BEFORE THE

INDEPENDENT CITIZENS' OVERSIGHT COMMITTEE AND THE APPLICATION REVIEW SUBCOMMITTEE TO THE

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

REGULAR MEETING

LOCATION: MARRIOTT LA JOLLA

4240 LA JOLLA VILLAGE DRIVE

LA JOLLA, CALIFORNIA

DATE: WEDNESDAY, SEPTEMBER 21, 2016

9 A.M.

REPORTER: BETH C. DRAIN, CSR

CSR. NO. 7152

BRS FILE NO.: 98937

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- 14. CONSIDERATION OF APPLICATIONS SUBMITTED 67 IN RESPONSE TO CLIN 1: PARTNERING OPPORTUNITY FOR LATE STAGE PRECLINICAL PROJECTS.
- 15. CONSIDERATION OF APPLICATIONS SUBMITTED IN RESPONSE TO THE INFR: TRANSLATING CENTER. ITEM POSTPONED
- 16. CONSIDERATION OF AMENDMENTS TO CIRM 115 TRAVEL POLICY.

CLOSED SESSION:

NONE

17. DISCUSSION OF CONFIDENTIAL INTELLECTUAL PROPERTY OR WORK PRODUCT, PREPUBLICATION DATA, FINANCIAL INFORMATION, CONFIDENTIAL SCIENTIFIC RESEARCH OR DATA, AND OTHER PROPRIETARY INFORMATION RELATING TO APPLICATIONS CLIN 1: PARTNERING OPPORTUNITY FOR LATE STAGE PRECLINICAL PROJECTS, AND INFR: TRANSLATING CENTER. (HEALTH & SAFETY CODE 125290.30(F)(3)(B) AND (C)).

DISCUSSION ITEMS:

- 18. DISCUSSION OF PROGRAMMATIC REVIEW OF 121 APPLICATIONS.
- 19. CLINICAL PROGRAM UPDATES. 126
- 20. PUBLIC COMMENT. NONE

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1	LA JOLLA, CALIFORNIA; WEDNESDAY, SEPTEMBER 21, 2016
2	9 A.M.
3	
4	CHAIRMAN THOMAS: SO THOSE WHO ARE STILL
5	STANDING, IF YOU COULD TAKE YOUR SEATS, WE'RE GOING
6	TO BEGIN. WE'LL MOMENTARILY HOLD TO CHECK THE FOLKS
7	ON THE PHONE ARE PLUGGED IN HERE.
8	I'D LIKE TO CALL THIS MEETING OF THE ICOC
9	TO ORDER. WELCOME FROM SAN DIEGO WHERE THERE'S
10	SOMETHING OUTSIDE, IF I DIDN'T KNOW ANY BETTER, I
11	THOUGHT MIGHT BE RAIN; BUT IT'S BEEN SO LONG THAT
12	WE'VE SEEN ANY, IT'S NOT CLEAR. WHATEVER. WE'RE
13	DELIGHTED TO HAVE EVERYBODY HERE AS ALWAYS.
14	IF YOU WOULD PROCEED HERE TO THE PLEDGE OF
15	ALLEGIANCE. MARIA.
16	(THE PLEDGE OF ALLEGIANCE.)
17	CHAIRMAN THOMAS: MARIA, WILL YOU PLEASE
18	CALL THE ROLL.
19	MS. BONNEVILLE: KEN BURTIS.
20	DR. BURTIS: PRESENT.
21	MS. BONNEVILLE: DEBORAH DEAS.
22	DR. DEAS: HERE.
23	MS. BONNEVILLE: JACK DIXON. ANNE-MARIE
24	DULIEGE.
25	DR. DULIEGE: HERE.
	4
	4

	-	
1		MS. BONNEVILLE: HOWARD FEDEROFF.
2	ELIZABETH	FINI.
3		DR. FINI: HERE.
4		MS. BONNEVILLE: MICHAEL FRIEDMAN. JUDY
5	GASSON.	
6		DR. GASSON: HERE.
7		MS. BONNEVILLE: DAVID HIGGINS.
8		DR. HIGGINS: HERE.
9		MS. BONNEVILLE: STEPHEN JUELSGAARD.
10		MR. JUELSGAARD: HERE.
11		MS. BONNEVILLE: SHERRY LANSING. KATHY
12	LAPORTE.	
13		DR. LAPORTE: HERE.
14		MS. BONNEVILLE: BERT LUBIN.
15		DR. LUBIN: HERE.
16		MS. BONNEVILLE: SHLOMO MELMED.
17		DR. MELMED: HERE.
18		MS. BONNEVILLE: LAUREN MILLER. LLOYD
19	MINER. A	DRIANA PADILLA.
20		DR. PADILLA: HERE.
21		MS. BONNEVILLE: JOE PANETTA. FRANCISCO
22	PRIETO. F	ROBERT QUINT.
23		DR. QUINT: HERE.
24		MS. BONNEVILLE: AL ROWLETT.
25		MR. ROWLETT: HERE.
		5
		J

160 S. OLD SPRINGS ROAD, SUITE 270, ANAHEIM, CALIFORNIA 92808 1-800-622-6092 1-714-444-4100 EMAIL: DEPO@DEPO1.COM

1	MS. BONNEVILLE: JEFF SHEEHY.
2	MR. SHEEHY: HERE.
3	MS. BONNEVILLE: OSWALD STEWARD. JONATHAN
4	THOMAS.
5	CHAIRMAN THOMAS: HERE.
6	MS. BONNEVILLE: ART TORRES.
7	MR. TORRES: HERE.
8	MS. BONNEVILLE: KRISTINA VUORI.
9	DR. VUORI: HERE.
10	MS. BONNEVILLE: DIANE WINOKUR.
11	MS. WINOKUR: HERE.
12	MS. BONNEVILLE: BRUCE WINTRAUB.
13	CHAIRMAN THOMAS: THANK YOU, MARIA. WE
14	WILL PROCEED ON TO THE CHAIR'S REPORT. THE FIRST
15	ITEM, I AM DELIGHTED TO INTRODUCE TO YOU OUR NEWEST
16	MEMBER OF THE ICOC, DEAN DEBORAH DEAS FROM UC
17	RIVERSIDE MED SCHOOL. DEBORAH, COULD YOU GIVE US A
18	BIT OF YOUR BACKGROUND, PLEASE.
19	DR. DEAS: GOOD MORNING. GOOD MORNING.
20	GREAT.
21	WELL, I'M DEBORAH DEAS, AND I'M FROM
22	CHARLESTON, SOUTH CAROLINA. CURRENTLY I AM THE DEAN
23	OF THE UNIVERSITY OF CALIFORNIA RIVERSIDE SCHOOL OF
24	MEDICINE AND CEO FOR CLINICAL AFFAIRS. PRIOR TO
25	COMING TO UC RIVERSIDE, I HELD A POSITION AS INTERIM
	6

1	DEAN OF THE MEDICAL UNIVERSITY OF SOUTH CAROLINA.
2	MY BACKGROUND: TRIPLE BOARDED, CHILD AND ADOLESCENT
3	PSYCHIATRIST AND ADULT PSYCHIATRY, AS WELL AS
4	ADDICTION PSYCHIATRY. OVER THE YEARS I'VE SERVED IN
5	THE UNIVERSITY IN MULTIPLE POSITIONS, INCLUDING MY
6	RESEARCH AND ADOLESCENT SUBSTANCE ABUSE, DEPRESSION
7	AND ANXIETY, AS WELL AS ADHD, AND OTHER ADDICTIVE
8	DISORDERS.
9	I'VE HELD POSITIONS WITHIN THE SCHOOL OF
10	MEDICINE DEAN'S OFFICE AS THE SENIOR ASSOCIATE DEAN
11	FOR MEDICAL EDUCATION WITH OVERSIGHT OF
12	UNDERGRADUATE MEDICAL EDUCATION, RESIDENCY TRAINING,
13	OUR GME, CME, ADMISSIONS, DIVERSITY, AS WELL AS
14	STUDENT AFFAIRS.
15	I'M REALLY PLEASED TO BE HERE. I'M
16	ENJOYING IT AT UC RIVERSIDE. I WENT TO RIVERSIDE
17	BECAUSE ITS MISSION, TO TRAIN A DIVERSE PHYSICIAN
18	WORKFORCE AND TO CREATE CLINICAL AND RESEARCH
19	PROGRAMS ALIKE FOR THE UNDERSERVED POPULATION,
20	REALLY ALIGNED WITH MY PASSION AND WITH MY VALUES.
21	I'M VERY HAPPY TO SERVE ON THIS BOARD. I
22	CERTAINLY CAN RELATE TO THE MISSION OF THE BOARD
23	BASED ON WORK THAT I'M INTERESTED IN AS WELL AS
24	INDIVIDUALS THAT I'M CLOSE TO WHO HAVE HAD DISEASES,
25	ILLNESSES THAT WILL BENEFIT FROM SOME OF THE WORK
	_

1	THAT THE BOARD IS PROMOTING. IT'S GREAT TO BE HERE.
2	I TOOK A MOMENT TO GO AROUND THE ROOM TO
3	INTRODUCE MYSELF TO THE BOARD MEMBERS, AND I LOOK
4	FORWARD TO GETTING TO KNOW ALL OF YOU A LOT BETTER.
5	LASTLY, I HAD MY ORIENTATION LAST NIGHT,
6	AND I THANK J.T. AND SCOTT, MARIA, ART, AMY, I DON'T
7	WANT TO MISS ANYONE, FOR SUCH AN EXCELLENT
8	ORIENTATION, AND HAD THE PLEASURE THIS MORNING OF
9	MEETING WITH RANDY. SO I REALLY THINK THAT I GOT
10	THE WRAPAROUND SERVICE. AND I WAS REALLY NICELY
11	GREETED BY ANNE-MARIE FROM A DISTANCE, AND I'M JUST
12	LOOKING FORWARD TO MEETING ALL OF YOU AND WORKING
13	CLOSELY WITH YOU. I HOPE I DIDN'T MISS ANYTHING,
14	J.T.
15	CHAIRMAN THOMAS: THAT WAS OUTSTANDING.
16	THANK YOU VERY MUCH, DEAN DEAS. AND ON BEHALF OF
17	THE BOARD WELCOME.
18	DR. DEAS: THANK YOU.
19	MS. BONNEVILLE: OS, HAVE YOU JOINED THE
20	CALL? YOU MIGHT BE ON MUTE. WE GOT AN E-MAIL FROM
21	YOU THAT YOU WERE ON THE CALL.
22	DR. STEWARD: YES, I AM ON THE CALL.
23	THANK YOU.
24	MS. BONNEVILLE: THANK YOU. HOW ABOUT
25	DR. DIXON? JACK, ARE YOU ON THE PHONE?
	8

1	DR. DIXON: YES. I'M HERE AS WELL IN
2	SUNNY SAN DIEGO AS ALLUDED TO EARLIER.
3	MS. BONNEVILLE: AND THAT'S IT. THANK
4	YOU.
5	CHAIRMAN THOMAS: SO ON TO THE CHAIR'S
6	REPORT. I THOUGHT I'D START WITH SOMETHING A LITTLE
7	FUN. EVERYBODY, OF COURSE, RECALLS THAT PROPOSITION
8	71 WAS A FUNCTION OF A BAN ON EMBRYONIC STEM CELL
9	RESEARCH FUNDING FOR NIH IMPOSED BY THEN PRESIDENT
10	BUSH. SO THE AGENCY HAS IN ITS ROOTS DEEP INTEREST
11	IN PRESIDENTIAL VIEWS ON STEM CELL RESEARCH. SO I
12	THOUGHT THAT IN THIS SORT OF MOST UNUSUAL OF
13	PRESIDENTIAL ELECTION CYCLES THAT THE BOARD MIGHT BE
14	INTERESTED TO HEAR THE POSITIONS ON STEM CELL
15	RESEARCH AS ARTICULATED BY THE FOUR CANDIDATES FOR
16	PRESIDENT AND THE TWO VICE PRESIDENTIAL CANDIDATES.
17	I THINK YOU'LL FIND THIS SORT OF INTERESTING AND
18	INSTRUCTIVE. I WILL OFFER THIS UP MERELY FACTUALLY
19	WITHOUT EDITORIAL COMMENT. EVERYBODY CAN SORT OF
20	CONCLUDE WHAT THEY WANT FROM WHAT I HAVE TO SAY
21	HERE.
22	WE'LL START WITH SECRETARY CLINTON, WHO IS
23	A LONGTIME PROPONENT OF SCIENCE FUNDING IN GENERAL
24	AS WELL AS STEM CELL RESEARCH IN PARTICULAR. AS A
25	CANDIDATE WAY BACK IN 2007, SHE MADE A POINT OF
	9

1	SAYING THAT SHE WOULD REVERSE PRESIDENT BUSH'S BAN
2	ON FEDERAL FUNDING SHOULD SHE BE ELECTED PRESIDENT.
3	SHE IS ON RECORD AS SAYING SHE WOULD INCREASE
4	FUNDING TO NIH AND NSF FOR MEDICAL RESEARCH IN
5	GENERAL AND WOULD PARTICULARLY EMPHASIZE LARGE
6	AMOUNTS OF FUNDING TO GO TOWARDS ALZHEIMER'S AND
7	AUTISM.
8	WITH RESPECT TO STEM CELLS, SHE'S A
9	STAUNCH ADVOCATE OF RESEARCH FUNDING FOR ALL KINDS
10	OF STEM CELL RESEARCH. INTERESTINGLY, THAT INCLUDES
11	SOMATIC CELL NUCLEAR TRANSFER OR CLONING FOR THE
12	PURPOSES OF DERIVING EMBRYONIC STEM CELLS. SHE'S
13	EXPLICITLY AGAINST, I MIGHT ADD, USING CLONING TO
14	HAVE HUMANS REPRODUCED. THIS IS STRICTLY A RESEARCH
15	MEASURE. BUT SHE IS SOMEBODY THAT, SHOULD SHE
16	ASCEND TO THE POSITION, WILL BE VERY MUCH OF A MIND
17	TO HEAVILY FUND STEM CELL RESEARCH TO THE EXTENT
18	THAT SHE CAN.
19	HER VICE PRESIDENTIAL NOMINEE, TIM KAINE,
20	INTERESTINGLY, IS NOT ENTIRELY ALIGNED WITH HER ON
21	THIS SUBJECT. HE IS A VERY LARGE PROPONENT OF ADULT
22	STEM CELL RESEARCH, BUT IS NOT SOMEBODY THAT
23	SUPPORTS USING TAXPAYER DOLLARS TO FUND EMBRYONIC
24	STEM CELL RESEARCH. AND I THINK IT WILL BE
25	INTERESTING TO SEE HOW, IF INDEED SECRETARY CLINTON

10

1	IS ELECTED, HOW THOSE TWO POSITIONS WILL MESH. I
2	SUSPECT THAT HER POSITION WILL TAKE PRECEDENCE. AND
3	SO, AGAIN, IF THE DEMOCRATS WERE TO WIN, I THINK WE
4	WOULD BE IN A POSITION OF HAVING SUPPORTERS FOR WHAT
5	WE DO IN THE WHITE HOUSE.
6	WITH RESPECT TO MR. TRUMP, HE'S NOT
7	PARTICULARLY ARTICULATED A STRONG SCIENCE POLICY
8	PLATFORM TO THIS POINT. AND SO YOU HAVE TO SORT OF
9	GO BACK A BIT TO FIND ANY REFERENCE TO STEM CELLS IN
10	WHAT HE'S SAID IN THE PAST. THERE WAS AN INTERVIEW
11	HE HAD IN 2011 WITH THE DES MOINES REGISTER WHERE HE
12	COMMENTED, IN RESPONSE TO A QUESTION ON THE SUBJECT,
13	THAT HE IS UNDECIDED ON THE CONTROVERSIAL SCIENCE
14	AND HE WANTS TO INVESTIGATE IT FURTHER BEFORE
15	FORMULATING AN OFFICIAL POSITION.
16	BEST I'VE BEEN ABLE TO TELL, HE HAS NOT
17	SAID MUCH MORE THAN THAT. ALTHOUGH IF HE DOES END
18	UP GETTING ELECTED AND TENDS TO ALIGN HIMSELF WITH
19	THE VIEWS ON THE SUBJECT OF THE OFFICIAL PLATFORM OF
20	THE REPUBLICAN PARTY AS ADOPTED AT THE REPUBLICAN
21	CONVENTION, ONE COULD FORESEE THAT HE WILL BE
22	OPPOSED TO, AT A MINIMUM, FUNDING FEDERAL FUNDING
23	FOR EMBRYONIC STEM CELL RESEARCH.
24	MIKE PENCE HAS HAD A NUMBER OF
25	CONTROVERSIAL COMMENTS IN THE AREA OF SCIENCE OVER
	11

