UPDATE IS AGAIN
24 RESPONSIVE TO GOAL 4 OF THE SAF THAT WAS APPROVED BY
25 THE BOARD BACK IN SEPTEMBER. AND THAT GOAL IS TO

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1 PROPEL 15 TO 20 THERAPIES TARGETING DISEASES
2 AFFECTING CALIFORNIANS TO LATE STAGE TRIALS. AND
3 THE UPDATES TO THE CLIN2 PROGRAM ARE TO ALLOW FOR
4 SUPPORT OF EMERGING NOVEL CLINICAL TRIAL DESIGNS,
5 INCENTIVIZE STAGE APPROPRIATE MARKET ACCESS STRATEGY
6 DEVELOPMENT, AND PRECOMMERCIALIZATION ACTIVITIES,
7 AND ALSO, AS FOR THE OTHER PROGRAMS, INCORPORATING
8 PRIORITIZATION OF INNOVATIVE THERAPIES FOR DISEASES
9 THAT AFFECT CALIFORNIANS.

10 SO I'LL START WITH A LITTLE BIT OF
11 BACKGROUND INFORMATION ABOUT SOME OF THE CHALLENGES
12 AND OPPORTUNITIES THAT WE SEE IN OUR CLIN2 PROGRAM.
13 TO START, THE CLINICAL DEVELOPMENT TEAM DID A DEEP
14 DIVE ANALYSIS OF OUR EXISTING CLINICAL TRIAL
15 DATASET, WHICH AT THE TIME WAS 110 CLINICAL TRIALS
16 THAT HAS BEEN FUNDED BY CIRM. AND THIS INCLUDES
17 BOTH ACTIVE AND CLOSED AWARDS. AND AS PART OF THAT
18 ANALYSIS, WE IDENTIFIED A NUMBER OF CHALLENGES THAT
19 SOMETIMES ARISE FOR OUR CLINICAL TRIAL AWARDS,
20 INCLUDING DELAYS IN REACHING OPERATIONAL MILESTONES,
21 LACK OF ADVANCEMENT TO THE NEXT PHASE CLINICAL
22 TRIAL, LACK OF PARTNERSHIPS THAT COULD TAKE THE
23 PROGRAM FORWARD TO NON-CIRM FUNDING, AND LACK OF
24 EMPHASIS ON COMMERCIALIZATION PLANNING.

25 IN ADDITION, WE DID A STUDY OR WE READ A

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1 STUDY THAT WAS DONE BY IQVIA OF A BROADER LANDSCAPE
2 ANALYSIS OF THE CELL AND GENE THERAPY FIELD. AND
3 ONE IMPORTANT CONCLUSION FROM THAT STUDY WAS THAT 50
4 PERCENT OF MARKETED CELL AND GENE THERAPIES THAT
5 ORIGINATE IN ACADEMIA OR EMERGING BIOPHARMA ARE
6 LAUNCHED EVENTUALLY BY A LARGER COMPANY. AND, IN
7 FACT, ACADEMIA AND EMERGING BIOPHARMA ARE CLIENTELE
8 OF CLIN2 AWARDS. SO WE CONCLUDE THAT CIRM'S
9 CLINICAL PROGRAMS WILL EVENTUALLY DEPEND ON
10 PARTNERING FOR BLA AND COMMERCIALIZATION.

11 AND SO WE THINK THERE'S AN OPPORTUNITY NOW
12 TO HELP OUR CLINICAL TRIAL AWARDS BE BETTER
13 POSITIONED FOR PARTNERING AND FOR EVENTUAL BLA AND
14 COMMERCIALIZATION. AND TOWARD THAT END, WE WANT TO
15 MAKE SOME MODIFICATIONS TO THE EXISTING CLIN2
16 CONCEPT AND PROGRAM ANNOUNCEMENT TO ENCOURAGE
17 EARLIER DEVELOPMENT OF CLINICAL AND MANUFACTURING
18 STRATEGIES, TO HAVE A MARKET ACCESS STRATEGY, AND TO
19 HAVE STAGE APPROPRIATE PRECOMMERCIALIZATION
20 ACTIVITIES.

21 SO, AGAIN, THE OBJECTIVE OF THE CLIN2
22 AWARDS IS TO ACCELERATE CLINICAL DEVELOPMENT OF STEM
23 CELL-BASED AND GENETIC THERAPIES TO LATE STAGE
24 TRIALS BY ENCOURAGING INNOVATIVE CLINICAL TRIAL
25 DESIGNS AND BY INCENTIVIZING STAGE APPROPRIATE

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1 MARKET ACCESS ACTIVITIES AND PRECOMMERCIALIZATION
2 ACTIVITIES.

