

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

LOCATION: OAKLAND MARRIOTT CITY CENTER  
1001 BROADWAY  
OAKLAND, CALIFORNIA

DATE: MONDAY, NOVEMBER 30, 2015  
1 P.M.

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

BRS FILE NO.: 98029

BARRISTERS' REPORTING SERVICE

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BARRISTERS' REPORTING SERVICE

1 OAKLAND, CALIFORNIA; NOVEMBER 30, 2015

2 1 P.M.

3  
4 CHAIRMAN SHEEHY: OKAY. SO I BELIEVE THIS  
5 IS JEFF SHEEHY IN OAKLAND WHERE CIRM IS NEWLY  
6 RELOCATED. CONGRATULATIONS TO THE CIRM TEAM ON  
7 MANAGING TO MAKE THAT MOVE SO SUCCESSFULLY. SO I'M  
8 READY TO CALL THE MEETING TO ORDER OF THE SCIENCE  
9 SUBCOMMITTEE OF THE GOVERNING BOARD OF THE  
10 CALIFORNIA INSTITUTE OF REGENERATIVE MEDICINE. SO I  
11 THINK THE FIRST ORDER OF BUSINESS IS THE ROLL CALL.  
12 MS. BONNEVILLE.

13 MS. BONNEVILLE: MICHAEL FRIEDMAN. DAVID  
14 HIGGINS.

15 DR. HIGGINS: HERE.

16 MS. BONNEVILLE: BERT LUBIN. SHLOMO  
17 MELMED.

18 DR. MELMED: HERE.

19 MS. BONNEVILLE: JEFF SHEEHY.

20 CHAIRMAN SHEEHY: HERE.

21 MS. BONNEVILLE: OS STEWARD. ART TORRES.

22 MR. TORRES: HERE.

23 MS. BONNEVILLE: JONATHAN THOMAS.

24 CHAIRMAN THOMAS: HERE.

25 MS. BONNEVILLE: KRISTINA VUORI.

BARRISTERS' REPORTING SERVICE

1 CHAIRMAN SHEEHY: SO I THINK WE'RE ONE  
2 SHORT OF A QUORUM.

3 MS. BONNEVILLE: YES.

4 CHAIRMAN SHEEHY: I THINK DR. STEWARD IS  
5 ON HIS WAY. I BELIEVE WE'LL GO AHEAD AND START THE  
6 AGENDA BEGINNING WITH THE CONSIDERATION OF THE  
7 STRATEGIC PLAN. DR. MILLS, ARE YOU GOING TO LEAD US  
8 THROUGH THAT?

9 DR. MILLS: OKAY. THANK YOU, EVERYONE.  
10 APPRECIATE YOUR TAKING THE TIME TODAY TO GO THROUGH  
11 THIS AGENDA WITH US. I THINK WE'RE ON THE VERGE OF  
12 A NEW AND EXCITING TIME AT CIRM. THE STRATEGIC PLAN  
13 IS OBVIOUSLY SOMETHING WE WENT THROUGH ON OUR LAST  
14 BOARD MEETING. WE NOW HAVE A PUBLISHED VERSION OF  
15 IT OUT FOR COMMENT WHICH WE'LL BE CONSIDERING HERE  
16 TODAY AND THEN CONSIDERING AT THE FULL BOARD MEETING  
17 IN DECEMBER ON THE 17TH.

18 FOR US IN THE STRATEGIC PLANNING PROCESS,  
19 IT WAS A TIME TO REALLY TAKE A HARD LOOK NOT ONLY AT  
20 THE AGENCY BUT HOW THE ENVIRONMENT HAD CHANGED, THAT  
21 THE AGENCY EXISTED, AND HOW THE WORLD HAD CHANGED  
22 AND TRY TO DO THE BEST WE COULD TO MATCH UP WHERE  
23 THE AGENCY WAS TODAY AND WHAT THE AGENCY WAS DOING  
24 WITH ITS MISSION AND HOW THE WORLD HAD CHANGED  
25 AROUND IT. AND SO WE REALLY THOUGHT OF EVERYTHING.

BARRISTERS' REPORTING SERVICE

1 WE ATTEMPTED TO THINK OF EVERYTHING I SHOULD SAY.  
2 WE ATTEMPTED TO TURN OVER EVERY STONE AND CONSIDER  
3 EVERY POSSIBLE IDEA THAT WOULD HELP US ACCOMPLISH  
4 OUR MISSION OF ACCELERATING STEM CELL TREATMENTS TO  
5 PATIENTS WITH UNMET MEDICAL NEEDS.

6 IN DOING SO, WE TALKED TO STAKEHOLDERS OF  
7 EVERY VARIETY. WE HELD IN-PERSON MEETINGS WITH  
8 EVERY MAJOR RESEARCH CENTER IN THE STATE, WE HELD  
9 STAKEHOLDER MEETINGS WITH PATIENT ADVOCATES, WE  
10 TALKED WITH INDUSTRY, WE TALKED WITH FDA, WE TALKED  
11 WITH THE GENERAL PUBLIC, WE HELD SURVEYS, WE  
12 OBVIOUSLY HAD DIALOGUE WITH THE BOARD AND REALLY  
13 TRIED TO PUT TOGETHER AS THOUGHTFUL A PLAN AS  
14 POSSIBLE.

15 WHAT I'LL SAY ABOUT THE PLAN, FIRST AND  
16 FOREMOST, IS THERE'S NOTHING ABOUT IT THAT'S EASY TO  
17 ACCOMPLISH. THERE ARE NO LAY-UPS HERE. WE'RE NOT  
18 SANDBAGGING. WE ATTEMPTED TO PUT TOGETHER A PLAN  
19 THAT REALLY WOULD STRETCH THE AGENCY TO ITS LIMITS  
20 IN ORDER TO ACCOMPLISH THE MOST WE POSSIBLY COULD  
21 ACCOMPLISH OVER THE NEXT FIVE YEARS. AND WHAT WE'RE  
22 LOOKING TO DO IS NOTHING SHORT OF CHANGE THE FACE OF  
23 REGENERATIVE MEDICINE AND STEM CELL THERAPIES BY  
24 2020. AND WE HAVE TAKEN AN AGGRESSIVE APPROACH  
25 TOWARDS DOING THAT.

BARRISTERS' REPORTING SERVICE

1 WITH THAT SAID, IT'S NOT AN IMPOSSIBLE  
2 APPROACH. WE DON'T HAVE TO BEND THE LAWS OF PHYSICS  
3 IN ORDER TO ACCOMPLISH IT, BUT WE WILL NEED TO BE  
4 VERY METHODICAL AND DISCIPLINED IN OUR EFFORTS IF WE  
5 ARE TO BE ULTIMATELY SUCCESSFUL. SO LET ME GET INTO  
6 IT.

7 THE STRATEGIC PLAN HAS TEN COMPONENTS TO  
8 IT. THE FIRST THREE ARE INTRODUCTORY, WHICH ARE  
9 BASICALLY SETTING THE STAGE OF WHERE WE ARE TODAY.  
10 IF YOU RECALL, AS I'VE TALKED ABOUT PREVIOUSLY,  
11 STRATEGIC PLANNING CAN BE BROKEN DOWN INTO THREE  
12 SIMPLE PROCESSES OR THREE SIMPLE COMPONENTS. ONE IS  
13 UNDERSTANDING REALLY WELL WHERE YOU ARE, AND THAT  
14 OFTEN IS THE MOST DIFFICULT AND OVERLOOKED PART OF  
15 STRATEGIC PLANNING, AND IT INVOLVES ASKING REALLY  
16 DIFFICULT QUESTIONS AND BEING VERY HONEST ABOUT THE  
17 SITUATION. SO THE FIRST THREE SECTIONS REALLY GO  
18 INTO WHERE WE ARE TODAY.

19 AND THEN THE NEXT PART OF STRATEGIC  
20 PLANNING IS WHERE DO YOU WANT TO BE, IN THIS CASE,  
21 OVER THE NEXT FIVE YEARS. AND THEN, LASTLY, HOW DO  
22 YOU GET THERE? WHAT'S THE PLAN OR ROAD MAP TO GET  
23 THERE? SO WHERE DO WE WANT TO BE AND HOW DO WE GET  
24 THERE COMBINE THE MEATIER SECTION OF THE STRATEGIC  
25 PLAN. AND THOSE ARE CHAPTERS 4, 5, 6, 7, 8, 9, AND

BARRISTERS' REPORTING SERVICE

1 10.

2 SO I'M GOING TO GO THROUGH TODAY AT A HIGH  
3 LEVEL THESE DIFFERENT COMPONENTS, STARTING FIRST  
4 WITH THE STRATEGIC PLANNING PROCESS AND THEN  
5 SPECIFICALLY ITS PURPOSE. SO OUT OF THIS IT'S NOT  
6 JUST THAT WE WANT TO PLAN, BUT THE FIRST THING THAT  
7 STRATEGIC PLANNING ENABLES YOU TO DO IS TO REALLY BE  
8 SURE THAT YOU HAVE AWARENESS OF THE SITUATION  
9 AROUND. YOUR SITUATION AROUND AWARENESS IS THIS  
10 CONCEPT THAT YOU DON'T LIVE IN A VACUUM, BUT YOU  
11 HAVE ALL THESE OTHER INFLUENCES GOING ON AROUND YOU.  
12 AND THAT THE TACTICS THAT YOU'RE USING AND THE  
13 STRATEGY THAT YOU'RE USING TO ACCOMPLISH YOUR  
14 MISSION IS IN SYNC WITH THE ENVIRONMENT THAT  
15 SURROUNDS YOU.

16 SECOND IS ORGANIZATIONAL CLARITY. AND  
17 THIS IS A BIG ONE FOR ME. MAKING SURE THAT EVERYONE  
18 WITHIN THE ORGANIZATION KNOWS WHAT THEY'RE DOING,  
19 KNOWS WHY THEY'RE DOING IT, AND KNOWS HOW THEY'RE  
20 DOING IT, AND TO WHAT END BOTH UPSTREAM AND  
21 DOWNSTREAM. SO I UNDERSTAND WHAT THE MISSION IS, I  
22 UNDERSTAND WHERE MY PLACE IN THAT MISSION IS. AND  
23 IF WE'RE SUCCESSFUL, WE SHOULD BE ABLE TO SEE THE  
24 SPECIFIC GOALS WHICH LEADS TO THE LAST PART, WHICH  
25 IS MEASURABLE GOALS AND MILESTONES, BEING ABLE TO

BARRISTERS' REPORTING SERVICE

1 LAY OUT A PLAN WITH ENOUGH SPECIFICITY AND WITH  
2 ENOUGH OBJECTIVE OUTCOMES THAT WE'LL BE ABLE TO TELL  
3 WHETHER OR NOT WE'VE ACCOMPLISHED THIS PLAN OR NOT.  
4 SO THAT'S THE SORT OF THREE PURPOSES BEHIND THE  
5 STRATEGIC PLANNING.

6 THE NEXT THING WE NEEDED TO DO WAS JUST  
7 TAKE A LOOK AT OUR CONSTRAINTS. AND FOR US THAT'S  
8 REALLY OUR FUNDING RUNWAY. AND SO I'VE PUT THIS  
9 SLIDE UP BEFORE AND WE'VE TALKED ABOUT IT. WE HAVE  
10 SUFFICIENT LEVELS OF FUNDING TO HAVE THE AGENCY  
11 WRITE NEW AWARDS AND OBLIGATIONS FOR APPROXIMATELY  
12 FOUR AND A HALF OR FIVE YEARS. WE HAD 2.75 BILLION  
13 IN AWARD FUNDING TO START WITH. WE HAVE TWO BILLION  
14 OF IT THAT'S BEEN EITHER AWARDED OR SPENT, WHICH  
15 LEAVES US 775 MILLION THAT'S UNCOMMITTED. WE  
16 ESTIMATE THAT IF WE MAKE BETWEEN 190 AND 200 MILLION  
17 IN NEW AWARDS EACH YEAR, THAT WILL GIVE US A NET  
18 AWARD SPEND OF ABOUT 170 BECAUSE, RECALL, JUST  
19 BECAUSE WE COMMIT FUNDING TO A PROGRAM DOESN'T MEAN  
20 ALL OF THAT FUNDING GETS SPENT, IF THEY'RE EITHER  
21 UNDERBUDGET, WHICH RARELY HAPPENS, OR MORE LIKELY  
22 THE PROGRAM ENDS UP NOT BEING SUCCESSFUL. PARTIALLY  
23 THROUGH ITS COMPLETION, THE PROJECT ENDS AND THE  
24 BALANCE OF THE MONEY GETS RETURNED TO CIRM FOR  
25 REINVESTMENT.



BARRISTERS' REPORTING SERVICE

1 SO GOING THROUGH JUST SORT DISTILLING DOWN  
2 LOTS AND LOTS AND LOTS OF FEEDBACK AND CONVERSATIONS  
3 AND SURVEYS, THERE ARE REALLY SORT OF FIVE KEY  
4 POINTS THAT CAME OUT TO US AS WE LOOKED THROUGH THE  
5 STRATEGIC PLAN. FIRST IS THAT HISTORICALLY CIRM HAS  
6 EXISTED AS AN INITIATIVE-BASED AGENCY. AND THIS IS  
7 IN CONTRAST TO A SYSTEMS-BASED AGENCY. WHAT I MEAN  
8 BY THIS IS WHEN CIRM STARTED, THERE WASN'T REALLY  
9 CRITICAL MASS IN THE CONTINUUM FROM DISCOVERY  
10 THROUGH TRANSLATION INTO CLINICAL TO BE ABLE TO HAVE  
11 A PROCESS THAT RAN CONTINUOUSLY. SO INSTEAD CIRM,  
12 BEING AS RESPONSIVE AN AGENCY AS IT POSSIBLY COULD,  
13 CREATED FROM AN ANALOGY STANDPOINT WHAT WOULD BE  
14 SIMILAR TO CHARTER FLIGHTS.

15 AND SO WHENEVER THERE WAS SUFFICIENT  
16 INTEREST AND DEMAND IN A CERTAIN AREA, WHETHER THAT  
17 BE AN EARLY STAGE DISCOVERY PROGRAM OR IN A  
18 TRANSLATIONAL AREA, THERE WOULD BE AN INITIATIVE  
19 THAT WOULD BE CREATED, AN RFA WOULD BE ISSUED, AND  
20 THAT WOULD BE FILLED, AND SO ON AND SO FORTH WITHOUT  
21 THESE DIFFERENT INITIATIVES BEING LINKED TOGETHER IN  
22 ORDER TO CREATE A CLEAR AND SUSTAINABLE PATHWAY FROM  
23 DISCOVERY THROUGH TRANSLATION. AND THAT'S SOMETHING  
24 THAT UNDER CIRM 2.0 AND, AGAIN, SPECIFICALLY BECAUSE  
25 THE ENVIRONMENT HAS CHANGED SO MUCH AND THE WORLD

BARRISTERS' REPORTING SERVICE

1 HAS CHANGED SO MUCH, WE'RE NOW ABLE TO TAKE  
2 ADVANTAGE OF THE FACT THAT WE HAVE ENOUGH DEMAND IN  
3 ALL OF THESE AREAS TO SET UP A CONTINUOUS  
4 SYSTEMS-BASED APPROACH.

5 WE DID A LOT OF QUESTIONING AND A LOT OF  
6 SURVEYING, AND THE THING THAT I'M MOST PLEASED WITH  
7 IS, WITH THE EXCEPTION OF A FEW, A VERY FEW,  
8 INSTANCES, MOST OF THE STAKEHOLDERS ARE ALIGNED WITH  
9 REGARDS TO THEIR PRIORITIES AND THEIR THINKING ABOUT  
10 CIRM. THERE'S A HIGH INTEREST IN CIRM DOING THOSE  
11 THINGS WHICH OTHERWISE WOULD NOT HAPPEN WITHOUT US.  
12 THERE'S A HIGH INTEREST IN CIRM TAKING BIGGER RISKS  
13 FOR BIGGER REWARDS. AND SO WE'RE GENERALLY ALIGNED  
14 AMONG STAKEHOLDERS.

15 THE THIRD THING THAT JUMPED OFF THE TABLE  
16 WAS THAT THE TRANSLATIONAL STAGE, SO THE AREA FROM  
17 ONCE A NEW DRUG CANDIDATE IS DISCOVERED THROUGH THE  
18 TIME THAT IT ENTERS CLINICAL TRIALS, IS CURRENTLY  
19 DISPROPORTIONATELY LONG FOR STEM CELL THERAPIES  
20 COMPARED TO THE SAME WORK WHICH IS REQUIRED FOR  
21 NONSTEM CELL THERAPIES, BASICALLY DRUGS AND  
22 BIOLOGICS. IT'S TAKING APPROXIMATELY EIGHT YEARS  
23 FOR A STEM CELL THERAPY TO MAKE THIS TRANSITION FROM  
24 SOMETHING BEING IDENTIFIED AS A CANDIDATE INTO A  
25 CLINICAL TRIAL. BASICALLY A TRADITIONAL DRUG WOULD

BARRISTERS' REPORTING SERVICE

1 TAKE 3.2 YEARS. SO THAT SAYS THAT THERE'S SOME WORK  
2 THAT WE CAN DO. AND THE CAUSES FOR THAT ARE  
3 MULTIFACTORIAL, AND I WON'T GET INTO THEM NOW, BUT  
4 IT SAYS THERE'S A SIGNIFICANT OPPORTUNITY FOR US TO  
5 SPEED UP THIS TRANSLATIONAL ASPECT, AND WE NEED TO  
6 TAKE ADVANTAGE OF THAT OPPORTUNITY AND DO THAT.

7 IT'S BEEN POINTED OUT THAT SO FAR 91  
8 PERCENT OF CIRM'S FUNDING HAS GONE TO ACADEMIC  
9 VERSUS ONLY 9 TO INDUSTRY. THAT AND LOTS OF OTHER  
10 DATA, INCLUDING THE VERY SMALL NUMBER OF STEM CELL  
11 THERAPIES WHICH ARE CURRENTLY MARKETED BY TECH  
12 TRANSFER OFFICES AND THE, RELATIVELY SPEAKING, LATE  
13 STAGE PARTNERING THAT TAKES PLACE, SAYS THAT  
14 CURRENTLY STEM CELL THERAPIES ARE VIEWED  
15 COMMERCIALY AS A DISADVANTAGED CLASS. AND THAT  
16 SEEMS TO BE TRUE NOT ONLY FROM A COMMERCIAL  
17 STANDPOINT, BUT FROM A REGULATORY STANDPOINT AS  
18 WELL.

19 LASTLY, TYING INTO THAT, THE REGULATORY  
20 ENVIRONMENT IS SEEN AS THE SINGLE BIGGEST IMPEDIMENT  
21 TO STEM CELL THERAPY TODAY. OVER 70 PERCENT OF  
22 RESPONDENTS TO OUR SURVEY IDENTIFIED THE REGULATORY  
23 PATHWAY AS THE SINGLE BIGGEST IMPEDIMENT. AND SO  
24 THERE'S AN OPPORTUNITY FOR US TO WORK WITH THE FDA  
25 AND WORK WITH OTHER STAKEHOLDERS IN ORDER TO IMPROVE

BARRISTERS' REPORTING SERVICE

1 UPON THAT.

2 SO WE TOOK ALL THAT INFORMATION, AND THE  
3 FIRST THING WE DID WAS WE WANTED TO MAKE SURE THAT  
4 WE HAD THE RIGHT MISSION AND THAT WE WERE ALL  
5 ALIGNED BEHIND THAT MISSION BECAUSE IN A STRATEGIC  
6 PLAN, WITHOUT HAVING SOMETHING TO ORIENT TOWARDS  
7 THAT IS ESSENTIALLY YOUR TRUE NORTH, IT BECOMES VERY  
8 DIFFICULT TO MAKE DECISIONS. SO OUR IMMOVABLE POINT  
9 HERE IS OUR MISSION, WHICH IS TO ACCELERATE STEM  
10 CELL TREATMENTS TO PATIENTS WITH UNMET MEDICAL  
11 NEEDS. ONE HUNDRED PERCENT OF OUR BOARD MEMBERS AND  
12 95.4 PERCENT OF ALL OTHER STAKEHOLDERS AGREED THAT  
13 THIS WAS THE MISSION. SO WE, I THINK, SUCCESSFULLY  
14 HAVE CONFIRMED OUR MISSION.

15 THE SECOND THING WAS TO CREATE A VISION.  
16 I WON'T GO INTO ALL THE DETAIL BEHIND ALL THE WORDS  
17 HERE. IT'S IN THE STRATEGIC PLAN WHY WE PICKED THE  
18 WORDS THAT WE PICKED. BUT THE FIRST PART SAYS  
19 EXPONENTIALLY ADVANCE CIRM'S MISSION. I THINK  
20 THAT'S THE THING WE SHOULD FOCUS ON HERE. WE'RE NOT  
21 TALKING ABOUT MAKING INCREMENTAL ADVANCEMENTS.  
22 WE'RE TALKING ABOUT DOING THINGS WHICH SIGNIFICANTLY  
23 MOVE THE NEEDLE AND CHANGE FOR THE BETTER  
24 REGENERATIVE MEDICINE AND STEM CELL THERAPIES SUCH  
25 THAT WHEN THIS PLAN HAS REACHED ITS MATURITY IN

BARRISTERS' REPORTING SERVICE

1 2020, WE CAN LOOK BACK AND SEE A VERY PROFOUND AND  
2 MEANINGFUL DIFFERENCE.

3 SO THEN WE GET INTO STRATEGIC THEMES. SO  
4 HOW ARE WE GOING TO MAKE THIS DIFFERENCE? HOW ARE  
5 WE GOING TO ACCOMPLISH THIS EXPONENTIAL IMPROVEMENT?  
6 IN PREVIOUS PRESENTATIONS I USED THE PUSHING THE  
7 GIANT BOULDER OVER THE HILL TO THE VALLEY OF CURES  
8 BELOW. AND STICKING WITH THAT, WE HAVE THREE  
9 STRATEGIC THEMES IN ORDER TO DO THAT. THE FIRST IS  
10 WE'RE GOING TO PUSH THAT BOULDER AS HARD AS WE CAN  
11 AND AS EFFICIENTLY AS WE CAN. THAT'S WHERE  
12 OPERATIONAL EXCELLENCE COMES INTO. THAT SAYS THE  
13 THINGS WE'RE DOING AT CIRM AND WE'VE HISTORICALLY  
14 BEEN DOING AT CIRM ARE GOOD AND RIGHT, AND WE NEED  
15 TO DO AS GOOD A JOB AT GETTING GREAT AT THAT AS  
16 POSSIBLE. AND THAT CENTERS AROUND THINGS LIKE  
17 GETTING BETTER AT CIRM 2.0 AND GETTING MORE  
18 EFFICIENT AT THE WAY WE DO THINGS, IMPLEMENTING  
19 OTHER CHANGES.

20 THE SECOND THING, THOUGH, IS THAT WE NEED  
21 HELP. AND THERE SHOULD BE -- WE SHOULDN'T JUST BE  
22 PUSHING ON THIS BOULDER, BUT WE SHOULD HAVE HELP  
23 DOWNSTREAM PULLING ON THIS BOULDER, NOT JUST FROM  
24 INDUSTRY, BUT FROM INVESTIGATORS THAT ARE FURTHER  
25 DOWN FIELD. AND THAT'S WHERE THE SECOND STRATEGIC

BARRISTERS' REPORTING SERVICE

1     THEME, PULL, COMES INTO IT. IT'S ENGAGING  
2     DOWNSTREAM DEMAND TO HELP US MOVE THIS BOULDER.

3             AND THEN THE LAST IS LEVEL. STEM CELL  
4     THERAPIES FROM A REGULATORY STANDPOINT CURRENTLY  
5     DON'T EXIST ON A LEVEL PLAYING FIELD WITH REGARDS TO  
6     OTHER THERAPIES. AND WE NEED TO WORK WITH THE FDA  
7     IN ORDER TO CREATE A MORE LEVEL PLAYING FIELD HERE.  
8     SO THAT'S THE THIRD ASPECT OF IT. THE HILL THAT  
9     WE'RE PUSHING THIS BOULDER WITH IS JUST TOO HIGH.

10            SO SPECIFICALLY WHAT ARE WE GOING TO DO TO  
11    GET INTO THIS? AGAIN, THERE'S LOTS AND LOTS OF  
12    DETAIL CONTAINED WITHIN THE STRATEGIC PLAN ABOUT  
13    THIS. FROM A PUSH STANDPOINT, WE NEED TO FULLY  
14    OPERATIONALIZE CIRM 2.0. THE BOARD IN JULY PASSED  
15    THE LAST COMPONENTS OF IT, THE DISCOVERY AND  
16    TRANSLATIONAL. SO WE NOW HAVE DISCOVERY,  
17    TRANSLATIONAL, AND CLINICAL CIRM 2.0 IN PLACE.  
18    MARIA BONNEVILLE AND JAMES HARRISON ARE WORKING ON  
19    THE CIRM CORE INITIATIVE, WHICH IS BASICALLY TO GET  
20    THE REST OF CIRM'S COMPONENTS 2.0-IZED, IF YOU WILL,  
21    AND MAKE SURE WE HAVE A GOOD, STREAMLINED, EFFICIENT  
22    OPERATING SYSTEM IN PLACE.