1	TIME. INCLUDED IN THOSE ARE SMOKING DOESN'T KILL.
2	GLOBAL WARMING IS A MYTH. AND MOST APPLICABLE TO
3	US, EMBRYONIC STEM CELL RESEARCH IS OBSOLETE. HE
4	BELIEVES THAT ADULT STEM CELL RESEARCH WILL TAKE
5	CARE OF EVERYTHING AND THAT, INTERESTINGLY, HE
6	DOESN'T BASE HIS ARGUMENT ON SAYING THAT YOU CAN
7	ARRIVE AT A MUCH SIMILAR RESULT USING IPS
8	TECHNOLOGY. HE'S NOT ON RECORD, AS FAR AS I CAN
9	TELL, COMMENTING ONE WAY OR THE OTHER ON THAT, BUT
10	IS A STAUNCH OPPONENT OF FEDERAL FUNDING FOR
11	EMBRYONIC STEM CELL RESEARCH. AND HIS VIEWS, I
12	THINK, ARE THOSE THAT ARE REFLECTED IN THE
13	REPUBLICAN PLATFORM.
14	SO THOSE ARE THE VIEWS OF THE MAJOR
15	CANDIDATES. THERE HAVE BEEN SOME INTERESTING QUOTES
16	BY PEOPLE TRYING TO DISCERN EXACTLY WHERE THEY'RE
17	GOING TO COME OUT. ONE REPUBLICAN ADVISOR SAYS,
18	"TRUMP DOESN'T HAVE A PROMINENT POLICY, AND WE'RE
19	NOT SURE WHERE HE'S GOING TO END UP. CLINTON, ON
20	THE OTHER HAND, HAS A VAST BUREAUCRACY AND A
21	10-POINT PLAN FOR GOING OUT TO LUNCH." SO THEY
22	SHOULDN'T BE SURPRISED IF SHE HAS A VERY ARTICULATED
23	POSITION IN THIS AREA.
24	THE BROOKINGS INSTITUTE COMMENTED,
25	"CLINTON HAS DESCRIBED SCIENCE AND INNOVATION AS A

12

1	FOUNDATION FOR THE FUTURE." FOR TRUMP, SCIENCE
2	FUNDING SEEMS TO BE AN AFTERTHOUGHT. NOW, OBVIOUSLY
3	THINGS COULD CHANGE IN THE NEXT STRETCH HERE. SO
4	EVERYBODY SHOULD STAY TUNED.
5	WITH RESPECT TO THE THIRD AND FOURTH
6	CANDIDATES FOR PRESIDENT, GARY JOHNSON IS STAUNCHLY
7	OPPOSED TO FEDERAL FUNDING REALLY FOR ANY KIND OF
8	STEM CELL RESEARCH. HIS VIEW IS THAT IT SHOULD BE
9	ENTIRELY CONDUCTED BY THE PRIVATE SECTOR, ASSUMING
10	THAT THE PRIVATE ENTITY IN QUESTION DOES NOT HAVE
11	ANY FEDERAL FUNDING GOING INTO WHAT IT'S DOING.
12	JILL STEIN WOULD FEDERALLY FUND STEM CELL
13	RESEARCH REGARDLESS OF WHERE THE CELLS ARE SOURCED.
14	SO THAT GIVES YOU A FEEL FOR THE STATE OF
15	PLAY ON THE TOPIC. NOT GETTING A LOT OF ATTENTION,
16	AS SCIENCE ITSELF ISN'T, OTHER THAN DEBATES ON
17	GLOBAL WARMING AND A COUPLE OF OTHER THINGS.
18	SO THAT'S THAT.
19	SO OTHER ITEMS ON THE CHAIR'S REPORT HERE,
20	I AND RANDY AND NEIL LITTMAN SPENT A LOT OF TIME OUT
21	TALKING TO PEOPLE ABOUT ATP3, WHICH IS SOMETHING
22	THAT COMES UP IN ONE CONTEXT LATER ON THE AGENDA,
23	LOOKING TO GENERATE INTEREST OUT THERE FROM
24	POTENTIAL PROPOSERS. AND THAT HAS BEEN SORT OF AN
25	ONGOING EFFORT FOR A PERIOD OF MONTHS.
	10

1	IN ADDITION TO THAT, WE HAVE BRIEFED
2	OFFICIALS IN SACRAMENTO ON THE IDEA OF ATP3 AND ITS
3	DETAILS. MARIA AND I MET WITH THE DEPARTMENT OF
4	FINANCE AND THE GOVERNOR'S OFFICE TO BRIEF THEM. I
5	PERSONALLY BRIEFED THE STATE TREASURER. WE HAVE THE
6	STATE CONTROLLER COMING IN, COURTESY OF SENATOR
7	TORRES, SHORTLY. WE'LL BRIEF HER. AND THEN WE WILL
8	AS WELL BRIEF LIEUTENANT GOVERNOR NEWSOM ON THE
9	SUBJECT JUST TO LET THEM KNOW WHAT'S GOING ON.
10	OVER THE COURSE OF THE LAST FEW MONTHS,
11	WE'VE HAD OUR BRIDGES AND SPARKS PROGRAM. THESE ARE
12	VARIOUSLY OUR FUNDING FOR COLLEGE AND POST-DOC
13	STUDENTS WITH BRIDGES AND HIGH SCHOOL STUDENTS WITH
14	SPARKS. I THOUGHT SINCE THE SPARKS CONFERENCE WAS
15	THE MOST RECENT, I'D GIVE THE BOARD JUST A LITTLE
16	FLAVOR, ADDITIONAL FLAVOR FOR THAT.
17	I'VE ALWAYS VIEWED THIS AS ONE OF THE
18	COOLEST EVENTS WE HAVE BECAUSE YOU GET THESE KIDS
19	WHO ARE HIGH SCHOOL STUDENTS WHO DON'T KNOW ANYTHING
20	ABOUT THE FIELD WHO GO INTO OUR SUMMER INTERNSHIP
21	PROGRAM AND COME OUT OF IT HAVING PRODUCED POSTERS
22	ON THEIR RESEARCH. AND IF YOU LISTEN TO THEM
23	DESCRIBE THEM, IT IS TRULY UNBELIEVABLY IMPRESSIVE
24	THEIR GRASP OF THE SUBJECT MATTER IN A SHORT EIGHT
25	WEEKS. AND YOU WOULD BE VERY SURPRISED TO LEARN

1	THESE WERE PREVIOUSLY UNEXPERIENCED HIGH SCHOOL
2	KIDS. LET ME JUST GIVE YOU A BIT OF COMMENT ON THE
3	SPARK PROGRAM.
4	SPARK PROGRAM SUPPORTS THE TRAINING AND
5	EDUCATION OF CALIFORNIA HIGH SCHOOL STUDENTS IN
6	CUTTING EDGE STEM CELL RESEARCH AND TECHNOLOGY.
7	STUDENTS PARTAKE IN STEM CELL TRAINING AND
8	COURSEWORK COMBINED WITH AN EIGHT-WEEK RESEARCH
9	INTERNSHIP AT LEADING STEM CELL INSTITUTIONS IN
10	CALIFORNIA. SPARK FOCUSES ON GIVING INTERNSHIP
11	OPPORTUNITIES TO UNDERPRIVILEGED STUDENTS.
12	THIS WAS THE FIRST YEAR OF THE SPARK
13	PROGRAM IN ITS NEW CIRM 2.0 FORMAT. THE PREVIOUS
14	HIGH SCHOOL PROGRAM WAS CALLED CREATIVITY. YOU WILL
15	REMEMBER REFERENCE TO THAT IN PAST YEARS. THIS YEAR
16	WE FUNDED A TOTAL OF 55 SPARK STUDENTS FROM SEVEN
17	PROGRAMS: CITY OF HOPE, CALTECH, CEDARS-SINAI,
18	CHILDREN'S HOSPITAL OAKLAND RESEARCH INSTITUTE,
19	STANFORD, UC DAVIS, AND UC SAN FRANCISCO.
20	UNDER THE NEW SPARK PROGRAM, STUDENTS WERE
21	REQUIRED TO PARTICIPATE IN PATIENT ENGAGEMENT
22	ACTIVITIES THAT INCLUDED PARTICIPATING IN BLOOD
23	DONATION, BONE MARROW REGISTRY, AND MAKING CARE
24	PACKAGES FOR ALS PATIENTS. THEY ALSO WERE REQUIRED
25	TO DOCUMENT AND SHARE THEIR INTERNSHIP ACTIVITIES
	1 5

1	THROUGH SOCIAL MEDIA, INCLUDING POSTING PICTURES ON
2	INSTAGRAM AND BLOGGING.
3	THE SPARK CONFERENCE WAS HOSTED IN EARLY
4	AUGUST AT THE CLAIRMONT HOTEL IN BERKELEY. SPARK
5	STUDENTS PRESENTED THEIR RESEARCH THROUGH TALKS AND
6	POSTER SESSIONS. THE CONFERENCE ALSO FEATURED TALKS
7	BY SCIENTISTS, PATIENT ADVOCATES, AND SPARK ALUMNI
8	ON THE IMPORTANCE OF STEM CELL RESEARCH. THE DAY
9	WAS A CELEBRATION OF THEIR ACCOMPLISHMENTS AND A
10	HUGE SUCCESS. MANY OF THE SCIENTISTS AND CIRM
11	ATTENDEES COMMENTED ON HOW TALENTED AND SMART THESE
12	YOUNG KIDS ARE.
13	I WANT TO GIVE A SPECIAL SHOUT OUT HERE TO
14	KAREN RING, WHO WAS THE MEMBER OF THE CIRM TEAM WHO
15	OVERSAW THE EVENT. SHE DID A WONDERFUL JOB. AND I
16	ALWAYS, AS I DO EVERY YEAR, COME AWAY FROM THIS
17	THINKING THAT THE FUTURE OF THE WORKFORCE IN STEM
18	CELL RESEARCH IS IN GOOD HANDS AND THAT THESE KIDS
19	AND OTHERS LIKE THEM WHO HAVE PRECEDED THEM AND
20	THOSE OUT OF THE REMARKABLE BRIDGES PROGRAM WILL BE
21	THE BACKBONE FOR FUTURE WORK DONE IN THE FIELD IN
22	CALIFORNIA FOR MANY YEARS TO COME.
23	LASTLY, I WANTED TO REPORT TO YOU AS PART
24	OF THE EFFORT TO LOOK FOR POTENTIAL CLINICAL TRIAL
25	APPLICANTS THAT RANDY HAS PUT IN PLACE THROUGH MARIA
	16

1	MILLAN WHO'S DOING A WONDERFUL JOB SOURCING
2	POTENTIAL APPLICANTS. I HAPPENED TO HAVE A CALL
3	WITH THE HEAD OF THE AGENCY FOR SCIENCE TECHNOLOGY
4	AND RESEARCH IN THE GOVERNMENT OF SINGAPORE WHO IS
5	VERY INTERESTED IN WHAT WE'RE DOING. THEY HAVE A
6	MUCH SMALLER SCALE PROGRAM IN STEM CELL RESEARCH
7	OVER THERE THAT IS TARGETING AT THE MOMENT CANCER,
8	NEUROLOGICAL, DEGENERATIVE CONDITIONS, AND CARDIO.
9	AND I DESCRIBED TO THEM HOW WE ARE MOST
10	INTERESTED IN LOOKING FOR THE BEST-IN-CLASS PROJECTS
11	ALL OVER THE WORLD WHO CAN ESTABLISH A NEXUS WITH
12	CALIFORNIA, WHICH WOULD QUALIFY THEM TO POTENTIALLY
13	APPLY FOR CIRM FUNDING FOR THAT COMPONENT OF THEIR
14	PROJECT. THEY THOUGHT THIS WAS A VERY INTERESTING
15	CONCEPT. THEY, JUST LIKE EVERYBODY ELSE, VIEWS CIRM
16	AS THE SORT OF WONDERFUL ENTITY THAT IS PROVIDING
17	FUNDING FOR SO MANY DIFFERENT THINGS. AND THEY'RE
18	GOING, AS A RESULT OF THAT CALL, AND KEVIN MCCORMACK
19	WAS ON IT WITH ME, GOING TO GO BACK AND THINK AND
20	SEE IF THEY CAN WORK ON COORDINATING WITH POTENTIAL
21	AWARDEES OVER HERE IN CALIFORNIA. THEY ALREADY HAVE
22	OUTSTANDING RELATIONSHIPS WITH, AS I RECALL, UCSF
23	AND UCSD.
24	SO THAT CONCLUDES THE CHAIR'S REPORT.
25	WE'RE ON TO THE PRESIDENT'S REPORT. DR. MILLS.
	17

1	DR. LUBIN: I JUST WANTED TO COMMENT ON
2	THE SPARKS PROGRAM BECAUSE IT WAS JUST SUCH A
3	WONDERFUL OPPORTUNITY FOR THE STUDENTS WE HAD THIS
4	SUMMER. BUT WE DID SOMETHING THAT WE'VE NEVER DONE
5	BEFORE THAT'S GOING TO CONTINUE THAT ESTABLISHED A
6	RELATIONSHIP BETWEEN THE STUDENT AND THE SPARK
7	PROGRAM AND A CHILD WHO HAD A BONE MARROW
8	TRANSPLANT. SO THEY BECAME PEN PALS.
9	SO THIS PATIENT THAT WAS TRANSPLANTED,
10	SICKLE CELL, CANCER, WHATEVER, BECAME A PAL OF ONE
11	OF THE STUDENTS. THEY MET THEM AND THEN THEY'RE
12	COMMUNICATING AND CONTINUING TO COMMUNICATE. AND
13	IT'S SUCH A WONDERFUL THING FOR A YOUNG PERSON WHO'S
14	THINKING ABOUT A CAREER TO KNOW A PATIENT WHO
15	BENEFITED FROM A STEM CELL TRANSPLANT OR
16	PARTICIPATED IN IT. AND I THINK SPARK SHOULD TAKE
17	CREDIT FOR SOMETHING LIKE THAT. AND THERE'S A GOOD
18	PR OPPORTUNITY THERE AS WELL. AND THE FAMILIES ALL
19	AGREED THAT THIS COULD BE DONE. WE DON'T GIVE THE
20	NAMES OUT, BUT THE COMMUNICATIONS ARE BEAUTIFUL.
21	AND IF PEOPLE WANT TO SEE EXAMPLES OF SOME OF THOSE,
22	REALLY, IT'S HEARTWARMING. AND SO I JUST WANTED TO
23	SHARE THAT WITH YOU.
24	CHAIRMAN THOMAS: THANK YOU, DR. LUBIN.
25	DR. MILLS: THANK YOU VERY MUCH. TODAY
	10

18

1	I'LL BE GOING THROUGH THE PRESIDENT'S REPORT IN A
2	VERY SIMILAR FORMAT TO THE WAYS WE'VE DONE IT
3	BEFORE.
4	WHAT I'D LIKE TO DISCUSS TODAY FIRST, AS
5	ALWAYS WE DO WITH EVERY PRESENTATION, IS TO REVIEW
6	THE CIRM MISSION. I ALSO WANT TO TAKE JUST A SHORT
7	AMOUNT OF TIME TO REVIEW THE STRATEGIC PLAN AND THE
8	GOALS OF THE STRATEGIC PLAN SO WE KEEP THEM SQUARELY
9	IN OUR MINDS AS WE MOVE FORWARD. THEN I WANT TO
10	TALK ABOUT, NOW WE'VE HAD THE STRATEGIC PLAN, HOW IS
11	IT STARTING TO PERFORM? AS WE'RE PUTTING IT ALL
12	ONLINE, WE'RE PUTTING THE PIECES ALL IN PLACE, WE'RE
13	STARTING TO BE ABLE TO GET ACTUAL PERFORMANCE
14	METRICS OUT OF IT, AND HOW IS THAT PERFORMANCE
15	GOING. AND THEN WE'RE GOING TO TALK ABOUT THE
16	BUDGET REVIEW BECAUSE WE ALSO, VERY IMPORTANTLY, TO
17	MAKE OUR STRATEGIC PLAN WORK, WE NEED TO PAIR UP THE
18	THINGS WE NEED TO GET DONE WITH THE TIME AND MONEY
19	THAT WE HAVE LEFT TO DO THEM. AND THE LAST THING I
20	WANTED TO DO WAS TO HAVE A BRIEF DISCUSSION AROUND
21	OUR CLINICAL PROGRAM AND THE CURRENT CONCEPT PLAN
22	THAT WE HAVE IN OUR CLINICAL PROGRAM AND SOME OF
23	THOSE COMPONENTS.
24	WE'VE HAD DISCUSSIONS IN RECENT
25	APPLICATION REVIEW SUBCOMMITTEE MEETINGS WHERE THERE
	10