3 SO I'M GOING TO START OUT WITH OUTLINING
4 THE SCOPE OF THE CLIN2 PROGRAM. THIS IS, AGAIN, TO
5 FUND PHASE 1, 2, OR 3 CLINICAL TRIALS, INCLUDING
6 REGISTRATIONAL TRIALS USING A REGENERATIVE MEDICINE
7 APPROACH, CELL AND GENE THERAPY-BASED APPROACHES.
8 AND I'LL DISCUSS FIRST THE REQUIRED ELEMENTS AND
9 ACTIVITIES OF A CLIN2 AWARD AS WELL AS, THEN, THE
10 ALLOWABLE ACTIVITIES.

11 SO STARTING WITH THE REQUIRED ACTIVITIES,
12 FIRST OF ALL, OF COURSE, WE DO EXPECT COMPLETION OF
13 A CLINICAL TRIAL, BUT WE'RE ALSO GOING TO HIGHLIGHT
14 GOING FORWARD THAT WE'RE ENCOURAGING THOSE THAT HAVE
15 ACCELERATING CLINICAL TRIAL DESIGNS, SUCH AS BASKET
16 TRIALS OR ADAPTIVE TRIAL DESIGNS. IN ADDITION, AND
17 THIS IS NEW, WOULD BE THAT THE AWARDEE WOULD BE
18 REQUIRED TO ESTABLISH A STRATEGIC PLANNING
19 COMMITTEE. AND SO WHAT'S THAT? WE ENVISION THAT
20 THAT WOULD BE COMPRISED OF EXPERTS WHO HAVE
21 EXPERTISE IN BRINGING A CELL AND/OR GENE THERAPY ALL
22 THE WAY TO BLA AND MARKETING SO THAT THEY HAVE
23 EXPERTISE IN THE REGULATORY AND MANUFACTURING AND
24 PRECOMMERCIALIZATION ACTIVITIES THAT ARE NEEDED AND
25 WILL BE ABLE TO PROVIDE A REAL STRATEGIC AND

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1 FORWARD-THINKING ADVICE TO OUR GRANTEES.

2 IN ADDITION, WE WANT TO NOW INCORPORATE A
3 DATA SHARING REQUIREMENT IN THE CLIN2 AWARDS TO
4 ENSURE THAT EVENTUALLY CLINICAL TRIAL DATA THAT
5 CIRM'S FUNDED WILL BE FINDABLE AND ACCESSIBLE FOR
6 THOSE WHO COULD BENEFIT FROM IT IN THE FUTURE.

7 WE WANT TO CONTINUE TO ENCOURAGE ALL OF
8 OUR CLINICAL TRIALS TO HAVE APPROPRIATE OUTREACH
9 THAT THEY CAN ENROLL A DEMOGRAPHIC POPULATION INTO
10 THEIR TRIAL THAT MATCHES THE DEMOGRAPHICS OF THE
11 DISEASE POPULATION AT LARGE.

12 AND FINALLY, WE'RE NOW ADDING A MUCH
13 GREATER EMPHASIS, AS I MENTIONED EARLIER, ON STAGE
14 APPROPRIATE COMMERCIALIZATION AND ACCESS AND
15 AFFORDABILITY ACTIVITIES, ALL REQUIRED.

16 WE ALSO HAVE SOME OTHER ACTIVITIES THAT
17 ARE ALLOWABLE, BUT NOT NECESSARILY REQUIRED. ONE OF
18 WHICH IS WE WOULD FUND NATURAL HISTORY STUDIES THAT
19 ARE FDA APPROVED THAT MAY BE NEEDED FOR BASELINE OR
20 CONTROL DATA WHEN THAT STUDY IS BEING DONE IN
21 CONJUNCTION WITH AN INTERVENTIONAL TRIAL FUNDED
22 UNDER THAT SAME AWARD.

23 ALSO, WE WOULD ALLOW MANUFACTURING FOR THE
24 NEXT PHASE TRIAL. WE HAVE ALWAYS ALLOWED THAT IN
25 THE CLIN2 PROGRAM BECAUSE WE BELIEVE THAT IS AN

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1 ACCELERATING ACTIVITY TO HAVE PRODUCT MADE FOR THE
2 NEXT PHASE TRIAL IF THE PROGRAM IS MOVING ON.
3 HOWEVER, WE WANT TO MAKE A WILL LITTLE TWEAK TO HOW
4 THAT IS DONE AND HAVE THAT ACTIVITY -- INITIATION OF
5 SUCH AN ACTIVITY, WHICH IS VERY EXPENSIVE ACTIVITY,
6 NOW BE GATED ON AN EVALUATION OF THE CURRENT TRIAL
7 DATA TO BE SURE THAT THE PROGRAM REALLY IS WARRANTED
8 FOR THAT PROGRAM TO GO ON TO THE NEXT STAGE TRIAL
9 AND ALSO GATED ON THE ABILITY OF THE AWARDEE TO
10 PROVIDE 50 PERCENT CO-FUNDING FOR THAT MANUFACTURING
11 ACTIVITY.