23            SO WE'VE SEEN THIS ALREADY WITH REGARDS TO  
24    THE CLINICAL PROGRAM OF CIRM 2.0. THE MORE WE DO IT  
25    REPETITIVELY, THE BETTER WE GET AT IT. AND THE

BARRISTERS' REPORTING SERVICE

1 BETTER WE GET AT IT, THE MORE LIKELY WE ARE TO HAVE  
2 SUCCESSES OUT OF IT. SO THE FIRST SPECIFIC ACTION  
3 IS JUST GET REALLY GOOD AT WHAT WE'RE DOING UNDER  
4 2.0.

5 THE SECOND CENTERS AROUND CONSTRUCTING  
6 TRANSLATING CENTERS AND ACCELERATING CENTERS, AND WE  
7 CAN TALK ABOUT THESE TERMS, BUT BASICALLY WHAT WE'RE  
8 SAYING IS AN AGENCY OR AN ENTITY IN THE TRANSLATING  
9 CENTER THAT WILL ACTUALLY HELP US CONDUCT AND HELP  
10 OUR APPLICANTS CONDUCT THE PRECLINICAL WORK  
11 NECESSARY IN ORDER TO GET AN IND IN A COORDINATED  
12 FASHION WITH FDA AS QUICKLY AS POSSIBLE. THIS ISN'T  
13 THE KIND OF WORK THAT TYPICALLY OUR TRANSLATIONAL  
14 INVESTIGATORS LIKE TO DO. IT'S MORE OF THE  
15 REGULATORILY REQUIRED IND-ENABLING WORK. AND THAT  
16 PAIRED WITH WHAT WE CALL AN ACCELERATING CENTER OR  
17 BASICALLY A STEM CELL-SPECIFIC CRO THAT WOULD HELP  
18 COMPILE THE IND, FILE THE IND, AND HELP THEM RUN  
19 CLINICAL TRIALS.

20 AND THEN THE LAST PIECE CENTERS AROUND  
21 REALLY COORDINATING AND FOCUSING THESE PROGRAMS.  
22 MAKING SURE WE HAVE TRIALS THAT ARE WORTH DOING,  
23 MAKING SURE THAT ONCE WE HAVE A PROGRAM THAT'S  
24 SUCCESSFUL AND IT'S MET ITS END POINTS, IT  
25 EFFICIENTLY MOVES ON TO THE NEXT STEP. BASICALLY

BARRISTERS' REPORTING SERVICE

1 JUST CLEANING UP SOME SCOPE ISSUES WE HAVE. SO  
2 THAT'S PUSH.

3 PULL, THERE'S TWO SPECIFIC INITIATIVES  
4 WITHIN PULL. ONE OF THEM IS TO LAUNCH WHAT WE CALL  
5 THE CIRM EXCHANGE. THIS IS IN CONCEPT PHASE STILL,  
6 BUT THIS IS WHERE WE SET UP SOMETHING ALONG THE  
7 LINES OF THE CIRM'S VERSION OF MATCH.COM WHERE WE  
8 CONNECT EARLY STAGE RESEARCHERS WITH DOWNSTREAM  
9 RESEARCHERS INTERESTED IN THOSE PROGRAMS WHO ARE  
10 QUALIFIED AND VETTED SO PEOPLE AREN'T WASTING THEIR  
11 TIME. SO AS A PROGRAM MOVES FROM EARLY TO LATE  
12 STAGE AND TO COMMERCIAL STAGE, WE HAVE A GOOD,  
13 EFFICIENT SYSTEM IN PLACE FOR MATCHING UP INTERESTED  
14 PARTIES.

15 THE SECOND IS CREATING THESE  
16 PUBLIC/PRIVATE PARTNERSHIPS, OR IN JUST PLAIN TERMS,  
17 CIRM WORKING WITH AN INTERESTED PARTY OR PARTIES TO  
18 CREATE A NEW ENTITY OR COMPANY WITHIN CALIFORNIA, OR  
19 COULD BE COMPANIES WITHIN CALIFORNIA THAT WOULD TAKE  
20 AND AGGREGATE SOME OF CIRM'S MOST PROMISING BUT  
21 UNLICENSED TECHNOLOGIES AND FORMULATE THEM INTO A  
22 COMPANY AND ULTIMATELY COMMERCIALIZE THEM. WE'LL  
23 TALK MORE ABOUT THAT.

24 AND THEN THE LAST PIECE CENTERS AROUND  
25 LEVELING THE PLAYING FIELD AGAIN. HERE REALLY



BARRISTERS' REPORTING SERVICE

1 THERE'S TWO ASPECTS. ONE IS TO ORGANIZE WHAT WE  
2 CALL AN ARMY OF STAKEHOLDERS. ONE OF THE THINGS WE  
3 HEARD REPEATEDLY FROM PATIENT ADVOCATES, WHICH I  
4 TOTALLY GET, IS THEY DON'T WANT TO JUST BE  
5 SPECTATORS TO CIRM. THEY WANT TO BE ACTIVE  
6 PARTICIPANTS AND ADVOCATING ON BEHALF OF CIRM IN A  
7 NUMBER OF DIFFERENT AREAS, BUT PARTICULARLY WITH THE  
8 REGULATORY AGENCIES IS SOMETHING THAT WE CAN USE AND  
9 WELCOME THEIR HELP WITH AND ACTUALLY HELP THEM BE AS  
10 EFFECTIVE, MAXIMALLY EFFECTIVE, WHICH IS WHAT WE  
11 WANT TO DO.

12 AND THEN THE SECOND THING IS WE NEED TO  
13 DRIVE REGULATORY REFORM. THERE'S TWO PARTICULAR  
14 AREAS THAT WE NEED TO ADDRESS. ONE IS THE  
15 IND-ENABLING AREA, WHICH IS CURRENTLY TOO LONG FOR  
16 STEM CELL THERAPIES. AND THE OTHER CENTERS AROUND  
17 WITH THE RISK-BASED APPROACH THAT FDA HAS TO CELL  
18 THERAPY, REALLY NOT BEING A RISK-BASED APPROACH, BUT  
19 REALLY A LIGHT SWITCH. IT'S EITHER ON OR IT'S OFF,  
20 AND THERE IS NO MIDDLE GROUND. AND WE THINK THERE'S  
21 GOOD OPPORTUNITY FOR THERE TO BE MIDDLE GROUND. SO  
22 WE WANT TO WORK WITH THE AGENCY ON ESTABLISHING  
23 THAT.

24 SO THE GREATER THING TO UNDERSTAND IS NOT  
25 ONLY HAVE WE LAID OUT THESE SPECIFIC ACTIONS IN

BARRISTERS' REPORTING SERVICE

1 THESE THREE CONCEPTS AS PUSH, PULL, AND LEVEL, BUT  
2 WE'RE REALLY MAKING THIS BIG SHIFT FROM BEING AN  
3 INITIATIVE-BASED AGENCY TO A SYSTEMS-BASED AGENCY  
4 WHERE ALL OF THE DIFFERENT COMPONENTS WORK TOGETHER  
5 IN HARMONY, IN CONCERT, ROWING IN THE SAME DIRECTION  
6 TO PRODUCE, NOT JUST A ONE-OFF OUTCOME, BUT A  
7 CONTINUUM. THE ANALOGY WE USE HERE IS TAKING THESE  
8 PARTS AND PUTTING THEM TOGETHER AND CREATING AN  
9 ENGINE WHERE ALL THE PIECES IN THE ENGINE FROM EARLY  
10 STAGE DISCOVERY THROUGH LATE STAGE CLINICAL RESEARCH  
11 AND COMMERCIALIZATION EFFORTS ALL WORK TOGETHER IN  
12 HARMONY TO CREATE AN OUTCOME WHICH IS NOT JUST A  
13 ONE-OFF SUCCESS, BUT A CONTINUAL PIPELINE OF  
14 SUCCESS, WHICH, IF WE DO THIS, WON'T EXIST ANYWHERE  
15 ELSE IN THE WORLD OTHER THAN IN CALIFORNIA AND  
16 BECAUSE OF CIRM. THE VISION HERE IS TO HAVE PEOPLE  
17 NO MATTER WHERE WE THEY ARE, IF THEY'RE IN CELL  
18 THERAPY, THEY WANT TO COME AND THEY HAVE TO COME TO  
19 CALIFORNIA BECAUSE WE'RE GOING TO ACCELERATE THEIR  
20 PROGRAMS AND GET THEIR TECHNOLOGIES TO PATIENTS WITH  
21 UNMET MEDICAL NEEDS FASTER THAN YOU COULD ANYWHERE  
22 ELSE IN THE WORLD.

23 SO WE LAY OUT VERY SPECIFIC AND MEASURABLE  
24 RESULTS HERE WITH THIS PROGRAM. WE GOT A LOT OF  
25 FEEDBACK SINCE THE FIRST VERSION OF THIS, AND SO

BARRISTERS' REPORTING SERVICE

1 WE'VE LINED THEM UP BASICALLY FROM THE FRONT OF THE  
2 ENGINE TO THE BACK OF THE ENGINE. THE FIRST THING  
3 WE WANT TO DO IS MAKE SURE EVERYONE UNDERSTANDS WE  
4 ARE NOT JUST IN THE LATE STAGE BUSINESS. WE HAVE  
5 SET A VERY, VERY AGGRESSIVE DISCOVERY GOAL THAT SAYS  
6 WE'RE GOING TO INTRODUCE 50 NEW THERAPEUTIC OR  
7 DEVICE CANDIDATES AT THE FRONT END OF THIS. WE WANT  
8 TO MAKE SURE THAT, ONCE WE DISCOVER THESE NEW AND  
9 PROMISING TECHNOLOGIES, WE'RE ACTUALLY ABLE TO MOVE  
10 THEM DOWN THE TRACK. AND SO WE WANT TO MAKE SURE  
11 THAT OUR PROJECTS ADVANCE TO THE NEXT STAGE OF  
12 DEVELOPMENT OR INCREASE THAT BY AT LEAST 50 PERCENT  
13 OVER WHAT WE'RE CURRENTLY DOING. WE WANT TO REFINED  
14 THE REGULATORY PATHWAY. AND IF WE THINK WE REFINED  
15 THE REGULATORY PATHWAY, THAT WILL ACTUALLY HELP US  
16 ACCELERATE. SO NOT JUST HAVE THESE THINGS MOVE DOWN  
17 THE FIELD WITH A HIGHER PROBABILITY OF SUCCESS, BUT  
18 ALSO DECREASE THE TIME AT WHICH IT TAKES THEM TO DO  
19 THAT.

20 SPECIFICALLY, IN THE TRANSLATIONAL AREA,  
21 WE WANT TO CUT THAT TIME IN HALF, WHICH WOULD BE  
22 FROM THE EIGHT YEARS TO THE FOUR YEARS WHICH WOULD  
23 BE A VERY SIGNIFICANT GOAL.

24 WE WANT TO WHAT WE CALL VALIDATE, WE WANT  
25 TO ADD 50 NEW PROGRAMS INTO THE CLINIC, SO 50 NEW

BARRISTERS' REPORTING SERVICE

1 CLINICAL TRIALS, COVERING AT LEAST 20 UNIQUE  
2 DISEASES WITH AT LEAST TEN THAT ARE ORPHAN AND FIVE  
3 THAT ARE PEDIATRIC. AND THEN, LASTLY, WE WANT TO  
4 HAVE THESE THINGS FIND COMMERCIAL HOMES WHERE THEY  
5 CAN ULTIMATELY GO ON TO HELP, NOT JUST INDIVIDUALS  
6 IN TRIALS, BUT POPULATIONS OF PEOPLE SUFFERING FROM  
7 THESE DISEASES. THAT'S OUR GOAL AT THE END IS  
8 PARTNERING WHERE WE WANT 50 PERCENT OF OUR CLINICAL  
9 STAGE PROJECTS THAT ARE UNPARTNERED TO FIND  
10 COMMERCIAL PARTNERS.

11 FROM A FINANCIAL STANDPOINT, THIS ISN'T AN  
12 OPERATING PLAN, SO IT DOESN'T GO INTO DETAILED  
13 OPERATING BUDGETS, BUT WHAT WE'RE TRYING TO DO  
14 REALLY WITH THE FINANCIAL SUMMARY IS TO LAY OUT TWO  
15 THINGS. ONE IS SHOW THAT THERE IS SUFFICIENT MONEY  
16 IN ORDER TO ACCOMPLISH THESE GOALS, AND THERE IS.  
17 YOU WILL NOTICE THERE'S 890 MILLION IN FUNDING TO BE  
18 COMMITTED, AND WE LAID OUT 775 THAT WAS UNCOMMITTED.  
19 THAT IS, AGAIN, THE DIFFERENCE BETWEEN THE 775 AND  
20 THE 890 IS THE RATE AT WHICH WE'RE ANTICIPATING,  
21 ABOUT 10 PERCENT, THAT FUNDS WILL BE RETURNED BACK  
22 TO THE AGENCY FOR PROGRAMS THAT WE ATTEMPT, BUT END  
23 UP NOT BEING SUCCESSFUL.

24 THE SECOND THING WE WANT TO DO IS MAKE  
25 SURE THAT EVERYONE UNDERSTANDS THESE ASSUMPTIONS,

BARRISTERS' REPORTING SERVICE

1 SUCH AS THE RECOVERY RATE BEING 10 PERCENT, WHAT  
2 THESE DIFFERENT PROGRAMS WILL COST, THE ACCELERATING  
3 AND THE TRANSLATING CENTERS. I THINK SORT OF A KEY  
4 HERE IS THAT WE'RE NOT TRYING TO SPREAD THIS OUT  
5 LIKE PEANUT BUTTER. WE'RE TRYING TO GET THIS ENGINE  
6 UP AND RUNNING AT MAXIMAL POWER AS FAST AS WE CAN.  
7 SO THERE'S NOTHING IN THIS, EITHER THE FINANCIAL  
8 PLAN OR THE STRATEGIC PLAN, THAT ISN'T ALL ABOUT  
9 GETTING EVERYTHING GOING RIGHT NOW AS QUICKLY AS WE  
10 CAN.

11 AND THAN LASTLY, AND I IDENTIFIED THESE IN  
12 OUR LAST MEETING AND THEY REMAIN, IS THERE ARE RISKS  
13 TO THIS PLAN. SO IT'S A VERY AMBITIOUS PLAN. IT'S  
14 FEASIBLE, BUT WE HAVE TO IDENTIFY THE RISKS, AND WE  
15 HAVE TO BE PREPARED TO DO WHATEVER WE CAN TO  
16 MITIGATE THESE RISKS. WE NEED TO BE VERY DILIGENT  
17 ABOUT MONITORING. IN THIS OVERVIEW I LAID OUT ONLY  
18 THE END GOALS THAT WE EXPECT TO HAVE; BUT IN THE  
19 ACTUAL PLAN ITSELF, WE LAY OUT THE MONITORING THAT'S  
20 GOING TO TAKE PLACE AT THE DEPARTMENT LEVEL FOR  
21 EVERY DEPARTMENT WITHIN CIRM. SO WE NEED TO BE VERY  
22 VIGILANT THAT WE REMAIN ON TRACK AND THAT WE REMAIN  
23 ON SCHEDULE AND ON BUDGET. AND IF WE DO ALL OF  
24 THAT, I THINK WE SHOULD BE SUCCESSFUL.

25 EVEN WITH THAT SAID, THERE ARE A NUMBER OF

BARRISTERS' REPORTING SERVICE

1 RISKS THAT ARE IMPORTANT. FIRST AND FOREMOST IS  
2 THERE MAY NOT BE SUFFICIENT HIGH QUALITY PROGRAMS  
3 THAT EXIST IN ORDER TO ENABLE US TO REACH OUR GOALS.  
4 WE'RE DOING EVERYTHING WE CAN INTERNALLY TO HAVE  
5 THAT NOT BE TRUE, BUT THAT'S CERTAINLY A RISK. AND  
6 ONE OF THE THINGS, I THINK, AS A GROUP WE FEEL VERY  
7 STRONGLY ABOUT IS THE METRIC WE SHOULDN'T LOWER IN  
8 ORDER TO ACHIEVE THIS GOAL AND TO MITIGATE THIS RISK  
9 IS QUALITY. WE MAY NOT HAVE SUFFICIENT APPLICANTS  
10 FOR OUR DIFFERENT PROGRAMS IN ORDER TO WIN BIDS, AND  
11 THAT WOULD MEAN THAT THE SPECIFIC PROGRAMS THAT  
12 WE'RE TRYING TO SET UP WE COULD HAVE A FAILURE IN.

13 WE WORRY INTERNALLY ABOUT THE TEAM THAT  
14 WE'VE ASSEMBLED. THE TEAM WE HAVE AT CIRM IS ONE OF  
15 THE BEST TEAMS I'VE EVER WORKED WITH IN MY LIFE, BUT  
16 WE HAVE A VERY REAL SITUATION, WHICH IS CIRM HAS A  
17 FINITE FUNDING LIFE AHEAD OF IT. AND THAT FUNDING  
18 LIFE COULD AND WILL AFFECT OUR ABILITY TO ATTRACT  
19 AND RETAIN THE CALIBER OF TALENT WE CURRENTLY HAVE  
20 AT CIRM. SO THAT'S SOMETHING WE NEED TO BE VERY  
21 COGNIZANT ABOUT.

22 NO MATTER WHAT WE DO, WE MAY NOT BE ABLE  
23 TO CONVINCING INVESTORS THAT STEM CELL THERAPIES ARE A  
24 GOOD IDEA.

25 AND THAN, LASTLY, THERE'S NO GUARANTEES

BARRISTERS' REPORTING SERVICE

1 THAT WE'LL BE ABLE TO CONVINCED FDA OR CONGRESS THAT  
2 CHANGE IN THE REGULATORY PARADIGM IS NECESSARY AND  
3 GOOD.

4 BUT WITH ALL OF THAT, THOSE ARE NO REASONS  
5 TO NOT GO FORWARD WITH AN AMBITIOUS PLAN. SO THAT  
6 IS WHAT WE'RE DOING. WE ARE GOING TO DO EVERYTHING  
7 WE CAN IN ORDER TO MOVE THESE STEM CELL THERAPIES  
8 FROM WHERE THEY ARE TODAY TO THE PATIENTS THAT SO  
9 DESPERATELY NEED THEM. WE'RE GOING TO PUSH, WE'RE  
10 GOING TO PULL, WE'RE GOING TO LEVEL, AND WE'RE GOING  
11 TO DO IT IN A COORDINATED FASHION IN ORDER FOR CIRM  
12 TO BE MAXIMALLY SUCCESSFUL. WITH THAT, I WILL STOP  
13 TALKING.

14 CHAIRMAN SHEEHY: THANK YOU, DR. MILLS,  
15 FOR THAT INCREDIBLE PRESENTATION.

16 SO JUST A COUPLE OF POINTS BEFORE WE HAVE  
17 DISCUSSION OF THE PLAN AMONG BOARD MEMBERS. ONE IS,  
18 BECAUSE DR. STEWARD ISN'T HERE YET, I THINK WE'LL  
19 ACTUALLY DELAY A VOTE ON THE STRATEGIC PLAN TILL  
20 AFTER WE LOOK AT THE THREE CONCEPTS THAT ARE GOING  
21 TO BE INTRODUCED TODAY, WHICH PROBABLY MAKES SENSE  
22 LOGICALLY AS WELL BECAUSE APPROVING THE PLAN AND NOT  
23 APPROVING THE CONCEPTS WOULD KIND OF SEND AN  
24 AMBIGUOUS MESSAGE.

25 THE SECOND QUESTION I HAD WERE FOR DR.

BARRISTERS' REPORTING SERVICE

1 MELMED AND DR. HIGGINS, WHETHER OR NOT THERE WAS  
2 PUBLIC AT THEIR SITE SO THAT WE KNOW FOR PUBLIC  
3 COMMENT.

4 DR. HIGGINS: THERE'S NOT.

5 DR. MELMED: NOT HERE IN LOS ANGELES  
6 EITHER.

7 DR. HIGGINS: UNLESS ONE OF MY DOGS  
8 COUNTS.

9 CHAIRMAN SHEEHY: AT THIS POINT WE'RE  
10 READY TO HAVE DISCUSSION ABOUT THE PLAN. EITHER OF  
11 YOU HAVE COMMENTS YOU'D LIKE TO MAKE OR QUESTIONS  
12 FOR DR. MILLS OR ANY OF THE CIRM TEAM?

13 DR. MELMED: JUST COMPLIMENT RANDY ON HIS  
14 PASSION AND ON HIS INITIATIVE.

15 DR. HIGGINS: I WOULD SECOND THAT, AND I  
16 ALSO WOULD ADD THE THING THAT STRIKES ME OR HAS  
17 STRUCK ME OVER THE PAST MONTH IS THE CONSISTENCY OF  
18 THE MESSAGE. I THINK MORE THAN ANYTHING HAVING A  
19 CONSISTENT MESSAGE NOT ONLY TEACHES THE CIRM TEAM TO  
20 HAVE A FOCUS AND A MISSION, IT ALSO TRAINS THE  
21 PUBLIC TO HAVE A MESSAGE AND A FOCUS FOR CIRM. I  
22 THINK THAT THAT'S ONE OF THE MOST IMPORTANT SERVICES  
23 THAT RANDY HAS DONE FOR US.

24 CHAIRMAN SHEEHY: SO ANYONE HERE IN SAN  
25 FRANCISCO. SENATOR TORRES? CHAIRMAN THOMAS?



BARRISTERS' REPORTING SERVICE

1           CHAIRMAN THOMAS: JUST WANTED TO REITERATE  
2 SOMETHING RANDY SAID BECAUSE I THINK THAT WHAT'S SO  
3 INTERESTING ABOUT THIS PLAN IS THE EXTREME AMOUNT OF  
4 DILIGENCE THAT HE AND THE CIRM TEAM DID WITH EVERY  
5 CONCEIVABLE STAKEHOLDER GROUP OVER A MANY-MONTH  
6 PERIOD AND COUNTLESS DISCUSSIONS INTERNALLY ALL  
7 TOWARDS DRIVING WHAT HE AND THE TEAM BELIEVES IS A  
8 GRAND VISION THAT IS AT ONCE STRATEGIC AND  
9 DIFFICULT, BUT DOABLE IF EVERYBODY PITCHES IN AND  
10 DOES AS HE ANTICIPATES. SO I WANT TO ECHO THE  
11 COMMENTS, JUST TO CONGRATULATE RANDY ON A MOST  
12 THOUGHTFUL DOCUMENT WHICH I THINK SETS THE TONE FOR  
13 WHAT SHOULD BE A VERY EXCITING FIVE YEARS.

14           CHAIRMAN SHEEHY: I'D LIKE TO CONGRATULATE  
15 DR. MILLS AND THE CIRM TEAM AS WELL FOR THIS  
16 PRODUCT. HAVING BEEN INVOLVED IN MANY STRATEGIC  
17 PLANNING PROCESSES OVER THE COURSE OF THE LIFE OF  
18 THIS AGENCY, THIS IS CERTAINLY THE MOST IMPRESSIVE  
19 DOCUMENT I'VE SEEN SINCE THE FIRST ONE THAT WE  
20 CREATED WHICH WAS CLOSE TO THIS LENGTH. SO THE  
21 DILIGENCE THAT HAS GONE INTO THIS PLANNING IS  
22 INCREDIBLE AND IMPRESSIVE.

23           I ALSO AM IMPRESSED BY THE METRICS THAT  
24 HAVE BEEN PUT INTO PLACE. I REALLY ADVISE PEOPLE,  
25 IF YOU GET A CHANCE, READ THE ENTIRE PLAN. NOT ONLY

BARRISTERS' REPORTING SERVICE

1 DO WE HAVE CLEAR METRICS FOR OUTCOMES, BUT EACH TEAM  
2 WITHIN THE LARGER CIRM TEAM HAS PUT IN PROCESS  
3 METRICS TO INCREASE OUR PROBABILITY OF SUCCESS. SO  
4 THE WILLINGNESS OF BOTH SENIOR LEADERSHIP AND  
5 INDIVIDUAL TEAM MEMBERS TO HOLD THEMSELVES  
6 ACCOUNTABLE AND TO SET AMBITIOUS GOALS IS LAUDABLE.  
7 SO THANK YOU FOR ALL THIS WORK.

8 UNLESS THERE'S OTHER BOARD COMMENT, I WILL  
9 OPEN IT UP TO ANY PUBLIC COMMENT HERE IN SAN  
10 FRANCISCO. SEEING NONE, WE'LL TAKE CONSIDERATION OF  
11 THIS UP AFTER WE LOOK AT THE THREE CONCEPTS THAT ARE  
12 BEING PRESENTED. AND THE FIRST ONE IS THE  
13 ACCELERATING CENTER. AND, DR. MILAN, WILL YOU BE  
14 PRESENTING ON THIS?

15 DR. MILAN: YES, I WILL. GOOD AFTERNOON,  
16 MEMBERS OF THE SCIENCE SUBCOMMITTEE OF THE ICOC AND  
17 COLLEAGUES FROM CIRM. I'LL BEING PRESENTING TWO  
18 CONCEPT PLANS TOGETHER, THE ACCELERATING CENTER AND  
19 THE TRANSLATING CENTER, TWO INFRASTRUCTURE PROGRAMS  
20 THAT WE'RE PROPOSING FOR CONSIDERATION THAT WE FEEL  
21 ARE CRITICAL TO ACHIEVING THE STRATEGIC PLAN THAT  
22 WAS LAID OUT BY DR. MILLS JUST A LITTLE WHILE AGO.