1	WERE QUESTIONS THAT CAME UP ABOUT DIFFERENT
2	TECHNOLOGIES THAT WERE BEFORE US AND WHETHER OR NOT
3	THEY WERE IN SCOPE OR WHETHER OR NOT WE WANTED THEM
4	TO BE IN SCOPE. AND I THOUGHT IT MIGHT BE A GOOD
5	OPPORTUNITY FOR US TO FULLY, OR NOT FULLY, BUT IN AN
6	OVERVIEW, AT LEAST, REVIEW THAT PROGRAM AND SEE IF
7	THERE WAS ANYTHING WE HAD TO DISCUSS ABOUT OR
8	WHETHER IN FACT WE WERE HAPPY WITH THE WAY IT IS.
9	SO OUR MISSION, TEN SIMPLE BUT POWERFUL
10	WORDS, ACCELERATE STEM CELL TREATMENTS TO PATIENTS
11	WITH UNMET MEDICAL NEEDS. WE ARE ALL ABOUT
12	PATIENTS. AND BECAUSE THE WORD "ACCELERATE" IS IN
13	THERE, WE ARE IN THE TIME BUSINESS, AND SO WE AT
14	CIRM WILL NEVER FORGET THAT.
15	OUR STRATEGIC PLAN, WHICH WAS ADOPTED IN
16	DECEMBER OF LAST YEAR, HAS THREE SIMPLE COMPONENTS
17	TO IT. THE FIRST IS WHAT WE CALL PUSHING. THESE
18	ARE ALL THE ACTIVITIES THAT WE WOULD NORMALLY
19	UNDERTAKE AT CIRM TO HELP MOVE PROJECTS ALONG AS
20	THIS SORT OF GIANT STEM CELL BOULDER TO GET IT OVER
21	THE HILL. AND WHAT WE'RE DOING WITH THE PUSH
22	COMPONENT OF THIS IS WE'RE TRYING TO INTEGRATE THESE
23	PIECES BETTER. WE'RE TRYING HAVE THEM WORK MORE
24	SEAMLESSLY. WE'RE TRYING TO GET MORE POWER OUT OF
25	THAT PUSHING MACHINE THAT HAD ALREADY EXISTED.
	20

1	ON THE OTHER SIDE OF THE HILL, WE HAVE THE
2	PULL ASPECT OF THIS. THIS IS ONE OF THE THINGS THAT
3	WAS GLARINGLY OBVIOUS. WE DIDN'T HAVE ENOUGH AND WE
4	STILL DON'T HAVE ENOUGH ACTIVE INDUSTRY ENGAGEMENT
5	IN STEM CELL THERAPY THAT'S HELPING PULL THESE
6	THINGS TOWARDS INDUSTRY AS WE'RE DOING OUR BEST TO
7	PUSH THEM TO PATIENTS. AND THEN, LASTLY, CENTERS ON
8	SOME OF THE CHALLENGES THAT EXIST IN THE CURRENT
9	REGULATORY PARADIGM IN ITS CURRENT FORM FOR CELL
10	THERAPIES AND THE WORK THAT WE'RE DOING WITH FDA TO
11	TRY TO LEVEL THAT FIELD AND MAKE MORE EFFICIENT AND
12	COST-EFFECTIVE METHODS OF GETTING SAFE AND EFFECTIVE
13	TREATMENTS TO PATIENTS.
14	AS YOU KNOW, IT WAS VERY IMPORTANT THAT WE
15	NOT JUST TALK ABOUT SORT OF GRAND VISIONS IN WHAT WE
16	WANT TO DO WITH REGARDS TO CIRM AND ITS STRATEGIC
17	PLAN, BUT ALSO LAY OUT VERY CLEAR AND MEASURABLE
18	OBJECTIVES FOR US TO REACH. AND SO IN 2020 WE ARE
19	GOING TO KNOW WHETHER OR NOT WE DID OR DIDN'T
20	ACHIEVE ALL OF OUR SIX COMPONENTS. WE CALL THEM THE
21	BIG SIX INSIDE CIRM.
22	JUST TO REVIEW THEM, STARTING AT THE LEFT,
23	50 NEW CANDIDATES INTO DEVELOPMENT. WE WANT TO
24	INCREASE WHAT WE CALL PROGRESSION EVENTS. SO THAT'S
25	WHEN WE HAVE A PROGRAM THAT'S IN ONE STAGE OF

1	DEVELOPMENT MOVE TO THE NEXT STAGE OF DEVELOPMENT
2	WITHIN CIRM. WE WANT TO INCREASE PROGRESSION EVENTS
3	BY GREATER THAN 50 PERCENT. WE WANT TO HELP ENACT A
4	NEW, MORE EFFICIENT REGULATORY PARADIGM WITH FDA.
5	WE WANT TO REDUCE THE TIME IT TAKES FROM A PRODUCT
6	TO GO THROUGH THE TRANSLATION STAGE. THAT'S FROM
7	WHEN A CANDIDATE IS DISCOVERED TO WHEN IT'S FIRST
8	USED IN HUMAN CLINICAL TRIAL. CURRENTLY FOR STEM
9	CELL THERAPIES, THAT TRANSLATION PHASE TAKES EIGHT
10	YEARS. IN THE WORLD OUTSIDE OF CELL THERAPY, SO FOR
11	SMALL MOLECULES, THAT NUMBER IS 3.2 YEARS TO
12	ACCOMPLISH THE EXACT SAME ACTIVITY. SO WE'VE SET UP
13	A PRETTY AMBITIOUS GOAL TO HELP SHORTEN THAT TIME
14	FROM EIGHT YEARS DOWN TO AT LEAST LESS THAN FOUR
15	YEARS.
16	THEN THERE'S A REALLY BIG ONE, AND THAT IS
17	WE WANT TO INTRODUCE 50 NEW CLINICAL TRIALS INTO THE
18	CLINIC THROUGH CIRM'S PROGRAMS. IT'S REALLY
19	IMPORTANT AS WE ACCOMPLISH THAT GOAL THAT WE DON'T
20	LOWER OUR QUALITY STANDARDS, THAT THIS HAS TO BE
21	DONE WITH PERFECT QUALITY, THAT THOSE ARE THE THINGS
22	THAT WILL GIVE US THE GREATEST CHANCE TO HAVE THOSE
23	THERAPIES ACTUALLY TRANSLATE THROUGH AND HELP
24	PATIENTS.
25	AND THEN, LASTLY, WHEN WE HAVE THESE
	22
	<i>_LL</i>

1	CLINICAL STAGE PROGRAMS AND THEY'RE SHOWING SUCCESS,
2	WE WANT TO GET THEM PARTNERED UP WITH INDUSTRY SO
3	THAT INDUSTRY CAN DO SOME OF THE HEAVY LIFTING AT
4	THE END OF THE DEVELOPMENT CYCLE AND MAKE THOSE
5	THERAPIES BROADLY AVAILABLE TO THE PATIENTS WHO NEED
6	THEM. SO THOSE ARE OUR BIG SIX GOALS FOR 2020.
7	OVERARCHING THEMES BEHIND THIS STRATEGIC
8	PLAN, ONE, WE WANTED IT OBVIOUSLY TO BE FASTER. I
9	SAID WE'RE IN THE TIME BUSINESS, AND I'LL TALK MORE
10	ABOUT THIS. BUT THERE ARE A LOT OF THINGS AT CIRM
11	THAT WE HAVE BEEN ABLE TO DO THAT IN REAL TIME
12	SIGNIFICANTLY SHORTEN THE DEVELOPMENT CYCLE.
13	WE WANTED OUR PROCESS TO BE PREDICTABLE.
14	AND SO WE USED TO CALL THIS GRANT WHACK A MOLE WHERE
15	THE APPLICATIONS WOULD POP UP AND GO AWAY. WE
16	WANTED OUR USERS TO BE ABLE TO KNOW THAT CIRM WAS
17	ALWAYS OPEN AND ALWAYS AVAILABLE FOR WHATEVER STAGE
18	OF DEVELOPMENT THEY HAD, WHEN THEY COULD APPLY, AND
19	HAVE THAT WORK FASTER.
20	SIMILARLY, AND THIS BOARD HAS SUPPORTED US
21	ON THIS VERY STRONGLY, ACTUALLY ALMOST EVERY TIME WE
22	ISSUE AN AWARD, IT'S PUT OUT THERE, WE WANTED OUR
23	PROGRAMS TO BE PERFORMANCE BASED. SO WE WENT TO A
24	MILESTONE-BASED PROCESS FOR THE GRANTS WE ISSUE.
25	AND THAT IS, THE APPLICANTS COME, WE GIVE THEM A
	22

1	MILESTONE TO GET STARTED, THEY HAVE TO REACH THEIR
2	NEXT MILESTONE IN ORDER FOR THE APPLICATION TO
3	CONTINUE. IF THEY ARE UNABLE TO DO THAT, THEN THE
4	GRANT CANCELS OUT. AND THE NICE THING ABOUT THAT
5	PERFORMANCE-BASED SYSTEM IS I'VE JUST SORT OF
6	STEPPED BACK AND I'VE WATCHED THE BOARD EVALUATE IT
7	AND ALSO THE GWG EVALUATE IT. WE'RE TAKING CHANCES
8	ON APPLICATIONS WE PROBABLY OTHERWISE WOULDN'T TAKE
9	CHANCES ON BECAUSE WE KNOW IF IT'S NOT WORKING OUT,
10	THEN WE WILL BE ABLE TO STOP THAT BEFORE HAVING
11	SPENT ALL OF THE MONEY. SO I THINK IT'S AN
12	EXCELLENT PROGRAM, AND INTERNALLY WE KNOW WE'RE
13	SEEING BENEFITS TO THIS.
14	LASTLY, IT WAS ESSENTIAL THAT THIS PROCESS
15	BE CLEAR AND UNDERSTOOD BY ALL OF THE PEOPLE BOTH
16	INTERNALLY AND EXTERNALLY, THAT IT BE OBVIOUS,
17	INTUITIVE HOW IT WORKS AND THAT WE GET THE WORD OUT.
18	SO ACTUALLY RIGHT AFTER WE LEAVE HERE, THE
19	CIRM TEAM AND I WILL BE KICKING OFF WHAT WE CALL THE
20	CIRM ROAD SHOW. AND WE'LL BE GOING AROUND TO THE
21	MAJOR RESEARCH FACILITIES THROUGHOUT CALIFORNIA, AND
22	WE'LL BE TALKING AND SPENDING TIME WITH THE
23	INVESTIGATORS THERE EXPLAINING TO THEM THE SYSTEMS
24	THAT WE HAVE IN PLACE, THE PROGRAMS WE HAVE, HOW TO
25	USE THEM, HOW TO CONTACT US, HOW TO INTERACT WITH US
	2.4

1	SO WE CAN GET THE BEST PROGRAMS.
2	SO THIS IS THAT GIANT STEM CELL ENGINE
3	THAT WE'RE TRYING TO CREATE. IT HAS ALL THESE
4	DIFFERENT PIECES AND COMPONENTS TO IT. THE IDEA IS
5	TO HAVE SOMETHING THAT ACCELERATES THINGS THROUGH
6	THIS ENGINE FASTER AND MORE OF THEM THAN WOULD
7	OTHERWISE HAPPEN WITHOUT CIRM. AND WE FEEL
8	CONFIDENT THAT IF WE EXECUTE ON ALL OF OUR DIFFERENT
9	PIECES, THAT THIS IS, IN FACT, WHAT WILL HAPPEN.
10	I'M PROUD TO SAY THAT AS OF TODAY ALL BUT
11	TWO PIECES OF THIS ENGINE ARE NOW UP AND RUNNING.
12	THE ONLY TWO THINGS WE HAVE LEFT TO DO ARE THE
13	TRANSLATING CENTER AND THE ATP3, WHICH WE'LL BE
14	TALKING ABOUT TODAY. SO IT'S STARTING TO COME
15	ONLINE.
16	SO AS IT STARTS TO COME ONLINE, IT MAKES
17	SENSE TO TALK ABOUT THE PERFORMANCE THAT WE'RE
18	SEEING. IF THE WHOLE PROGRAM, OUR INFRASTRUCTURE,
19	EDUCATION, AND EVERYTHING TOGETHER, MAKES UP THE
20	ENGINE, THEN THE CORE OF THE ENGINE ARE REALLY OUR
21	GRANTING PROGRAMS IN OUR DEVELOPMENT STAGES FROM
22	DISCOVERY THROUGH TRANSLATION TO CLINICAL.
23	AND HERE IT WAS IMPORTANT FOR US TO CREATE
24	A STRUCTURE WHERE WE COULD TAKE A BRAND-NEW IDEA
25	FROM VERY SEED CONCEPT AND CREATE A CLEAR PATHWAY

1	THAT LINKED, WHERE THE PRODUCT OF ONE AWARD WAS THE
2	PREREQUISITE FOR THE NEXT AWARD, SEAMLESSLY ALL THE
3	WAY THROUGH PRODUCT APPROVAL, AND HAVE THAT BE DONE
4	IN AN EFFICIENT TIME FRAME WHERE THE INVESTIGATORS
5	WEREN'T LEANING ON US, BUT INSTEAD WE WERE READY
6	WHEN THEY WERE READY. AND SO WE'VE DONE THIS HERE.
7	IN DISCOVERY, AGAIN, WE HAVE THE SEED
8	AWARD WHICH GOES TO A BASIC DISCOVERY AWARD, WHICH
9	IS OUR MAJOR WORKHORSE AWARD. WE OFFER THOSE ONE
10	AND TWO TIMES A YEAR. THAT HANDS OFF, ONCE A SINGLE
11	PRODUCT CANDIDATE HAS BEEN DEVELOPED, INTO
12	TRANSLATION. WE OFFER THOSE THREE TIMES A YEAR NOW.
13	AS SOON AS YOU HAVE YOUR PRE-IND MEETING, YOU'RE
14	GETTING READY TO HAND IT OFF TO THE CLINICAL STAGE,
15	WHERE WE OFFER THOSE PROGRAMS 12 TIMES A YEAR, AND
16	THEN ON INTO CLINICAL TRIALS AND THEN HOPEFULLY AN
17	APPROVED THERAPY.
18	SO THE GREAT THING ABOUT THE CORE IS THE
19	CORE IS ALL UP AND RUNNING. EVERY SINGLE PROGRAM
20	THAT WE HAVE WITHIN THESE, WE HAVE TEN TOTAL WITHIN
21	THESE, ARE UP AND RUNNING AND WORKING, WHICH IS GOOD
22	TO SEE.
23	THIS SYSTEM WHERE WE HAVE A PREDICTABLE
24	NUMBER OF REVIEWS EACH YEAR FOR ALL OF OUR DIFFERENT
25	PROGRAMS AND WE KNOW WHEN THEY'RE GOING TO HAPPEN
	26

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1	AND HOW THEY'RE GOING TO HAPPEN, NOT ONLY IS THAT
2	USER FRIENDLY FOR OUR APPLICANTS THAT WANT TO COME
3	AND APPLY TO THESE SYSTEMS, THEY'LL KNOW WHEN AND
4	HOW AND THOSE TYPES OF THINGS, BUT FROM A BOARD
5	STANDPOINT IT'S ALSO REALLY IMPORTANT, AND AS WE SEE
6	AS WE GO INTO THE DECEMBER BOARD MEETING, THIS IS
7	GOING TO ALLOW MUCH BETTER CONTROL OF BUDGETING
8	GOING FORWARD. AND WE'LL ACTUALLY BE ABLE TO DO
9	PROSPECTIVE BUDGETING BASED ON WHERE WE ARE AND
10	DIFFERENT ADJUSTMENTS AND BALANCES WE NEED TO MAKE
11	BETWEEN THESE DIFFERENT PROGRAMS.
12	SO WITH THE EXCEPTION OF REALLY WHETHER OR
13	NOT WE WANT TO INCLUDE ALPHA CLINICS IN NEXT YEAR'S
14	BUDGET, ALMOST ALL OF THE BUDGETING DECISIONS THAT
15	WE HAVE TO MAKE AND THE BOARD HAS TO MAKE CENTER
16	AROUND THESE THREE PROGRAMS AND IT BECOMES FAIRLY
17	SIMPLE. WE PICK HOW MUCH MONEY WE WANT TO GO INTO
18	EACH OF THESE PROGRAMS AND HOW MANY REVIEWS OR
19	CYCLES WE WANT TO OFFER. SO DO WE WANT TO CONTINUE
20	TRANSLATION AT THREE A YEAR? DO WE WANT TO CONTINUE
21	THAT AT A RUN RATE OF \$45 MILLION OVER THOSE THREE
22	YEARS? AND THIS IS SOMETHING THAT SCOTT TOCHER IS
23	GOING TO BE TALKING ABOUT A LITTLE BIT MORE COMING
24	UP. BUT IT WILL BE MUCH CLEARER FOR THE BOARD WHAT
25	WE'RE SPENDING MONEY ON AND WHY ON A PROSPECTIVE

L	BASIS
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2	SO NOW THAT WE HAVE THIS CORE, AT LEAST,
3	IN PLACE AND THE CORE IS WORKING, LET'S TAKE A LOOK
4	AT HOW IT'S DOING COMING ONLINE. SO IN DISCOVERY,
5	SO WHAT YOU'RE SEEING HERE IS HOW WE ARE ESTIMATING
6	WE'RE GOING TO FINISH THE YEAR, ETF, ESTIMATE TO
7	FINISH THE YEAR, VERSUS WHAT WE ALLOCATED FOR THOSE
8	PROGRAMS IN THAT YEAR. SO IN DISCOVERY WE'RE GOING
9	FINISH, WE THINK, AT ABOUT \$37 MILLION AWARDED.
10	THAT IS VERSUS \$53 MILLION ALLOCATED. SO THIS ONE
11	COMES IN A LITTLE LOW. IT COMES IN LOW BECAUSE WE
12	ACTUALLY JUST DIDN'T HAVE SUFFICIENT NUMBER OF
13	MERITORIOUS AWARDS IN OUR QUEST AWARD. WE CAME IN
14	LOW ON THAT. WE ALSO DIDN'T USE THE TWO CHALLENGE
15	AWARDS, WHICH WAS \$4 MILLION. AND BETWEEN THOSE
16	TWO, THAT MAKES UP THE BULK OF THAT DIFFERENCE.
17	LOOKING AT TRANSLATION, TRANSLATION IS
18	ACTUALLY RUNNING A LITTLE HIGH. SO WE'RE GOING TO
19	ESTIMATE TO FINISH AT ABOUT \$52 MILLION FOR THE YEAR
20	VERSUS \$40 MILLION ALLOCATED. BEFORE JAMES HAS A
21	CONCERN ABOUT THAT, THE DIFFERENCE AND HOW WE WERE
22	ABLE TO OVERALLOCATE IS YOU, THE BOARD, ACTUALLY
23	WENT THROUGH THE PROCESS AND PUT ANOTHER \$15 MILLION
24	FUNDING ALLOCATION TO CONDUCT THE THIRD REVIEW IN
25	TRANSLATION BECAUSE THERE WAS SUCH SIGNIFICANT

DEMAND.