12 SO THIS IS JUST A REMINDER THAT ONE OF THE
13 MANDATES FROM THE UPDATES FROM THE SAF GOAL 4 IS TO
14 INCORPORATE PRIORITIZATION OF INNOVATIVE THERAPIES
15 FOR DISEASES THAT AFFECT CALIFORNIANS AS WAS
16 MENTIONED, ALSO FOR THE PRECLINICAL DEVELOPMENT
17 PROGRAM. AND SO I HAVE -- THIS IS ACTUALLY THE SAME
18 SLIDE THAT DR. PATEL JUST RECENTLY WENT THROUGH IN
19 MORE DETAIL FOR THE PRECLINICAL DEVELOPMENT PROGRAM.
20 WE HAD THE SAME GUIDING PRINCIPLES AND AN
21 IMPLEMENTATION PLAN FOR IDENTIFYING PREFERENCES THAT
22 COULD BE USED GOING FORWARD FOR THE CLINICAL
23 PROGRAM. AND WE WANTED THIS TO BE VERY MUCH IN
24 ALIGNMENT WITH THE PRECLINICAL DEVELOPMENT PROGRAM.

25 SO ON THE NEXT SLIDE I'LL SHOW YOU THE

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1 PREFERENCES THAT WE PROPOSE FOR CLIN2. AND YOU'LL
2 SEE HERE ACTUALLY THE TOP HALF OF THE TABLE IS
3 IDENTICAL TO THE TOP HALF OF THE PRECLINICAL
4 DEVELOPMENT PREFERENCES RECOMMENDATIONS THAT DR.
5 PATEL WENT THROUGH. SO THE FIRST THREE LINES ARE
6 PREFERRED THERAPEUTIC MODALITIES THAT WE THINK CAN
7 ADDRESS PATIENT ACCESS AND AFFORDABILITY BARRIERS.
8 AND THE FOURTH LINE IS PRIORITIZING DISEASES OF THE
9 BRAIN AND CNS, WHICH, OF COURSE, IS A PROP 14
10 PRIORITY.

11 IN ADDITION, DOWN IN THE BOTTOM HALF OF
12 THE TABLE IN BOLD, ARE OTHER PREFERENCES THAT WE
13 WANT TO PROPOSE TO BE SPECIFIC TO THE CLIN2 AWARD
14 MECHANISM. THE FIRST BEING THAT WE WOULD GIVE
15 PREFERENCE TO APPLICANTS WHO ARE CALIFORNIA-BASED
16 ORGANIZATIONS SINCE, OF COURSE, THIS IS A CALIFORNIA
17 TAXPAYER FUNDED INITIATIVE.

18 IN ADDITION, WE WOULD GIVE PREFERENCES TO
19 PIPELINE IND-ENABLING STAGE OR PREVIOUS EARLIER
20 CLINICAL TRIAL STAGE AWARDS.

21 WE WOULD GIVE PREFERENCE TO PROGRAMS THAT
22 HAVE ALREADY RECEIVED RMAT OR FDA DESIGNATIONS FROM
23 THE FDA WHICH ARE ACCELERATING TOWARDS BLA BECAUSE
24 YOU GET GREATER FDA ACCESS WITH THOSE DESIGNATIONS.

25 AND FINALLY, WE WOULD GIVE PREFERENCE TO

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1 ANY APPLICANT WHO'S PROPOSING A PIVOTAL TRIAL.
2 AND THESE ARE ALL OBJECTIVE PREFERENCES
3 THAT COULD BE USED EITHER DURING THE PREREVIEW
4 PROCESS OR IN THE APPLICATION REVIEW SUBCOMMITTEE OF
5 THE BOARD.