23 SO BY WAY OF BACKGROUND, JUST TO REITERATE  
24 THAT WE ARE OBSERVING CIRM'S PIPELINE MATURING, WE  
25 ARE ANTICIPATING OR ACTIVELY PURSUING ACTIVE GROWTH,

BARRISTERS' REPORTING SERVICE

1 AGGRESSIVE GROWTH OF THE PRECLINICAL AND CLINICAL  
2 STAGE PROGRAMS. AND AS WE'RE DOING SO, WE WANT TO  
3 MAKE SURE TO ADDRESS THE CHALLENGES AND MEET THE  
4 NEEDS OF THOSE PROGRAMS, INCREASE THE PROBABILITY OF  
5 THEIR PROGRESSION THROUGH TO GETTING TO THE CLINICAL  
6 TRIAL STAGE AND THEN TO PATIENTS.

7 IN THE CONVERSATIONS WITH STAKEHOLDERS  
8 THAT DR. MILLS HAD MENTIONED, THE RESEARCHERS,  
9 SPONSORS, REGULATORS, AND OTHER STAKEHOLDERS WE HAVE  
10 IDENTIFIED, AS WELL AS OUR OWN OBSERVATIONS FROM  
11 MANAGING OUR CIRM PROJECTS, WE HAVE IDENTIFIED KEY  
12 CHALLENGE AREAS WHERE WE FEEL WE CAN IMPACT IF WE  
13 PROVIDED THE PROPER INFRASTRUCTURE SUPPORT. AND  
14 THAT'S IN THE AREA OF IND-ENABLING ACTIVITIES,  
15 INCLUDING PROCESS DEVELOPMENT AND MANUFACTURING  
16 PLANS, AND ALL OF THE PRECLINICAL WORK THAT NEEDS TO  
17 GO INTO ASSEMBLING A STRONG IND PACKAGE. THE IND  
18 BEING THE REGULATORY PERMISSION BY WHICH  
19 INVESTIGATORS CAN GO AHEAD INTO CLINICAL TRIALS WITH  
20 THEIR DEVELOPMENT CANDIDATE, AND BY PROVIDING  
21 EFFICIENCIES AND A CONTINUOUS LOOP OF LEARNING TO  
22 CARRYING OUT THESE UNIQUE CLINICAL TRIALS, STEM CELL  
23 CLINICAL TRIALS, WHICH ARE VERY DIFFERENT FROM THE  
24 TRADITIONAL SMALL MOLECULES AND PHARMACOLOGIC  
25 TRIALS.

BARRISTERS' REPORTING SERVICE

1           IN ADDITION, IN ADDRESSING THESE WITH THE  
2           CORE INFRASTRUCTURE PROGRAMS THAT I'LL BE PRESENTING  
3           SHORTLY, THESE INFRASTRUCTURE PROGRAMS, BY  
4           ADDRESSING THESE NEEDS, WOULD ACCUMULATE AGGREGATED  
5           EXPERIENCE AND VALUABLE DATASETS AND KNOWLEDGE THAT  
6           WILL INFORM BETTER OPERATIONS, CONTINUAL  
7           IMPROVEMENTS, AS WELL AS AGGREGATE KNOWLEDGE AND KEY  
8           INFORMATION THAT WOULD ALLOW VERY INFORMED AND  
9           POWERED CONVERSATIONS WITH THIRD-PARTY STAKEHOLDERS  
10          SUCH AS REGULATORY BODIES AND EVENTUALLY  
11          REIMBURSEMENT BODIES.

12                 SO ONE OF THE OTHER ADVANTAGES IS THERE'S  
13          AN IDENTIFIABLE ENTITY OR ENTITIES, SO CALLED  
14          ONE-STOP SHOPS, THAT WOULD BE FAMILIAR WITH, BUILD  
15          RELATIONSHIPS WITH, AND BUILD STABLE AND DURABLE  
16          COMMUNICATION LINES WITH PATIENTS, REGULATORS, AND  
17          DEVELOPERS AND SPONSORS.

18                 I PUT THIS UP AGAIN. IT'S A SCHEMATIC  
19          DIAGRAM OF A JET ENGINE THAT REPRESENTS HOW WE  
20          ENVISION IN THE FIVE-YEAR STRATEGIC PLAN THE NEW  
21          INFRASTRUCTURE PROGRAMS AS WELL AS ALL OF CIRM'S  
22          PROGRAMS WORKING COORDINATELY AND EFFICIENTLY TO BE  
23          AN ACCELERATING MACHINERY.

24                 SO THE INFRASTRUCTURE PROGRAMS THAT I'LL  
25          DESCRIBE TO YOU IN A LITTLE BIT ARE PROPOSED TO GO

BARRISTERS' REPORTING SERVICE

1 INTO THIS ENGINE, BUT FIRST I'D LIKE TO GIVE A BRIEF  
2 UPDATE ON THE ALPHA CLINICS NETWORK, WHICH IS AN  
3 INFRASTRUCTURE PROGRAM FOR CLINICAL TRIAL, STEM CELL  
4 CLINICAL TRIAL SUPPORT.

5 AS A REMINDER, THE ALPHA STEM CELL CLINIC  
6 NETWORK WAS FUNDED TO ACCELERATE THE DEVELOPMENT AND  
7 DELIVERY OF STEM CELL THERAPIES BY INTRODUCING  
8 EFFICIENCIES AND SCALABLE RESOURCES TOWARDS  
9 SUPPORTING STEM CELL CLINICAL TRIALS. AND THAT  
10 INITIATIVE WAS LAUNCHED EARLY THIS YEAR WITH THREE  
11 PROGRAMS AT THE CITY OF HOPE, UC SAN DIEGO, AND THE  
12 UCLA-UC IRVINE CONSORTIUM, AND THOSE WERE LAUNCHED  
13 BETWEEN FEBRUARY AND APRIL OF 2015.

14 JUST FOR A BRIEF OVERVIEW OF THE PROGRESS  
15 OF THE ALPHA CLINICS NETWORK, THE ICOC HAD APPROVED  
16 \$24 MILLION OF FUNDING FOR THE NETWORK IN OCTOBER OF  
17 2014. AND SINCE THEN, THERE WERE PRELAUNCH MEETINGS  
18 WITH ALL THE SITES WHERE THERE WAS ACTIVE ENGAGEMENT  
19 AND PLANNING EVEN BEFORE THE AWARDS HAD INITIATED.  
20 AND THEN THERE WERE LAUNCH MEETING SITE VISITS, AND  
21 WE INITIATED RIGHT AWAY QUARTERLY STEERING COMMITTEE  
22 MEETINGS WHERE WORK GROUPS WERE FORMED TO CREATE  
23 WHAT'S CALLED ACCELERATING AND VALUE-ADD RESOURCES,  
24 THE TOOLS BY WHICH THIS CLINICAL NETWORK IS GOING TO  
25 INTRODUCE EFFICIENCIES AND EXECUTE ON ITS PLAN AND

BARRISTERS' REPORTING SERVICE

1 ITS GOALS TO IMPROVE CLINICAL TRIALS AND TO  
2 EFFICIENTLY SUPPORT THESE PROJECTS.

3 JUST TO BRIEFLY GIVE AN OVERVIEW OF WHAT  
4 THESE ACCELERATING AND VALUE-ADD RESOURCES LOOK  
5 LIKE, AS WE KNOW, AS MANY WHO ARE INVOLVED IN  
6 CLINICAL TRIALS KNOW, SOME OF THE POTENTIAL GATING  
7 ITEMS ARE PATIENT RECRUITMENT, IRB APPROVALS. SO  
8 THERE ARE EFFICIENCIES THAT CAN BE INTRODUCED RIGHT  
9 OFF THE BAT LEVERAGING RESOURCES THAT ARE ALREADY IN  
10 PLACE FROM NETWORKS SUCH AS A UC-BRAID, FOR  
11 INSTANCE, THAT THE CLINICAL NETWORKS HAVE BROUGHT  
12 INTO THE -- THAT THE ALPHA CLINICS HAVE BROUGHT INTO  
13 THIS NETWORK NOW GEARED TOWARD THE STEM CELL  
14 CLINICAL TRIALS.

15 FOR INSTANCE, RECIPROCAL IRB APPROVALS ARE  
16 NOW GOING TO BE PUT IN PLACE SO THAT ONE CAN GET  
17 APPROVALS AT MULTIPLE SITES AT ONCE, THEREBY  
18 IMPROVING THE EFFICIENCIES FOR THAT PROCESS, AND  
19 ALSO ENGAGING THE PATIENT REGISTRIES FOR COHORT  
20 FINDING, AND TO ACCELERATE THE PROCESS OF PATIENT  
21 RECRUITMENT AND ENROLLMENT. SO MANY OF THESE  
22 RESOURCES ARE ALREADY BEING UTILIZED, THEY'RE BEING  
23 FORMED, BUT A KEY MESSAGE IS THAT FORMATION OF --  
24 BRINGING FORWARD THESE AVARS, AS WE CALL THEM,  
25 ACCELERATING AND VALUE-ADD RESOURCES, ACROSS THE

BARRISTERS' REPORTING SERVICE

1 NETWORK AND TO OTHER CLINICAL SITES IN CALIFORNIA  
2 WOULD REQUIRE A CENTRAL ENTITY SUCH AS THE  
3 ACCELERATING CENTER.

4 SO I'LL NEXT GO ON TO DESCRIBING THE  
5 INFRASTRUCTURE PROGRAM, THE ACCELERATING CENTER,  
6 WHICH IS A STEM CELL-FOCUSED CLINICAL RESEARCH  
7 ORGANIZATION WITH THE GOAL OF SPEEDING THE  
8 PROGRESSION OF THERAPEUTIC CANDIDATES FROM THE  
9 TRANSLATIONAL, PRECLINICAL STAGE TO CLINICAL TRIALS  
10 BY PROVIDING EFFICIENCIES AND ACCELERATING RESOURCES  
11 TOWARD THE CONDUCT OF CLINICAL TRIALS WHILE  
12 MAINTAINING A HIGH DEGREE OF RIGOR AND QUALITY.

13 THE PROPOSED ACTIVITIES FOR THIS  
14 ACCELERATING CENTER OR THE CLINICAL RESEARCH  
15 ORGANIZATION INCLUDE SUPPORTING THE STEM CELL TRIALS  
16 BY ASSISTING THEM AND ACTUALLY TAKING A LEAD IN IND  
17 ASSEMBLY AND SUBMISSION, IN THE MANAGEMENT OF THE  
18 KEY ASPECTS OF CLINICAL TRIAL EXECUTION, AND IN DATA  
19 MANAGEMENT.

20 THIS ACCELERATING CENTER WOULD WORK IN  
21 COLLABORATION AND COORDINATELY WITH THE TRANSLATING  
22 CENTER TO ACCELERATE THE REGULATORY PATHS. SO THE  
23 TRANSLATING CENTER, WHICH WILL BE DESCRIBED IN A  
24 LITTLE BIT, WOULD PERFORM THE IND-ENABLING WORK AND  
25 WORK WITH THE ACCELERATING CENTER TO ASSEMBLE THAT

BARRISTERS' REPORTING SERVICE

1 INTO A STRONG IND PACKAGE ALONG WITH A SPONSOR. AND  
2 BECAUSE THESE TWO INFRASTRUCTURE PROGRAMS WOULD DO  
3 THIS FOR A MULTITUDE OF STEM CELL TRIALS, THERE  
4 WOULD BE EFFICIENCIES THAT WOULD BE GAINED AND  
5 KNOWLEDGE THAT WOULD BE ACCUMULATED, AND IN ITSELF  
6 WOULD INTRODUCE A BETTER PRODUCT IN THE END.

7 THE ACCELERATING CENTER WOULD ALSO  
8 COORDINATE WITH THE ALPHA CLINICS NETWORK TO SCALE  
9 UP AND SCALE OUT THE AVAR'S, ACCELERATING AND  
10 VALUE-ADD RESOURCES, THAT I HAD JUST DESCRIBED SO  
11 THAT IT CAN BE MORE WIDELY AVAILABLE TO OTHERS IN  
12 THE STEM CELL CLINICAL DEVELOPMENT SPACE.

13 AND IT IS REQUIRED THAT THIS ACCELERATING  
14 CENTER HAVE A BUSINESS PLAN SO THAT IT'S SUSTAINABLE  
15 AND WOULD PROVIDE A RESOURCE FOR THE FUTURE GROWING  
16 PIPELINE OF STEM CELL TRANSLATIONAL AND CLINICAL  
17 PROGRAMS.

18 WITHOUT GOING INTO TOO MUCH DETAIL, I DID  
19 LIST SOME SPECIFIC ACTIVITIES HERE, BUT THE KEY  
20 THING FOR THE ACCELERATING CENTER IS THAT IT COULD  
21 ACT AS A CENTRAL ROLE IN FDA INTERACTIONS. AGAIN,  
22 FORMING THOSE KEY RELATIONSHIPS, BEING ABLE TO CALL  
23 UPON ACCUMULATED AND AGGREGATED KNOWLEDGE BASE, AND  
24 THAT WOULD IN ITSELF CREATE EFFICIENCIES AND  
25 IMPROVEMENTS IN THE PROCESS. AND THAT WOULD THEN BE



BARRISTERS' REPORTING SERVICE

1 TRANSMITTED AS A BENEFIT TO THE SPONSORS WHO ARE  
2 SUBMITTING THEIR IND'S.

3 THE ACCELERATING CENTER WOULD HELP TO  
4 MANAGE AND PROVIDE SUPPORT SCALED TO THE NEEDS OF  
5 THE SPONSORS AND THE ALPHA CLINICS IN ALL OF THE  
6 ACTIVITIES RELATED TO INITIATING A CLINICAL TRIAL,  
7 RUNNING A CLINICAL TRIAL, AND COMPILING THE RESULTS  
8 OF THE CLINICAL TRIAL.

9 AND THE ACCELERATING CENTER, IN ADDITION  
10 TO PROVIDING CUTTING-EDGE AND TOP QUALITY DATA  
11 MANAGEMENT AND STATISTICAL AND ANALYTIC SUPPORT,  
12 WOULD ALSO ENABLE THE RESEARCHERS AND STEM CELL  
13 COMMUNITIES TO HAVE A PLACE TO DEPOSIT AND  
14 ACCUMULATE THE AGGREGATED KNOWLEDGE THAT WOULD  
15 INFORM THE BEST PATH FORWARD FOR CELL THERAPY  
16 DEVELOPMENT, BUT ALSO TO INFORM CONVERSATIONS WITH  
17 THE REGULATORS AND WITH REIMBURSEMENT GROUPS.

18 WE'RE PROPOSING A BUDGET OF UP TO \$15  
19 MILLION TO SUPPORT THIS ACCELERATING CENTER WITH THE  
20 PROPOSED TIMELINE AS SHOWN IN THIS CHART WITH  
21 APPLICATIONS BEING DUE IN THE FIRST HALF OF 2016 AND  
22 REVIEWED DURING THAT TIME PERIOD, AND WE ENVISION  
23 ICOC REVIEW AND APPROVAL OF THE GWG RECOMMENDATION  
24 FOR THE ACCELERATING CENTER RFA IN THE SECOND HALF  
25 OF 2016. WE ENVISION THAT THIS ACCELERATING CENTER

BARRISTERS' REPORTING SERVICE

1 WOULD BE OPERATIONAL BY THE SECOND HALF OF 2016.

2 SO I DON'T KNOW IF YOU WANT TO TAKE  
3 QUESTIONS FIRST OR CONSIDER THE SCIENCE SUBCOMMITTEE  
4 MOTION.

5 CHAIRMAN SHEEHY: SINCE WE'RE NOT AT A  
6 POINT WHERE WE COULD CONSIDER A MOTION, I THINK  
7 WE'LL TAKE QUESTIONS FROM BOARD MEMBERS AND THE  
8 PUBLIC FIRST. JUST TO BE CLEAR WHAT THE EVENTUAL  
9 MOTION WOULD BE, IT WOULD BE TO RECOMMEND BOARD  
10 APPROVAL OF THE CONCEPT PLAN FOR THE ACCELERATING  
11 CENTER, AND IT WOULD AUTHORIZE A BUDGET OF UP TO 15  
12 MILLION TO FUND A SINGLE AWARD OVER FIVE YEARS.

13 SO, DR. MELMED, DAVID, DO YOU GUYS HAVE  
14 ANY QUESTIONS, COMMENTS, ETC. ON THIS PARTICULAR  
15 CONCEPT?

16 DR. HIGGINS: I DON'T HAVE ANY QUESTIONS.  
17 IT WAS VERY CLEAR.

18 DR. MELMED: ME TOO. VERY CLEAR.

19 CHAIRMAN SHEEHY: DR. THOMAS, SENATOR  
20 TORRES, ANY QUESTIONS?

21 CHAIRMAN SHEEHY: SO I HAD JUST A COUPLE  
22 OF QUESTIONS TO REALLY CLARIFY. SO THIS  
23 ACCELERATING CENTER WILL BASICALLY BE AN ENTITY  
24 THAT --

25 DR. MELMED: HELLO.

BARRISTERS' REPORTING SERVICE

1 CHAIRMAN SHEEHY: IS HE NOT HEARING US?

2 WE HEAR YOU, DR. MELMED.

3 DR. MELMED: YOU CUT OUT THERE. SORRY.

4 CHAIRMAN SHEEHY: CAN YOU HEAR US NOW?

5 DR. HIGGINS: HEAR YOU NOW.

6 CHAIRMAN SHEEHY: I'M HERE. SO A COUPLE  
7 OF QUESTIONS. NO. 1, THIS WILL BE A SERVICE  
8 OFFERED. THE GRANTEES ARE NOT REQUIRED TO USE THIS  
9 SERVICE.

10 DR. MILAN: THAT'S CORRECT.

11 CHAIRMAN SHEEHY: IN TERMS OF MILESTONES,  
12 CAN YOU GIVE EXAMPLES OF A COUPLE OF MILESTONES?

13 DR. MILAN: FOR THE ACCELERATING CENTER.  
14 SO THE MILESTONES WOULD BE OPERATIONAL MILESTONES  
15 CONSISTENT WITH THE CIRM 2.0 CURRENT FUNDING SCHEME.  
16 AND IT WOULD INVOLVE THINGS SUCH AS HAVING THE  
17 NECESSARY OPERATIONS AND PERSONNEL IN PLACE BY A  
18 CERTAIN TIME POINT, BEING ABLE TO SUPPORT A VOLUME  
19 OF CLINICAL TRIALS AND PROJECTS WITHIN CERTAIN TIME  
20 POINTS, AND PRODUCING THE WORK PRODUCTS, SUCH AS  
21 ASSISTING WITH THE IND SUBMISSION, THINGS THAT ARE  
22 MEASURABLE QUANTITATIVELY. AND THEN, OF COURSE,  
23 WE'LL BE ALSO TRACKING QUALITY-TYPE METRICS AND  
24 SECONDARY OUTCOMES FROM THAT JUST BASED ON SOME OF  
25 THE OTHER METRICS THAT ARE IN PLACE.

BARRISTERS' REPORTING SERVICE

1 CHAIRMAN SHEEHY: SO CIRM GRANTEES WILL  
2 RECEIVE SERVICES AT A DISCOUNT PRICE REFLECTING  
3 CIRM'S INVESTMENT. AND REALLY THE IDEA IS TO CREATE  
4 A SUSTAINABLE BUSINESS MODEL THAT WILL PROVIDE  
5 SERVICES TO THE FIELD AT LARGE?

6 DR. MILAN: YES. INITIALLY THE IDEA IS  
7 THAT THEY WOULD SERVE THE CIRM PROGRAMS AND THE CIRM  
8 ALPHA CLINICS AT A DISCOUNT. AND THEN AS THE YEARS  
9 GO ON, THEY COULD TAKE ON CLIENTS WHICH ARE CIRM OR  
10 NON-CIRM AND CHARGE THEM MARKET COMPETITIVE RATES TO  
11 BE ABLE TO SUSTAIN THE BUSINESS ENTITY.

12 CHAIRMAN SHEEHY: AND THEN JUST ONE FINAL  
13 QUESTION. I THINK IMPLICIT IN YOUR PRESENTATION IS  
14 THAT WE'VE SEEN SOME SUCCESS WITH THE ALPHA CLINICS,  
15 WHICH WAS A QUESTION THAT I THINK MANY OF US HAD  
16 WHEN WE APPROVED THE FIRST ALPHA CLINICS. IF THAT  
17 SUCCESS CONTINUES, IT'S STILL EARLY, IS THERE AN  
18 OPPORTUNITY IN THE NEAR FUTURE TO PUT FORWARD A  
19 CONCEPT FOR ADDITIONAL ALPHA CLINICS IF THE DATA  
20 SUPPORTS IT, IF THE EVIDENCE CONTINUES TO SHOW  
21 STRONG -- THAT WE'RE GETTING VALUE FROM THE CLINICS  
22 WE'VE SET UP SO FAR?

23 DR. MILLS: YEAH. SO ABSOLUTELY. THE  
24 ALPHA CLINICS, TO TAKE A SECOND HERE, MARIA MILAN  
25 HAS DONE A PHENOMENAL JOB WORKING WITH THE ALPHA

BARRISTERS' REPORTING SERVICE

1 CLINICS AND GETTING THE THREE WE HAVE UP AND  
2 RUNNING. THE EARLY BASICALLY RETURNS THAT WE'RE  
3 GETTING ON THOSE CLINICS ARE VERY POSITIVE. AND IF  
4 THAT CONTINUES, WE WOULD BE COMING BACK TO THE BOARD  
5 WITH A RECOMMENDATION TO FUND ADDITIONAL ONES.

6 CHAIRMAN SHEEHY: THANK YOU, DR. MILLS.  
7 SO THOSE ARE ALL THE QUESTIONS I HAD. IF THERE ARE  
8 NO MORE QUESTIONS FROM ANY OTHER MEMBERS OF THE  
9 BOARD, I'LL ASK FOR PUBLIC COMMENT. IS THERE ANY  
10 PUBLIC COMMENT HERE IN SAN FRANCISCO? SEEING NONE,  
11 AGAIN, DR. STEWARD IS NOT HERE YET, THOUGH I'M TOLD  
12 HE'S ON HIS WAY. SO WE WILL DELAY A VOTE, A  
13 SUBCOMMITTEE VOTE, AT THIS TIME UNTIL HE GETS HERE.  
14 WE'LL HAVE A QUORUM AT THAT POINT.

15 I THINK THE NEXT ITEM ON THE AGENDA IS  
16 CONSIDERATION OF THE CONCEPT PLAN FOR THE  
17 TRANSLATING CENTER. AND I THINK, DR. MILAN, ARE YOU  
18 GOING TO DO THAT PRESENTATION AS WELL?

19 DR. MILAN: YES, I WILL. THANK YOU. SO  
20 THE PARTNER INFRASTRUCTURE PROGRAM TO THE  
21 ACCELERATING CENTER IS A SO-CALLED TRANSLATING  
22 CENTER, WHICH IS NOW THE PARTNER PRECLINICAL -- STEM  
23 CELL-FOCUSED PRECLINICAL RESEARCH ORGANIZATION.  
24 AGAIN, WITH THE SAME GOAL OF SPEEDING THE  
25 PROGRESSION OF THERAPEUTIC CANDIDATES FROM THE

BARRISTERS' REPORTING SERVICE

1 TRANSLATIONAL PRECLINICAL STAGE TO THE CLINICAL  
2 TRIALS AND EVENTUALLY TO PATIENTS.

3 AND THE TRANSLATING CENTER'S ROLE WOULD BE  
4 TO PERFORM THE IND-ENABLING WORK. AND I'LL DESCRIBE  
5 THOSE A LITTLE BIT MORE IN A BIT. AND EFFICIENT  
6 CONDUCT OF PRECLINICAL ACTIVITIES THAT WOULD ENABLE  
7 THE SUCCESSFUL ASSEMBLY OF THE REGULATORY DOCUMENTS  
8 TO SUPPORT A CLINICAL TRIAL.

9 THE TRANSLATING CENTER, WHICH, AGAIN, IS  
10 AN ORGANIZATION THAT'S FORMED AND FUNDED BY THIS  
11 INITIATIVE TO PUT PERSONNEL AND OPERATIONS BEHIND  
12 PROVIDING CORE SERVICES THAT WOULD BE PROVIDED TO  
13 CIRM PROGRAMS. THE ACTIVITIES OF THE TRANSLATING  
14 CENTER WOULD INCLUDE CELL PROCESS DEVELOPMENT AND  
15 MANUFACTURING THAT ARE GMP, GOOD MANUFACTURING  
16 PRACTICE, COMPLIANT, OVERSEEING AND ASSEMBLING THE  
17 IND-ENABLING PRECLINICAL STUDIES, AND COORDINATING  
18 WITH THE ACCELERATING CENTER TO ASSEMBLE A WELL  
19 THOUGHT OUT AND STRONG IND PACKAGE ON BEHALF OF THE  
20 SPONSORS.