AND THEN LASTLY IS CLINICAL. AND CLINICAL
IS A REALLY IMPORTANT PIECE TO THE SUCCESS OF CIRM
BECAUSE OUT OF THOSE GOALS, RIGHT NOW AS WE STAND
HERE TODAY, THE MOST CHALLENGING ONE OF THOSE GOALS
FOR US TO HIT ARE GETTING 50 HIGH QUALITY CLINICAL
TRIALS INTO AND MOVING ALONG IN OUR SYSTEM. RIGHT
NOW WE'RE ESTIMATING THIS YEAR TO FINISH AT ABOUT
\$80 MILLION OF AWARDS IN CLINICAL VERSUS A HUNDRED
MILLION THAT WE ALLOCATED. BUT THE GOOD NEWS IS
THIS IS RAPIDLY INCREASING. I'LL TALK MORE ABOUT
THE SIGNIFICANCE OF THIS COMING UP. BUT THE NUMBER
OF NEW APPLICATIONS COMING INTO CIRM NOW IS HIGHER
THAN IT HAS EVER BEEN BEFORE. THE CLINICAL TEAM IS
JUST DOING A PHENOMENAL JOB. I DON'T KNOW IF YOU'LL
RECALL, BUT THE LAST TIME I PUT THIS SLIDE UP, OUR
ESTIMATE TO FINISH WAS \$35 MILLION. SO IN THE LAST
THREE MONTHS, THEY'VE MADE INCREDIBLE PROGRESS.

SO LET'S TALK ABOUT SOME OF THAT PROGRESS PARTICULARLY IN THE CLINICAL STAGE. SO SINCE WE'VE INTRODUCED THIS CIRM 2.0 PROGRAM, WE HAVE RECEIVED 54 CLINICAL STAGE APPLICATIONS. THE FIRST THING WE DO WHEN THOSE APPLICATIONS COME IN IS WE PUT THEM THROUGH ELIGIBILITY REVIEW. SO JUST BEFORE WE GO OFF FOR SCIENTIFIC REVIEW, WE JUST MAKE CERTAIN THAT

1	THE APPLICATION IS WITHIN SCOPE, IT'S FROM A
2	QUALIFIED APPLICANT, THEY MEET CERTAIN BLACK AND
3	WHITE CRITERIA.
4	SO OUT OF THOSE 54 THAT HAVE COME IN,
5	WE'VE HAD 39 PASS ELIGIBILITY, BUT WE HAVE SEVEN
6	PENDING RIGHT NOW. AND THAT'S A TESTAMENT TO HOW
7	QUICKLY WE'RE RAMPING UP IN THIS AREA. SO OUT OF
8	THOSE 39 THAT PASSED ELIGIBILITY, WE HAVE 36 OF THEM
9	WHICH HAVE FINAL DISPOSITIONS FROM THE GWG. WE HAVE
10	THREE THAT ARE CURRENTLY UNDER REVIEW. SO OUT OF
11	THOSE 36 WHERE WE HAVE FINAL DISPOSITIONS, 13 OF
12	THOSE HAVE BEEN FAVORABLE WHERE THE PROGRAM HAS BEEN
13	RECOMMENDED FOR FUNDING TO YOU GUYS. SO THE 13 OUT
14	OF 36 IS 36 PERCENT. SO APPLICATIONS THAT WE CAN
15	ACTUALLY GET IN AND WILL PASS ELIGIBILITY, 36
16	PERFECT ARE ADJUDICATED FAVORABLY. WHEN YOU LOOK AT
17	VERSUS THE APPLICATIONS WE ACTUALLY RECEIVE, IT'S
18	ABOUT 30 PERCENT.
19	SO HERE'S THE IMPORTANT POINT OUT OF ALL
20	THESE NUMBERS. FOR US TO ACHIEVE OUR CLINICAL TRIAL
21	GOALS, WE ARE GOING TO NEED TO TAKE IN AN ADDITIONAL
22	150, APPROXIMATELY, MORE CLINICAL APPLICATIONS OVER
23	THE NEXT THREE AND A HALF YEARS TO REACH THESE
24	GOALS. THAT THIS IS A TREMENDOUS AMOUNT OF WORK FOR
25	THE CIRM TEAM, ONE, TO GO OUT AND FIND THOSE BECAUSE
	30

1	WE'RE NOT PASSIVE ANYMORE. WE'RE IN THE HUNTING
2	BUSINESS. WE GO OUT AND WE FIND GREAT PROGRAMS AND
3	WE BRING THEM IN. SO MARIA MILAN'S TEAM IS DOING
4	THAT. AND, AS I MENTIONED, THEY'RE DOING A
5	PHENOMENAL JOB AT THAT. SEVEN APPLICATIONS LAST
6	MONTH ALONE. SO KEEP THAT RATE UP AND WE'RE GOOD
7	THERE, BUT WE ALSO HAVE A REVIEW TEAM THAT NEEDS TO
8	REVIEW ALL THAT. AND THEN YOU GUYS COME INTO THIS.
9	YOU GUYS PARTICIPATE IN THE GWG, AND THEN YOU GUYS
10	ULTIMATELY HAVE TO DO THE FINAL APPROVALS.
11	THEN GRANTS MANAGEMENT AND GABE HAS TO
12	ACTUALLY GO ON AND TURN THOSE THINGS INTO CONTRACTS.
13	SO IF YOU LOOK AT THE PERFORMANCE HERE, IT'S REALLY
14	QUITE STUNNING. SO IN 2016 THIS YEAR WE'RE GOING TO
15	FINISH WITH 20 SEPARATE GWG REVIEWS. TO PUT THAT IN
16	CONTEXT, OUR HISTORICAL AVERAGE IS 5.8 A YEAR. SO
17	WE'RE OVER TRIPLE THE VOLUME WE'RE DOING RIGHT NOW
18	WITH NO NEW PERSONNEL IN THIS AREA. SO WE'RE
19	GETTING FAR BETTER PERFORMANCE OUT OF THE TEAM.
20	AGAIN, YOU GUYS ARE PLAYING AN IMPORTANT
21	ROLE IN THIS. WE'RE NO LONGER TAKING THESE
22	APPLICATIONS TO APPROVAL WHENEVER WE HAPPEN TO HAVE
23	A BOARD MEETING. THE APPLICATION REVIEW
24	SUBCOMMITTEE OF THIS BOARD IS MEETING MONTHLY. SO
25	THAT'S HELPING US REALLY SQUEEZE DOWN THE TIME. SO

1	THE TIME RIGHT NOW FROM APPLICATION TO APPROVAL IS
2	NOW UNDER 85 DAYS. IT'S VERY, VERY QUICK FOR
3	CLINICAL APPLICATIONS. AND THE TIME FROM APPROVAL
4	TO CONTRACTING IS NOW UNDER 45 DAYS, AND WE HAVEN'T
5	MISSED THAT ONCE. WHY THAT NUMBER IS IMPORTANT IS
6	THAT NUMBER WAS SEVEN MONTHS TWO YEARS AGO. SO IT'S
7	A TREMENDOUS JOB THAT ALL OF THOSE TEAMS ARE DOING
8	AND YOU GUYS ARE DOING WORKING TOGETHER.
9	SO WE ALSO HAVE A LOT OF BEHIND-THE-SCENES
10	STUFF THAT GOES ON AT CIRM. YOU GUYS MOSTLY GET TO
11	INTERFACE WITH THE REVIEW TEAM WHO PRESENTS OR THE
12	CLINICAL TEAM THAT TALKS TO YOU ABOUT CERTAIN
13	CLINICAL TRIALS AND THINGS AND THEN EARLY STAGE
14	DISCOVERY AND TRANSLATIONAL, BUT THERE'S A LOT THAT
15	GOES ON IN THE INNERWORKINGS OF THIS ENGINE TO MAKE
16	IT ALL WORK AND TO MAKE IT COMPLIANT AND TRANSPARENT
17	AND ALL OF THESE OTHER GOOD THINGS THAT WE NEED TO
18	BE.
19	AND SO MARIA BONNEVILLE SPEARHEADED A
20	PROGRAM CALLED THE CIRM 2.0 CORE. AND THAT WAS WE
21	HAD DONE CIRM 2.0 FOR CLINICAL AND THAT WORKED
22	GREAT, AND THEN WE DID CIRM 2.0 FOR DISCOVERY AND
23	TRANSLATIONAL PROGRAMS, AND THAT WORKED GREAT. AND
24	WE SAID, OKAY. SO WE HAVE ALL THESE SORT OF
25	FRONT-STAGE THINGS WORKING. WE NEED TO DO THAT SAME
	22

1	LEVEL OF OVERHAUL THROUGHOUT THE ENTIRE
2	ORGANIZATION, THROUGH ALL THE BACK-STAGE THING.
3	THIS GIVES US A LIST. THIS IS ALL DONE NOW. WE'RE
4	REPORTING COMPLETE THIS GIANT LIST OF STUFF THAT
5	THEY WERE ABLE TO GET DONE BEHIND THE SCENES THAT
6	THEN CAN HAVE THE WHOLE ORGANIZATION PERFORM AT THE
7	SAME LEVEL AS THESE THINGS THAT WE GENERALLY PUT OUT
8	MORE IN FRONT STAGE AND TALK ABOUT. SO, AGAIN, A
9	TREMENDOUS EFFORT BY LEGAL, HUMAN RESOURCES, GRANTS
10	MANAGEMENT, FINANCE, I.T., THE APPLICATION REVIEW
11	TEAM, AND THEN ALL OF THE PEOPLE THAT WE HAVE TO
12	WORK WITH THE BOARD.
13	NOW, THIS IS ONE AREA, AND ACTUALLY
14	THEY'RE ALL I SHOULDN'T SAY THIS IS ONE AREA.
15	THEY'RE ALL LIKE THIS WHERE THERE WILL ALWAYS BE THE
16	NEED FOR CONTINUAL UPDATE. SO YOU CAN ALWAYS
17	IMAGINE IF THIS IS CIRM 2.0, THEN WE'RE ALWAYS
18	WORKING ON CIRM 3.0 BECAUSE WE CAN ALWAYS GET BETTER
19	AT DIFFERENT THINGS. AND THIS IS CERTAINLY AN AREA
20	THAT WE'RE LOOKING TO DO THAT. BUT TREMENDOUS
21	EFFORT BY THIS TEAM.
22	THE LAST THING I WANT TO TALK ABOUT WITH
23	PERFORMANCE IS THE ACCELERATING CENTER. I GOT A
24	CHANCE TO SEE WHAT IT LOOKED LIKE. IF YOU GUYS
25	RECALL, THIS IS THE PROGRAM, ONE-HALF OF WHAT WE

1	CALL THE PITCHING MACHINE WHERE WE HAVE THE
2	ACCELERATING CENTER AND THE TRANSLATING CENTER.
3	THESE TWO CENTERS ARE DESIGNED TO WORK TOGETHER TO
4	RADICALLY SPEED UP THAT TRANSLATIONAL PHASE, THAT
5	PHASE WE HAVE TO TAKE FROM EIGHT TO FOUR YEARS IF WE
6	WANT TO HIT OUR GOALS. THIS IS BASICALLY THE STEM
7	CELL CRO SIDE OF IT. WE WERE ABLE TO GET THIS
8	APPROVED, AND I WOULD LIKE TO SAY NOW THAT THIS IS
9	NOT JUST APPROVED, IT'S BEEN CONTRACTED. IT WAS
10	CONTRACTED IN JUST 65 DAYS WHICH FOR SOMETHING OF
11	THIS SCALE IS REMARKABLE. IT IS OPEN FOR BUSINESS,
12	AND WE'RE GOING TO BE HOLDING OUR GRAND OPENING
13	CEREMONY ON OCTOBER 4TH. IT'S HERE IN LA JOLLA. SO
14	IF YOU CAN, WE'D LOVE TO HAVE YOU OUT THERE.
15	THIS PROGRAM AND EVERYTHING THEY HAVE IN
16	PLACE, AND, AGAIN, I SAW IT YESTERDAY. THIS IS
17	SOMETHING YOU CAN WALK INTO AND YOU CAN SEE PEOPLE
18	WORKING ON. IT'S SO WONDERFUL. THEY'VE GONE SO FAR
19	ABOVE AND BEYOND WHAT WE ORIGINALLY HOPED THEY WOULD
20	DO. WE WANTED THEM TO CREATE A CRO IN THE STATE OF
21	CALIFORNIA THAT WOULD HELP RUN CLINICAL TRIALS AND
22	MOVE THEM IN A FASTER AND HIGHER QUALITY FASHION.
23	BUT THEY LOOKED AT OUR WHOLE THING, AND THEY SAID
24	YOU KNOW WHAT. WE CAN HELP IN SOME OTHER AREAS.
25	FIRST, WE KNOW A LOT OF POTENTIAL HIGH

1	QUALITY APPLICANTS OUT THERE THAT WE CAN REFER INTO
2	CIRM. SECOND, WE KNOW HOW TO PREPARE CIRM
3	APPLICATIONS. WE CAN HELP THEM. THINK ABOUT THIS.
4	WITH REGARDS TO THE MASSIVE WORKLOAD THAT THE GWG
5	HAS TO DO IN REVIEWING APPLICATIONS, WELL, IF THE
6	QUALITY OF APPLICATIONS STARTS COMING AT A MUCH
7	HIGHER LEVEL, THEN WE WON'T NEED TO REVIEW 150 TO
8	GET TO 45. WE MIGHT ONLY HAVE TO REVIEW A HUNDRED.
9	SO THAT WOULD BE PHENOMENAL. THEY'RE JUMPING IN AND
10	DOING THAT. THEY'RE ALSO PLAYING A VERY ACTIVE ROLE
11	ON HELPING OUR APPLICANTS AND OUR AWARDEES NOT
12	OUR APPLICANTS, OUR AWARDEES UNDERSTAND HOW TO
13	PREPARE AN IND, PREPARE AN IND AND COORDINATE AND
14	COMMUNICATE WITH FDA ON THAT.
15	WE'LL ACTUALLY BE GOING BACK. EARLIER
16	THIS QUARTER I ACTUALLY HAD A MEETING WITH THE
17	COMMISSIONER OF FDA, DR. CALIFF. THIS IS ONE OF THE
18	THINGS THAT WE TALKED ABOUT, AND WE WILL BE GOING
19	BACK WITH QUINTILES TO MEET WITH THE FDA AND
20	SPECIFICALLY TALK ABOUT HOW WE CAN SET UP A
21	RELATIONSHIP BETWEEN FDA, THE ACCELERATING CENTER,
22	AND CIRM IN ORDER TO EXPEDITE OUR PROGRAMS. VERY
23	EXCITING STUFF. I LIKE THIS ONE. YAY. GO. GOOD
24	JOB, NEIL, TOO.
25	OKAY. NOW, THAT'S ALL THAT GOING ON, SO
	2.5