6 OKAY. SO JUST TO MOVE ON TO THE STRUCTURE
7 OF THE CLIN2 PROGRAM, THIS PROGRAM'S ACTUALLY
8 STRUCTURE IS ALMOST IDENTICAL TO WHAT IT WAS BEFORE.
9 SO I JUST HIGHLIGHTED IN BOLD A COUPLE OF
10 DIFFERENCES THAT I WANT TO HIGHLIGHT TODAY. THE
11 FIRST IS IN THE FIRST LINE WHICH IS THE RECURRENCE.
12 WE'RE PROPOSING THAT THIS OPPORTUNITY BE OFFERED
13 QUARTERLY INSTEAD OF MONTHLY AS IT WAS PREVIOUSLY.
14 AND WE ALSO WANT TO CHANGE THE CO-FUNDING
15 REQUIREMENTS FOR LATER PHASE TRIALS, PHASE 2 OR
16 BEYOND, TO 50 PERCENT WHERE THEY PREVIOUSLY WERE 40
17 PERCENT. AND THIS IS IN LINE WITH OUR GOAL TO
18 REALLY INCENTIVIZE INVESTMENT FROM PARTNERS FOR
19 PROGRAMS THAT REALLY LOOK PROMISING TO GO ALL THE
20 WAY TO BLA.

21 WE ARE GOING TO PROPOSE A BUDGET OF \$135
22 MILLION FOR THE FIRST FISCAL YEAR, 25/26. AND THIS
23 WAS PROPOSED BECAUSE WE FEEL LIKE IT CAN ENCOMPASS A
24 VARIETY OF DIFFERENT SCENARIOS. AS YOU CAN SEE, WE
25 HAVE DIFFERENT FUNDING CAPS FOR THE DIFFERENT PHASE

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1 OF TRIALS. IF WE HAD ALL LATE STAGE TRIALS, AT ONE
2 EXTREME WE COULD FUND UP TO NINE LATER PHASE TRIALS
3 AT \$15 MILLION EACH. HOWEVER, WE DO KNOW THAT
4 HISTORICALLY CIRM HAS FUNDED -- 80 PERCENT OF THE
5 TRIALS THAT WE FUND ARE FIRST IN HUMAN. SO THOSE
6 HAVE LOWER PROJECT CAPS. SO WHEN YOU FACTOR THAT
7 INTO ACCOUNT, WE EXPECT WE'LL HAVE A MIXTURE OF
8 EARLY AND LATE STAGE TRIALS, AND WE THINK THAT WE
9 COULD PROBABLY EASILY MEET OR EVEN SURPASS OUR
10 HISTORICAL AVERAGE NUMBER OF CLINICAL TRIALS PER
11 YEAR, WHICH IS THE FOOTNOTE DOWN HERE, HAS BEEN 13
12 TRIALS FUNDED PER YEAR IN THE PAST THREE YEARS.

13 SO HERE'S A SLIDE DESCRIBING THE
14 ELIGIBILITY REQUIREMENTS FOR THE CLIN2 PROGRAM.
15 AGAIN, THERE ARE NOT THAT MANY CHANGES FROM WHAT WE
16 HAD HISTORICALLY. AND I JUST WANT TO HIGHLIGHT A
17 COUPLE THAT ARE, AGAIN, SHOWN IN BOLD FONT HERE.

18 THE FIRST ONE IS IN THE CATEGORY OF
19 CANDIDATE READINESS. CURRENTLY WE REQUIRE THAT, IN
20 ORDER TO SUBMIT A CLIN2 APPLICATION TO CIRM, THE
21 APPLICANT MUST HAVE ALREADY RECEIVED IND CLEARANCE
22 FROM THE FDA. AND WE WANT TO MAINTAIN THAT
23 REQUIREMENT FOR ANY NEW PROGRAMS TO CIRM. HOWEVER,
24 FOR CIRM PIPELINE PROGRAMS, WE WANT TO GIVE THEM AN
25 OPPORTUNITY, THE BEST POSSIBLE OPPORTUNITY FOR A

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1 SMOOTH TRANSITION BETWEEN THE PRECLINICAL AND
2 CLINICAL PHASE. AND SO IF THERE IS A CLIN2
3 APPLICATION DEADLINE COMING UP, WE WOULD ALLOW THEM
4 TO SUBMIT THAT OPPORTUNITY ONCE THEY HAVE AN IND
5 SUBMITTED TO THE FDA, BUT WE WOULD NOT REQUIRE THAT
6 THEY'VE ALREADY RECEIVED FDA CLEARANCE AT THE TIME
7 OF APPLICATION. WE WOULD STILL MAINTAIN THE
8 REQUIREMENT THAT THE FDA HAS CLEARED THE IND BEFORE
9 THE APPLICATION WOULD GO TO FULL GRANTS WORKING
10 GROUP REVIEW.