21 IN TERM OF PROCESS DEVELOPMENT AND  
22 MANUFACTURING, IT IS A VERY KEY AREA THAT WE'VE  
23 IDENTIFIED WHERE MANY INVESTIGATORS, ONCE THEY'VE  
24 IDENTIFIED A DEVELOPMENT CANDIDATE, THIS IS A VERY,  
25 VERY KIND OF RISKY AREA. AND THERE ARE IN CONTRACT

BARRISTERS' REPORTING SERVICE

1 MANUFACTURING ORGANIZATIONS AND OTHER ORGANIZATIONS  
2 SOME STANDARD KIND OF APPROACHES TOWARD GETTING AT  
3 THE PROCESS DEVELOPMENT THAT'S REQUIRED. AND SO BY  
4 PROVIDING AN INFRASTRUCTURE WITH PERSONNEL WITH THAT  
5 TYPE OF EXPERTISE, WE BELIEVE THAT WE CAN CUT DOWN  
6 SOME OF THE COMPLICATIONS AND DECREASE THE TIME THAT  
7 IT WOULD TAKE FOR OUR INVESTIGATOR TO TAKE THEIR  
8 DEVELOPMENT CANDIDATES THROUGH THE STAGES WHERE THEY  
9 CAN GET A REPRODUCIBLE AND A ROBUST PROCESS THAT  
10 COULD THEN ENABLE THEM TO GO INTO CLINICAL TRIALS  
11 AND THEN TO LATER DEVELOPMENT.

12 AND SOME OF THESE KIND OF DETAILS ARE  
13 LISTED HERE ON THE SLIDE. THEY'RE ASSOCIATED  
14 ACTIVITIES RELATED TO QUALITY SYSTEMS AND ASSAY  
15 DEVELOPMENT AND KIND OF QUALITY-BY-DESIGN ACTIVITIES  
16 SO THAT WHEN THESE PROCESSES ARE CREATED, THEY  
17 ACTUALLY HAVE ENVISIONED FUTURE SCALE-UP AND TECH  
18 TRANSFER SO THAT OTHER MANUFACTURERS CAN REPRODUCE  
19 THIS AND PRODUCE THIS FOR LARGER STAGE TRIALS AND  
20 LARGER SCALE TRIALS AND THEN EVENTUALLY FOR  
21 COMMERCIAL MANUFACTURING.

22 THE TRANSLATING CENTER WOULD MANAGE THE  
23 PRECLINICAL DATASETS, ASSEMBLE THEM. THEY MAY NOT  
24 NECESSARILY CONDUCT ALL THE ANIMAL STUDIES. THEY  
25 MAY BE OUTSOURCED TO OTHER CLASSIC CRO'S TO DO SOME

BARRISTERS' REPORTING SERVICE

1 SAFETY TOXICOLOGY STUDIES, SO THAT WOULDN'T NEED TO  
2 BE DUPLICATED, BUT THEY WOULD SHEPHERD THE PROCESS  
3 THROUGH, MAKE SURE THAT THEY AGGREGATE AND ASSEMBLE  
4 THE INFORMATION THAT THE SPONSOR PROVIDES REGARDING  
5 THE UNIQUE PRECLINICAL STUDIES AND CHARACTERIZATION  
6 THE CONTRACT RESEARCH ORGANIZATIONS PROVIDE IN TERMS  
7 OF THE STANDARD SAFETY TOXICITY DISTRIBUTION STUDIES  
8 THAT ARE REQUIRED WITH CELL THERAPIES, AS WELL AS  
9 ASSEMBLING THE INTERNAL DATASETS WHEN THEY DO THE  
10 PROCESS DEVELOPMENT RUNS AND CELL CHARACTERIZATION  
11 AND ASSAYS.

12 AND, AGAIN, THEY WOULD BE TAKING THE LEAD  
13 FROM THE ACCELERATING CENTER, WHICH IS LEADING THE  
14 FDA INTERACTIONS AND IND ASSEMBLY, BUT WOULD PROVIDE  
15 THE KEY PIECES OF THE CMC, WHICH IS THE CHEMISTRY  
16 MANUFACTURING CONTROL SECTION OF THE IND, AS WELL AS  
17 THE PRECLINICAL SECTIONS.

18 THE PROPOSED BUDGET FOR THIS TRANSLATING  
19 CENTER IS FUNDING OF UP TO \$15 MILLION FOR A PERIOD  
20 OF FIVE YEARS. WE ARE PLANNING FOR APPLICATIONS TO  
21 BE -- THE RFA TO BE OUT IN 2016 WITH APPLICATION DUE  
22 DATES IN THE SAME YEAR WITH ICOC REVIEW AND APPROVAL  
23 OF THE GWG RECOMMENDATIONS IN 2016, IN LATE 2016.  
24 BUT WE BELIEVE THAT WE COULD LAUNCH THIS CENTER BY  
25 LATE 2016.



BARRISTERS' REPORTING SERVICE

1 AND, AGAIN, THE SCIENCE SUBCOMMITTEE  
2 MOTION, PROPOSED MOTION, IS ON THE FINAL SLIDE.  
3 I'LL TAKE ANY QUESTIONS.

4 CHAIRMAN SHEEHY: THANK YOU, DR. MILAN.  
5 JUST TO BE CLEAR, THE PROPOSED MOTION IS TO  
6 RECOMMEND APPROVAL OF THE CONCEPT PLAN FOR THE CIRM  
7 TRANSLATING CENTER WITH BUDGET AUTHORIZATION OF UP  
8 TO 15 MILLION TO FUND A SINGLE AWARD OVER FIVE  
9 YEARS.

10 SO, DR. MELMED, DAVID, QUESTIONS,  
11 COMMENTS?

12 DR. HIGGINS: THIS MAY NOT BE AN  
13 APPROPRIATE QUESTION, BUT DO YOU HAVE POTENTIAL  
14 AWARDEES IN MIND? DO YOU KNOW SOMEONE THAT YOU  
15 WOULD HOPE WOULD APPLY FOR THIS OR THAT YOU WOULD  
16 SOLICIT TO APPLY FOR THIS? DO YOU HAVE GROUPS THAT  
17 ARE WELL-SUITED FOR THIS KIND OF WORK?

18 DR. MILAN: YES, WE DO. WHEN WE WERE  
19 WORKING ON THE EARLY STAGES OF THIS CONCEPT, WE  
20 ACTUALLY WENT AROUND TO DIFFERENT LARGE-SCALE CRO'S  
21 AND CMO'S AND EVALUATED THE NEED AS WELL AS  
22 INTEREST. AND WE HAVE REASON TO BELIEVE THIS WOULD  
23 INCENTIVIZE SOME OF THESE ORGANIZATIONS WITH THIS  
24 TYPE OF EXPERTISE TO CREATE A SUBDIVISION OR AN  
25 ENTITY THAT COULD BE FOCUSED ON STEM CELL AND

BARRISTERS' REPORTING SERVICE

1 REGENERATIVE MEDICINE. THERE'S A LOT OF INTEREST IN  
2 CREATING BUSINESS UNITS AROUND STEM CELL AND  
3 REGENERATIVE MEDICINE, AND WE GOT THAT READ AT THE  
4 MOST RECENT STEM CELL ON THE MESA MEETING.

5 DR. HIGGINS: YOU FEEL PRETTY CONFIDENT  
6 THERE'S SOMEBODY OUT THERE THAT WE WOULD BE  
7 COMFORTABLE SPENDING OUR \$15 MILLION TO ENABLE THEM  
8 TO DO THIS?

9 DR. MILLS: YEAH. I THINK, AGAIN, IT'S  
10 NOT JUST A. WE ACTUALLY FEEL PRETTY COMFORTABLE  
11 THAT WE WOULD HAVE MULTIPLE APPLICANTS TO THIS SO WE  
12 COULD PICK THE BEST ONE. I JUST WOULD REMIND YOU IF  
13 WE DIDN'T, THEN I WOULD HOPE THE GWG WOULD RECOMMEND  
14 IT BE NOT FUNDED, AND WE WOULDN'T SPEND THE MONEY ON  
15 IT. BUT I AGREE WITH DR. MILAN, THAT IN OUR  
16 CONVERSATIONS, ONE, THERE SEEMS TO BE A VERY STRONG  
17 INTEREST FOR THIS PROGRAM AMONGST, NOT JUST OUR  
18 APPLICANTS, BUT ACTUALLY, INTERESTINGLY, FDA WAS  
19 VERY INTERESTED IN US DOING THIS; AND, TWO,  
20 POTENTIAL APPLICANTS. WE WOULD HOPE WE WOULD HAVE A  
21 NUMBER OF HIGH QUALITY APPLICANTS TO THIS SO WE  
22 COULD ACTUALLY HAVE A REAL COMPETITION.

23 DR. HIGGINS: THANK YOU.

24 DR. MELMED: I HAVE A QUESTION. RANDY, IS  
25 THERE A REASON WHY WE'RE LIMITING IT TO ONE BY FIAT?

BARRISTERS' REPORTING SERVICE

1 WHAT HAPPENS IF WE GET MORE THAN ONE EXEMPLARY  
2 APPLICATION? ARE WE CONSTRAINING OURSELVES  
3 UNNECESSARILY?

4 DR. MILLS: I THINK, AT LEAST INITIALLY,  
5 WHAT WE'RE TRYING TO DO IS SET UP THIS CENTER THAT  
6 WOULD GET GREAT AT SOMETHING AND BE SUSTAINABLE.  
7 AND I DON'T KNOW RIGHT NOW THAT THERE'S ENOUGH  
8 VOLUME FOR US TO SPLIT THAT BETWEEN MULTIPLE  
9 ENTITIES. AND SO I THINK, AT LEAST TO START WITH,  
10 WE'D LIKE TO SEE ONE UP AND RUNNING THAT WOULD HAVE  
11 ENOUGH VOLUME THROUGH IT THAT IT COULD SUPPORT  
12 ITSELF. BECAUSE WHAT WE'RE ASKING FOR IS A VERY  
13 HIGHLY SPECIALIZED BASICALLY CMC AND PRECLINICAL TOX  
14 CENTER BE ESTABLISHED SPECIFICALLY AROUND CELL  
15 THERAPY AND STEM CELL THERAPY, AND WE WANT THAT TO  
16 ENDURE. WE WANT THAT TO EXIST LONG AFTER THE CIRM  
17 SUPPORT OF IT STOPS. AND I'M NOT VERY COMFORTABLE  
18 THAT THERE'S SUFFICIENT VOLUME TO DO MULTIPLES.

19 DR. MELMED: I'M NOT DISAGREEING WITH YOU.  
20 ALL I'M SAYING IS THAT JUST BY PROTOCOL, IF WE'RE  
21 LIMITING IT TO ONE, WE MAY BE SORT OF CUTTING OUR  
22 NOSE TO SPITE OUR FACE JUST IN CASE MORE THAN ONE  
23 EXEMPLARY APPLICATION.

24 DR. MILLS: I'M HOPING THERE'S MORE THAN  
25 ONE EXEMPLARY APPLICATION. WHAT I'M SAYING IS I

BARRISTERS' REPORTING SERVICE

1 DON'T THINK THERE'S SUFFICIENT DEMAND FOR THE  
2 APPLICANTS. AND SO THERE WILL PROBABLY BE MULTIPLE  
3 QUALIFIED APPLICANTS TO THIS, BUT NOT ENOUGH DEMAND  
4 FOR THE SERVICES TO SUPPORT MULTIPLE APPLICANTS.

5 CHAIRMAN SHEEHY: ADDITIONAL QUESTIONS?  
6 SO I JUST WANTED TO -- I THINK I HAVE THE SAME  
7 QUESTIONS I HAD ON THE LAST ONE. THIS WILL BE A  
8 SERVICE OFFERED TO OUR GRANTEES AT A DISCOUNT WITH  
9 THE IDEA THAT A BUSINESS MODEL AND A BUSINESS  
10 EMERGES THAT CARRIES ON.

11 DR. MILAN: WOULD BE ABLE TO OFFER THE  
12 SERVICES MORE GENERALLY OVER TIME AND CREATE A  
13 SUSTAINABLE ENTITY.

14 CHAIRMAN SHEEHY: AND THEN JUST EXAMPLES  
15 OF MILESTONES.

16 DR. MILAN: SIMILARLY, IT WOULD BE  
17 OPERATIONAL MILESTONES SUCH AS MAKING SURE THAT THE  
18 KEY PERSONNEL AND RESOURCES ARE IN PLACE TO ACTUALLY  
19 PROVIDE THE SERVICES. AND SO IT WILL BE VERY  
20 CONCRETE, SUCH AS TYPES OF EQUIPMENT THAT'S REALLY  
21 NECESSARY TO DO SOME OF THE PROCESS DEVELOPMENT  
22 WORK, FOR INSTANCE, OR CELL MANUFACTURING AND  
23 BANKING WORK. AND THEN, AGAIN, BASED ON ITS ABILITY  
24 TO SERVE THE CUSTOMERS, WHICH ARE OUR CIRM GRANTEES,  
25 SO IT WOULD BE VOLUME BASED AND PRODUCT BASED, BEING

BARRISTERS' REPORTING SERVICE

1 ABLE TO DELIVER ON PACKAGES THAT WOULD SUPPORT  
2 IND'S.

3 CHAIRMAN SHEEHY: THANK YOU. ANY OTHER  
4 QUESTIONS? DR. THOMAS.

5 CHAIRMAN THOMAS: JUST A COMMENT, THAT  
6 FURTHER TO THE STRATEGIC PLAN ANALYSIS WHERE DR.  
7 MILLS AND THE TEAM UNDERTOOK A SYSTEMIC REVIEW TO  
8 SEE WHERE THE GAPS ARE IN THE WHOLE PROCESS, BOTH  
9 THE ACCELERATING AND TRANSLATING CENTER ARE  
10 SPECIFICALLY DESIGNED FOR THE GAPS THAT WERE  
11 OBSERVED THAT CAN FURTHER THE WHOLE CAUSE OF WHAT  
12 OUR GRANTEES ARE TRYING TO DO. SO I THINK THIS IS A  
13 MAJOR STEP UP IN THE CONTINUUM OF THINGS THAT NEED  
14 TO BE ATTENDED TO TO ACCELERATE THERAPIES TO  
15 PATIENTS WITH UNMET MEDICAL NEEDS.

16 CHAIRMAN SHEEHY: ANY OTHER BOARD COMMENTS  
17 OR QUESTIONS? ANY PUBLIC COMMENT? OKAY. SEEING  
18 NONE, WE'LL ALSO HOLD OFF ON THE VOTE -- ON  
19 PROPOSING A MOTION AND A VOTE ON A MOTION UNTIL DR.  
20 STEWARD GETS HERE.

21 SO I THINK WE SHOULD MOVE FORWARD AT THIS  
22 POINT TO CONSIDERATION OF THE CONCEPT PLAN FOR  
23 ACCELERATED THERAPIES PUBLIC/PRIVATE PARTNERSHIPS.  
24 IS IT YOU AGAIN, DR. MILAN? DO YOU THINK A BREAK  
25 WOULD BE HELPFUL? I THINK WE'LL BREAK FOR, WHAT DO

BARRISTERS' REPORTING SERVICE

1 YOU SAY, TEN MINUTES, FIVE MINUTES? WE'LL RECONVENE  
2 AT 2:15.

3 (A RECESS WAS TAKEN.)

4 CHAIRMAN SHEEHY: SO I THINK WE'RE BACK  
5 FROM BREAK NOW. DR. STEWARD HAS JOINED US. THANK  
6 YOU, DR. STEWARD. DR. MELMED, DAVID, ARE YOU GUYS  
7 STILL WITH US?

8 DR. HIGGINS: I'M HERE.

9 DR. MELMED: I'M HERE ALSO.

10 CHAIRMAN SHEEHY: GREAT. SO I THINK WE'LL  
11 COME BACK -- WE'LL RECONVENE THE MEETING, AND WE ARE  
12 ON ITEM 6, WHICH IS CONSIDERATION OF CONCEPT PLAN  
13 FOR ACCELERATED THERAPIES PUBLIC/PRIVATE  
14 PARTNERSHIP. AND DR. MILAN WILL LEAD US THROUGH  
15 THAT.

16 DR. MILAN: THANK YOU VERY MUCH. SO I'LL  
17 BE PRESENTING THE ACCELERATING THERAPIES THROUGH  
18 PUBLIC/PRIVATE PARTNERSHIP, SO CALLED APT3. SO I  
19 MAY USE APT3 THROUGHOUT THE PRESENTATION.

20 AS A REMINDER OF OUR MISSION TO ACCELERATE  
21 STEM CELL TREATMENTS TO PATIENTS WITH UNMET NEEDS  
22 MEDICAL NEEDS AND IN LIGHT OF THE STRATEGIC PLAN  
23 PRESENTED BY PRESIDENT MILLS JUST A LITTLE WHILE  
24 AGO, THERE IS A CLEAR LACK OF INDUSTRY PULL FOR STEM  
25 CELL TREATMENTS. CIRM HAS THUS FAR INVESTED ABOUT

BARRISTERS' REPORTING SERVICE

1 \$2 BILLION IN DEVELOPING A PORTFOLIO OF OVER 300  
2 TECHNOLOGIES. AND THE PROGRAMS ARE NOW MATURING,  
3 AND THEY'RE MOVING THROUGH PRECLINICAL AND CLINICAL  
4 DEVELOPMENT. AND SO THESE PROGRAMS ARE NOW GETTING  
5 TO THE STAGE WHERE THEY'RE GOING, TO BE SUCCESSFUL  
6 AND TO MAKE IT TO PATIENTS, GOING TO NEED TO BE  
7 BROUGHT SUCCESSFULLY TO THE COMMERCIALIZATION STAGE.

8 AND INDUSTRY IS BEGINNING TO SHOW  
9 INTEREST, BUT ONLY A SMALL PROPORTION OF CIRM'S  
10 ACTIVE THERAPEUTIC PROGRAMS HAVE INDUSTRY PARTNERS,  
11 WHICH ARE NECESSARY AND CRITICAL TO ACTUALLY  
12 BRINGING THESE PRODUCTS TO COMMERCIALIZATION. AND  
13 BRINGING THESE PRODUCTS TO COMMERCIALIZATION IS WHAT  
14 WILL BRING THEM TO PATIENTS WHO NEED THE TREATMENTS.

15 IN ADDITION, IN OUR KIND OF DISCUSSIONS  
16 WITH DIFFERENT UNIVERSITIES AND IP HOLDERS FOR STEM  
17 CELL TECHNOLOGIES, IT'S CLEAR THAT MANY OF THE IP OR  
18 THE INTELLECTUAL PROPERTY OR TECHNOLOGIES THAT HAVE  
19 BEEN DEVELOPED ARE NOT REALLY MAKING IT TO THE POINT  
20 WHERE THEY'RE BEING ACTIVELY MARKETED. OUT OF THE  
21 3400 TECHNOLOGIES CURRENTLY BEING MARKETED BY THE UC  
22 SYSTEM, AND WE GOT THIS FROM AN INFORMAL DISCUSSION  
23 WITH THE UNIVERSITY OF CALIFORNIA OFFICE OF THE  
24 PRESIDENT, ONLY 74 PROGRAMS ARE STEM CELL PROGRAMS  
25 THAT ARE EVEN BEING MARKETED.

BARRISTERS' REPORTING SERVICE

1           IN DISCUSSIONS WITH THESE TECH TRANSFER  
2 OFFICES, IT'S CLEAR THAT PARTIALLY THERE IS JUST --  
3 THERE'S JUST A VARIETY OF FORCES IN PLACE. THEY'RE  
4 VERY INTERESTED IN BEING ABLE TO BRING THESE  
5 TECHNOLOGIES SO THAT THEY CAN BE PARTNERED, BUT THEY  
6 HAVE A HUGE NUMBER OF TECHNOLOGIES TO BRING FORWARD.  
7 STEM CELL TECHNOLOGIES SPECIFICALLY ARE MUCH MORE  
8 DIFFERENT THAN OTHER TECHNOLOGIES THAT THEY MAY BE  
9 MORE CONVERSANT IN.

10           AND SO WE DO BELIEVE THAT AS PART OF OUR  
11 MISSION WE NEED TO OFFER ASSISTANCE SO THAT THESE  
12 TECHNOLOGIES CAN MAKE IT OUT AND HAVE A CHANCE AT  
13 BEING PARTNERED AND MAKING IT TO COMMERCIALIZATION.

14           THEREFORE, THE ACCELERATING THERAPIES FOR  
15 PUBLIC/PRIVATE PARTNERSHIP OR THE APT3 CONCEPT IS  
16 BEING BROUGHT FORTH FOR YOUR CONSIDERATION. THE  
17 IDEA BEHIND THE APT3 INITIATIVE IS TO ENGAGE  
18 INDUSTRY SO THAT THEY WILL PULL SO THAT THERE IS A  
19 CREATION OF PULL FOR THESE TECHNOLOGIES BY CREATING  
20 AN OPPORTUNITY TO AGGREGATE CIRM'S MOST PROMISING  
21 TECHNOLOGIES, OFFERING MULTIPLE SHOTS ON GOAL, AND  
22 OFFERING A WAY TO DERISK EARLY INVESTMENT INTO  
23 WHAT'S CONSIDERED HIGH RISK, BUT HIGH REWARD  
24 PROJECTS.

25           BY DOING SO, BY AGGREGATION IN ADDITION TO



BARRISTERS' REPORTING SERVICE

1 DERISKING, IT DOES INCREASE THE PROBABILITY OF  
2 SUCCESS WITH JUST INCREASING THE DENOMINATOR OF ONE  
3 OR MORE OF THESE PROGRAMS WITHIN A GIVEN TIME MAKING  
4 IT THROUGH TO THE COMMERCIALIZATION PATH. AND,  
5 THUS, WE BELIEVE THAT THIS WOULD MAKE IT AND WE DO  
6 HAVE REASON TO BELIEVE THAT THIS WOULD MAKE IT MORE  
7 APPEALING AND ATTRACTIVE TO INDUSTRY INVESTORS.

8 IN ADDITION TO CREATING AN OPPORTUNITY TO  
9 AGGREGATE CIRM'S MOST PROMISING TECHNOLOGIES, WE  
10 PROPOSE THAT CIRM WOULD LEVERAGE ITS ADMINISTRATIVE  
11 AND REVIEW INFRASTRUCTURE AND ITS EXTERNAL TEAM OF  
12 ADVISORS AND SUBJECT MATTER EXPERTS TO PROMOTE  
13 ACCESS BY BEING ABLE TO PROVIDE INSIGHT INTO THESE  
14 PROGRAMS SO THAT THE SUCCESSFUL AWARDEE FOR APT3  
15 WOULD HAVE PREVETTED, PREREVIEWED PROGRAMS FOR THEM  
16 TO CHOOSE FROM FOR IN-LICENSING FOR ONWARD  
17 DEVELOPMENT AND COMMERCIALIZATION.

18 IN ADDITION, CIRM WOULD FUND THE  
19 DEVELOPMENT OF THESE IN-LICENSE TECHNOLOGIES,  
20 THEREFORE, SHARING NOT ONLY IN THE RISK, BUT SHARING  
21 IN THE COST OF DEVELOPING THESE THERAPIES.

22 TO JUST GO AND DESCRIBE THIS A LITTLE BIT  
23 MORE, THE CONCEPT IS AS FOLLOWS: THE PRIVATE  
24 PARTNER, WHICH WOULD BE THE SUCCESSFUL AWARDEE FOR  
25 THE APT3 RFA, WOULD IN-LICENSE, DEVELOP, AND DRIVE

BARRISTERS' REPORTING SERVICE

1 TOWARD COMMERCIALIZATION AN AGGREGATED PORTFOLIO OF  
2 NONPARTNERED CIRM PROJECTS. AND WHAT WE ENVISION IN  
3 THE RFA IS THAT THIS PRIVATE PARTNER WOULD PROPOSE  
4 THEIR SCHEME FOR AGGREGATION, WOULD THERE BE DISEASE  
5 FOCUS OR CLASS SPECIFICS; FOR INSTANCE, NEURO OR  
6 CARDIOVASCULAR OR ORPHAN DISEASES, MAKE A CASE FOR  
7 WHAT THEY WOULD DO IN TERMS OF THEIR BUSINESS PLAN  
8 FOR BRINGING THESE PROJECTS FORWARD, AND MAKE A CASE  
9 FOR WHY THAT MANAGEMENT TEAM WOULD BE ABLE TO  
10 SUCCESSFULLY DO SO.

11 CIRM, AS I MENTIONED JUST A LITTLE WHILE  
12 AGO, WOULD ENABLE THE IDENTIFICATION AND ASSEMBLY OF  
13 THE MOST PROMISING TECHNOLOGIES, AGAIN, LEVERAGING  
14 ITS REVIEW AND INFRASTRUCTURE TO DO SO, AND WOULD  
15 FUND THE CONTINUED DEVELOPMENT OF THESE PROJECTS.  
16 BY BEING ABLE TO PROVIDE THIS TYPE OF PROGRAM, OUR  
17 BROAD GOAL IS TO GET THE CIRM-FUNDED THERAPIES  
18 THROUGH TO PATIENTS WITH UNMET MEDICAL NEEDS BY  
19 INCENTIVIZING INDUSTRY PARTNERS TO COME IN AND,  
20 USING THEIR EXPERTISE AND THEIR KNOW-HOW, TO BRING  
21 IT TO COMMERCIALIZATION FOR THESE PATIENTS.