1	WE HAVE A PLAN, WE KNOW WHAT OUR GOALS ARE, WE HAVE
2	THE ENGINE, THE ENGINE IS COMING ALIVE, IT'S NOT UP
3	TO FULL SPEED YET, BUT IT'S CERTAINLY COMING ONLINE.
4	THAT'S ALL GOOD. BUDGET REVIEW, YOU CAN IMAGINE IN
5	THIS ANALOGY, THIS IS OUR FUEL. WE HAVE TO HAVE
6	ENOUGH FUEL IN ORDER TO GET ALL THOSE GOALS
7	ACCOMPLISHED. SO LET'S TAKE A LOOK AT THAT.
8	FOR THOSE YOU WHO ARE NEW, UNDERSTANDING
9	THIS STRUCTURE IS REALLY IMPORTANT. SO CIRM DOESN'T
10	HAVE ONE BIG BUCKET OF MONEY THAT WHEN IT GOES TO
11	ZERO, WE'RE DONE. WE ACTUALLY HAVE TWO BUCKETS OF
12	MONEY. AND WHEN EITHER ONE OF THOSE BUCKETS GO TO
13	ZERO, WE'RE DONE. SO ONE OF OUR CHALLENGES THAT WE
14	HAVE AND SOMETHING I SPEND A LOT OF TIME ON IS
15	MAKING SURE WE'RE BALANCING BASICALLY, YOU CAN
16	IMAGINE, THE FLOW RATES OUT OF THESE BUCKETS SUCH
17	THAT THEY END, THEY GO TO ZERO, AT THE SAME TIME.
18	RIGHT NOW THAT TIME IS JUNE OF 2020. AND WE'RE
19	REALLY MANAGING IT PRETTY WELL, AND WE HAVE SOME
20	GOOD CONTROLS OVER IT.
21	BUT THE TWO BUCKETS THAT WE HAVE, THE
22	LARGE BUCKET IS THE \$2.75 BILLION AWARD BUCKET. SO
23	WHEN WE GIVE OUT GRANTS, IT COMES OUT OF THE LARGE
24	BUCKET. EVERYTHING ELSE WE DO AT CIRM, RUNNING THE
25	BOARD, RUNNING THE INFRASTRUCTURE, THE TEAM

1	INTERNALLY, THOSE ALL COME OUT OF THE ADMINISTRATIVE
2	BUCKET. THAT BUCKET IS CAPPED AT \$180 MILLION. SO
3	EVERYTHING WE HAVE TO DO OVER OUR ENTIRE LIFE HAS TO
4	COME OUT OF THAT BUCKET.
5	NOW, YOU WILL RECALL ORIGINALLY CIRM WAS
6	PROJECTED TO BE A TEN-YEAR ORGANIZATION, SO THAT
7	\$180 MILLION WAS SUPPOSED TO GO TEN YEARS. WELL,
8	WE'RE GOING TO RUN WELL, WELL, WELL PAST TEN YEARS
9	BY MAYBE ABOUT SIX YEARS. SO WE HAVE TO BE VERY,
10	VERY SMART IN HOW WE MANAGE THE ADMINISTRATIVE
11	BUCKET TO MAKE SURE THAT WE'RE AROUND BECAUSE YOU
12	CAN'T GET MONEY OUT OF THE BIG BUCKET AND YOU CAN'T
13	ADMINISTER MONEY EFFICIENTLY OUT OF THE BIG BUCKET
14	IF THERE'S NOBODY THERE TO DO IT, WHICH GETS PAID
15	OUT OF THE SMALL BUCKET.
16	LET'S SEE HOW WE'RE DOING. WITH REGARDS
17	TO THE SMALL BUCKET OR THE ADMINISTRATIVE BUCKET, SO
18	WE HAVE FUNDING AVAILABLE THROUGH MID-2020. THIS IS
19	SOMETHING THAT I WORK WITH CHILA ON ON A REGULAR
20	BASIS. WE WATCH THIS LIKE A HAWK. WE'RE HAPPY WITH
21	WHERE WE ARE ON THIS, BUT IT'S SOMETHING WE WATCH.
22	SO WE SPENT 119 MILLION OUT OF THIS, WE HAVE 61
23	REMAINING. OUR CURRENT SPEND RATE IS ABOUT 16
24	MILLION. YOU DO THE MATH, THAT PUTS US THERE RIGHT
25	AROUND JUNE OF 2020. AND WE HAVE SOME FLEXIBILITY
	27

1	AROUND THAT.
2	WHEN YOU LOOK AT THE BIG BUCKET, WE
3	ESTIMATE TO DEPLETE THE BIG BUCKET IN 2020. WE HAVE
4	\$2.11 BILLION THAT WE'VE AWARDED OUT OF THIS BUCKET,
5	WHICH LEAVES US 639 MILLION THAT'S UNCOMMITTED.
6	IT'S AN IMPORTANT NUMBER HERE, AND I'M KIND OF
7	UPPING THE LEVEL OF SOPHISTICATION THAN WHAT WE
8	TALKED TO PREVIOUSLY. ANOTHER NUMBER THAT'S
9	IMPORTANT TO WATCH IS THE AMOUNT OF MONEY WE HAVE
10	UNDER ACTIVE AWARD MANAGEMENT. SO THESE ARE THINGS
11	THAT THE BOARD HAS APPROVED AND THE AWARD IS IN SOME
12	PHASE OF OPERATION. THE AWARD HASN'T BEEN CLOSED
13	OUT.
14	SO RIGHT NOW WE HAVE \$900 MILLION ACTIVELY
15	UNDER MANAGEMENT. SO THAT'S WHAT OUR GRANTS
16	MANAGEMENT GROUP, OUR THERAPEUTICS, OUR DISCOVERY,
16 17	MANAGEMENT GROUP, OUR THERAPEUTICS, OUR DISCOVERY, AND OUR TRANSLATIONAL GROUPS DO IS THEY SIT OVER
17	AND OUR TRANSLATIONAL GROUPS DO IS THEY SIT OVER
17 18	AND OUR TRANSLATIONAL GROUPS DO IS THEY SIT OVER THESE AWARDS AND THEY MAKE SURE THESE AWARDS
17 18 19	AND OUR TRANSLATIONAL GROUPS DO IS THEY SIT OVER THESE AWARDS AND THEY MAKE SURE THESE AWARDS PERFORM. AND WHEN THESE AWARDS DON'T PERFORM, WE
17 18 19 20	AND OUR TRANSLATIONAL GROUPS DO IS THEY SIT OVER THESE AWARDS AND THEY MAKE SURE THESE AWARDS PERFORM. AND WHEN THESE AWARDS DON'T PERFORM, WE GET THE MONEY BACK, OR WE MOSTLY TRY TO HELP THEM
17 18 19 20 21	AND OUR TRANSLATIONAL GROUPS DO IS THEY SIT OVER THESE AWARDS AND THEY MAKE SURE THESE AWARDS PERFORM. AND WHEN THESE AWARDS DON'T PERFORM, WE GET THE MONEY BACK, OR WE MOSTLY TRY TO HELP THEM GET BETTER; BUT IF IT DOESN'T WORK, WE GET THE MONEY
17 18 19 20 21	AND OUR TRANSLATIONAL GROUPS DO IS THEY SIT OVER THESE AWARDS AND THEY MAKE SURE THESE AWARDS PERFORM. AND WHEN THESE AWARDS DON'T PERFORM, WE GET THE MONEY BACK, OR WE MOSTLY TRY TO HELP THEM GET BETTER; BUT IF IT DOESN'T WORK, WE GET THE MONEY BACK. THE REASON THAT NUMBER IS SO IMPORTANT IS
17 18 19 20 21 22	AND OUR TRANSLATIONAL GROUPS DO IS THEY SIT OVER THESE AWARDS AND THEY MAKE SURE THESE AWARDS PERFORM. AND WHEN THESE AWARDS DON'T PERFORM, WE GET THE MONEY BACK, OR WE MOSTLY TRY TO HELP THEM GET BETTER; BUT IF IT DOESN'T WORK, WE GET THE MONEY BACK. THE REASON THAT NUMBER IS SO IMPORTANT IS THAT'S THE NUMBER THAT OUR RETURN COMES TO. SO WHEN

1	WASN'T USED FOR SOME REASON.
2	SO LET'S SAY WE SAID WE WERE GOING TO DO A
3	\$20 MILLION CLINICAL TRIAL. \$5 MILLION INTO THAT
4	CLINICAL TRIAL IT WAS STOPPED FOR FUTILITY. THAT
5	\$15 MILLION COMES BACK TO US. THAT'S A RETURN. OUT
6	OF OUR ACTIVE BALANCE, OUR HISTORICAL RETURN RATE
7	HAS BEEN BETWEEN 3 AND 5 PERCENT. AND SO THAT IS
8	OUR ASSUMPTION GOING FORWARD. THE REASON THAT'S
9	IMPORTANT IS IT'S A LOT OF MONEY ANNUALLY TO GET
10	BACK. SO \$40 MILLION COMING BACK TO US ANNUALLY.
11	WE HAVE TO ACCOUNT FOR THAT, AND WE HAVE TO PLAN FOR
12	THAT. OTHERWISE WE'D BE LEFT WITH A WHOLE LOT OF
13	MONEY IN JUNE OF 2020 THAT WE WOULDN'T BE ABLE TO
14	DISBURSE. SO THIS IS SOMETHING WE WATCH. THIS IS
15	WHY I HAVE THIS SLIDE, AND I'VE SHOWN YOU THIS SLIDE
16	NOW FOR A FEW YEARS.
17	SO THIS IS JUST TO RECONCILE WHAT WE ENDED
18	UP ACTUALLY DOING FOR THE FULL YEAR 2016. WE
19	AWARDED \$155 MILLION IN NEW AWARDS. THAT'S MONEY
20	GOING FROM THE UNCOMMITTED BUCKET TO THE COMMITTED
21	BUCKET. LAST YEAR WE RECOVERED 46 MILLION. THOSE
22	ARE THE RETURNS THAT I'M TALKING ABOUT. SO FOR
23	VARIOUS REASONS, ALL DIFFERENT PROGRAMS, ACROSS ALL
24	SECTORS, \$46 MILLION CAME BACK. THAT IS ALMOST
25	EXACTLY 5 PERCENT ON OUR AWARD BALANCE. SO THAT'S

1	WORKING OUT AT THE HIGH LEVEL. THAT MEANS OUR NET
2	MOVEMENT FROM THE UNCOMMITTED BUCKET TO THE
3	COMMITTED BUCKET IS \$109 MILLION. AGAIN, OUR
4	ASSUMPTION WOULD BE ABOUT 40. SO THAT WOULD BE
5	GOOD.
6	SO THIS YEAR SO FAR, WE'RE ONE QUARTER
7	INTO THIS FISCAL YEAR, WHICH I APOLOGIZE BECAUSE I
8	KNOW THAT'S CONFUSING, WE'RE DOING OUR BEST TO GO
9	OVER TO A CALENDAR YEAR IN DESCRIPTIONS, BUT FOR
10	RIGHT NOW IN THIS FIRST FISCAL QUARTER, WE'VE MADE
11	\$33 MILLION IN NEW AWARDS. WE'VE HAD \$6 MILLION IN
12	REDUCTION, SO IT'S A NET OF 27 MILLION. THE 6
13	MILLION YOU WOULD IMAGINE AGAINST THAT 40, IT WOULD
14	BE A LITTLE LOW, BUT IT'S KIND OF LUMPY, IT'S NOT
15	PREDICTABLE, SO IT'S ABOUT RIGHT ON TRACK.
16	SO ALL OF THIS TAKEN TOGETHER SAYS WE
17	UNDERSTAND HOW MUCH MONEY WE HAVE IN THE TWO
18	BUCKETS. WE UNDERSTAND AND CAN CONTROL THE RATE OUT
19	OF THE ADMINISTRATIVE BUCKET OR THE SMALL BUCKET
20	WITH MUCH MORE PRECISION THAN WE CAN CONTROL WITH
21	THE LARGE BUCKET. BUT WITH THAT SAID, WE HAVE GOOD
22	ASSUMPTIONS, WE HAVE MODELS THAT WE CONTINUE TO
23	UPDATE THAT HELP US MAKE REFINEMENTS AS WE GET
24	CLOSER AND CLOSER ALONG.
25	OKAY. DOES ANYONE HAVE ANY QUESTIONS ON
	40

1	THE PERFORMANCE AND BUDGET BEFORE WE GET INTO THE
2	NEXT SECTION BECAUSE THE NEXT SECTION I HOPE THERE
3	ARE SOME QUESTIONS ON IT? THEY MIGHT BE VERY
4	DIFFERENT IN NATURE.
5	DR. DIXON: I HAVE A QUESTION. AS I
6	REMEMBER, THE MORE BASIC STUDIES, NUMBER OF GRANTS
7	YOU'VE GOT IN UNDER THAT UMBRELLA WERE QUITE A BIT
8	LESS THAN EXPECTED. IS THIS A TREND OR IS THIS SORT
9	OF A ONE-TIME THING?
10	DR. MILLS: SO WE DON'T KNOW. WE'VE ONLY
11	DONE ONE ROUND OF AWARDS UNDER OUR TWO EARLIEST
12	STAGES, SO OUR SEED AWARD AND OUR QUEST AWARD, WHICH
13	ARE THE SMALLEST AWARDS, AND EARLIEST STAGE AWARD IS
14	SEED, AND THEN OUR QUEST AWARD, WHICH IS SORT OF OUR
15	BIG POWERHOUSE DISCOVERY AWARD. BOTH OF THOSE CAME
16	IN WITH LOWER NUMBERS OF MERITORIOUS APPLICATIONS
17	THAN WE EXPECTED. WE DON'T KNOW WHETHER OR NOT
18	THAT'S A TREND OR NOT BECAUSE RIGHT NOW IT'S A DATA
19	POINT OF ONE FOR BOTH OF THEM.
20	THE OTHER THING TO NOTE IS SO THAT
21	ACCOUNTED, I WANT TO SAY THAT ACCOUNTED FOR ABOUT \$7
22	MILLION OF THAT GAP. FOUR MILLION OF IT WAS WE HAD
23	A MERITORIOUS AWARD FOR A CHALLENGE GRANT, WHICH THE
24	ICOC DECLINED, AND THAT WAS TWO MILLION, AND THEN WE
25	JUST DIDN'T OFFER A CHALLENGE GRANT, WHICH WAS

1	ANOTHER TWO MILLION. SO 4 MILLION OF IT WAS SORT OF
2	DECISIONS WE MADE, AND THEN \$7 MILLION OF THAT GAP
3	WAS THE LACK OF HIGH QUALITY PROJECTS. SO WE'LL
4	HAVE TO KEEP AN EYE ON IT.
5	DR. DIXON: THANKS.
6	DR. MELMED: THAT WAS A TERRIFIC REPORT.
7	CONGRATULATIONS.
8	I HAVE A COMMENT AND A QUESTION. MY
9	COMMENT IS I'M A LITTLE BIT CONCERNED ABOUT TOP-DOWN
10	DRIVING OF PEER REVIEWED DISCOVERY. AND WHEN YOU
11	SAY THAT WE EXPECT OR WE'RE PLANNING FOR 150
12	SUBMISSIONS FOR A CLINICAL PROGRAM, MAYBE WE SHOULD
13	BE FUNDING 50 PERCENT IN ONE YEAR IF THEY'RE
14	EXCELLENT AND NONE IN ONE YEAR IF THEY'RE NOT
15	EXCELLENT. SO IT'S THE PEER REVIEW PROCESS WHICH
16	SHOULD DRIVE THE AWARD RATHER THAN A TOP-DOWN BUDGET
17	OF A NUMBER OF CLINICAL GRANTS WHICH WE EXPECT TO
18	FUND. THAT'S A CONCERN.
19	AND MY QUESTION IS, MAYBE YOU'RE GOING TO
20	TALK ABOUT IT LATER, BUT CAN YOU GIVE US ANY UPDATE
21	ON THE ALPHA CLINICS BECAUSE THEY'RE AN IMPORTANT
22	COMPONENT OF THE CLINICAL PROGRAM?
23	DR. MILLS: SO TO THE FIRST COMMENT,
24	ABSOLUTELY. SO THE 150 APPLICATIONS TO MEET 50 ARE
25	ESTIMATES USING OUR HISTORICAL DATA AND SAYING WE'RE
	42