11 AND THE OTHER MAJOR DIFFERENCE HERE WOULD
12 BE JUST WE WANT TO CHANGE THE PERIOD OF TIME BETWEEN
13 ICOC APPROVAL AND OFFICIAL LAUNCH DATE OF THE AWARD
14 TO 60 DAYS. IT WAS PREVIOUSLY 45 DAYS. AND THIS IS
15 JUST TO ALLOW MORE TIME FOR THE ADMINISTRATIVE
16 ASPECTS OF LAUNCHING THE AWARD.

17 WITH RESPECT TO APPLICATION AND REVIEW,
18 AGAIN, WE'RE LARGELY PROPOSING TO MAINTAIN THE SAME
19 PREREVIEW PROCESS THAT HAS BEEN USED FOR CLIN2 IN
20 THE PAST. AFTER APPLICATION SUBMISSION, THERE IS A
21 PROCESS OF CHECKING FOR MEETING ALL THE ELIGIBILITY
22 REQUIREMENTS. IN ADDITION, WE NOW WANT TO ADD A
23 STEP WHERE WE WOULD CHECK FOR COMPLETENESS OF THE
24 APPLICATION USING AN OBJECTIVE CHECKLIST TO MAKE
25 SURE THAT ALL THE REQUIRED COMPONENTS ARE REALLY

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1 THERE. AND ESPECIALLY WE WANT TO FOCUS ON SOME OF
2 THE NEWER COMPONENTS OF THE APPLICATION, INCLUDING
3 PATIENT ACCESS AND COMMERCIALIZATION COMPONENTS.

4 WE ALSO STILL WOULD MAINTAIN A PROCESS
5 THAT COULD BE IMPLEMENTED IF THERE ARE HIGHER
6 APPLICATION VOLUMES THAT COULD BE MANAGED IN A
7 REVIEW -- IN A GIVEN REVIEW CYCLE. AND THIS IS
8 WHERE THE PREFERENCES CAN BE APPLIED TO PRIORITIZE
9 APPLICATIONS THAT WOULD GO TO FULL REVIEW.

10 WE DO WANT TO MAKE A CHANGE IN THE CURRENT
11 SCORING SYSTEM. IT WAS PREVIOUSLY A TIER I, II, III
12 SCORING SYSTEM. WE WANT TO NOW HAVE THE CLIN2
13 PROGRAM ADOPT A 1 TO 100 SCORING SYSTEM. AND THAT
14 WOULD BE IN ALIGNMENT WITH ALL THE OTHER CIRM
15 PROGRAMS, AND WE BELIEVE THIS WILL IMPROVE THE
16 GRANULARITY AND VISIBILITY FOR SCORE-DRIVING
17 DECISIONS.

18 AND I JUST WANT -- I MENTIONED THIS ON AN
19 EARLIER SLIDE, THESE TWO POINTS, BUT I THINK THEY'RE
20 WORTH REEMPHASIZING HERE, THAT WE ARE ADDING IN
21 THESE NEW REQUIREMENTS FOR ACCESS AND AFFORDABILITY
22 PLANNING STAGE APPROPRIATELY, INCLUDING
23 COMMERCIALIZATION PLANNING, FOR ALL THE CLIN2
24 PROGRAMS. AND WE ALSO WANT TO IMPLEMENT A DATA
25 SHARING AND MANAGEMENT PLAN IN COORDINATION WITH ALL

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1 OF CIRM'S OTHER DATA SHARING INITIATIVES, AND THIS
2 IS REALLY IMPORTANT FOR MAKING SURE THAT THOSE DATA
3 THAT WE HAVE INVESTED IN CAN BE -- WE CAN MAXIMIZE
4 THE VALUE OF THOSE DATA DOWN THE ROAD.

5 AND GETTING CLOSE TO THE END HERE. WE
6 HAVE ALWAYS CONSIDERED OURSELVES PARTNERS WITH OUR
7 GRANTEES, ESPECIALLY AT THE CLINICAL TRIAL STAGE.
8 WE REALIZE THAT WE'RE INVESTING A LOT OF MONEY IN
9 THESE PROGRAMS. AND AS SUCH, WE WANT TO MAXIMIZE
10 THAT INVESTMENT AND HELP THEM AS MUCH AS POSSIBLE.
11 PART OF THAT IS MAINTAINING A CLOSE RELATIONSHIP
12 WITH ALL OUR GRANTEES. SO WE WANT TO MAINTAIN OUR
13 CURRENT REQUIREMENT TO HAVE THEM SUBMIT QUARTERLY
14 PROGRESS REPORTS. AND THEN WE WOULD HAVE FOLLOW-UP
15 WITH CALLS WITH THEM AS NEEDED, WHICH WE NORMALLY
16 DO. WE WANT TO REINFORCE THE CURRENT REQUIREMENT
17 THAT CIRM BE INCLUDED IN ANY INTERACTIONS WITH THE
18 FDA, INCLUDING MEETINGS WITH THE FDA. AND WE WOULD
19 ALSO WANT CIRM TO BE INCLUDED IN ANY MEETINGS WITH
20 THE NEW STRATEGIC PLANNING COMMITTEES THAT WE ARE
21 GOING TO BE REQUIRING.