22 THE INTENDED OUTCOMES AND THE BENEFITS AND  
23 INCENTIVES TO THE VARIOUS STAKEHOLDERS ARE LISTED.  
24 SO FOR RESEARCHERS, FOR THOSE WHO HOLD THE IP, WHO  
25 HAVE THE DEVELOPMENT CANDIDATES, THIS INITIATIVE

BARRISTERS' REPORTING SERVICE

1 OFFERS CONTINUED FUNDING TO THEM FOR ADVANCEMENT OF  
2 THEIR CIRM PROJECT BEYOND WHAT'S ALREADY FUNDED.  
3 SO, FOR INSTANCE, IF A CIRM AWARDEE IS CURRENTLY  
4 FUNDED TO TAKE THEIR DEVELOPMENT CANDIDATE THROUGH  
5 PHASE I TRIALS, FOR INSTANCE, AND THIS IS CONSIDERED  
6 A PROMISING PROGRAM AND CIRM AGREES THAT IT SHOULD  
7 BE BROUGHT ON AND DEVELOPED FURTHER BY THIS  
8 MANAGEMENT TEAM, THE PROGRAM WOULD THEN GO ON TO BE  
9 IN-LICENSED BY THIS AWARDEE, THE PRIVATE PARTNER,  
10 AND CIRM WOULD CONTINUE TO FUND THAT PROGRAM THROUGH  
11 THE NEXT STAGES OF DEVELOPMENT THAT WOULD BE  
12 OPERATIONALIZED AND EXECUTED BY THIS MANAGEMENT  
13 TEAM.

14 FOR THE UNIVERSITIES, THE ADVANTAGE OF  
15 THIS PROGRAM IS THAT IT WOULD ACTUALLY HELP THEM  
16 ALONG AND BOLSTER WHAT THEY CAN ACTUALLY DO  
17 THEMSELVES IN TERMS OF OUT-LICENSING THESE  
18 TECHNOLOGIES. AND BY DOING SO, THEY WOULD HAVE A  
19 GREATER OPPORTUNITY TO ACHIEVE A FINANCIAL RETURN  
20 DUE TO AGGREGATION OF RISK BECAUSE NOT ONLY WOULD  
21 THEIR TECHNOLOGIES BE GOING INTO THIS ENTITY, BUT  
22 OTHER INTELLECTUAL PROPERTY OR DEVELOPMENT CANDIDATE  
23 PROJECTS WOULD BE GOING IN FROM OTHER UNIVERSITIES.  
24 AND IN THIS AGGREGATED FORM, IF THERE IS A VALUE  
25 CREATION, THERE'S AN OPPORTUNITY FOR RETURN BACK TO

BARRISTERS' REPORTING SERVICE

1 THEM EVEN IF IT'S NOT NECESSARILY THEIR PROGRAM THAT  
2 HAD SUCCEEDED.

3 AND FOR THE CITIZENS OF CALIFORNIA, THIS  
4 WOULD CREATE AN OPPORTUNITY TO GROW A THERAPEUTIC  
5 POWERHOUSE THAT INCREASES THE LIKELIHOOD OF  
6 COMMERCIALIZATION OF STEM CELL TREATMENTS. AND  
7 THIS, AGAIN, IS IN KEEPING WITH THE ORIGINAL MISSION  
8 OF CIRM AND ITS FORMATION.

9 THE PRIVATE PARTNER OR THE APT3 AWARDEE,  
10 AND, AGAIN, WE'VE HAD DISCUSSIONS WITH POTENTIAL  
11 APPLICANTS FROM VARIOUS SECTORS, FROM PHARMA,  
12 BIOTECH, SERIAL ENTREPRENEURS, VENTURE CAPITAL  
13 FIRMS, AND THERE IS INTEREST IN THIS TYPE OF MODEL  
14 FOR THOSE WHO REALLY HAVE AN INTEREST IN GOING INTO  
15 THE REGENERATIVE MEDICINE SPACE, BUT THIS WOULD BE  
16 INCENTIVIZING THEM BECAUSE IT WOULD DERISK THE  
17 PROPOSITION AS WELL AS OFFER ACCESS TO THIS RICH  
18 PORTFOLIO OF STEM CELL PROJECTS.

19 BUT THE PARTNER COULD ACTUALLY BE AN  
20 ESTABLISHED COMPANY THAT DECIDES TO REPURPOSE OR  
21 REDIRECT ITS EFFORT TOWARD THIS INITIATIVE, A  
22 SPIN-OFF OF THE LARGE COMPANY OR A SMALLER COMPANY  
23 OR A NEW COMPANY ALTOGETHER WHICH WOULD BE FORMED  
24 BECAUSE OF THIS INITIATIVE. AND THE REQUIREMENTS  
25 FOR THE AWARDEE WOULD BE THAT THEY WOULD NEED TO PUT

BARRISTERS' REPORTING SERVICE

1 FORTH A VERY STRONG AND EXCEPTIONAL BUSINESS PLAN  
2 THAT DESCRIBES THE MOST PROMISING TECHNOLOGY  
3 PORTFOLIO THEY WOULD IN-LICENSE AND THE BUSINESS  
4 PLAN FOR HOW THEY WOULD DEVELOP THESE PROJECTS, EVEN  
5 FINANCING-TYPE SCHEMES, ETC., THOSE WOULD BE WHAT  
6 THEY WOULD BE JUDGED ON. AND THEY WOULD ALSO BE  
7 JUDGED ON THEIR TRACK RECORD AND THE STRENGTH OF  
8 THEIR MANAGEMENT TEAM AS WELL AS THEIR PROPOSED  
9 BOARD OF DIRECTORS. THEY WOULD BE REQUIRED UP FRONT  
10 TO COMMIT A SIGNIFICANT INVESTMENT CAPITAL THAT  
11 MATCHES CIRM'S COMMITMENT SO THAT THEY CAN EXECUTE  
12 ON THIS BUSINESS PLAN AND CARRY OUT THE ACTIVITIES  
13 OF THIS INITIATIVE.

14 AND THEY WOULD HAVE ACCESS TO CIRM FUNDING  
15 COMMITMENT, AND THIS WOULD BE IN THE FORM A GRANT OR  
16 A LOAN. AND FOR THE PURPOSES OF TODAY, THE CIRM  
17 TEAM DOES NOT CURRENTLY HAVE A RECOMMENDATION FOR  
18 WHAT THE STRUCTURE OR THE NATURE OF THE TERMS OF  
19 THAT AWARD WOULD BE. WE ARE CONTINUING TO DO DUE  
20 DILIGENCE AND SEEKING EXTERNAL ADVICE AND MODELING.  
21 AND WE, AS I'LL MENTION LATER, WE PROPOSE TO BRING  
22 THIS BACK TO THE SCIENCE SUBCOMMITTEE AND THE  
23 INTELLECTUAL PROPERTY AND INDUSTRY SUBCOMMITTEE IN  
24 THE NEAR FUTURE.

25 THE TERMS OF THE AWARD WOULD BE THE

BARRISTERS' REPORTING SERVICE

1 FOLLOWING: WE WOULD REQUIRE THAT THE AWARDEE WOULD  
2 INVEST \$75 MILLION UP FRONT, ASSUMING THE CIRM AWARD  
3 IS UP TO \$75 MILLION IN FUNDING OVER A FIVE-YEAR  
4 PERIOD, TO EXECUTE ON THE BUSINESS PLAN AND TO DRIVE  
5 IN-LICENSE CIRM PROJECTS TO THE NEXT STAGES OF  
6 DEVELOPMENT AND TOWARD COMMERCIALIZATION. AND THEY  
7 WOULD BE SUBJECT TO THE PRICING AND ACCESS  
8 PROVISIONS COMMON ON OTHER CIRM AWARDS AS WELL AS  
9 MARCH-IN RIGHTS IN CASES WHERE THEY IN-LICENSED THE  
10 PROGRAM AND CHOSE TO EITHER SHELVES IT OR DECIDED NOT  
11 TO FURTHER DEVELOP IT SO THAT CIRM WOULD ACTUALLY  
12 DELEGATE THAT MARCH-IN RIGHT -- I DON'T KNOW WHAT  
13 THE TERMINOLOGY IS -- BY OFFERING RIGHT OF FIRST  
14 REFUSAL TO THE ORIGINAL INSTITUTION THAT HELD THAT  
15 IP.

16 SO THE MOTION IS STATED IN THIS SLIDE.

17 CHAIRMAN SHEEHY: SO, AGAIN, THIS MAY BE  
18 WHERE WE ACTUALLY START MAKING MOTIONS, BUT FOR NOW  
19 WE'LL HOLD OFF, I THINK, FOR DISCUSSION.

20 THE MOTION THAT'S PROPOSED IS TO RECOMMEND  
21 BOARD APPROVAL OF THE CONCEPT PLAN FOR APT3 WITH A  
22 BUDGET AUTHORIZATION OF UP TO 75 MILLION TO FUND ONE  
23 OR MORE AWARDS OVER FIVE YEARS AND DELEGATION OF  
24 AUTHORITY TO THE SCIENCE AND THE INTELLECTUAL  
25 PROPERTY AND INDUSTRY SUBCOMMITTEES TO APPROVE THE

BARRISTERS' REPORTING SERVICE

1 AWARD TERMS AT A JOINT MEETING.

2 SO I WANT TO ASK A COUPLE OF QUESTIONS  
3 MYSELF JUST FOR CLARITY BEFORE WE START TAKING OTHER  
4 BOARD MEMBER'S QUESTIONS. SO WHAT IS EXPLICITLY  
5 CONTEMPLATED IS THE ESTABLISHMENT OF A NEW ENTITY IN  
6 WHICH CIRM WOULD BE A STAKEHOLDER; IS THAT CORRECT?

7 DR. MILAN: YES, THAT'S CORRECT.

8 CHAIRMAN SHEEHY: SO EVEN IF IT WAS AN  
9 ESTABLISHED COMPANY, THEY WOULD PUT THEIR MONEY INTO  
10 SOMETHING THAT WOULD BE NEW AND SEPARATE SO WE COULD  
11 TRACK WHATEVER HAPPENED WITH IT?

12 DR. MILLS: THAT WOULD BE A REQUIREMENT.

13 CHAIRMAN SHEEHY: ALL RIGHT. SO THE  
14 SECOND QUESTION IS WE'RE LEAVING THE FINANCING DOWN  
15 THE ROAD. WE'RE BASICALLY OFFERING A LINE OF CREDIT  
16 TO THIS NEW ENTITY THEN. OUR 75 MILLION, THEY WOULD  
17 BE ABLE TO DRAW DOWN AS NEEDED FOR FURTHER  
18 DEVELOPMENT OF THE PROJECT. SO WE'VE IDENTIFIED  
19 THAT THEY CAN PUT INTO THIS ENTITY, RIGHT?

20 DR. MILAN: RIGHT. AND JUSTIFIABLE COSTS.  
21 THE FUNDS WOULD BE USED TO DEVELOP THE IN-LICENSED  
22 CIRM TECHNOLOGIES.

23 CHAIRMAN SHEEHY: AND THEN JUST TO WALK  
24 THROUGH THE PROCESS. SO WE'LL DO AN RFA, PEOPLE  
25 WOULD COME IN. THOSE PROPOSALS WOULD BE EVALUATED

BARRISTERS' REPORTING SERVICE

1 BY THE GRANTS WORKING GROUP AND A PARTNER, WHETHER  
2 IT'S AN INDIVIDUAL OR A COMPANY OR A GROUP OF  
3 INVESTORS OR WHAT HAVE YOU, TO SET UP THIS NEW  
4 ENTITY WOULD BE IDENTIFIED. AND THEN I JUST WANT TO  
5 BE CLEAR. SO THEY WOULD THEN BE LOOKING ACROSS OUR  
6 PORTFOLIO AND AT THAT SAME MEETING OR IS THERE  
7 CONTEMPLATED -- THIS IS A TWO-STAGE PROCESS.

8 DR. MILLS: TWO-STAGE OR PRACTICALLY MAYBE  
9 MORE. SO THE FIRST THING THE GWG WOULD DO WOULD  
10 PICK WHICH APPLICATION AND WHICH PLAN TEAM  
11 INVESTMENT CAPITAL, THE WHOLE THING WAS MOST  
12 MERITORIOUS, AND THEY WOULD LAY OUT A STRATEGY FOR  
13 WHAT THEY WANTED TO DO.

14 THE NEXT THING THAT WE ENVISION WITH THIS  
15 IS THAT THAT GROUP WOULD THEN IDENTIFY THE SPECIFIC  
16 PROGRAMS THAT THEY WANT TO GO AFTER FOR  
17 IN-LICENSING. NOW, THEY MAY DO THAT IN ONE BIG  
18 BASKET, AND THEY MAY SAY HERE ARE THESE 12 THINGS  
19 THAT WE WANT TO IN-LICENSE, IN WHICH CASE THE GWG  
20 WOULD REVIEW THEM AS CURRENT AS OF THAT DAY AND SAY,  
21 YES, RIGHT NOW, KNOWING WHAT WE KNOW, NOT  
22 HISTORICALLY WHAT WE USED TO KNOW, BUT WHAT WE KNOW  
23 NOW TODAY ABOUT THOSE PROGRAMS, WE WOULD COMMIT TO  
24 FUNDING THOSE PROGRAMS AGAIN. WE WOULD REUP.

25 MORE LIKELY, THOUGH, THEY'RE GOING TO SAY



BARRISTERS' REPORTING SERVICE

1 FOR SURE WE WANT THESE THREE AND WE'RE WORKING ON  
2 THESE OTHERS. AND SO I COULD IMAGINE WE WOULD BE  
3 USING THE GWG ON A ROLLING BASIS UNTIL THEIR BASKET  
4 WAS COMPLETE.

5 CHAIRMAN SHEEHY: OKAY. AND THEN WOULD  
6 THIS BE -- IF WE HAVE EXISTING COMPANIES THAT ARE  
7 GRANTEES, WOULD THEY BE PART OF THIS MIX TOO  
8 POTENTIALLY? LET'S SAY SOME OF OUR GRANTEES, SMALL  
9 BIOTECHS OR INVESTIGATOR, HAS CREATED A SMALL  
10 BIOTECH.

11 DR. MILAN: IF THEY COULD PUT TOGETHER A  
12 STRONG PLAN --

13 CHAIRMAN SHEEHY: I MEAN WOULD THEY BE  
14 POTENTIALLY ONE OF THE PROJECTS?

15 DR. MILAN: POTENTIALLY. SO --

16 CHAIRMAN SHEEHY: AS YOU SAY, THEY COULD  
17 BE A LEAD TOO ON THIS POTENTIALLY.

18 DR. MILAN: THEY COULD BE A LEAD. WE  
19 INITIALLY HAD THOUGHT THAT JUST UNPARTNERED PROGRAMS  
20 WOULD BE COMING IN. IT'S ALSO POSSIBLE THAT THERE  
21 ARE SOME PROGRAMS THAT ARE PARTNERED TO AN EXTENT  
22 THAT STILL WOULD BE ATTRACTED TO ENTERING INTO BEING  
23 IN-LICENSED BY THIS ENTITY.

24 CHAIRMAN SHEEHY: SO I THINK THE LAST  
25 QUESTION FOR ME, AT LEAST FOR NOW, SO WE ANTICIPATE

BARRISTERS' REPORTING SERVICE

1        WITHIN THE FIVE YEARS OF THE AWARD A LIQUIDITY  
2        EVENT. THAT IS OUR HOPE AND OUR EXPECTATION.  
3        EVERYTHING COULD GO BUST. SO THAT LIQUIDITY EVENT  
4        WOULD OFFER POTENTIALLY THE OPPORTUNITY FOR RECOVERY  
5        OR EVEN MULTIPLE RECOVERY OF OUR INITIAL INVESTMENT.  
6        IS THAT HOW THE PLAN IS ENVISIONED?

7                DR. MILAN: YES, THAT'S ENVISIONED. WHAT  
8        WE ARE DOING RIGHT NOW IS WORKING WITH SOME EXTERNAL  
9        ADVISORS TO MODEL THIS OUT IN TERMS OF DIFFERENT  
10       TYPES OF FUNDING AND LOAN STRUCTURES.

11               CHAIRMAN SHEEHY: GREAT. SO OTHER  
12       QUESTIONS? DR. STEWARD.

13               DR. STEWARD: SO AS AN ACADEMIC SCIENTIST,  
14       I HAVE ABSOLUTELY NO EXPERTISE IN ANY OF THIS, BUT  
15       IT SEEMS TO ME JUST TO BE AN INCREDIBLY CREATIVE WAY  
16       TO SOLVE SOME OF THE PROBLEMS THAT CIRM HAS SEEN  
17       COME INTO EFFECT AS THINGS GO FORWARD.  
18       CONGRATULATIONS ON REALLY A LOT OF HARD WORK ON  
19       THIS. I REALLY THINK IT'S VERY INTERESTING.

20               ONE QUESTION THAT I HAD WAS REALLY JUST IN  
21       TERMS OF THE NUMBERS HERE. SO IF WE'RE TALKING  
22       ABOUT FUNDING ONE THING AT ROUGHLY 75 MILLION AND WE  
23       HAVE AN APPROVED BUDGET AUTHORIZATION OF UP TO 75  
24       MILLION, WE'RE OBVIOUSLY TALKING ABOUT ONE THING.  
25       AND I JUST KIND OF WAS INTERESTED IN THE THINKING

BARRISTERS' REPORTING SERVICE

1 ABOUT THAT. ARE YOU THINKING THAT THERE REALLY IS  
2 LIKELY ONLY TO BE ONE COMPETITIVE PROGRAM, OR WOULD  
3 THERE -- I REALIZE THAT THE ICOC CAN ALWAYS BUDGET  
4 MORE, BUT I'M JUST CURIOUS ABOUT YOUR THINKING.

5 DR. MILLS: SO THE THOUGHT ON THIS IS WHAT  
6 WE DIDN'T WANT TO DO IS BE OVERLY PRESCRIPTIVE ON  
7 PEOPLE'S VIEWS OF WHAT SYNERGY LOOKS LIKE IN  
8 BUNDLING THESE PROGRAMS TOGETHER. AND SO TO SORT OF  
9 TAKE YOU THROUGH THE EVOLUTION OF THIS, WE  
10 ORIGINALLY SAID WHAT IF WE COULD DO THIS PROGRAM AND  
11 GET SOMEBODY TO JUST IN-LICENSE FLAT OUT ALL OF  
12 THEM? LET'S SAY THERE WERE 30 THAT WERE WORTHY OF  
13 IN-LICENSING AND JUST CREATE THIS MASSIVE PIPELINE.  
14 AND THAT WAS WHAT WE WERE GOING TO SORT OF DRIVE TO  
15 INCENTIVIZE TO DO. ALMOST YOU HAVE TO DO IT IN  
16 ORDER TO BE RESPONSIVE.

17 AS WE VETTED THE PROGRAM THROUGH VARIOUS  
18 PEOPLE, WE JUST GET THIS OVERWHELMING REACTION OF  
19 THAT'S CRAZY, THERE WILL BE A LACK OF FOCUS, IT WILL  
20 BE A MESS, NOBODY IS GOING TO WANT TO DO IT. AND  
21 THAT'S WHERE WE BACKED OFF TO LET THEM BASICALLY  
22 DRAW THE CIRCLE AROUND THE PROGRAMS THAT THEY WANT  
23 TO INCLUDE AND DESCRIBE THEIR STRATEGY ON WHY THEY  
24 THINK THEY CAN DO THE BEST WITH THAT.

25 NOW, SINCE WE DON'T KNOW WHETHER THE

BARRISTERS' REPORTING SERVICE

1 WINNING APPLICANT FOR THAT DRAWS THEIR CIRCLE AROUND  
2 TWO THINGS OR 30 THINGS, WE DON'T KNOW WHETHER OR  
3 NOT ULTIMATELY THIS IS ONE AWARD OR COULD END UP  
4 BEING MULTIPLE AWARDS. I THINK THE CONCEPT IS IT  
5 COULD BE MULTIPLE AWARDS. I THINK IT WOULD HAVE TO  
6 BE IN SERIAL RFA'S BECAUSE WE WOULD HAVE TO MAKE  
7 SURE -- WE WOULD HAVE TO KNOW WHICH ONES WERE CARVED  
8 OUT BY THE FIRST WINNER. BUT THE IDEA IS TO NOT BE  
9 PRESCRIPTIVE. SINCE WE'RE NOT PRESCRIPTIVE ON  
10 WHETHER IT'S TWO OR 20 THINGS YOU PULL TOGETHER,  
11 THEN, THEREFORE, WE CAN'T BE OVERLY DETAILED ON  
12 WHETHER OR NOT IT'S ONE OR FIVE OF THESE AWARDS WE  
13 ULTIMATELY HAVE.

14 I WOULD SAY IF YOU CIRCLED TWO THINGS AND  
15 SAID WE WANT TO TAKE THOSE TWO THINGS TOGETHER, I  
16 WOULD THINK WE COULD ARGUE THAT THAT'S NOT  
17 MERITORIOUS OF THE FULL 75 IN A LINE OF CREDIT.  
18 WE'D WANT TO SAVE SOME FOR SUBSEQUENT AWARDS.

19 DR. STEWARD: AND JUST TO SORT OF UNPACK  
20 THAT, ARE YOU THINKING OF DIFFERENT LEVELS OF  
21 FUNDING FOR DIFFERENT PACKAGES?

22 DR. MILLS: AGAIN, THE IDEA IS THAT IT  
23 BE -- A KEY COMPONENT TO THIS IS AGGREGATION. SO I  
24 ACTUALLY SHOULDN'T HAVE BROUGHT IT UP AS AN EXAMPLE  
25 OF A WINNING APPLICANT WITH TWO THINGS BECAUSE

BARRISTERS' REPORTING SERVICE

1 THAT'S -- I WOULD SAY THAT PROBABLY WOULD BE A  
2 NONRESPONSIVE APPLICANT. THE IDEA IS TO AGGREGATE  
3 THESE THINGS TOGETHER TO INCREASE YOUR LIKELIHOOD OF  
4 SUCCESS OF ONE OF THEM AND AGGREGATE THE RISK OUT OF  
5 THE REST OF THEM SO THE RETURN FOR THE LICENSING  
6 INSTITUTIONS COULD BE HIGH ENOUGH.

7 IT SHOULD BE SUFFICIENT. THAT 75 ISN'T  
8 NEARLY A ONE-TO-ONE MATCH OVER THE LIFE OF IT  
9 BECAUSE FOR POTENTIALLY MULTIPLE AWARDS, DEVELOPMENT  
10 OF THESE THERAPIES IN LATE STAGE REQUIRES A LOT MORE  
11 THAN \$150 MILLION OVER A PERIOD OF TIME. HOPEFULLY  
12 THERE ONLY WOULD BE ONE.

13 DR. STEWARD: THANK YOU.

14 CHAIRMAN SHEEHY: DR. MELMED, DAVID, DO  
15 YOU HAVE QUESTIONS, COMMENTS ABOUT THIS PROPOSAL?

16 DR. HIGGINS: NOTHING FROM ME.

17 DR. MELMED: NO FURTHER COMMENTS.

18 CHAIRMAN SHEEHY: OTHER BOARD MEMBERS HERE  
19 IN SAN FRANCISCO?

20 CHAIRMAN THOMAS: MR. SHEEHY, JUST TO  
21 REITERATE A POINT, SORT OF A CONSTANT THEME HERE,  
22 THIS IDEA FIRST CAME UP PROBABLY 15 MONTHS AGO IN A  
23 DISCUSSION THAT RANDY AND I HAD AND HAS SINCE THEN  
24 UNDERGONE MASSIVE AMOUNTS OF THOUGHT AND INTERVIEWS  
25 WITH STAKEHOLDERS AND TRYING TO FIGURE OUT. THIS

BARRISTERS' REPORTING SERVICE

1 BEING A VERY NOVEL IDEA, WANTED TO MAKE SURE WE GOT  
2 THE MOST INFORMED OPINIONS THAT EVERYBODY WOULD HAVE  
3 ON THE SUBJECT AS WE TRY TO FORMULATE WHAT THE  
4 PROPER FORM FOR THIS IS. SO THIS IS, AGAIN, THE  
5 PRODUCT OF A LOT OF THINKING AND CONTINUE TO HAVE  
6 MORE THINKING AS WE GO FORWARD AND LOOK FORWARD TO  
7 INPUT FROM THE BOARD WHEN WE GET TO THAT, SHOULD  
8 THIS BE APPROVED TODAY, TO PASS ALONG TO FURTHER  
9 REFINE, BUT WE THINK WHAT WE HAVE HERE IS AN IDEA  
10 THAT WILL CREATE SOMETHING THAT'S TRULY INNOVATIVE  
11 AND TRULY, AS DR. STEWARD SUGGESTS, WILL HELP DRAW  
12 OUR PROJECTS ALONG TOWARDS COMMERCIALIZATION. SO  
13 THANK YOU.

14 CHAIRMAN SHEEHY: SO I HAVE ONE MORE  
15 QUESTION. SO WHEN DO WE ANTICIPATE THE SCIENCE AND  
16 THE INDUSTRY SUBCOMMITTEE ACTUALLY MEETING TO  
17 DISCUSS AND APPROVE THE AWARD TERMS?