1	NOT GOING TO LOWER QUALITY, BUT THAT IS OVER THE
2	ENTIRE LIFE OF CIRM. THAT'S NOT THIS YEAR WE NEED
3	TO DO IT. IT'S JUST
4	DR. MELMED: WE BARELY GET 20 GOOD GRANTS
5	WHICH ARE SUPERB.
6	DR. MILLS: WE MIGHT, SO THAT'S WHY, AND
7	THIS IS ONE OF THE THINGS THAT WE TALK ABOUT WITH
8	GWG ALL THE TIME IS DON'T EVER MOVE A GRANT ALONG TO
9	TRY TO SAY WE HAVE ANOTHER NUMBER. SO THE GWG, OUR
10	REVIEW TEAMS INTERNALLY HAVE NO GOALS SET UP AROUND
11	THE NUMBER OF GRANTS THAT GET APPROVED. WE SET UP
12	THIS WALL AROUND THAT.
13	DR. MELMED: WHAT YOU JUST SAID NOW SHOULD
14	BE EMPHASIZED IN YOUR REPORT.
15	DR. MILLS: SO WE TALK ABOUT THAT A LOT,
16	BUT IT'S ALSO OUR ABILITY TO NOT BE A PASSIVE AGENCY
17	ANYMORE AND SIT BACK AND WAIT AND SAY, BOY, WE HOPE
18	WE GET SOME GOOD APPLICATIONS BECAUSE WE KNOW THERE
19	ARE GOOD CLINICAL PROGRAMS OR PROGRAMS NEARING THE
20	CLINIC OUT THERE THAT JUST DON'T KNOW CIRM EXISTS TO
21	HELP THEM. SO THAT'S WHERE WE'RE TRYING TO DO, WE
22	CALL IT HUNTING, FOR US TO GO OUT MORE AGGRESSIVELY
23	AND TRY TO BRING THOSE APPLICATIONS IN. WE HAVE
24	SOMETHING JAMES WOULD LOVE TO TALK TO YOU MORE ABOUT
25	IT, BUT WE'VE SET UP SOMETHING CALLED THE WALL
	42

1	INSIDE CIRM. AND THAT IS YOU CAN IMAGINE IT'S
2	SORT OF A STERILE ZONE.
3	THE PEOPLE THAT ARE RESPONSIBLE FOR TRYING
4	TO BRING GOOD PROGRAMS INTO CIRM ARE ALLOWED TO HAVE
5	NO CONTACT OR INFLUENCE OVER THE PEOPLE THAT REVIEW.
6	AND THE PEOPLE WHO REVIEW AREN'T INVOLVED WITH
7	BRINGING THEM IN. SO WE'VE REALLY SEPARATED THESE
8	TWO COMPONENTS. IT'S SEPARATION OF POWERS BECAUSE
9	WE DON'T WANT THERE TO BE INCENTIVE THAT WOULD
10	INADVERTENTLY DRIVE DOWN QUALITY BECAUSE, AGAIN, OUR
11	MISSION IS ULTIMATELY TO HELP PATIENTS. SO IF WE
12	DON'T HAVE GOOD QUALITY, WE MIGHT FEEL GOOD FOR A
13	LITTLE BIT IN THE SHORT TIME THAT THERE ARE BIG
14	NUMBERS, BUT THESE PROGRAMS HAVE TO ACTUALLY GO ON
15	AND WORK TOO. I APPRECIATE YOUR COMMENT.
16	WITH REGARDS TO ALPHA CLINICS, I DON'T
17	HAVE AN UPDATE HERE FOR ALPHA CLINICS. I'LL TELL
18	YOU THIS. WE HAVE 22 CLINICAL PROGRAMS RIGHT NOW
19	BEING RUN THROUGH THREE ALPHA CLINICS. OUR
20	PRELIMINARY ASSESSMENT IS WE LIKE THE WAY THAT
21	PROGRAM IS GOING. AND WE ARE PLANNING RIGHT NOW TO
22	COME IN DECEMBER AND ASK FOR AN ADDITIONAL
23	ALLOCATION TO CREATE TWO MORE ALPHA CLINICS TO
24	EXPAND THE NETWORK. BUT WE'LL HAVE MORE ON THAT
25	WHEN WE MAKE THAT PROPOSAL IN DECEMBER.
	4.4

1	DR. DEAS: SO I REALLY THINK THAT THE
2	STRATEGY OF STIMULATING THE RESEARCH GRANTS IS A
3	GOOD ONE. AS YOU SAID, THERE MAY BE SCIENTISTS OUT
4	THERE WHO REALLY DON'T KNOW ABOUT WHAT CIRM DOES,
5	AND THEY MAY HAVE ONGOING RESEARCH PROJECTS THAT
6	THEY MAY FEEL IS JUST NOT THE RIGHT TIME. BUT IF WE
7	STIMULATE THAT, PERHAPS THEY DO SUBMIT SOMETHING AND
8	IT MAY NOT MEET THAT CRITERIA FOR MERITORIOUS AWARD
9	AT THAT POINT; BUT BY THE TIME THEY COME AROUND
10	AGAIN, IT WILL. AND I THINK THAT STRATEGY IS A GOOD
11	ONE TO FILL THAT PIPELINE.
12	DR. MILLS: YEAH. ABSOLUTELY. AND A LOT
13	OF THE WAY WE'VE SET UP REVIEW, PARTICULARLY IN
14	CLINICAL REVIEW, WE'VE SET IT UP WHERE OUR SCORING
15	SYSTEM IS 1, YEAH, YOU SHOULD GET APPROVED; 3, THIS
16	IS REALLY, REALLY A LONG WAY OFF, AT LEAST SIX
17	MONTHS OFF FROM GETTING RECONSIDERED; OR, 2, IT'S A
18	GOOD CONCEPT, BUT WE HAVE SOME QUESTIONS ABOUT IT.
19	WE HAVE SOME IDEAS WHERE WE THINK IT COULD BE MADE
20	BETTER, AND WE WANT TO APPROVE 95S NOT 75S. AND SO
21	WE'VE ACTUALLY SET UP A SYSTEM IN OUR SCORING TO
22	ALLOW THAT.
23	WITH REGARDS TO YOUR COMMENT ABOUT
24	OUTREACH, WE HAVE SORT OF TWO DIFFERENT PROBLEMS
25	WHEN IT COMES TO COMMUNICATION EXTERNALLY. ONE IS

1	PEOPLE JUST DON'T KNOW OF CIRM, AND THERE'S A LOT OF
2	PEOPLE THAT FALL INTO THAT BUCKET. THEY JUST DON'T
3	KNOW THE PROGRAMS AVAILABLE. THE SECOND ARE PEOPLE
4	THAT DID KNOW CIRM, BUT THEY KNEW THE 1.0 VERSION OF
5	CIRM AND THEY DON'T KNOW THAT THE NEW SYSTEM IS
6	BETTER AND EASIER TO USE AND THINGS LIKE THAT.
7	THAT'S WHY, AS I SAY, WE TAKE THAT VERY SERIOUSLY.
8	SO THIS WHOLE GROUP OF PEOPLE IS GOING TO BE GOING
9	OUT AND DOING LOTS AND LOTS OF OUTREACH,
10	BOTH ACADEMIC AND INDUSTRY, TO MAKE SURE WE GET THIS
11	WORD OUT.
12	CHAIRMAN THOMAS: SO, RANDY, FIRST OF ALL,
13	JUST WANT TO MAKE SURE THE BOARD FULLY APPRECIATES
14	JUST WHAT A GREAT PROGRAM WE'VE GOT GOING HERE AND
15	HOW ALL ASPECTS HAVE BEEN LOOKED AT AND IMPROVED.
16	AND THE AGENCY AND YOU SHOULD ALL FEEL GREAT ABOUT
17	THIS. IT'S REALLY SMOKING ALONG. AND IT'S ALL DUE
18	TO RANDY AND TO THE TEAM, THE VISION, THE
19	IMPLEMENTATION, ETC. SO I JUST WANT TO CONGRATULATE
20	YOU, RANDY, AND ALL MEMBERS OF CIRM ON THE TERRIFIC
21	JOB THAT ALL OF YOU GUYS ARE DOING. THAT'S POINT
22	NO. 1.
23	POINT NO. 2, RANDY, PERHAPS FOR DR.
24	MELMED'S BENEFIT, YOU NOTED THAT THERE ARE 22
25	PROGRAMS IN THE ALPHA CLINICS RIGHT NOW. JUST TO

1	SHOW YOU HOW THAT IS EXCEEDING EXPECTATIONS, YOU
2	MIGHT JUST TELL THE BOARD WHAT NUMBER YOU ASSUMED
3	MIGHT HIT THE FIRST YEAR THAT THE ALPHA CLINICS WERE
4	UP AND RUNNING.
5	DR. MILLS: CAN I PHONE A FRIEND?
6	DR. MILLAN: SO WHEN WE SET UP THE ALPHA
7	CLINICS PROGRAM, WHAT WE WERE TARGETING AT THAT TIME
8	IS TO BRING IN AT LEAST SIX PROGRAMS, AND THAT THAT
9	AT THAT TIME WE FELT WAS VERY AMBITIOUS. SO THAT
10	JUST REFLECTS THE ACTIVITY, AND IT'S EXCEEDED OUR
11	EXPECTATIONS IN TERMS OF THEIR CAPACITY TO SUPPORT
12	THE TRIALS AS WELL AS NUMBERS COMING IN.
13	CHAIRMAN THOMAS: THANK YOU. I JUST
14	WANTED TO MAKE SURE THE BOARD WAS AWARE OF THAT. SO
15	THAT'S THREE AND A HALF X OF WHAT WAS ANTICIPATED,
16	AND THAT ANTICIPATED NUMBER WAS BOLD. SO SOMETHING
17	ELSE WE SHOULD FEEL VERY GOOD ABOUT. I'M SURE WE'LL
18	HEAR IN MORE DETAIL IN DECEMBER WHEN RANDY COMES
19	BACK WITH THE ITEM HE NOTED.
20	LASTLY, RANDY, FOR THE BOARD'S BENEFIT,
21	ONE OF THE THINGS THAT DISTINGUISHES CIRM FROM
22	VIRTUALLY EVERY OTHER GRANTMAKING ENTITY IS THE
23	CONTINUED PARTICIPATION AND HELP IN REFINING THE
24	PROJECTS. AND YOU REFERRED TO ACTIVE AWARD
25	MANAGEMENT. I THINK THE BOARD WOULD BE INTERESTED
	47

1	TO HEAR A LITTLE DRILLING DOWN ON THAT SO THEY ALL
2	APPRECIATE JUST EXACTLY WHAT THAT MEANS AND WHY IT'S
3	SO VERY HELPFUL.
4	DR. MILLS: SO WE DO IT IN A NUMBER OF
5	DIFFERENT WAYS, AND IT DEPENDS ON THE STAGE OF
6	PROGRAM THAT EXISTS. SO IN THE EARLIER STAGE
7	PROGRAMS, GRANTS MANAGEMENT AND A SCIENCE OFFICER,
8	GRANTS MANAGEMENT OFFICER, A SCIENCE OFFICER WILL
9	PAIR UP AND ACTIVELY RIDE OVER AN AWARD. THEY'LL
10	GET PROGRESS REPORTS; THEY'LL VALIDATE THOSE
11	PROGRESS REPORTS. IT'S PROGRESS BEING MADE. IT'S
12	NOT TO COME UP WITH COURSE CORRECTION STRATEGIES TO
13	GET THEM BACK ON AND THAT LIKE. WE HAVE THAT
14	ACTUALLY FOR EVERY PROGRAM.
15	FOR OUR CLINICAL STAGE PROGRAMS, WE ALSO
16	HAVE INTRODUCED SOMETHING ELSE, WHICH IS MUCH
17	BIGGER. THESE ARE BIG AWARDS, SO THESE ARE TENS OF
18	MILLIONS OF DOLLARS TYPES OF AWARDS WHERE THEY'RE
19	RUNNING CLINICAL TRIALS. AND THERE WE'VE INSTITUTED
20	THE CAP PROGRAM, THE C-A-P PROGRAM, WHICH IS THE
21	CLINICAL ADVISORY PANEL, WHICH IS MADE UP OF AT
22	LEAST TWO PEOPLE INTERNALLY FROM CIRM, AT LEAST TWO
23	SUBJECT MATTER EXPERTS ON WHATEVER THE MAJOR ISSUES
24	ARE ASSOCIATED WITH THE TRIAL THAT'S BEING RUN, AND
25	THEN AT LEAST ONE PATIENT WHO HAS THAT OR IS
	4.0

1	DIRECTLY AFFECTED BY THAT DISEASE OR CONDITION. AND
2	THOSE WORK TOGETHER. AND THEY ARE PURELY, AND THIS
3	IS REALLY IMPORTANT, THEY ARE PURELY ADVOCATES FOR
4	THE TRIAL. SO THEIR JOB IS TO TRY TO DO ABSOLUTELY
5	EVERYTHING THEY CAN TO MAKE THAT PROGRAM SUCCESSFUL.
6	THE REASON I SAY PURELY IS BECAUSE IT'S
7	REALLY IMPORTANT THAT THE CAP DEVELOP A VERY GOOD
8	AND TRUSTING RELATIONSHIP WITH THE INVESTIGATORS.
9	SO OUR BAD COPS, OUR LEGAL TEAM AND/OR GRANTS
10	MANAGEMENT TEAM, AREN'T INVITED TO CAP MEETINGS.
11	THEY COME IN LATER WHEN THERE ARE ISSUES ASSOCIATED
12	WITH IF AN AWARD NEEDS TO SCALED BACK OR CANCELED OR
13	TERMINATED. SO THE CAP IS PURELY AN ADVOCACY GROUP
14	FOR IT.
15	AND SO IT'S VERY DIFFERENT. IT'S WHAT WE
16	CALL FULL CONTACT CIRM. THE IDEA IS WE WILL DO
17	EVERYTHING AND ANYTHING WE CAN TO HAVE THESE
18	PROGRAMS ULTIMATELY BE SUCCESSFUL.
19	MS. WINOKUR: I JUST WANT TO INCLUDE
20	SOMETHING ABOUT THE REVIEW PROCESS AND HOW FORTUNATE
21	WE ARE TO HAVE THE SCIENTIFIC REVIEW COMMITTEE BE AS
22	IMPRESSIVE AS IT IS AND BE WILLING TO SPEND THE TIME
23	THAT THEY DO ON EVALUATING THESE PROPOSALS ON A
24	SCIENTIFIC BASIS.
25	DR. MILLS: IT'S A VERY GOOD POINT. WHEN
	49

1	WE TALK ABOUT HAVING 20 REVIEWS, THERE ARE 15
2	EXTERNAL MEMBERS TO CIRM THAT HAVE TO ALSO SIT ON
3	THOSE REVIEWS AND 7 INTERNAL PATIENT ADVOCATES THAT
4	SIT ON THAT REVIEW. SO IT IS A BIG GROUP TO HAVE TO
5	GET TOGETHER THAT MANY TIMES AND TO BE ABLE TO
6	MAINTAIN THAT GROUP AT THAT QUALITY. I AGREE. I
7	THINK OUR GWG IS ONE OF THE MOST IMPRESSIVE ASSETS
8	WE HAVE AT CIRM.
9	MR. SHEEHY: SO I JUST WANT TO COMMEND THE
10	ENTIRE CIRM TEAM. I MEAN IT'S AMAZING WORK THAT
11	THEY'VE DONE OVER THE LAST YEAR. IT'S IMPRESSIVE.
12	ALSO I WANTED TO ASK ABOUT THE BIG SIX.
13	WE HAVE FEEDBACK ON WHERE WE ARE IN TERMS OF THE
14	TARGETS YOU HAVE FOR THOSE?
15	DR. MILLS: SO THE BIG SIX IS SOMETHING
16	INTERNALLY THAT WE MEASURE ALWAYS. AND SO I'LL JUST
17	ROUGHLY BREAK DOWN HOW WE DO THAT. SO THE BIG SIX
18	ARE THROUGH 2020. WE THEN HAVE SOMETHING CALLED THE
19	BIG SIX 2016. THAT IS, WHAT PORTIONS OF THOSE
20	PROGRAMS HAVE TO GET DONE THIS YEAR IN ORDER FOR US
21	TO BE ON TRACK TO HIT THAT GOAL.
22	WE THEN HAVE THAT BROKEN DOWN BY QUARTER.
23	SO EVERY QUARTER AS AN ORGANIZATION WE GET TOGETHER
24	AND WE GO THROUGH THOSE BIG SIX GOALS, HOW WE DID
25	PREVIOUSLY, WHAT WE PLAN TO DO THE NEXT QUARTER

1	GOING FORWARD. BEYOND THAT, THOSE BIG SIX GOALS FOR
2	EACH QUARTER ARE THEN BROKEN DOWN INTO THE EIGHT
3	UNITS THAT MAKE UP CIRM. GRANTS MANAGEMENT HAS ITS
4	OWN SET OF GOALS FOR THAT QUARTER. CLINICAL,
5	DIAGNOSTIC, LEGAL, THEY ALL HAVE THEIR OWN. THERE
6	ARE BIG POSTERS AND THEY COLOR THEM IN AS THEY MAKE
7	PROGRESS ON THEM. ALL OF THOSE GOALS ROLL UP INTO
8	THE QUARTER, AND ALL OF THE QUARTERS ROLL UP INTO
9	THE YEAR, AND THE YEAR ROLLS UP INTO 2016.
10	GOING BACK SPECIFICALLY TO YOUR QUESTION
11	ABOUT THE BIG SIX, SO THAT'S HOW WE MONITOR IT. FOR
12	SOME OF THE BIG SIX GOALS WE CAN MEASURE DIRECTLY.
13	NUMBER OF CLINICAL TRIALS THAT WE BRING IN, RIGHT,
14	THAT'S JUST SOMETHING WE CAN MEASURE DIRECTLY. WE
15	NEED 50; WE HAVE THREE IN SO FAR.
16	NUMBER OF NEW CANDIDATES INTO DISCOVERY
17	AND TRANSLATION, WE WANTED 50; WE HAVE 13 SO FAR.
18	SO PAT'S A BIG BELIEVER IN THIS 3X PHENOMENA.
19	WHATEVER YOUR GOAL IS ACHIEVE IT THREEFOLD. FOR
20	OTHER ONES, THOUGH, WE'RE NOT ABLE TO MEASURE THEM
21	YET. SO WE WANT TO REDUCE TRANSLATION TIME FROM
22	EIGHT YEARS DOWN TO FOUR YEARS. WE'RE ONLY SEVEN
23	MONTHS INTO IT, SO WE HAVE NO ABILITY TO MEASURE.
24	SO WE START MEASURING COMPONENTS OF THAT WHICH WILL
25	ADD UP AS SURROGATES GO INTO THAT.