22 AND WE DO STILL HAVE ENFORCEMENT AT THE
23 FISCAL LEVEL. WE HAVE, AS DR. PATEL OUTLINED,
24 OPERATIONAL MILESTONE-DRIVEN AWARDS. AND IN THE
25 CASE WHERE A GRANTEE IS NOT ABLE TO REACH A

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1 OPERATIONAL MILESTONE AND THEY'VE EXHAUSTED THE CIRM
2 FUNDING TRANCHE, THEY NEED TO HAVE CONTINGENCY
3 FUNDING IN PLACE IN ORDER TO REACH THE MILESTONE
4 BEFORE THEY WILL RECEIVE THE NEXT CIRM FUNDING
5 TRANCHE.

6 AND IN ADDITION, BEFORE ANY AWARDS THAT
7 HAVE A DELAY OF MORE THAN FOUR MONTHS OF REACHING A
8 MILESTONE, THAT WOULD TRIGGER AN EVALUATION OF THE
9 FEASIBILITY OF THIS PROGRAM REALLY BEING ABLE TO
10 CONTINUE WITH THE RIGHT TO TERMINATE THE AWARD. AND
11 WE WOULDN'T TAKE IT LIGHTLY TO TERMINATE AN AWARD
12 THAT WE'VE ALREADY INVESTED A LOT IN, AND WE WOULD
13 CERTAINLY WISH TO MAXIMIZE OUR EFFORT TO HELP THEM
14 BE SUCCESSFUL.

15 SO I JUST WANT TO END WITH A PROPOSED
16 TIMELINE FOR RELAUNCHING THE CLIN2 PROGRAMS. IF
17 THIS CONCEPT IS APPROVED AT THE BOARD AT THE END OF
18 MARCH, WE WOULD PROPOSE TO HAVE APPLICATIONS OPEN BY
19 MID-MAY, APPLICATION DEADLINES IN JULY, FIRST GRANTS
20 WORKING GROUP IN SEPTEMBER, AND COMING TO THE BOARD
21 FOR APPROVALS IN NOVEMBER. AND THEN YOU CAN SEE ON
22 THIS NEXT LINE DOWN THAT WE WOULD HAVE ANOTHER CYCLE
23 STARTING IN EARLY AUGUST.

24 SO IN CONCLUSION, WE WOULD HAVE THE FIRST
25 CYCLE OF NEW CLIN2 AWARDS WOULD BE LAUNCHING IN

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1 FEBRUARY OF 2026.

2 AND WITH THAT, I'D LIKE TO CONCLUDE BY
3 REQUESTING A MOTION THAT THE SCIENCE SUBCOMMITTEE
4 AND NEURO TASK FORCE RECOMMEND APPROVAL TO THE FULL
5 ICOC OF THE CLIN2 CONCEPT.

6 CHAIRMAN FISCHER-COLBRIE: GREAT.
7 EXCELLENT PRESENTATION. THANK YOU. AND WITH THAT,
8 I'D LIKE TO REQUEST FOR A MOTION AND A SECOND.

9 DR. HIGGINS: I'D LIKE TO MAKE A MOTION.
10 THIS IS DAVID FROM SAN DIEGO.

11 DR. GASSON: I'LL SECOND. THIS IS JUDY.

12 CHAIRMAN FISCHER-COLBRIE: GREAT. WITH
13 THAT, LET'S OPEN IT UP TO THE COMMITTEES FOR
14 QUESTIONS AND COMMENTS.

15 MR. TOCHER: I DON'T SEE ANY HANDS AT THE
16 MOMENT.

17 CHAIRMAN FISCHER-COLBRIE: OKAY. WITH
18 THAT, I WOULD LIKE TO ASK IF THERE ARE ANY QUESTIONS
19 OR COMMENTS FROM THE PUBLIC.