18 MS. BONNEVILLE: WE HAD DISCUSSED JANUARY  
19 IF EVERYTHING WAS AVAILABLE BY THEN.

20 CHAIRMAN SHEEHY: SO I KNOW THAT THERE'S A  
21 MEETING OF THE APPLICANT REVIEW SUBCOMMITTEE IN  
22 JANUARY. WOULD THAT BE POSSIBLE TO STRETCH TO A  
23 FULL BOARD MEETING IF THE TIMELINES -- THE TIMELINES  
24 MAY BE TOO AGGRESSIVE, BUT JUST FOR ME PERSONALLY, I  
25 THINK THE FINANCIAL PIECE OF THIS MIGHT BE

BARRISTERS' REPORTING SERVICE

1 SOMETHING, IF POSSIBLE, THAT WOULD BE BETTER  
2 RECEIVING THE APPROVAL OF THE FULL BOARD. THE  
3 DISCUSSION AND KIND OF WORKING THE KINKS OUT, I  
4 THINK, SHOULD HAPPEN AT THE SCIENCE AND INDUSTRY  
5 SUBCOMMITTEE, BUT TO FULLY VET AND DISCUSS THIS  
6 PIECE OF IT, FOR ME PERSONALLY I THINK THERE WOULD  
7 BE VALUE HAVING SIGN-OFF OF THE BOARD AS A WHOLE, IF  
8 THAT WAS POSSIBLE.

9 AGAIN, I THINK LIKE MAYBE THE 18TH OR THE  
10 17TH IS WHEN THE APPLICATION REVIEW SUBCOMMITTEE  
11 WOULD MEET, AND I KNOW THAT THAT'S INCREDIBLY  
12 AGGRESSIVE.

13 MS. BONNEVILLE: I THINK IF THE DOCUMENTS  
14 ARE READY AND IF WE'VE RECEIVED THE FEEDBACK WE  
15 NEED, WE CAN WORK TO MAKE THAT HAPPEN. I JUST DON'T  
16 KNOW WHAT THAT TIMING IS, SO I WOULD LEAVE IT UP TO  
17 MARIA.

18 CHAIRMAN SHEEHY: MAYBE YOU GUYS CAN LOOK  
19 AT THAT. THAT'S A PREFERENCE. IT'S NOT SOMETHING  
20 THAT I WOULD THROW MY BODY IN FRONT OF THE BUS  
21 ABOUT, BUT I JUST THINK FOR GOOD GOVERNANCE, GIVEN  
22 THAT THE TIMES MAY SYNCHRONIZE WITH AN EXISTING  
23 MEETING WE'RE EXPECTING MUCH OF THE BOARD TO BE AT,  
24 TO GET THAT FINAL APPROVAL FROM THE BOARD AS A WHOLE  
25 I WOULD FEEL THAT THAT WOULD BE A BETTER PROCESS.

BARRISTERS' REPORTING SERVICE

1 THE OTHER QUESTION I HAVE IS I THINK MAYBE  
2 OUR LEGAL TEAM CAN LOOK AT THE CONFLICTS OF INTEREST  
3 ISSUES. I THINK THOSE ARE GOING TO BE KIND OF  
4 COMPLICATED BOTH AT THE GRANTS WORKING GROUP AND AT  
5 THE BOARD BECAUSE WE MAY HAVE HOW THAT IS IMPACTED  
6 BY THE POTENTIAL INCLUSION OF PROJECTS FROM AN  
7 INSTITUTION WHO HAS AN AFFILIATION WITH BOARD  
8 MEMBERS, HOW THAT IMPACTS THAT ONCE WE GET INTO THE  
9 APPROVAL PROCESS. WE SHOULD HAVE THAT THOUGHT  
10 THROUGH FAIRLY CAREFULLY IN ADVANCE.

11 OTHERWISE, THOSE ARE THE EXTENT OF MY  
12 QUESTIONS. AND IF NO ONE ELSE HAS ANY OTHER  
13 QUESTIONS OR COMMENTS, I'LL -- WHY DON'T WE PERHAPS  
14 GET A MOTION AT THIS POINT, AND I CAN READ THE  
15 MOTION AND SOMEONE CAN MAKE IT AND SECOND IT.

16 THE SCIENCE SUBCOMMITTEE RECOMMENDS THE  
17 BOARD APPROVAL OF THE CONCEPT PLAN FOR APT3 WITH A  
18 BUDGET AUTHORIZATION UP TO 75 MILLION TO FUND ONE OR  
19 MORE AWARDS OVER FIVE YEARS AND DELEGATION OF  
20 AUTHORITY TO THE SCIENCE AND INTELLECTUAL PROPERTY  
21 AND INDUSTRY SUBCOMMITTEES TO APPROVE THE AWARD  
22 TERMS AT A JOINT MEETING. SO WE HAVE A MAKER?

23 DR. HIGGINS: SO MOVED.

24 CHAIRMAN SHEEHY: DAVID IS THE MAKER.  
25 SECOND?



BARRISTERS' REPORTING SERVICE

1 CHAIRMAN THOMAS: SECOND.  
2 CHAIRMAN SHEEHY: SECOND FROM CHAIRMAN  
3 THOMAS. PUBLIC COMMENT? NO PUBLIC COMMENT. DO WE  
4 NEED TO DO A ROLL CALL? YES.  
5 MS. BONNEVILLE: MICHAEL FRIEDMAN. DAVID  
6 HIGGINS.  
7 DR. HIGGINS: YES.  
8 MS. BONNEVILLE: BERT LUBIN. SHLOMO  
9 MELMED.  
10 DR. MELMED: YES.  
11 MS. BONNEVILLE: JEFF SHEEHY.  
12 CHAIRMAN SHEEHY: YES.  
13 MS. BONNEVILLE: OS STEWARD.  
14 DR. STEWARD: YES.  
15 CHAIRMAN SHEEHY: ART TORRES.  
16 MR. TORRES: AYE.  
17 MS. BONNEVILLE: JONATHAN THOMAS.  
18 CHAIRMAN THOMAS: YES.  
19 MS. BONNEVILLE: KRISTINA VUORI.  
20 CHAIRMAN SHEEHY: MOTION PASSES.  
21 SO NOW I THINK WE'LL GO TO THE TRANSLATION  
22 CENTER. SINCE WE HAVE A QUORUM, WE'LL DO THE MOTION  
23 FOR THE TRANSLATION CENTER. AND THE MOTION IS --  
24 WE'LL DO THE ACCELERATING CENTER SINCE THAT ONE'S  
25 UP. THE SCIENCE SUBCOMMITTEE RECOMMENDS BOARD

BARRISTERS' REPORTING SERVICE

1 APPROVAL OF THE CONCEPT PLAN FOR THE CIRM  
2 ACCELERATING CENTER WITH A BUDGET AUTHORIZATION OF  
3 UP TO 15 MILLION TO FUND A SINGLE AWARD OVER FIVE  
4 YEARS. DO I HAVE A MAKER OF THE MOTION?

5 DR. HIGGINS: SO MOVED.

6 DR. MELMED: SECOND.

7 CHAIRMAN SHEEHY: I THINK WE'LL COUNT THAT  
8 AS DAVID HIGGINS FOR THE MOTION AND DR. MELMED FOR A  
9 SECOND. PUBLIC COMMENT? THEN I THINK WE'LL CALL  
10 THE ROLL.

11 MS. BONNEVILLE: MICHAEL FRIEDMAN. DAVID  
12 HIGGINS.

13 DR. HIGGINS: YES.

14 MS. BONNEVILLE: BERT LUBIN. SHLOMO  
15 MELMED.

16 DR. MELMED: YES.

17 MS. BONNEVILLE: JEFF SHEEHY.

18 CHAIRMAN SHEEHY: YES.

19 MS. BONNEVILLE: OS STEWARD.

20 DR. STEWARD: YES.

21 CHAIRMAN SHEEHY: ART TORRES.

22 MR. TORRES: AYE.

23 MS. BONNEVILLE: JONATHAN THOMAS.

24 CHAIRMAN THOMAS: YES.

25 MS. BONNEVILLE: KRISTINA VUORI.

BARRISTERS' REPORTING SERVICE

1 CHAIRMAN SHEEHY: MOTION CARRIES. THANK  
2 YOU.

3 THE THIRD MOTION IS THE SCIENCE COMMITTEE  
4 RECOMMENDS APPROVAL OF THE CONCEPT PLAN FOR THE CIRM  
5 TRANSLATING CENTER WITH BUDGET AUTHORIZATION OF UP  
6 TO 15 MILLION TO FUND A SINGLE AWARD OVER FIVE  
7 YEARS. DO I HAVE A MAKER OF THE MOTION?

8 DR. HIGGINS: SO MOVED.

9 CHAIRMAN SHEEHY: SECOND?

10 DR. STEWARD: SECOND.

11 CHAIRMAN SHEEHY: DR. STEWARD IS THE  
12 SECOND. DO WE HAVE ANY PUBLIC COMMENT? NO PUBLIC  
13 COMMENT. CALL THE ROLL PLEASE.

14 MS. BONNEVILLE: MICHAEL FRIEDMAN. DAVID  
15 HIGGINS.

16 DR. HIGGINS: YES.

17 MS. BONNEVILLE: BERT LUBIN. SHLOMO  
18 MELMED.

19 DR. MELMED: YES.

20 MS. BONNEVILLE: JEFF SHEEHY.

21 CHAIRMAN SHEEHY: YES.

22 MS. BONNEVILLE: OS STEWARD.

23 DR. STEWARD: YES.

24 CHAIRMAN SHEEHY: ART TORRES.

25 MR. TORRES: AYE.

BARRISTERS' REPORTING SERVICE

1 MS. BONNEVILLE: JONATHAN THOMAS.

2 CHAIRMAN THOMAS: YES.

3 MS. BONNEVILLE: KRISTINA VUORI.

4 CHAIRMAN SHEEHY: THE MOTION PASSES.

5 THANK YOU.

6 ONE LAST MOTION ON AT LEAST THE FIRST PART  
7 OF THIS MEETING. WE STILL HAVE TWO OTHER ITEMS,  
8 I'LL REMIND PEOPLE. THIS IS A MOTION FOR APPROVAL  
9 OF THE STRATEGIC PLAN AS PRESENTED TODAY AND  
10 CONTAINED IN THE DOCUMENT THAT IS ONLINE AND  
11 AVAILABLE TO US.

12 MR. TORRES: SO MOVED.

13 CHAIRMAN SHEEHY: MOVED BY SENATOR TORRES.  
14 SECOND?

15 DR. HIGGINS: ENTHUSIASTIC SECOND.

16 CHAIRMAN SHEEHY: DAVID HIGGINS IS THE  
17 SECOND. PUBLIC COMMENT?

18 MR. TORRES: YES. I WOULD LIKE TO  
19 PROFOUNDLY THANK DR. MILLS, DR. MILAN, AND THE  
20 INCREDIBLE STAFF THAT WE'RE PRIVILEGED TO WORK WITH  
21 HERE AT CIRM. I AM SO PROUD OF HAVING WORKED HERE  
22 AND EVEN MORE SO AFTER REVIEWING THESE DOCUMENTS IN  
23 BETWEEN TURKEY LEFTOVERS TO SEE THE HARD WORK THAT  
24 WENT INTO ALL OF THESE PRESENTATIONS THAT WE  
25 RECEIVED TODAY. AND I JUST THINK THAT THE

BARRISTERS' REPORTING SERVICE

1 CALIFORNIA PUBLIC WOULD BE VERY PROUD OF HOW THEIR  
2 TAXPAYER MONEY IS BEING UTILIZED.

3 CHAIRMAN SHEEHY: HERE. HERE.

4 (APPLAUSE.)

5 DR. MILLS: I JUST WANT TO SAY THANK YOU,  
6 SENATOR TORRES. I THINK THE SECOND PART OF YOUR  
7 COMMENT IS SO TRUE. THE WORK THAT THE CIRM TEAM,  
8 THIS TEAM AND THE TEAM BACK AT OAKLAND NOW, PUTS  
9 INTO THE JOB THAT THEY DO AND THE SERIOUSNESS AT  
10 WHICH THEY HANDLE IT AND THE DEDICATION WHICH THEY  
11 HAVE TOWARDS IT, IT'S RIVALED BY NO ONE. FOR ME,  
12 WHAT A WONDERFUL OPPORTUNITY IT IS TO GET TO WORK  
13 WITH THAT GROUP OF PROFESSIONALS. I JUST THANK YOU  
14 FOR RECOGNIZING THAT THEY ARE SPECIAL.

15 CHAIRMAN SHEEHY: ANY OTHER COMMENT,  
16 PUBLIC OR FROM MEMBERS OF THE BOARD? SEEING NONE,  
17 MS. BONNEVILLE, IF WE CALL THE ROLL.

18 MS. BONNEVILLE: MICHAEL FRIEDMAN. DAVID  
19 HIGGINS.

20 DR. HIGGINS: YES.

21 MS. BONNEVILLE: BERT LUBIN. SHLOMO  
22 MELMED.

23 DR. MELMED: YES.

24 MS. BONNEVILLE: JEFF SHEEHY.

25 CHAIRMAN SHEEHY: YES.

BARRISTERS' REPORTING SERVICE

1 MS. BONNEVILLE: OS STEWARD.

2 DR. STEWARD: YES.

3 CHAIRMAN SHEEHY: ART TORRES.

4 MR. TORRES: AYE.

5 MS. BONNEVILLE: JONATHAN THOMAS.

6 CHAIRMAN THOMAS: YES.

7 MS. BONNEVILLE: KRISTINA VUORI.

8 CHAIRMAN SHEEHY: THE MOTION PASSES.

9 THANK YOU.

10 SO THE NEXT ITEM WE HAVE IS CONSIDERATION  
11 OF CHANGES TO THE GRANTS WORKING GROUP BYLAWS, AND  
12 MR. HARRISON WILL TAKE US THROUGH THAT.

13 MR. HARRISON: WE'RE STILL HERE. WE'RE  
14 HAVING SOME TECHNICAL DIFFICULTIES, DR. MELMED.  
15 IT'S JAMES HARRISON. AND I'D LIKE TO PRESENT TO YOU  
16 TODAY SOME PROPOSED AMENDMENTS TO THE GRANTS WORKING  
17 GROUP BYLAWS.

18 AS YOU KNOW, WE HAVE PROMISED TO ALWAYS  
19 LOOK FOR OPPORTUNITIES TO REFINE AND IMPROVE OUR  
20 POLICIES AND PROCEDURES. AND IN REVIEWING THE  
21 GRANTS WORKING GROUP BYLAWS, WE'VE IDENTIFIED THREE  
22 SIGNIFICANT CHANGES THAT WE WOULD LIKE TO MAKE BOTH  
23 TO IMPROVE AND STRENGTHEN OUR PEER REVIEW AS WELL AS  
24 TO RECONCILE THE BYLAWS WITH THE RECENTLY APPROVED  
25 CONCEPT PROPOSALS FOR OUR TRANSLATION AND DISCOVERY

BARRISTERS' REPORTING SERVICE

1 PROGRAMS AS WELL AS THE OTHER CIRM 2.0 PROGRAMS THAT  
2 YOU CONSIDERED TODAY.

3 THE FIRST ITEM IN THE BYLAWS WE'D LIKE TO  
4 BRING YOUR ATTENTION TO IS A PROVISION PROBABLY NEAR  
5 AND DEAR TO SENATOR TORRES' HEART, TERM LIMITS.  
6 PROP 71 IMPOSED TERM LIMITS ON MEMBERS OF THE GRANTS  
7 WORKING GROUP OF TWO CONSECUTIVE TERMS, BUT IT DID  
8 NOT DEFINE WHAT AN APPROPRIATE GAP WAS IN BETWEEN  
9 TERMS IN ORDER FOR A MEMBER TO BE ELIGIBLE TO BE  
10 REAPPOINTED.

11 IT FURTHER CONFUSED MATTERS BECAUSE THE  
12 SCIENTIFIC MEMBERS OF THE GRANTS WORKING GROUP,  
13 AFTER THE INITIAL TERMS, ARE APPOINTED TO STAGGERED  
14 TERMS OF TWO, FOUR, OR SIX YEARS. SO WE DON'T HAVE  
15 UNIFORM TERMS.

16 WHAT WE PROPOSE TO DO IS TO DEFINE AN  
17 APPROPRIATE GAP IN BETWEEN A MEMBER WHO HAS SERVED  
18 TWO CONSECUTIVE TERMS AND AN OPPORTUNITY TO BE  
19 REAPPOINTED AS TWO YEARS. IN OTHER WORDS, IF TWO  
20 YEARS HAS PASSED SINCE A MEMBER'S TERM HAS EXPIRED,  
21 THE MEMBER WOULD BE ELIGIBLE TO BE REAPPOINTED TO A  
22 NEW TERM OR THIRD TERM.

23 THAT'S THE FIRST PROPOSAL.

24 THE SECOND PROPOSAL RELATES TO OUR REVIEW  
25 OF NONCLINICAL PROGRAM APPLICATIONS. AS YOU ARE ALL

BARRISTERS' REPORTING SERVICE

1 NOW FAMILIAR WITH, UNDER OUR CLINICAL PROGRAMS, THE  
2 MEMBERS OF THE GRANTS WORKING GROUP ASSIGN A SCORE  
3 OF ONE, TWO, OR THREE. ONE INDICATING THAT THE  
4 APPLICATION IS OF EXCEPTIONAL MERIT AND SHOULD BE  
5 FUNDED. TWO MEANING THAT THERE IS SOME MERIT TO THE  
6 APPLICATION, BUT THAT IT COULD BE IMPROVED AND  
7 RESUBMITTED. AND THREE, RECOGNIZING THAT AN  
8 APPLICATION IS SUFFICIENTLY FLAWED THAT IT SHOULD  
9 NOT BE FUNDED AND SHOULD NOT BE RESUBMITTED IN THE  
10 SAME FORM.

11 FOR PURPOSES OF OUR OTHER 2.0 PROGRAMS,  
12 WE'VE CONCLUDED THAT THAT IS NOT THE APPROPRIATE  
13 SCORING MECHANISM AND INSTEAD PROPOSE TO REVERT TO  
14 OUR OLDER SYSTEM OF SCORING 1 THROUGH 100 IN LIGHT  
15 OF BOTH THE VOLUME OF APPLICATIONS WE ANTICIPATE  
16 RECEIVING AS WELL AS THE LESS FREQUENT REVIEW CYCLE.  
17 WITH CLINICAL PROGRAMS, IT'S A MONTHLY BASIS. WITH  
18 DISCOVERY AND TRANSLATION PROGRAMS, BY CONTRAST, IT  
19 WILL BE EVERY SIX MONTHS.

20 SO WHAT WE PROPOSE TO DO IS TO HAVE SCORES  
21 OF 1 OR 2. A SCORE OF 1 WOULD BE AN AVERAGE SCORE  
22 OF 85 OR ABOVE, SO THAT APPLICATION WOULD BE  
23 ASSIGNED TO TIER I, WHICH WOULD MEAN IT'S  
24 RECOMMENDED FOR FUNDING. IF AN APPLICATION RECEIVES  
25 AN AVERAGE SCORE OF 84 OR BELOW, IT WOULD BE



BARRISTERS' REPORTING SERVICE

1 ASSIGNED TO TIER II, AND TIER II WOULD INDICATE THAT  
2 IT'S NOT RECOMMENDED FOR FUNDING AT THIS TIME.

3 WITH RESPECT TO APPLICATIONS WHERE WE  
4 INTEND TO AWARD ONLY ONE AWARD, WE PROPOSE TO  
5 RECOGNIZE THAT THE APPLICATION THAT RECEIVES THE  
6 HIGHEST AVERAGE SCIENTIFIC SCORE WOULD BE DEEMED TO  
7 BE THE APPLICATION THAT GWG RECOMMENDS FOR FUNDING.

8 THE LAST PROPOSED CHANGE WE WOULD LIKE TO  
9 MAKE RELATES TO THE FINAL MOTION THE GWG CONSIDERS  
10 AT THE END OF EACH REVIEW. CURRENTLY, AFTER THE GWG  
11 HAS COMPLETED ITS REVIEW OF EACH APPLICATION, THE  
12 ENTIRE MEMBERSHIP OF THE GWG, INCLUDING THE PATIENT  
13 ADVOCATE MEMBERS, CONSIDER A MOTION TO FORWARD THE  
14 SLATE OF RECOMMENDATIONS ON TO THE APPLICATION  
15 REVIEW SUBCOMMITTEE. EFFECTIVELY THIS MOTION  
16 CONFIRMS THAT THOSE SCORES REFLECT THE  
17 RECOMMENDATIONS OR RATHER ARE AN ACCURATE REFLECTION  
18 OF THE RECOMMENDATIONS MADE BY THE GWG DURING THE  
19 REVIEW.

20 WE PROPOSE TO MODIFY THAT SLIGHTLY IN TWO  
21 WAYS. ONE, WE WOULD ASK THE ENTIRE GWG TO CONSIDER  
22 WHETHER THERE WAS SUFFICIENT TIME FOR ALL VIEWPOINTS  
23 TO BE HEARD DURING THE REVIEW AND ALSO THAT THE  
24 REVIEW WAS SCIENTIFICALLY RIGOROUS. WE WOULD THEN  
25 REQUEST THAT A SECOND COMPONENT BE ADDED TO THE

BARRISTERS' REPORTING SERVICE

1 MOTION TO BE VOTED ON BY THE PATIENT ADVOCATES, AND  
2 THAT WOULD BE TO CONSIDER WHETHER THE REVIEW WAS  
3 CONDUCTED IN A FAIR MANNER AND WAS FREE OF UNDUE  
4 BIAS.

5 AND THE REASON FOR THIS LAST PART IS THAT  
6 THE PATIENT ADVOCATE MEMBERS OF THE GWG REALLY SERVE  
7 AS A BRIDGE BETWEEN THE GWG AND THE BOARD. AS A  
8 MATTER OF PRACTICE, WE FREQUENTLY HEAR PATIENT  
9 ADVOCATE MEMBERS OF THE GWG CONVEY TO THEIR  
10 COLLEAGUES ON THE APPLICATION REVIEW SUBCOMMITTEE  
11 HOW RIGOROUS AND FAIR THE REVIEW WAS. SO WE WANTED  
12 TO FORMALIZE THAT PRACTICE AND ACTUALLY CONVEY IN A  
13 MOTION THAT THE PATIENT ADVOCATE MEMBERS WHO ARE  
14 PARTICIPATING IN THE REVIEW BELIEVED THAT IT WAS  
15 FAIR AND FREE FROM UNDUE BIAS. SO WE WOULD PROPOSE  
16 TO ADD THAT TO THE FINAL MOTION FOR CONSIDERATION BY  
17 THE GWG.

18 THOSE WERE THE THREE SIGNIFICANT CHANGES  
19 WE WANTED TO PRESENT TO YOU TODAY. I'D BE HAPPY TO  
20 ANSWER ANY QUESTIONS YOU MIGHT HAVE.

21 CHAIRMAN SHEEHY: ANY QUESTIONS?

22 DR. STEWARD: YEAH. THE TERM LIMIT. SO  
23 I'M ASKING THIS BECAUSE, AS WE ALL KNOW, GETTING  
24 QUALIFIED REVIEWERS IS CHALLENGING. AND REALLY  
25 THERE IS A TRAINING CURVE HERE. IT TAKES A LONG

BARRISTERS' REPORTING SERVICE

1 TIME TO UNDERSTAND CIRM AND WHAT WE'RE TRYING TO DO  
2 HERE. THIS IS GOING TO SOUND A LITTLE STRANGE BY  
3 COMPARISON TO WHAT I WOULD SAY MAYBE ABOUT THE STATE  
4 LEGISLATURE. SORRY, ART. I DON'T MIND HAVING  
5 PEOPLE TURN OVER ON THE STATE LEGISLATURE, BUT  
6 SOMEHOW LOSING THAT TALENT FOR A TWO-YEAR PERIOD, IT  
7 SEEMS A PITY. ONE QUESTION IS WHY TWO YEARS?  
8 WHAT'S THE LOGIC BEHIND THAT?

9 AND THE SECOND QUESTION IS COULD THESE  
10 PEOPLE CONTINUE TO SERVE AS SPECIALISTS WHEN NEEDED?

11 MR. HARRISON: LET ME TAKE YOUR FIRST  
12 QUESTION. PROP 71 BY STATUTE IMPOSES A LIMIT OF TWO  
13 CONSECUTIVE TERMS FOR THE SCIENTIFIC MEMBERS OF THE  
14 GRANTS WORKING GROUP. WE HAVE CONSTRUED THAT, AS  
15 THE ADMINISTRATIVE AGENCY CHARGED WITH ENFORCING THE  
16 LAW, TO IMPOSE THE SMALLEST CONCEIVABLE GAP BECAUSE  
17 THE SHORTEST TERM TO WHICH A MEMBER WOULD BE  
18 ELIGIBLE IS TWO YEARS. SO WE'VE CONSTRUED IT TO  
19 REQUIRE ONLY A TWO-YEAR GAP IN BETWEEN THE END OF  
20 THE MEMBER'S SECOND CONSECUTIVE TERM AND THE  
21 BEGINNING OF A NEW TERM OR ELIGIBILITY FOR  
22 APPOINTMENT TO A NEW TERM.