1	SO I DON'T WANT TO STEAL TOO MUCH OF THE
2	DECEMBER MEETING, BUT THE DECEMBER MEETING WILL BE A
3	FULL RECONCILIATION OF THE STRATEGIC PLAN, HOW WE
4	DID IN '16, AND WHAT WE'RE DOING IN '17, AND HOW
5	THOSE LINES ALL CONNECT OUT. AND THAT'S WHERE THE
6	BUDGETING COMES IN AS WELL, HOW WE MATCH UP THAT
7	BUDGET, AND THE DECISIONS WE HAVE TO MAKE THERE.
8	IT'S BEING MEASURED, AND IN THE DECEMBER MEETING IT
9	WILL BE ALL SHOWN.
10	CHAIRMAN THOMAS: ANNE-MARIE.
11	DR. DULIEGE: SO YOU KNOW I'M A BIG
12	ADVOCATE OF ALL THE STRATEGIC INITIATIVES YOU'VE
13	BEEN TAKING OVER THE PAST FEW YEARS. SO THANK YOU
14	TO ENTIRE TEAM.
15	WILL YOU TALK MORE TODAY ABOUT YOUR
16	INTERACTIONS WITH THE FDA, AND I'M HOPEFUL YOU ARE,
17	THAT THAT INFLUENCED DRASTICALLY THE FIELD. BECAUSE
18	IT'S QUITE COURAGEOUS. YOU PEOPLE GO AT THE TABLE
19	WITH THE IDEA AND SAY YOU SHOULD BE DOING THIS
20	BETTER, OBVIOUSLY IN A VERY DIPLOMATIC FASHION, BUT
21	VERY COURAGEOUS AND I WANT TO APPLAUD YOU FOR THAT
22	AS WELL.
23	DR. MILLS: THANK YOU. I WAS ABLE TO GET
24	A MEETING WITH THE HEAD OF THE FDA, BOB CALIFF, AND
25	HE'S RELATIVELY NEW TO THE AGENCY. AND I'D HEARD,

1	LIKE, YOU KNOW, THE FDA IS GOING TO BE UPSET. YOU
2	WROTE A PIECE THAT MIGHT NOT HAVE BEEN PARTICULARLY
3	GLOWING OR THIS OR THAT. THEY ARE THERE AT THAT
4	LEVEL BECAUSE THEY ARE PROFESSIONALS, JUST LIKE WE
5	ARE PROFESSIONALS. SO WE SIT DOWN AND WE HAVE A
6	CONVERSATION ABOUT COMMON OBJECTIVES AND HOW WE GET
7	THERE. AND THEN WE HAVE DIFFERENCES ON MAYBE HOW
8	THE BEST WAY IS, BUT I FOUND DR. CALIFF TO BE
9	REMARKABLY ENGAGING. I BELIEVE HE IS VERY HANDS-ON.
10	I FEEL HE IS REALLY LISTENING AND HE REALLY WANTS
11	THE BEST OUTCOME. I DON'T THINK THIS IS AN FDA THAT
12	HAS THE ANSWER MADE UP AND NOW THEY'RE JUST GOING TO
13	GO ASK THE QUESTION. I THINK THEY ACTUALLY ARE
14	THINKING AND FORMULATING.
15	SIMILARLY, I THINK IT WAS LAST WEEK THERE
16	WAS A MUCH BIGGER MEETING AT FDA WHERE THERE WAS A
17	HUNDRED OR SO PARTICIPANTS INVITED, AND WE SPOKE
18	THERE. AND I THINK THE SAME THING TOO. HAVING GONE
19	THROUGH THOSE EXPERIENCES, IT MAY SEEM LIKE THERE'S
20	SO MUCH VOLUME, THAT THERE'S NO WAY THE FDA COULD BE
21	LISTENING, BUT THEY REALLY DO LISTEN TO THOSE
22	COMMENTS.
23	CHAIRMAN THOMAS: OKAY.
24	DR. MILLS: ONE MORE TOPIC. THIS IS JUST
25	THE LAST ONE. AND, AGAIN, THIS UNFORTUNATELY IS

1	GOING TO BE A DISCUSSION TOPIC.
2	BUT AS I SAID, AS WE WERE REVIEWING
3	CERTAIN CLINICAL APPLICATIONS, THERE WERE SOMETIMES
4	QUESTIONS THAT CAME UP WHERE MEMBERS OF THE BOARD
5	SEEMED SURPRISED THAT SOMETHING MIGHT BE IN SCOPE OR
6	IS THAT THE TYPE OF THING WE WOULD FUND, OR DO WE
7	NOT HAVE RESTRICTIONS ON IT. SO I WANTED TO REALLY
8	GO OVER WHAT OUR CLINICAL PROGRAM IS IN ITS CURRENT
9	FORM AND SEE IF THERE IS ANY CONSENSUS OF THE BOARD
10	THAT YOU MIGHT WANT US, NOT TODAY, BUT TO BRING BACK
11	POTENTIAL OR PROPOSED CHANGES.
12	SO WITH REGARDS TO CLINICAL, WE HAVE THREE
13	DIFFERENT CLINICAL PROGRAMS. CLINICAL 1 OR CLIN1
14	STARTS FROM A PRE-IND MEETING. SO YOU HAVE TO HAVE
15	A PRE-IND MEETING. THAT'S THE PREREQUISITE. AND IT
16	ENDS WHEN YOU GET YOUR IND APPROVED FROM FDA. WE
17	ANTICIPATE THAT TO BE ABOUT 18 MONTHS. WE DON'T
18	LIKE IT WHEN PEOPLE TAKE LONGER BECAUSE WE NEED TO
19	GET THOSE GOALS DOWN BECAUSE WE NEED TO MEET OUR
20	ACCELERATION GOAL.
21	IF YOU'RE SUCCESSFUL CLIN1 OR YOU JUST
22	HAPPEN TO HAVE AN IND, THEN YOU CAN APPLY FOR CLIN2
23	GRANTS. A CLIN2 GRANT IS ANY CLINICAL TRIAL OF ANY
24	PHASE, SO PHASE I, II, OR III, OR ANY HYBRID IN
25	BETWEEN.

1	AND THEN WE HAVE A CLIN3 PROGRAM. CLIN3
2	IS WHEN, AND THESE SHOULD BE RARE AND UNIQUE
3	CIRCUMSTANCES, WHEN THERE IS AN ACCELERATING
4	ACTIVITY OR AN OPPORTUNITY THAT COMES UP THAT IS
5	JUST NOT FORESEEN WHEN THE ORIGINAL APPLICATION'S
6	PROPOSED, THEN YOU CAN COME BACK AND APPLY FOR AN
7	ACCELERATING ACTIVITY. CLIN3 APPLICATIONS, AND THIS
8	IS WHAT WE'RE STRUGGLING WITH, ARE NOT CONTINGENCY
9	PLANS. CLIN3 IS NOT SUPPOSED TO BE WE DIDN'T DO A
10	GOOD JOB DESIGNING OUR CLIN2, SO NOW WE WANT A
11	CLIN3. IT REALLY NEEDS TO BE AN UNUSUAL
12	CIRCUMSTANCE WHERE WE SAY UNUSUAL EFFICACY, AND IF
13	WE EXPAND THIS COHORT, WE CAN MAKE THIS PHASE II
14	TRIAL A REGISTRATION TRIAL, THAT KIND OF THING.
15	SO THOSE ARE THE THREE PROGRAMS. WE OFFER
16	THEM 12 TIMES A YEAR. THESE ARE PROGRAMS WHERE THEY
17	ARE NOT RATED AGAINST ONE ANOTHER. ANYTHING THAT'S
18	FOUND TO BE MERITORIOUS THROUGH THE REVIEW PROCESS
19	IS FORWARDED ON TO THE ICOC FOR APPROVAL.
20	THE SCOPE OF THESE GRANTS, AGAIN, HAS TO
21	BE YOU HAVE TO HAVE A PRE-IND MEETING THROUGH ANY
22	STAGE OF THE CLINICAL TRIAL. THERAPIES THAT ARE IN
23	PLAY ARE ANY STEM CELL OR PROGENITOR CELL
24	THERAPEUTIC CANDIDATE. SO THE BIG WORD HERE IS
25	PROGENITOR CELL. THIS IS ACTUALLY PART OF
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1	PROPOSITION 71. THIS ISN'T SOMETHING THAT WE CAME
2	UP WITH. PROGENITOR CELL IS A REALLY BIG WORD.
3	PROGENITOR CELLS CAN BE TRULY CELLS THAT GO ON AND
4	LOOK A LOT LIKE STEM CELLS. A PROGENITOR CELL CAN
5	BE A MONOCYTE TURNING INTO A MACROPHAGE OR A B CELL
6	TURNING INTO A PLASMA CELL. THOSE ALL FIT WITHIN
7	THE DEFINITION OF PROGENITOR CELL. SO THIS IS A
8	BIG, BIG WIDE SCOPE TO ENTER.
9	SECOND ONE IS HEMATOPOIETIC CELLS, SO
10	THESE ARE THINGS LIKE BONE MARROW OR CORD BLOOD, BUT
11	HERE THEY HAVE TO BE BEING DEVELOPED IN A WAY WHERE
12	THEY'RE ADDRESSING A NOVEL OR RARE CONDITION OR AN
13	UNMET MEDICAL NEED. SO WE WOULDN'T DO HEMATOPOIETIC
14	CELLS WE WOULDN'T DO BONE MARROW FOR BONE MARROW
15	TRANSPLANT IN SOMEONE WITH AML. THAT'S A KNOWN
16	THING. IT WOULD HAVE TO BE AN UNUSUAL INDICATION,
17	CORD BLOOD INTO BABIES WITH CEREBRAL PALSY, FOR
18	EXAMPLE.
19	AND THEN, LASTLY, AND THIS IS ONE THAT
20	KIND OF SURPRISES PEOPLE, SMALL MOLECULES, SO ANY
21	SYNTHETIC DRUG, ANY BIOLOGIC, PROVIDED THAT IT
22	TARGETS STEM CELLS, AND THEY'RE NOT LIKELY TO
23	RECEIVE FUNDING FROM OTHER SOURCES. ALTHOUGH I'LL
24	TELL YOU THAT SPECIFIC LINE IS REALLY, REALLY,
25	REALLY SUBJECTIVE AND DIFFICULT FOR US TO ENFORCE OR

1	DETERMINE. AND THESE APPLICANTS CAN BE FROM
2	OUT-OF-STATE OR THEY CAN BE FROM IN STATE FOR THE
3	CLINICAL STAGE PROGRAMS. IF THEY'RE FROM
4	OUT-OF-STATE, WE ONLY FUND THE PORTION OF THE TRIAL
5	THAT'S CONDUCTED AT SITES WITHIN CALIFORNIA. SO WE
6	JUST BASICALLY PRORATE THE TRIAL. IF THEY HAVE A
7	HUNDRED PATIENTS AND THEY PUT 25 OF THEM IN
8	CALIFORNIA LOCATIONS, THEN WE CAN COVER 25 PERCENT.
9	AND THEN, LASTLY, THESE PROGRAMS ARE OPEN
10	TO NONPROFIT AND FOR-PROFIT. DEPENDING ON THE STAGE
11	OF DEVELOPMENT, THERE ARE DIFFERENT CO-FUNDING
12	REQUIREMENTS. SO PRECLINICAL AND PHASE I, WE HAVE
13	NO COFUNDING REQUIREMENT FOR NONPROFIT INSTITUTIONS.
14	WE WILL COVER 100 PERCENT OF THE COST. A FOR-PROFIT
15	IN PRECLINICAL, WE'LL COVER 20 PERCENT THEY'LL
16	COVER, I'M SORRY, 20 PERCENT, WE'LL COVER 80
17	PERCENT. WE'LL COVER 70 PERCENT OF A PHASE I. ONCE
18	WE GET TO PHASE II, THEY MATCH UP. AND THAT'S
19	BECAUSE WE REALLY DON'T WANT TO DISINCENTIVIZE THESE
20	TECHNOLOGIES FROM GETTING PARTNERED OUT WITH
21	INDUSTRY PARTNERS AS THEY GO TOWARDS CRITICAL
22	REGISTRATION TRIALS. SO THE PHASE II PARTNERING OR
23	MATCHING FUND REQUIREMENT IS 40 PERCENT FOR BOTH.
24	IT'S 50 PERCENT FOR BOTH FOR PHASE IIIS. AND IF WE
25	AWARD A CLIN1, AND I DON'T THINK WE'VE EVER ACTUALLY

1	AWARDED A CLIN1 YET, BUT IF WE WERE TO AWARD A
2	CLIN1, IT WOULD CARRY THE SAME FUNDING REQUIREMENT
3	AS THE PARENT AWARD I'M SORRY CLIN3, IF WE
4	WERE TO OFFER A CLIN3, IT WOULD HAVE TO HAVE THE
5	SAME MATCHING FUND REQUIREMENT AS THE PARENT AWARD.
6	EVERY CLIN3 HAS TO HAVE A PARENT AWARD. IT'S A
7	PREREQUISITE.
8	AND THEN, LASTLY, SOLVENCY HAS TO BE
9	DEMONSTRATED. SO THERE IS NO TOO BIG TO APPLY TO
10	CIRM. THIS IS ONE OF THE QUESTIONS THAT CAME UP.
11	THERE IS TOO SMALL TO APPLY TO CIRM. SO IF YOU
12	CAN'T DEMONSTRATE SOLVENCY, AND FOR US THESE AWARDS,
13	THAT'S 180 DAYS OF CASH AT YOUR RUN RATE ON HAND AT
14	THE TIME OF THE AWARD, THEN YOU'RE NOT ELIGIBLE FOR
15	THE AWARD, BUT THERE IS NO UPPER LIMIT TO THAT.
16	SO THAT'S WHAT I WANTED TO THROW OUT TO
17	STIMULATE THE DISCUSSION TO SEE IF THERE WAS
18	ANYTHING THERE NOW THAT WE DON'T HAVE GRANTS IN
19	FRONT OF US, WE DON'T HAVE SPECIFIC APPLICATIONS.
20	IS THERE ANYTHING ABOUT THIS THAT DOESN'T SIT WELL
21	WITH PEOPLE OR WE WANT TO ASK QUESTIONS ABOUT OR YOU
22	WANT TO GIVE TO US TO CONSIDER TO COME BACK?
23	DR. JUELSGAARD: JUST TO THAT VERY LAST
24	COMMENT ABOUT NOT TOO BIG TO FAIL, SORT OF IN OTHER
25	WORDS, WITH RESPECT TO AN APPLICATION, IS THAT A