20 MR. TOCHER: WE DON'T SEE ANY HANDS
21 RAISED, MARK.

22 DR. YAMAMOTO: ACTUALLY --

23 CHAIRMAN FISCHER-COLBRIE: WITH
24 THAT -- KEITH, I THINK YOU JUST RAISED A HAND. GO
25 AHEAD. FIRE AWAY.

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1 DR. YAMAMOTO: YEAH. THIS IS PROBABLY
2 NOT -- I LIKE THIS PROPOSAL A LOT. I'M ABSOLUTELY
3 GOING TO VOTE IN FAVOR OF IT. AND IT'S PROBABLY NOT
4 RELEVANT TO RAISE THIS POINT HERE, BETTER TO WAIT
5 FOR GIL'S PRESENTATION AT THE NEXT BOARD MEETING.
6 BUT I REALLY DO FEEL OBLIGATED TO GO ON RECORD
7 OPPOSING THIS NOTION OF A 1 TO 100 SCORING SYSTEM.

8 I KNOW THAT IT IS -- IN DISCLOSURE, I WAS
9 BEHIND A MOVE TO MOVE THE NIH AWAY, 25 YEARS AGO,
10 AWAY FROM THE 1 TO 100 SCALE. IT PRESENTS THE
11 ILLUSION OF GRANULARITY THAT RATIONALIZES THESE
12 FUNDING DECISIONS. BUT I THINK WE SHOULD ALL BE
13 AWARE THAT IT'S AN ILLUSION, THAT NO SINGLE REVIEWER
14 CAN REALLY DISTINGUISH BETWEEN A 26 AND A 27. AND
15 CERTAINLY NO GROUP OF REVIEWERS WHO INDIVIDUALLY
16 EVALUATE THINGS DIFFERENTLY ARE GOING TO BE ABLE TO
17 RATIONALIZE THE DIFFERENCE BETWEEN 26 AND 27 WHEN
18 THE SCORES GET AVERAGED.

19 AND SO IT JUST REALLY DOESN'T -- IT'S A
20 FALSE ILLUSION OF CAPACITY FOR QUANTITATIVE
21 GRANULARITY. AND IT'S MUCH BETTER WE MOVE TO A
22 DIGITAL SYSTEM BETWEEN A 1 AND 9. AND HUMANS HAVE A
23 HARD ENOUGH TIME DISTINGUISHING BETWEEN NINE
24 DIFFERENT GRADATIONS OF QUALITY. BUT IT'S MUCH
25 BETTER THAN THIS ILLUSION OF LETS GO OUT TO THREE

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1 DECIMAL PLACES AND BE ABLE TO SAY, WELL, THIS GRANT
2 IS CLEARLY BETTER THAN THE OTHER ONE BECAUSE IT'S A
3 THOUSANDTH OF A POINT BETTER IN AN AVERAGE SCORE.

4 SO I REALLY THINK IT'S A MISTAKE. IT'S
5 SOMETHING THAT I'LL TALK A LOT -- I'LL TALK ABOUT
6 MORE ACTUALLY WITH GIL OFFLINE, BUT I WANTED TO JUST
7 GO ON RECORD SAYING THAT I THINK THERE'S A CONCERN
8 THERE. I THINK THIS PROPOSAL ITSELF IS VERY GOOD,
9 AND I'M STRONGLY IN FAVOR OF IT.

10 CHAIRMAN FISCHER-COLBRIE: GREAT COMMENT,
11 KEITH. AND IT'S GREAT TO BE ABLE TO TAKE ADVANTAGE
12 OF YOUR DIRECT EXPERTISE HERE. AND I THINK IT
13 POINTS TO THE FACT THAT THERE'S STILL REVIEWS THAT
14 NEED TO BE WRAPPED UP AHEAD THE MARCH BOARD MEETING
15 TO ENSURE THAT WE'RE ON THE BEST COURSE POSSIBLE
16 RELATED TO THE MARCH PRESENTATION. SO YOUR COMMENTS
17 ARE WELL TAKEN AND WELL NOTED. REALLY APPRECIATE
18 IT.

19 OTHER QUESTIONS OR COMMENTS BEFORE WE DO
20 THE ROLL CALL VOTE?

21 MR. TOCHER: I DON'T SEE ANY HANDS, MARK.
22 SO WILL I'LL PROCEED WITH THE ROLL CALL. SO THE
23 MOTION IS TO RECOMMEND TO THE BOARD APPROVAL OF THE
24 CLIN2 CONCEPT.