23 THE OTHER ALTERNATIVES WERE FOUR OR SIX  
24 YEARS, AND WE THOUGHT THAT TWO WAS THE APPROPRIATE  
25 ONE SINCE, FRANKLY, IT WAS THE SHORTEST AND WE

BARRISTERS' REPORTING SERVICE

1 RECOGNIZE THE NEED TO RETAIN THAT EXPERTISE.

2 SECONDLY, IN RESPONSE TO YOUR QUESTION, WE  
3 COULD HAVE MEMBERS WHO HAVE SERVED TWO CONSECUTIVE  
4 TERMS AND ARE NOT ELIGIBLE BECAUSE OF THAT TWO-YEAR  
5 TIME PERIOD FOR REAPPOINTMENT, SERVE AS EXPERTS.  
6 THEY WOULD OBVIOUSLY NOT BE ELIGIBLE TO SUBMIT A  
7 FORMAL SCORE OR VOTE, BUT THEY COULD PROVIDE EXPERT  
8 CONSULTATION.

9 DR. STEWARD: THANK YOU.

10 CHAIRMAN SHEEHY: OTHER QUESTIONS? ON THE  
11 PHONE?

12 DR. HIGGINS: NOT FROM ME. THIS IS GOOD.

13 CHAIRMAN SHEEHY: SO COULD WE GET A MOTION  
14 TO ADOPT?

15 MR. TORRES: SO MOVED.

16 CHAIRMAN SHEEHY: MOVED BY SENATOR TORRES.  
17 SECOND?

18 DR. HIGGINS: I SECOND.

19 CHAIRMAN SHEEHY: SECOND BY DAVID HIGGINS.  
20 PUBLIC COMMENT? NO PUBLIC COMMENT. THEN COULD WE  
21 CALL THE ROLL PLEASE.

22 MS. BONNEVILLE: MICHAEL FRIEDMAN. DAVID  
23 HIGGINS.

24 DR. HIGGINS: YES.

25 MS. BONNEVILLE: BERT LUBIN. SHLOMO

BARRISTERS' REPORTING SERVICE

1 MELMED.

2 DR. MELMED: YES.

3 MS. BONNEVILLE: JEFF SHEEHY.

4 CHAIRMAN SHEEHY: YES.

5 MS. BONNEVILLE: OS STEWARD.

6 DR. STEWARD: YES.

7 CHAIRMAN SHEEHY: ART TORRES.

8 MR. TORRES: AYE.

9 MS. BONNEVILLE: JONATHAN THOMAS.

10 CHAIRMAN THOMAS: YES.

11 MS. BONNEVILLE: KRISTINA VUORI.

12 CHAIRMAN SHEEHY: THE MOTION CARRIES.

13 COULD WE GO TO THE NEXT ITEM ON THE

14 AGENDA, AND I THINK THIS IS THE FINAL ITEM,

15 CONSIDERATION OF INCLUSION IN CURRENT AND FUTURE

16 CIRM GRANT PROPOSALS PAST PERFORMANCE OF CIRM

17 GRANTEE AND REVIEW CRITERIA AND ACCURACY AND

18 COMPLETENESS OF APPLICATION AND ELIGIBILITY

19 CRITERIA. DR. SAMBRANO WILL TAKE US THROUGH THIS.

20 DR. SAMBRANO: THIS IS GIL SAMBRANO. GOOD

21 AFTERNOON, EVERYONE. SO WE'RE BRINGING FOR YOUR

22 CONSIDERATION A COUPLE OF PROPOSED UPDATES TO THE

23 CIRM 2.0 CONCEPT PLANS. AND THESE UPDATES ARE

24 GLOBAL IN NATURE, MEANING THEY WOULD APPLY TO THE

25 CLINICAL, TRANSLATIONAL, AND DISCOVERY PROGRAMS THAT

BARRISTERS' REPORTING SERVICE

1 HAVE BEEN LAUNCHED, AS WELL AS THOSE THAT ARE STILL  
2 TO BE LAUNCHED. AND SO I'LL GO OVER EACH ONE OF  
3 THOSE.

4 THE FIRST ONE IS TO INCLUDE PAST  
5 PERFORMANCE AS A CIRM AWARDEE IN THE REVIEW  
6 CRITERIA. SO IN THE PAST WE HAVE HAD GRANTS WORKING  
7 GROUP MEMBERS, AS AN EXAMPLE, ASK US FOR RELEVANT  
8 PROGRESS AND ASSESSMENT OF THAT PROGRESS FOR AN  
9 APPLICANT THAT HAS COME TO US FOR A CONTINUATION OF  
10 THEIR PROJECT OR ON A RELATED PROJECT. AND WE WANT  
11 TO BE ABLE TO PROVIDE A UNIFORM WAY IN WHICH WE CAN  
12 PROVIDE THAT FEEDBACK TO THE WORKING GROUP FOR THEIR  
13 ASSESSMENT. AND SO THERE IS LANGUAGE IN THE MEMO  
14 THAT WE PROVIDE IN WHICH WE INDICATE THAT THE GRANTS  
15 WORKING GROUP MAY CONSIDER AN APPLICANT'S PAST  
16 PERFORMANCE IN CONNECTION WITH THE RELATED CIRM  
17 AWARD AS PART OF ITS REVIEW.

18 SO THIS WOULD INCLUDE THREE TYPES OF  
19 RELATED CIRM AWARD, MEANING WE CAN DEFINE IT AS  
20 BEING AN AWARD FOR WHICH THE APPLICANT PI SERVED AS  
21 THE PI, CO-PI, OR CO-INVESTIGATOR OF THE PREVIOUS  
22 AWARD OR SUBSTANTIALLY PARTICIPATED IN THE CONDUCT  
23 OF THAT AWARD.

24 SECOND, THAT AN AWARD INVOLVING THE SAME  
25 RESEARCH PROJECT OR PRODUCT IS BEING PROPOSED; OR,

BARRISTERS' REPORTING SERVICE

1 THREE, FOR AN AWARD THAT INCLUDES OVERLAPPING TEAM  
2 MEMBERS. OF COURSE, THE GRANTS WORKING GROUP,  
3 DEPENDING ON THE EXTENT OF THE RELATIONSHIP, WOULD  
4 TAKE THAT INTO ACCOUNT IN THEIR ASSESSMENT.

5 THE SECOND ITEM IS INCLUDING ACCURACY AND  
6 COMPLETENESS OF THE APPLICATION IN THE ELIGIBILITY  
7 CRITERIA FOR AN APPLICATION COMING IN. IN GENERAL,  
8 APPLICANTS ARE REQUIRED TO CHECK A BOX AND AFFIRM TO  
9 THE ACCURACY AND COMPLETENESS OF THE INFORMATION  
10 THAT'S SUBMITTED IN THE APPLICATION. BUT IN ORDER  
11 TO ENSURE A MECHANISM OR THAT WE HAVE A MECHANISM IN  
12 PLACE TO ADDRESS CONCERNS REGARDING ACCURACY OR  
13 COMPLETENESS WHEN THEY COME UP, WE WANT TO PROPOSE  
14 THAT THESE BE INCLUDED AS PART OF THE ELIGIBILITY  
15 CRITERIA.

16 SO IF THERE IS ANY DOUBT ABOUT THE  
17 ACCURACY OR COMPLETENESS OF THE APPLICATION, AN  
18 APPLICANT WILL BE GIVEN THE OPPORTUNITY TO REMEDY  
19 THIS. AND IF THEY DO, THEN THEY CAN GO FORWARD ONTO  
20 REVIEW. IF THEY DON'T TO CIRM'S SATISFACTION, THEN  
21 WE WILL HALT THE REVIEW PROCESS AT THAT POINT FOR  
22 THAT APPLICATION, ALTHOUGH THE APPLICANT HAS THE  
23 OPPORTUNITY TO APPEAL THAT DECISION, AND THEN THE  
24 ELIGIBILITY DETERMINATION CAN THEN BE MADE BY THE  
25 GRANTS WORKING GROUP. AND THIS PROCESS MIRRORS WHAT

BARRISTERS' REPORTING SERVICE

1 WE'VE DONE FOR OTHER ELIGIBILITY CRITERIA IN OUR  
2 CLINICAL PROGRAMS. SO WE WANTED TO FOLLOW THAT SAME  
3 PATH.

4 AND SO OUR REQUEST TO YOU IS A  
5 RECOMMENDATION FOR APPROVAL OF THESE MODIFICATIONS  
6 FOR CONCEPT PLANS FOR CIRM 2.0 PROGRAMS.

7 CHAIRMAN SHEEHY: DR. STEWARD.

8 DR. STEWARD: SO, GIL, I UNDERSTAND THE  
9 RATIONALE FOR THE ACCURACY AND COMPLETENESS, BUT I'M  
10 JUST REACTING AND SORT OF THINKING OUT LOUD TO IT  
11 HERE. IT REALLY OFFERS APPLICANTS ALMOST AN  
12 OPPORTUNITY TO BE INACCURATE AND INCOMPLETE COMING  
13 IN KNOWING THAT THERE'RE GOING TO GET A SECOND SHOT  
14 AT IT. AT NIH, FOR EXAMPLE, YOU DON'T GET THAT  
15 OPPORTUNITY. IF YOUR GRANT PROPOSAL IS NOT IN LINE,  
16 NOT ACCURATE, NOT COMPLETE, YOU SUBMIT FOR THE NEXT  
17 ROUND, WHATEVER THAT IS. I SAY THOSE THINGS AND  
18 WOULD ASK YOU TO REACT TO IT.

19 DR. SAMBRANO: SO WE ASK AT THE TIME OF  
20 APPLICATION FOR APPLICANTS TO SIGN AWAY AND TELL US  
21 THAT EVERYTHING IS ACCURATE AND COMPLETE TO THE BEST  
22 OF THEIR KNOWLEDGE. SO THEY ARE ATTESTING TO THAT  
23 ALREADY. AND THIS ALLOWS US, IF WE NOTICE SOMETHING  
24 THAT SEEMS INCONSISTENT, TO BE ABLE TO ACT IN A  
25 UNIFORM, CONSISTENT WAY.



BARRISTERS' REPORTING SERVICE

1 SO IT GOES ONE STEP BEYOND THAT  
2 AFFIRMATION WHICH ALREADY EXISTS.

3 DR. MILLS: I THINK TOO, THOUGH, OS, IT'S  
4 A WAY OF BUILDING THE APPEAL. WHAT WE WANT TO DO IS  
5 WE WANT TO BE ABLE TO PROVIDE INFORMATION TO THE GWG  
6 THAT'S COMPLETELY RELEVANT TO THE DECISION THEY'RE  
7 MAKING WITHOUT CIRM SORT OF UNILATERALLY MAKING THE  
8 CONTENT OF THE INFORMATION AVAILABLE THAT COULD  
9 PREJUDICE OR BIAS. SO WE'RE TRYING TO WORK THIS  
10 REALLY FINE LINE OF SAYING YOU SHOULD KNOW THIS, BUT  
11 DOING IT FAIRLY AND CONSISTENTLY IN A WAY THAT'S  
12 APPEALABLE.

13 I THINK WHAT WE'RE PROPOSING IS, UNLESS  
14 YOU JUST FLAT OUT WIN AND WE WERE WRONG, THE GWG IS  
15 GOING TO GET THE HISTORY OF YOU TRIED TO SUBMIT  
16 SOMETHING THAT WASN'T FAIR AND THIS WAS YOUR  
17 RESPONSE TO THAT. AND I THINK THAT KNOWN UP FRONT  
18 THAT WE ARE DISCLOSING TO THE GWG BASICALLY  
19 EVERYTHING WE KNOW ABOUT YOUR PERFORMANCE AND IF YOU  
20 DON'T COME FORWARD AND FAIRLY DESCRIBE THAT, WE'RE  
21 GOING TO SHOW THE GWG THAT TOO IS A PRETTY STRONG I  
22 WOULDN'T WANT TO HAVE AN APPLICATION WITH I LEFT ALL  
23 OF THIS STUFF OUT, BUT HERE'S MY EXPLANATION  
24 ATTACHED TO IT. THAT'S KIND OF OUR THOUGHT ON IT.  
25 I KNOW WHAT YOU'RE SAYING.

BARRISTERS' REPORTING SERVICE

1 DR. STEWARD: SO LET ME JUST UNPACK ONE  
2 EXAMPLE OF WHERE IT MIGHT COME UP. THERE'S A  
3 DEADLINE, RIGHT, AND THERE'S INFORMATION THAT IS  
4 SUBMITTED WITH THE GRANT AS BACKUP INFORMATION. AND  
5 I GUESS WHAT I'M CONCERNED ABOUT IS THAT EFFECTIVELY  
6 WHAT YOU'RE DOING IS EXTENDING THE DEADLINE, RIGHT?  
7 AND YOU WOULD LIKE EVERYTHING TO BE THERE IN PLACE  
8 AT THE TIME THE APPLICATION WAS SUBMITTED. AND IF  
9 EVERYBODY HAS THAT SAME OPPORTUNITY TO KIND OF  
10 SUBMIT ADDITIONAL INFORMATION, I GUESS MAYBE THAT  
11 WOULD BE OKAY. BUT IF SOMEHOW IT WORKS OUT THAT THE  
12 PEOPLE WHO WERE THE LEAST COMPLETE ARE THE ONES WHO  
13 ACTUALLY GET THE ADDITIONAL TIME, THEN THAT JUST  
14 ADDS UNEVENNESS TO THE PLAYING FIELD THAT I'M A  
15 LITTLE CONCERNED ABOUT.

16 LET ME JUST UNPACK ONE PROPOSITION IN THAT  
17 REGARD, AND THAT WOULD BE THE OPPORTUNITY TO SUBMIT  
18 SOME TYPE OF ADDITIONAL OR SUPPLEMENTARY INFORMATION  
19 FOR THE GRANT IF IT MET SPECIFIC GUIDELINES. I  
20 THINK YOU GUYS CAN UNPACK WHAT THOSE GUIDELINES ARE  
21 BETTER THAN I CAN ON THE FLY HERE. THAT, AGAIN,  
22 USED TO BE THE WAY IT WAS WITH NIH. YOU COULD SEND  
23 IN SUPPLEMENTAL MATERIAL. IT ISN'T THAT WAY  
24 ANYMORE. BUT GIVEN THAT WE DO HAVE LIMITED  
25 SUBMISSIONS, IT MIGHT BE MORE FAIR TO MAKE THIS

BARRISTERS' REPORTING SERVICE

1 AVAILABLE TO ALL GRANTEES.

2 DR. MILLS: NOT TALKING ABOUT, HEY, WE  
3 JUST CAME UP WITH SOME NEW DATA. WE WANT TO GET IT  
4 IN. WE'RE TALKING ABOUT INFORMATION ASYMMETRY,  
5 REALLY, RIGHT? CIRM AND THE APPLICANT KNOW THAT  
6 THERE'S DATA THAT THE REST OF THE WORLD DOESN'T  
7 KNOW. AND THE APPLICANT IS SELECTIVELY NOT  
8 DISCLOSING THAT DATA BECAUSE IT'S NOT FAVORABLE TO  
9 THEIR APPLICATION. THAT'S WHAT DRAWS THIS FLAG  
10 HERE, THIS FOUL, WHICH IS A CONCERNING THING RIGHT  
11 NOW. RIGHT NOW WE DON'T HAVE A MECHANISM. SO WE'RE  
12 HOPING THAT BY MAKING IT REALLY CLEAR THAT IF WE SEE  
13 AN INFORMATION ASYMMETRY THAT YOU'VE CREATED, WE'RE  
14 GOING TO CORRECT IT. WE HOPE THAT JUST KNOWING  
15 WE'RE GOING TO DO THAT IS PLENTY OF DETERRENT. DOES  
16 THAT HELP?

17 DR. STEWARD: UNDERSTOOD. AND I GUESS  
18 THEN I WOULD ASK WHAT WOULD HAPPEN IF CIRM DIDN'T  
19 IDENTIFY SOMETHING AS BEING INCOMPLETE AND THE  
20 APPLICANT CAME IN WITH AGAIN, SORT OF LET'S CALL IT,  
21 SUPPLEMENTAL MATERIAL AFTER A DEADLINE. WOULD YOU  
22 ALLOW THAT OR NOT? HOW WOULD THAT WORK?

23 DR. SAMBRANO: SO DEPENDING ON THE  
24 PROGRAM, WE ALLOW SUPPLEMENTARY MATERIALS TO COME  
25 IN. SO THAT'S ALREADY PART IN A SEPARATE ELEMENT

BARRISTERS' REPORTING SERVICE

1 FROM THIS. SO THIS IS REALLY TO CORRECT A PROBLEM  
2 THAT WE SEE. SO WE GO THROUGH THE INITIAL WEEK OF  
3 ASSESSING ARE THESE APPLICANTS ELIGIBLE OR NOT. AND  
4 IF, DUE TO INCOMPLETENESS, WE DETERMINE SOMEBODY IS  
5 INELIGIBLE, WE DO WANT TO GIVE THEM THE OPPORTUNITY  
6 TO REMEDY THAT RATHER THAN WAIT PERHAPS SIX MONTHS  
7 TO THE NEXT OPPORTUNITY.

8 DR. STEWARD: OKAY. THANK YOU.

9 CHAIRMAN SHEEHY: DO WE HAVE COMMENTS OR  
10 QUESTIONS FROM THE BOARD MEMBERS ON THE PHONE?

11 DR. HIGGINS: NOT ME.

12 DR. MELMED: NO.

13 CHAIRMAN SHEEHY: I ACTUALLY HAD ONE  
14 QUESTION ABOUT CONSIDERATION OF PAST PERFORMANCE,  
15 AND MAYBE IT'S JUST A CLARIFICATION. SO IF WE HAVE  
16 A PRODUCT THAT WE'VE REVIEWED AND WE'VE FUNDED  
17 BEFORE, WHAT TYPES OF INFORMATION MIGHT BE MADE  
18 AVAILABLE IF THERE'S QUESTIONS, FOR INSTANCE, OR  
19 PERHAPS MISCONCEPTIONS OR A LACK OF DEPTH OF  
20 UNDERSTANDING ABOUT A PRODUCT THAT WE'RE CURRENTLY  
21 DEVELOPING AND THAT COMES OUT IN A REVIEW, DOES THIS  
22 ADDRESS THAT? DOES THAT PROVIDE A MECHANISM FOR  
23 ADDRESSING THAT?

24 DR. SAMBRANO: EASIER QUESTION THAT THE  
25 GRANTS WORKING GROUP HAS A MISCONCEPTION FOR WHAT

BARRISTERS' REPORTING SERVICE

1 THE PRODUCT IS THAT'S BEING PROPOSED?

2 CHAIRMAN SHEEHY: ACTUALLY SOME OF ITS  
3 PERFORMANCE FEATURES IN, FOR INSTANCE, HUMANS.

4 DR. SAMBRANO: SURE. SO WHAT WE WANT TO  
5 PROVIDE IS, FOR EXAMPLE, THE LATEST PROGRESS REPORT  
6 THAT MAY BE AVAILABLE, BUT ALSO A SUMMARY OF THE  
7 PROJECT AS IT CURRENTLY STANDS. SO IT IS WHAT THE  
8 MILESTONES THAT WERE PROPOSED AND AGREED TO AND WHAT  
9 THE STATUS OF ACHIEVING THOSE MILESTONES ARE AT THE  
10 CURRENT TIME. SO THAT'S AN EXAMPLE OF WHAT WE WOULD  
11 PROVIDE TO THE WORKING GROUP IN THE SAME WAY, THE  
12 SAME FASHION FOR ANY APPLICANT THAT COMES IN THAT  
13 MEETS THESE CRITERIA.

14 CHAIRMAN SHEEHY: IS THERE ANY WAY TO  
15 INTRODUCE INFORMATION ABOUT THE PRODUCT'S  
16 PERFORMANCE -- IF THE GRANTS WORKING GROUP, IF A  
17 MEMBER OF THE GRANTS WORKING GROUP IN EVALUATING A  
18 PRODUCT COULD MAKE ASSUMPTIONS OR LACK INFORMATION  
19 ABOUT THE PRODUCT, THAT THE APPLICANT MAY ASSUME  
20 THAT CIRM IS ALREADY WELL INFORMED ON CERTAIN  
21 CHARACTERISTICS OF THE PRODUCT, HAVING BEEN  
22 DEVELOPING THE PRODUCT IN ITS PIPELINE, THEN YOU  
23 HAVE THIS ASYMMETRY OF INFORMATION. AND THAT  
24 ASYMMETRY OF INFORMATION THEN SKEWS THE REVIEW AND  
25 MAKES IT A LESS VALID AND VALUABLE REVIEW.

BARRISTERS' REPORTING SERVICE

1 DR. SAMBRANO: SO WE WANT TO PROVIDE  
2 INFORMATION THAT INCLUDES CIRM'S TEAM ASSESSMENT OF  
3 THE PROGRESS. SO IF IT INCLUDES THEIR PROGRESS  
4 ALONG ACHIEVING A SUCCESSFUL PRODUCT, THEN THAT  
5 WOULD BE INCLUDED WITHIN THE MATERIALS. SO IT'S  
6 TRYING TO PROVIDE SOMETHING -- I THINK YOUR QUESTION  
7 IS IF THE APPLICATION PURPORTS INFORMATION THAT  
8 DIFFERS FROM CIRM'S ASSESSMENT, WOULD THAT COME TO  
9 LIGHT BY PROVIDING INFORMATION IN CIRM'S ASSESSMENT.

10 CHAIRMAN SHEEHY: I THINK YOU'RE CASTING  
11 THE NET A LITTLE NARROWLY. WHAT I'M THINKING ABOUT  
12 IS PRODUCTS BEING DEVELOPED, THERE'S INFORMATION  
13 ABOUT CHARACTERISTICS OF THE PRODUCT; I.E., HOW IT  
14 BEHAVES IN HUMAN TRIALS. ANOTHER REVIEWER LOOKING  
15 AT THAT PRODUCT IN A DIFFERENT SETTING, BUT THE SAME  
16 PRODUCT, MAY MAKE ASSUMPTIONS ABOUT PERFORMANCE IN  
17 HUMANS, BUT THEY HAVEN'T SEEN WHAT WE KNOW ABOUT  
18 PERFORMANCE IN HUMANS OF THIS PRODUCT. SO THEY MAY  
19 MAKE STATEMENTS ABOUT PERFORMANCE OF THIS PRODUCT IN  
20 HUMANS THAT ACTUALLY ARE NOT SYMMETRICAL TO OUR OWN  
21 EXPERIENCE WITH THE DEVELOPMENT OF THIS PRODUCT.

22 SO THAT'S MY ARGUMENT. MY ARGUMENT WOULD  
23 BE FOR THE FULLEST USE OF INFORMATION THAT WE HAVE  
24 WITHIN THE CIRM KNOWLEDGE BASE IN ORDER TO GET THE  
25 BEST OUTCOMES WHEN WE GO THROUGH THE PROCESS OF

BARRISTERS' REPORTING SERVICE

1 REVIEW.

2 DR. MILLS: SO YOU'RE SAYING A REVIEWER  
3 HAS AN ASSUMPTION ABOUT THE PRODUCT BASED ON THE  
4 LAST PUBLIC STATEMENT MADE BY THE APPLICANT, BUT  
5 CIRM KNOWS SINCE THAT TIME THERE'S -- I'M GOING TO  
6 USE A SPECIFIC EXAMPLE -- THERE'S 20 MORE PATIENTS  
7 THAT HAVE BEEN TREATED SINCE THE FIRST FIVE, AND  
8 THAT DATA FROM THOSE 20 IS DIFFERENT THAN THE DATA  
9 PUT OUT FROM THE FIRST FIVE?

10 CHAIRMAN SHEEHY: MORE IN LIGHT IS THAT  
11 THERE MIGHT BE KEY PERFORMANCE BARRIERS THAT WERE  
12 ADDRESSED IN PRIOR EXPERIENCE WITH THE PRODUCT  
13 POTENTIALLY OVERCOME, BUT STILL A FEATURE THAT  
14 ANYONE WOULD NATURALLY ASK ABOUT A PRODUCT. IF THEY  
15 DON'T HAVE INFORMATION ABOUT HOW THAT PRODUCT  
16 ACTUALLY INTERACTED IN A HUMAN BEING, AND THE  
17 GRANTEE WOULD ASSUME WE ALREADY KNEW THAT, THEY MAY  
18 BE LIGHT ON PROVIDING THAT INFORMATION OR INCOMPLETE  
19 IN PROVIDING THAT INFORMATION KNOWING THAT CIRM  
20 ALREADY KNOWS THAT CERTAIN PERFORMANCE FEATURES OF  
21 THIS PRODUCT HAVE BEEN ACHIEVED.

22 SO YOU COULD END UP IN A SCENARIO WHERE A  
23 REVIEWER ASSUMES THAT THIS QUESTION IS STILL  
24 UNANSWERED AND/OR QUESTIONS, YET WE KNOW WE HAVE AN  
25 ANSWER FOR THAT QUESTION. EITHER POSITIVE OR

BARRISTERS' REPORTING SERVICE

1 NEGATIVE WE MAY ALREADY KNOW THAT, AND THE GRANTEE  
2 IS ASSUMING THAT WE KNOW THAT AND IS NOT REALLY  
3 SPENDING A LOT OF TIME IN THE DISCUSSION OF THE  
4 APPLICATION. AND I FEEL LIKE THAT THERE SHOULD BE  
5 FULL ACCESS TO INFORMATION ABOUT A PRODUCT THAT  
6 WE'VE BEEN DEVELOPING, BOTH GOOD AND BAD, MADE  
7 AVAILABLE TO THE WORKING GROUP, IF NOT IN ADVANCE,  
8 AT LEAST SOMETHING WE CAN QUERY IN THE CONTEXT OF A  
9 REVIEW.

10 DR. SAMBRANO: OUR GOAL IS TO PROVIDE AS  
11 MUCH CLARITY AS WE CAN IN THE REVIEW PROCESS. SO IF  
12 THERE IS AN OUTSTANDING QUESTION THAT COMES UP AND  
13 WE ALREADY HAVE THIS IN PLACE, REVIEWERS ARE FREE TO  
14 ASK US QUESTIONS AND FOR THE APPLICANT TO PROVIDE A  
15 RESPONSE. FOR EXAMPLE, IF THEY FEEL SOMETHING IS  
16 NOT ADDRESSED COMPLETELY OR CONSISTENTLY ENOUGH,  
17 THEY CAN DO THAT. IF THERE IS AN ELEMENT THAT WE  
18 THINK IS RELEVANT TO THE PREVIOUS EXPERIENCE WITH  
19 THE PROPOSED PRODUCT THAT WE KNOW ABOUT, THERE'S AN  
20 OPPORTUNITY TO INCLUDE IT IN THE MATERIALS THAT WE  
21 PROVIDE TO THEM.

22 SO WE WANT TO PROVIDE WHATEVER INFORMATION  
23 MAKES IT CLEAR, BUT WE ALSO WANT TO GIVE THE  
24 APPLICANT AN OPPORTUNITY IF IT'S A QUESTION THAT'S  
25 TO THEM AS PART OF A DIFFERENT PROCESS THAT WE HAVE



BARRISTERS' REPORTING SERVICE

1 ALREADY IN PLACE. THIS ONE IS FOCUSED SIMPLY ON  
2 MAKING SURE THAT WE PROVIDE CONSISTENT INFORMATION  
3 FROM PREVIOUS PROJECTS THAT WE HAVE AND WE PROVIDE  
4 THAT INFORMATION IN A UNIFORM WAY.

5 DR. MILLS: I WANT JAMES TO THINK ABOUT  
6 WHETHER HE WANTS TO CHIME IN HERE TOO BECAUSE ONE OF  
7 THE THINGS WE'RE DOING AT CIRM IS CHANGING TO BE A  
8 MORE PROACTIVE AGENCY. AND SO IN DOING THAT, THE  
9 MORE PROACTIVE WE BECOME, WE WANT TO MAKE SURE WE  
10 GET THE BEST THINGS IN AND WE'RE GOING TO MAKE SURE  
11 EVERYONE KNOWS ABOUT CIRM. IN MY MIND THE MORE  
12 STRINGENT WE NEED TO BE THAT THE REVIEW IS DONE IN  
13 THE MOST OBJECTIVE, UNBIASED FASHION POSSIBLE. AND  
14 SO THE MORE PROACTIVE WE BECOME ON THE THERAPEUTIC  
15 SIDE, THE MORE WALLED OFF REVIEW HAS TO BE.

16 SO THE THING WE'RE TRYING TO BALANCE WITH  
17 HERE'S ALL OF THIS INFORMATION IS WE'RE FINE GIVING  
18 ALL OF THE INFORMATION TO THE GWG THAT'S USEFUL AND  
19 OBJECTIVE, BUT WE GET REALLY CONCERNED WHEN IT GETS  
20 INTO SUBJECTIVITY WHERE CIRM IS SAYING WE THINK THIS  
21 IS GOOD OR WE THINK THIS IS BAD AND WE'VE TAKEN  
22 FACTUAL DATA AND WE'VE PUT AN ASSESSMENT ON IT AND  
23 NOW WE'RE GIVING THAT TO REVIEWERS. THAT'S JUST A  
24 CONCERN THAT WE'RE TRYING TO BALANCE AGAINST HERE,  
25 THAT WE DON'T MIX OUR SUBJECTIVE PUSHING AND GETTING

BARRISTERS' REPORTING SERVICE

1 THE BEST PROGRAMS INTO REVIEW WHICH WE WANT TO KEEP  
2 OBJECTIVE.

3 CHAIRMAN SHEEHY: I GUESS I'M JUST NOT  
4 QUITE COMFORTABLE WITH THIS CONSIDERATION OF PAST  
5 PERFORMANCE RIGHT BECAUSE RIGHT NOW IT FEELS LIKE  
6 SOMETHING THAT CARRIES A HIGH NEGATIVE BIAS AND WE  
7 EXPECT PEOPLE TO FAIL. WE'RE PUTTING IN PLACE  
8 PROCEDURES THAT WE WANT PEOPLE TO TAKE RISK, BUT WE  
9 KNOW THEY'RE GOING TO FAIL. I THINK INCLUDING PAST  
10 PERFORMANCE AND SHOWING A RECORD OF FAILURE, THOSE  
11 FAILURES MAY HAVE CREATED THE STAIRWAY TOWARDS  
12 SUCCESS. YOU LEARN WHEN YOU FAIL.

13 SO THE SUBJECTIVE PART COMES TO THE DEGREE  
14 TO WHICH THE PROGRESS REPORTS REFLECT THE  
15 RELATIONSHIP BETWEEN THE APPLICANT AND CIRM AND  
16 MANAGING THAT FAILURE. AND IF THEY COME BACK WITH  
17 ANOTHER PROJECT, LEARNING FROM THEIR FAILURE, HOW  
18 DOES THE GRANTS REVIEW GROUP ACTUALLY INTERPRET THE  
19 RECEIPT OF INFORMATION THAT FAILURE WAS ACHIEVED.  
20 I'M NOT COMPLETELY SURE THAT HEARING ABOUT FAILURE,  
21 IF IT'S NOT CONTEXTUALIZED WELL, CAN ACTUALLY CREATE  
22 A NEGATIVE BIAS TOWARDS THE PROJECT IN MY VIEW.

23 SO I WOULD NOT SUPPORT AT THIS TIME THE  
24 CONSIDERATION OF PAST PERFORMANCE OF A CIRM AWARDEE  
25 UNTIL WE GET A LITTLE MORE CLARITY AND MAYBE THINK

BARRISTERS' REPORTING SERVICE

1 ABOUT MORE EXAMPLES OF HOW THIS MIGHT WORK OUT  
2 PERSONALLY.

3 THE OTHER ONE I'M FINE WITH, BUT I'M NOT  
4 SUPPORTIVE OF THAT ONE AT THIS TIME.

5 DR. HIGGINS: CAN I PIGGY-BACK ONTO YOUR  
6 COMMENTS, JEFF?

7 CHAIRMAN SHEEHY: SURE.

8 DR. HIGGINS: I APPRECIATE EVERYTHING  
9 YOU'RE SAYING, BUT I DON'T THINK YOU ARE SAYING THAT  
10 THERE IS NO EXAMPLE, THERE ARE NO EXAMPLES OF PAST  
11 PERFORMANCE THAT SHOULDN'T BE TAKEN INTO  
12 CONSIDERATION FOR FUTURE FUNDING OR CURRENT FUNDING.  
13 I HEAR WHAT YOU'RE SAYING ABOUT BEING CAUTIOUS ABOUT  
14 OVERINTERPRETING AND THAT THERE'S VALUE IN HAVING  
15 FAILURES, BUT THERE ARE PROBABLY SOME FAILURES THAT  
16 SHOULD BE REFLECTED ON THE PERFORMANCE OF A GROUP  
17 THAT DO MATTER. I WOULD BE MAKING STUFF UP TO GIVE  
18 EXAMPLES.

19 SO I AGREE WITH YOU ON ONE HAND. ON THE  
20 OTHER HAND, YOU MIGHT NOT BE ABLE TO NEUTRALIZE  
21 EVERY FAILURE INTO A POSITIVE EXPERIENCE.

22 CHAIRMAN SHEEHY: I'M NOT SUGGESTING THAT.  
23 IN FACT, I WOULD PREFER MORE INFORMATION WAS  
24 AVAILABLE. I JUST AM NOT SURE WE REALLY CAPTURED  
25 WHAT WE WANT TO GET FROM PAST PROGRESS REPORTS IN

BARRISTERS' REPORTING SERVICE

1 ORDER TO IMPACT THE DISCUSSION AT THE GRANTS WORKING  
2 GROUP.

3 MR. HARRISON.

4 MR. HARRISON: JUST ONE CLARIFICATION.  
5 THE CONSIDERATION OF PAST PERFORMANCE WOULDN'T BE  
6 LIMITED TO FAILURES. IT COULD BE SUCCESSES IN  
7 ACHIEVING MILESTONES IN A TIMELY WAY. IT COULD BE  
8 POSITIVE RESULTS. IN OTHER WORDS, IT'S OBJECTIVE  
9 INFORMATION NOT LIMITED TO FAILURE. IT COULD BE  
10 POSITIVE OUTCOMES AS WELL.

11 OUR GOAL WAS TO TRY TO KEEP IT OBJECTIVE,  
12 AS RANDY SUGGESTED, TO AVOID CIRM BEING DRAWN INTO A  
13 SITUATION WHERE IT WAS OFFERING ITS OPINIONS TO THE  
14 GWG. WE WANTED TO GIVE THE GWG ALL OF THE RELEVANT  
15 INFORMATION AND LET THE GWG MAKE ITS OWN ASSESSMENT.

16 CHAIRMAN SHEEHY: THANK YOU. SO DO WE  
17 HAVE ANY OTHER COMMENTS?

18 DR. HIGGINS: ONE LAST COMMENT TO POINT  
19 OUT THE OBVIOUS. WE DO HAVE PRECEDENTS WHERE WE DO  
20 TAKE IN PAST PERFORMANCE AS A CRITERIA FOR GOING  
21 FORWARD IN THE SPARK AND BRIDGES APPLICATIONS, I  
22 BELIEVE.

23 CHAIRMAN SHEEHY: THANK YOU, DAVID.

24 SO DO WE HAVE -- DR. STEWARD.

25 DR. STEWARD: I'M JUST LOOKING BACK AT THE

BARRISTERS' REPORTING SERVICE

1 LANGUAGE HERE, AND MAYBE I'M MISINTERPRETING WHAT IT  
2 SAYS, JEFF. BUT IT SEEMS LIKE IT'S REALLY MOST  
3 RELATED TO PERFORMANCE AGAINST MILESTONES, DATA, AND  
4 OUTCOMES RATHER THAN NECESSARILY PRODUCT  
5 ADVANCEMENT. AM I MISREADING THAT? IS THAT WHAT  
6 YOU HAD IN MIND, THAT THEY DID THE WORK THEY  
7 PROPOSED TO DO AND DID IT AND THEY MET THEIR  
8 MILESTONES AND THEY DIDN'T AND THAT'S IT?

9 DR. SAMBRANO: IT'S MEANT TO PROVIDE A  
10 REFLECTION OF HOW THEY'VE DONE IN PAST AWARDS. SO  
11 IT'S NOT NECESSARILY FOCUSED ON THE PRODUCT. IT'S  
12 FOCUSED ON THE COURSE OF A PREVIOUS AWARD.

13 DR. STEWARD: RIGHT. IN THAT REGARD, I  
14 ACTUALLY DON'T HAVE PROBLEMS WITH THAT. IT'S JUST  
15 SAYING DID THE PEOPLE DO THE WORK THAT THEY PROPOSED  
16 TO DO AND DO IT IN THE TIME FRAME THAT THEY PROPOSED  
17 TO DO AND, IF NOT, WHY AND SORT OF IRRESPECTIVE OF  
18 THE IDEA OF WHAT'S HAPPENING WITH THE PRODUCT  
19 ITSELF. IT'S REALLY JUST A MATTER OF DID THEY DO  
20 THE GRANT IN THE WAY THEY WERE SUPPOSED TO. I'M  
21 ACTUALLY FINE WITH THAT.

22 CHAIRMAN SHEEHY: LIKE I SAID, I CANNOT AT  
23 THIS TIME SUPPORT THIS. I REALLY THINK THAT IT  
24 INTRODUCES A NEGATIVE BIAS TOWARDS PEOPLE WHO  
25 EXPERIENCE FAILURE. SO I THINK THAT THAT, THEN,

BARRISTERS' REPORTING SERVICE

1       COLORS WHATEVER THEY SUBMIT TO CIRM.  AND I WOULD  
2       HOPE THE FOLKS LEARN FROM THEIR FAILURE.  A FAILED  
3       EXPERIMENT, IN MANY WAYS, HAS SEVERAL FEATURES OF A  
4       SUCCESSFUL ONE.

5                 DR. STEWARD:  I TOTALLY AGREE.  
6       ABSOLUTELY.

7                 SO I GUESS MY QUESTION WOULD BE I THINK IT  
8       PROBABLY ISN'T MAYBE THE RIGHT THING TO TAKE IT TO  
9       THE BOARD AT THIS POINT IF YOU'RE REALLY  
10      UNCOMFORTABLE WITH IT.  SO I GUESS MY QUESTION WOULD  
11      BE HOW WOULD IT BE FIXED?  WHAT WOULD WE DO TO MAKE  
12      IT RIGHT?  BECAUSE I DO THINK THE CONCEPT OF  
13      EVALUATING PAST PERFORMANCE IS REALLY A GOOD ONE.  
14      THAT, I THINK, IS A VERY VALUABLE THING FOR  
15      REVIEWERS TO HAVE IN HAND, AND IT ISN'T ALWAYS THERE  
16      IN THE PROGRESS REPORTS ITSELF.  YOU REALLY WANT TO  
17      SEE SORT OF THE BROAD HISTORY OF PERFORMANCE OF THE  
18      GROUP OR GROUPS INVOLVED.

19                DR. SAMBRANO:  APPLICANTS ARE ASKED TO  
20      PROVIDE A HISTORY, AND OFTEN THEY DO, OF A PROJECT.  
21      SO WHAT YOU SEE IN AN APPLICATION IS OFTEN THEIR  
22      REITERATION OF WHAT THEY BELIEVE THE PROGRESS HAS  
23      BEEN.  SO WHAT WE'RE TRYING TO DO IS PROVIDE AN  
24      OBJECTIVE WAY OF PRESENTING IT.  SO IT MAY MIRROR  
25      EXACTLY WHAT THEY SAY, BUT IT ALSO PROVIDES IN AN

BARRISTERS' REPORTING SERVICE

1 OBJECTIVE WAY, IN A CONSISTENT MANNER ACROSS ALL  
2 APPLICATIONS.

3 DR. HIGGINS: NOT TO BEAT A DEAD HORSE,  
4 BUT, JEFF, TO FOLLOW UP AGAIN ON YOUR POINT, YOU  
5 MADE THE COMMENT SOMETHING TO THE EFFECT OF YOU CAN  
6 LEARN FROM YOUR MISTAKES, OR IF YOU HAVE A FAILED  
7 EXPERIMENT, YOU CAN LEARN FROM IT AND THAT'S  
8 VALUABLE INFORMATION. I THINK THAT'S DIFFERENT THAN  
9 NOT MEETING TIMELINE OR NOT DOING THE EXPERIMENT. I  
10 THINK NOT DOING THE EXPERIMENT IS DIFFERENT THAN  
11 DOING THE EXPERIMENT AND HAVING A NEGATIVE OUTCOME,  
12 WHICH I THINK IS EXTREMELY VALUABLE.

13 SO I DON'T WANT TO GET INTO SEMANTICS, BUT  
14 SORT OF FOOD FOR THOUGHT. I DON'T THINK WE SHOULD  
15 PENALIZE SOMEONE FOR DOING WHAT THEY SAID THEY WERE  
16 GOING TO DO AND GETTING A DIFFERENT RESULT VERSUS  
17 NOT DOING WHAT THEY SAID THEY WERE GOING TO DO.

18 CHAIRMAN SHEEHY: I WOULD JUST SAY FOR OUR  
19 STRUCTURE AN EXPERIMENT THAT FAILED BECOMES A MISSED  
20 MILESTONE. SO A MISSED MILESTONE -- SO I GUESS I  
21 DON'T SEE THAT AS A DELAY OR A FAILURE TO PERFORM.  
22 I SEE IT AS A FAILURE OF THE EXPERIMENT WHICH IS  
23 NATURAL AND INEVITABLE IN SCIENCE. I DON'T KNOW  
24 THAT -- MY PERSONAL OPINION WOULD BE TO TAKE THIS  
25 ITEM OUT OF THIS, APPROVE THE OTHER ITEM, AND THEN

BARRISTERS' REPORTING SERVICE

1 DO SOME MORE THINKING. THIS IS A SUBJECT ACTUALLY  
2 THAT I'VE BEEN THINKING ABOUT MORE BROADLY. AGAIN,  
3 I THINK THIS IS TOO NARROWLY TAILORED, AND I THINK  
4 IF WE GET ACCESS TO THE FULL RANGE OF INFORMATION  
5 THAT MIGHT HELP THE GRANTS WORKING GROUP MAKE THE  
6 BEST DECISION POSSIBLE, THEN I THINK WE WOULD  
7 HAVE -- THAT'S WHAT I WOULD LIKE TO SEE BE THE  
8 OUTCOME OF THIS.

9 I THINK THE WAY THIS IS WRITTEN, IT'S TOO  
10 NARROW. AND I DO THINK IN MY MIND IT CREATES A BIAS  
11 TOWARDS APPLICANTS WHO HAVE HAD SUCCESS AND CREATES  
12 A BIAS AGAINST APPLICANTS WHO HAVE NOT HAD SUCCESS,  
13 YET THEIR PRODUCTS MAY BE EQUALLY VALUABLE IN THE  
14 END, AND THEY'RE BOTH LEARNING NEW INFORMATION AS  
15 THEY MAKE THEIR WAY THROUGH THE PROCESS.

16 DR. HIGGINS: I AGREE WITH YOU, JEFF, TO  
17 THE EXTENT WE MAY BE TALKING SEMANTICS. I DON'T  
18 THINK WE'RE ACTUALLY SAYING DIFFERENT THINGS. I  
19 THINK WE'RE JUST SAYING THE SAME THING DIFFERENTLY,  
20 AND THAT COULD BE WORKED OUT.

21 CHAIRMAN SHEEHY: WITH RESPECT, I THINK WE  
22 ARE SAYING DIFFERENT THINGS, BUT IT'S A LARGER  
23 DISCUSSION.

24 SO ANYWAY, SO WHAT DO WE HAVE? DO WE HAVE  
25 EITHER A MOTION TO APPROVE THIS OR A MOTION TO



BARRISTERS' REPORTING SERVICE

1 APPROVE PART 2 AND DEAL WITH PART 1 AFTER LATER  
2 DISCUSSION? I WOULD TAKE EITHER MOTION FROM ANY  
3 MEMBER.

4 DR. HIGGINS: I WOULD SUPPORT A MOTION  
5 THAT PULLS THIS OUT OF THE CURRENT APPROVAL REQUEST  
6 AND FOR FURTHER DISCUSSION, HOWEVER YOU WANT TO WORD  
7 THAT PROPERLY, JAMES.

8 CHAIRMAN SHEEHY: AND THEN THIS MOTION  
9 WOULD APPROVE PART 2 OF THIS, WHICH I THINK THERE'S  
10 NO -- YES, DAVID?

11 DR. HIGGINS: CORRECT. RIGHT. THE PART  
12 NOT IN QUESTION HERE.

13 CHAIRMAN SHEEHY: COULD I GET A SECOND ON  
14 THAT?

15 MR. TORRES: AMENDMENT TO THE MOTION  
16 THAT'S BEFORE US. CAN WE SET A TIME CERTAIN TO  
17 RESOLVE THIS ISSUE BECAUSE I THINK THAT'S GOING TO  
18 BE EXTREMELY IMPORTANT AS WE MOVE FORWARD. SO CAN  
19 WE SAY THAT WE WILL RESOLVE THIS LANGUAGE BY OUR  
20 DECEMBER BOARD MEETING?

21 DR. STEWARD: I WAS GOING TO ASK THE  
22 QUESTION. WHAT WOULD IT IMPACT TO DELAY THIS? AND  
23 THAT'S SORT OF THE SAME QUESTION BECAUSE I AGREE --  
24 I ACTUALLY DO THINK THAT A RETROSPECTIVE ANALYSIS OF  
25 PERFORMANCE, NOT SUCCESS, BUT PERFORMANCE IS REALLY

BARRISTERS' REPORTING SERVICE

1 QUITE VALUABLE IN EVALUATING A GROUP'S ABILITY TO  
2 MOVE FORWARD. I'D LIKE TO SEE IT WORKED OUT QUICKLY  
3 AS WELL SO THAT IT DIDN'T -- SO THAT ITS ABSENCE  
4 DIDN'T IMPACT THE NEXT ROUND OF REVIEW IF WE COULD  
5 POSSIBLY DO THAT.

6 MR. TORRES: IT'S NOT PRECLUDED FROM  
7 MAKING AN AMENDMENT AT THE BOARD MEETING, CORRECT, A  
8 NEW MOTION?

9 MR. HARRISON: YES. IF FOLKS AT THAT THE  
10 SUBCOMMITTEE WERE COMFORTABLE GOING DIRECTLY TO THE  
11 BOARD, WE COULD CERTAINLY DO THAT.

12 MR. TORRES: SURE. IF THIS MOTION WERE TO  
13 COME OUT AS AMENDED AS PROPOSED BY -- IF THIS MOTION  
14 WERE TO COME OUT AS PROPOSED BY YOU, JEFF, THEN IT  
15 WOULD COME TO THE MAIN BOARD, AND THE BOARD COULD  
16 SEEK TO AMEND THAT MOTION TO ADD WHATEVER LANGUAGE  
17 HAD BEEN WORKED OUT.

18 MR. HARRISON: YES. YOU COULD TODAY  
19 APPROVE THE SECOND PART OF THE PROPOSAL, INCLUSION  
20 OF ACCURACY AND COMPLETENESS OF AN APPLICATION, AS  
21 AN ELIGIBILITY CRITERIA AND REQUEST FURTHER  
22 CONSIDERATION OF THE PROPOSAL TO INCLUDE PAST  
23 PERFORMANCE AS A REVIEW CRITERIA TO BE PRESENTED TO  
24 THE BOARD FOR ITS CONSIDERATION IN DECEMBER, IF THAT  
25 WAS YOUR DESIRE.

BARRISTERS' REPORTING SERVICE

1 CHAIRMAN SHEEHY: I MEAN IT'S WHATEVER THE  
2 REST OF THE COMMITTEE WISHES TO DO. I CANNOT  
3 SUPPORT IT IN ITS PRESENT FORM.

4 MR. TORRES: I'M NOT SUGGESTING THAT YOU  
5 DO. I'M SUGGESTING THAT WE MOVE AHEAD WITH THE  
6 PROPOSED AMENDED MOTION, WHICH I HAVE PROVIDED, BUT  
7 ALSO TO AMEND TO HAVE A TIME CERTAIN, AND WE COULD  
8 BRING IT UP AGAIN AT OUR BOARD MEETING IN DECEMBER.  
9 IF YOU DON'T HAVE THE LANGUAGE WORKED OUT BY THEN,  
10 AT LEAST UNTIL JANUARY.

11 CHAIRMAN SHEEHY: OKAY. THAT SEEMS  
12 REASONABLE. MOTION MAKERS ALL FINE WITH THAT?

13 DR. HIGGINS: THAT'S A FINE AMENDMENT FOR  
14 ME.

15 CHAIRMAN SHEEHY: GREAT SUGGESTION,  
16 SENATOR TORRES. OKAY. SO WE HAVE A MOTION; WE HAVE  
17 A SECOND. PUBLIC COMMENT? CAN WE CALL THE ROLL  
18 PLEASE?

19 MS. BONNEVILLE: MICHAEL FRIEDMAN. DAVID  
20 HIGGINS.

21 DR. HIGGINS: YES.

22 MS. BONNEVILLE: BERT LUBIN. SHLOMO  
23 MELMED.

24 DR. MELMED: YES.

25 MS. BONNEVILLE: JEFF SHEEHY.

BARRISTERS' REPORTING SERVICE

CHAIRMAN SHEEHY: YES.

MS. BONNEVILLE: OS STEWARD.

DR. STEWARD: YES.

CHAIRMAN SHEEHY: ART TORRES.

MR. TORRES: AYE.

MS. BONNEVILLE: JONATHAN THOMAS.

CHAIRMAN THOMAS: YES.

MS. BONNEVILLE: KRISTINA VUORI.

CHAIRMAN SHEEHY: MOTION CARRIES. AND I  
THINK THAT FULFILLS OUR AGENDA TODAY. THANK,  
EVERYONE, FOR YOUR TIME. THIS HAS BEEN GREAT. AND  
THANK YOU TO THE CIRM TEAM FOR A TREMENDOUS,  
TREMENDOUS PRODUCT. THANK YOU.

DR. STEWARD: HERE. HERE.

CHAIRMAN SHEEHY: WE'RE NOW ADJOURNED.

(THE MEETING WAS THEN CONCLUDED AT  
3:39 PM.)

BARRISTERS' REPORTING SERVICE

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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 PROCEEDINGS BEFORE THE SCIENCE SUBCOMMITTEE OF THE INDEPENDENT CITIZEN'S OVERSIGHT COMMITTEE OF THE CALIFORNIA INSTITUTE FOR REGENERATIVE MEDICINE IN THE MATTER OF ITS REGULAR MEETING HELD AT THE LOCATION INDICATED BELOW

OAKLAND MARRIOTT CITY CENTER  
1001 BROADWAY  
OAKLAND, CALIFORNIA  
ON  
NOVEMBER 30, 2015

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, CSR 7152  
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