25 MARIA BONNEVILLE.

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1 VICE CHAIR BONNEVILLE: YES.
2 MR. TOCHER: LEONDRA CLARK-HARVEY.
3 DR. CLARK-HARVEY: YES.
4 MR. TOCHER: DEBORAH DEAS. MARK
5 FISCHER-COLBRIE.
6 CHAIRMAN FISCHER-COLBRIE: YES.
7 MR. TOCHER: ELENA FLOWERS.
8 DR. FLOWERS: YES.
9 MR. TOCHER: JUDY GASSON.
10 DR. GASSON: YES.
11 MR. TOCHER: JEFF GOLDEN.
12 DR. GOLDEN: YES.
13 MR. TOCHER: DAVID HIGGINS.
14 DR. HIGGINS: YES.
15 MR. TOCHER: VITO IMBASCIANI.
16 CHAIRMAN IMBASCIANI: YES.
17 MR. TOCHER: CAROLYN MELTZER.
18 DR. MELTZER: YES.
19 MR. TOCHER: CHRIS MIASKOWSKI.
20 DR. MIASKOWSKI: YES.
21 MR. TOCHER: MARV SOUTHARD. KAROL WATSON.
22 DR. WATSON: YES.
23 MR. TOCHER: KEITH YAMAMOTO.
24 DR. YAMAMOTO: YES.
25 MR. TOCHER: MARV, I THINK WE DIDN'T HEAR

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1 YOUR VOTE.

2 DR. SOUTHARD: I SAID YES.

3 MR. TOCHER: GREAT. WE GOT THAT LOUD AND
4 CLEAR. THANKS VERY MUCH. AND THE MOTION CARRIES
5 UNANIMOUSLY, MARK.

6 CHAIRMAN FISCHER-COLBRIE: OKAY. I THINK
7 THAT CONCLUDES OUR MEETING IF I'M NOT MISTAKEN. SO
8 IT'S A LOT OF MATERIAL HERE. I WOULD ENCOURAGE
9 ONGOING CONVERSATIONS AND DIALOGUE, BUT THIS
10 CONTINUES TO TAKE GREAT SHAPE AND FORM HERE WITH
11 SOME OPEN QUESTIONS STILL TO GET RESOLVED AND
12 CLARIFIED AS WE MOVE FORWARD. BUT CERTAINLY
13 CONTINUED TREMENDOUS PROGRESS, ESPECIALLY GIVEN
14 TIGHT TIMELINES AND SCHEDULES AND EXISTING
15 COMMITMENTS OF KEEPING THINGS RUNNING WHILE THIS
16 PROCESS HAS BEEN UNDER WAY. SO, AGAIN, KUDOS TO THE
17 TEAM FOR THEIR EXTRAORDINARY EFFORTS IN THIS
18 PROCESS. AND WE LOOK FORWARD TO GETTING THIS ACROSS
19 THE GOAL LINE PRIMARILY IN MARCH AND THEN, OF
20 COURSE, IN JUNE AS WELL. THANK YOU VERY MUCH.

21 DR. THOMAS: THANK YOU, MARK, AND
22 COMMITTEE.

23 CHAIRMAN FISCHER-COLBRIE: GREAT. WITH
24 THAT, UNLESS THERE'S ANY OTHER COMMENTS, I THINK
25 WE'LL TURN THE TIME BACK TO EVERYONE AND WE CAN MOVE

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FORWARD WITH OTHER ACTIVITIES.

MR. TOCHER: GREAT. THANKS VERY MUCH,
MARK.

VICE CHAIR BONNEVILLE: THANKS, EVERYONE.
(THE MEETING WAS THEN CONCLUDED AT 3:15 P.M.)

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REPORTER'S CERTIFICATE

I, BETH C. DRAIN, A CERTIFIED SHORTHAND REPORTER IN AND FOR THE STATE OF CALIFORNIA, HEREBY CERTIFY THAT THE FOREGOING TRANSCRIPT OF THE VIRTUAL PROCEEDINGS BEFORE THE JOINT MEETING OF THE SCIENCE SUBCOMMITTEE AND TASK FORCE ON NEUROSCIENCE AND MEDICINE OF THE INDEPENDENT CITIZEN'S OVERSIGHT COMMITTEE OF THE CALIFORNIA INSTITUTE FOR REGENERATIVE MEDICINE IN THE MATTER OF ITS REGULAR MEETING HELD ON MARCH 5, 2025, WAS HELD AS HEREIN APPEARS AND THAT THIS IS THE ORIGINAL TRANSCRIPT THEREOF AND THAT THE STATEMENTS THAT APPEAR IN THIS TRANSCRIPT WERE REPORTED STENOGRAPHICALLY BY ME AND TRANSCRIBED BY ME. I ALSO CERTIFY THAT THIS TRANSCRIPT IS A TRUE AND ACCURATE RECORD OF THE PROCEEDING.

BETH C. DRAIN, CA CSR 7152
133 HENNA COURT
SANDPOINT, IDAHO
(208) 920-3543