1	STUDIED DECISION THAT'S BEEN MADE, ONE THAT'S BEEN
2	THOUGHT THROUGH, AND THE DECISION IS IT DOESN'T
3	MATTER WHETHER IT'S A VERY SMALL COMPANY OR WHETHER
4	IT'S JOHNSON & JOHNSON AND ASTRA ZENECA OR SOMEBODY
5	LIKE THAT?
6	DR. MILLS: JAMES MAY WANT TO CHIME IN
7	HERE AS WELL. BUT WE JUST HISTORICALLY HAVEN'T SEEN
8	THE LARGER APPLICANTS COME IN FOR ANY OF THESE KINDS
9	OF CLINICAL TRIALS. WE HAVE SEEN THEM IN TOOLS AND
10	TECH AREAS, AND THOSE ARE LIKELY THINGS THAT THEIR
11	COMPANIES WOULDN'T HAVE FUNDED THEM TO DO UNLESS FOR
12	CIRM. I THINK FOR US, AND MY CONCERN CAPPING THIS
13	COMPANY IS TOO BIG, IS IT'S CERTAINLY POSSIBLE THAT
14	A LARGE COMPANY THAT COULD RUN A TRIAL COMPETENTLY
15	WOULDN'T RUN IT UNLESS IT COULD GET FUNDING FOR IT
16	SOMEWHERE ELSE. THEY WOULDN'T ALLOCATE THOSE
17	DOLLARS. THAT MIGHT BE BECAUSE IT'S A PARTICULARLY
18	ORPHAN DISEASE OR IT'S A TECHNOLOGY THAT THEY'RE NOT
19	PARTICULARLY COMFORTABLE WITH. BUT IF WE WERE TO
20	DRAW A LINE AND SAY YOU'RE TOO SOLVENT TO COME TO
21	CIRM, I WOULDN'T KNOW WHERE TO BEGIN TO DRAW THAT
22	LINE.
23	MR. HARRISON: I THINK RANDY SUMMARIZED IT
24	ACCURATELY. I DON'T HAVE ANYTHING TO ADD TO THAT.
25	IT WOULD BE A VERY DIFFERENT LINE DRAWING EXERCISE,
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1	SO WE HAVEN'T UNDERTAKEN IT.
2	DR. MILLS: I WOULD ALSO SAY, AS SMOOTH
3	AND STREAMLINED AS WE'VE MADE THIS PROCESS, IT'S
4	FAIRLY CUMBERSOME. SO THERE'S A LITTLE BIT OF
5	SELECTION, AND YOU HAVE TO DO A LOT OF DIFFERENT
6	THINGS TO COMPLY WITH OUR WE HAVE A LOT OF
7	PRICING ACCESS REQUIREMENTS, ALL OF THAT STUFF THAT
8	COMES ALONG, AND THEY HAVE TO REPAY IT.
9	DR. LUBIN: RANDY, FIRST OF ALL, THE TOTAL
10	REPORT WAS PHENOMENAL. I MEAN CONGRATULATIONS TO
11	ALL OF YOU. I'M LOOKING AT THIS THINKING IF I EVER
12	MADE A REPORT LIKE THIS TO MY BOARD IN AS CLEAR A
13	WAY, CLEAR A FASHION, SO I LEARNED A GREAT DEAL FROM
14	YOUR PRESENTATION TODAY.
15	DR. MILLS: I'LL GIVE YOU THE TEMPLATE.
16	DR. LUBIN: I WAS CURIOUS ABOUT HOW YOU'RE
17	GOING TO BRING THIS OUT TO THE MARKET. LIKE YOU
18	HAVE A TRAVELING TEAM NOW. WHO YOU'RE GOING TO GO
19	TO. ARE YOU GOING TO TELL EVERYBODY THAT
20	POTENTIALLY COULD DO ANYTHING IN THE STATE OF
21	CALIFORNIA YOU HAVE THIS TRAVELING TEAM AND WOULD
22	THEY LIKE TO HEAR FROM YOU? BECAUSE LIKE THAT COULD
23	BE AN OVERWHELMING NUMBER OF PEOPLE THAT MIGHT LIKE
24	TO HEAR ABOUT IT. I WAS JUST CURIOUS WHAT YOUR
25	STRATEGY FOR THAT IS.

1	DR. MILLS: MARIA OR KEVIN, WHOEVER WANTS
2	TO SUMMARIZE FROM THE TRAVELING TEAM.
3	MS. BONNEVILLE: WE DECIDED WE WOULD
4	APPROACH IT, DIVIDE UP THE STATE, AND APPROACH IT
5	WITH TWO DIFFERENT AUDIENCES IN MIND, BOTH THE
6	ACADEMIC GROUP AND THE INDUSTRY GROUP. AND WE'RE
7	GOING TO DIFFERENT RESEARCH ORGANIZATIONS THROUGHOUT
8	THE STATE STARTING TODAY. WE'RE GOING TO HAVE ONE
9	AFTER THIS MEETING FOR THE ACADEMIC FOLKS IN SAN
10	DIEGO. HOW MANY DID WE HAVE RSVP FOR TODAY? I
11	THINK WE HAVE 60 PEOPLE RSVP FOR TODAY.
12	DR. LUBIN: A TOWN HALL AND INVITE
13	EVERYBODY, AND THEN THOSE THAT COME HERE
14	MS. BONNEVILLE: YES. WE HAVE
15	PRESENTATIONS BASED ON THE DIFFERENT PROGRAMS WE
16	HAVE AVAILABLE FOR FUNDING. AND THEN ALSO THE GRANT
17	REVIEW PROCESS, SO THE HOW THE GWG WORKS. AND THEN
18	OUR GRANTS MANAGEMENT PROCESS, HOW CONTRACTING
19	WORKS. SOME LEGAL ELEMENTS THAT NOT ALL OF OUR
20	GRANTEES ARE AWARE OF. SO HOPEFULLY SHEDDING SOME
21	LIGHT ON THAT WILL HELP THEM THROUGHOUT. AND ALSO,
22	THEN, SOME OF THE OTHER PROGRAMS LIKE THE ATP3
23	THAT'S COMING UP AND THE ACCELERATING CENTER.
24	DR. LUBIN: I'M SURE YOU'RE GOING TO DO
25	THIS, GET SOME FEEDBACK FROM EACH OF THESE ABOUT HOW
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1	YOU DID IT AND WHETHER THEY LIKED IT AND WHAT WAY
2	YOU COULD DO IT BETTER.
3	MS. BONNEVILLE: YES. WE'LL BE IN LOS
4	ANGELES TOMORROW. WE WILL BE AT UCLA AND USC, AND
5	THEN IN THE EVENING WE'LL BE HAVING AN INDUSTRY
6	EVENT DOWNTOWN L.A. NEXT WEEK WE'LL BE IN THE BAY
7	AREA, AND WE WILL DO IT AS OFTEN AND AS IS
8	NECESSARY.
9	DR. LUBIN: SO HOW DID YOU SEND OUT THE
10	NOTICES? WHO DID YOU SEND THEM TO?
11	MS. BONNEVILLE: WE SENT THEM TO EVERYONE
12	ON OUR E-MAIL LIST. WE DID TWITTER, FACEBOOK. WE
13	CONTACTED THE RESEARCH INSTITUTES THEMSELVES AND HAD
14	THEM SEND OUT NOTICES TO ALL OF THEIR RESEARCHERS.
15	SO WE DID A PRETTY BIG PUSH.
16	DR. LUBIN: DOES THE BOARD GET A COPY OF
17	WHAT YOU SENT OUT?
18	MS. BONNEVILLE: YOU SHOULD HAVE RECEIVED
19	A COPY.
20	DR. DULIEGE: IS IT THE SAME THING AS WE
21	RECEIVED FROM KEVIN AS EXACTLY?
22	MS. BONNEVILLE: YES.
23	DR. DULIEGE: SO KEVIN SENT TO ALL OF US
24	RECENTLY, AND I WANT TO APPLAUD THAT EFFORT, THE
25	LIST OF EVENTS IN OUR AREA. AND REALLY THERE'S
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1	SEVERAL, SO I PLAN TO ATTEND THE ONE IN SOUTH SAN
2	FRANCISCO WITH THE CLSA, THE CALIFORNIA LIFE
3	SCIENCES ASSOCIATION, BUT THERE'S A VARIETY OF
4	OTHERS. THAT'S GREAT. IT'S VERY EASY REALLY TO
5	ATTEND.
6	DR. DEAS: IF WE WOULD LIKE TO HAVE AN
7	EVENT IN OUR AREA, I KNOW YOU'RE IN L.A., BUT IN THE
8	INLAND EMPIRE, THAT WOULD REALLY BE GOOD TO HAVE
9	THAT.
10	MS. BONNEVILLE: ABSOLUTELY. SURE.
11	DR. MILLS: I WAS IN KANSAS LAST FRIDAY
12	AND SOMEBODY SAID, "HEY, I HEAR YOU'RE HOLDING A
13	STEM CELL MEETING AT STANFORD NEXT WEEK." AND I
14	SAID, "REALLY?" I DIDN'T THINK IT WAS NEXT WEEK.
15	IT WASN'T NEXT WEEK FORTUNATELY, BUT WORD'S GETTING
16	OUT.
17	MR. SHEEHY: SO I ACTUALLY THOUGHT THERE
18	MIGHT BE THREE THINGS THAT WE MIGHT RECONSIDER ON
19	THE PREVIOUS SLIDE. BUT, NO. 1, THE PHASE II
20	MATCHING FOR NONPROFIT INSTITUTIONS, THAT REALLY, I
21	THINK, COULD BE A BARRIER ESPECIALLY FOR SOME OF THE
22	PROJECTS THAT WE WANT TO FUND IN THAT THEY HAVE TO
23	SOMEHOW BE ABLE TO GET THEIR INSTITUTION TO COME UP
24	WITH THAT MONEY. SO AN INVESTIGATOR DOING AN
25	EMBRYONIC STEM CELL PROJECT OR A GENE THERAPY

1	PROJECT AND THEY GET BASIC SAFETY AND THEN THEY WANT
2	TO ROLL INTO A PHASE II, AND THEY'RE AT AN ACADEMIC
3	RESEARCH INSTITUTION, THERE'S THE ASSUMPTION THAT
4	THE INSTITUTION WILL PROVIDE THAT MONEY, BUT THAT IS
5	MORE OF A POLITICAL ISSUE, I WOULD SUSPECT, THAN
6	ACTUALLY BEING ABLE TO EASILY ACCESS THOSE FUNDS.
7	AND IT'S ALSO THE ACADEMIC RESEARCH
8	INSTITUTIONS I DON'T THINK THEY'LL HAVE INFINITE
9	RESOURCES. SO WHERE THEY WOULD COME UP FOR THAT
10	MONEY IS KIND OF A MYSTERY TO ME. SO I WONDER WE
11	KNOW IN SOME OF THESE HIGH RISK APPROACHES THAT
12	SAFETY ALONE, UNLIKE A SMALL MOLECULE OR A BIOLOGIC,
13	IS NOT SUFFICIENT TO GET INDUSTRY INTERESTED, THAT
14	YOU REALLY NEED TO PRODUCE SOME SORT OF EFFICACY
15	SIGNAL WHICH YOU WOULD NEED TO DO IN A PHASE II. SO
16	I WONDER IF WE HAVE INADVERTENTLY PUT A BARRIER
17	THERE FOR SOME OF THE HIGHEST RISK, HIGHEST REWARD
18	PROJECTS THAT WE MIGHT BE ABLE TO BRING IN. SO
19	THAT'S ONE.
20	NO. 2 IS ON THE PRE-IND REQUIREMENT.
21	THAT'S NOT ALWAYS THE CASE, THAT PEOPLE NEED TO GO
22	FOR A PRE-IND. IF THEY'RE DOING IF THEY'VE
23	ALREADY TAKEN A PROJECT THROUGH THE IND AND THEN
24	THEY'RE REFINING IT AND ADDING TO IT, THEY'RE NOT
25	GOING TO GO BACK. SO THAT CAN KEEP PROJECTS THAT
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1	ACTUALLY HAVE A LOT OF MERIT THAT ARE BEING FURTHER
2	DEVELOPED FROM ACTUALLY BEING ABLE TO COME INTO CIRM
3	BECAUSE THERE'S THIS LIMBO.
4	DR. MILLS: AT THIS POINT IT'S SHORTHAND.
5	SO THE FULL, WRITTEN OUT IS PRE-IND WHEN NECESSARY.
6	SO THERE ARE IF THE PRE-IND MEETING IS NOT
7	NECESSARY, THEN IT'S NOT A REQUIREMENT.
8	MR. SHEEHY: AND THEN FOR THE SMALL
9	MOLECULES AND BIOLOGICS, I THINK THAT SHOULD PERHAPS
10	BE FURTHER REFINED BECAUSE IF SOMEONE IS COMING IN
11	JUST TO OPEN A CLINICAL TRIAL SITE IN CALIFORNIA FOR
12	A BIOLOGIC OR A SMALL MOLECULE, I DON'T KNOW THAT I
13	SEE THE VALUE ADDED TO DO THAT. THAT SEEMS TO ME
14	THEY'RE GOING TO DEVELOP THE PROJECT ANYWAY. IF
15	THERE'S A SMALL MOLECULE OR BIOLOGIC, IT'S PROBABLY
16	AMPLY FUNDED. SO THAT IS ONE PLACE I THINK WE MIGHT
17	NEED SOME REFINEMENT.
18	AND I JUST WANTED TO RESPOND TO STEVE'S
19	COMMENT. I THINK IF A MAJOR PHARMA CAME INTO CIRM
20	ASKING FOR MONEY, I THINK THAT MIGHT BE A BIT OF A
21	RED FLAG FOR THE REVIEW GROUP, THAT THEY WOULD ASK
22	THE SAME QUESTION YOU ASKED AND WONDER WHY THEY
23	DIDN'T HAVE SUFFICIENT FUNDING, AND SOMEHOW THAT
24	MIGHT REFLECT ON THE MERIT OF THE PROJECT THAT
25	THEY'RE PRESENTING TO US. SO I JUST WANTED TO MAKE

1	THAT. THERE IS KIND OF LIKE SOMETIMES THE QUESTION
2	WHY ARE THEY HERE HAS COME UP IN THE PAST.
3	CHAIRMAN THOMAS: HAVE A QUESTION FROM THE
4	MEMBER OF THE PUBLIC? CAN I JUST ASK A QUESTION?
5	IS THIS THE APPROPRIATE TIME, JAMES, FOR A COMMENT
6	FROM A MEMBER OF THE PUBLIC?
7	MR. HARRISON: SURE. YOU CAN TAKE PUBLIC
8	COMMENT AT ANY POINT IN TIME. THERE'S NO MOTION
9	PENDING OR NO ACTION, BUT YOU ARE FREE TO ACCEPT
10	PUBLIC COMMENT.
11	DR. LORING: THANK YOU. I'LL MAKE THIS
12	SHORT. THIS IS JEANNE LORING. I'M FROM THE LOVELY,
13	SUNNY CITY OF SAN DIEGO, CALIFORNIA, SCRIPPS
14	RESEARCH INSTITUTE.
15	WHAT I WANTED TO ASK WAS SOMETHING, I
16	THINK, THAT ONLY PEOPLE WHO ARE INVOLVED IN
17	APPLICATIONS AND GRANT REVIEW WOULD ASK. AND THAT
18	IS THAT SO FAR ALL OF THE GRANTS HAVE COME FROM
19	PI'S, NOT QUITE SO FAR, BUT MOST OF THE GRANTS HAVE
20	COME FROM PI'S WHO ARE AT CALIFORNIA INSTITUTIONS.
21	AND THE REVIEWERS HAVE BEEN REQUIRED TO BE OUTSIDE
22	CALIFORNIA. SO NOW IF YOU ARE GOING TO HAVE PI'S
23	WHO ARE FROM OUTSIDE CALIFORNIA, DOES THAT MEAN THAT
24	YOU ARE GOING TO START RECRUITING PEOPLE INSIDE
25	CALIFORNIA TO REVIEW THEIR GRANTS, WHICH WOULD SEEM

1	LIKE THE PROPER THING TO DO, FAIR THING TO DO?
2	AND THE OTHER QUESTION IS WHEN THERE ARE
3	PEOPLE OUTSIDE OF CALIFORNIA, THEN, SINCE THEY'RE
4	ALSO IN THE GRANT REVIEW POOL IN GENERAL, I THINK WE
5	NEED TO BE EXTRA CAREFUL TO MAKE THAT SURE THE
6	CONFLICTS OF INTEREST ARE VERY CAREFULLY VETTED
7	BECAUSE THERE'S A MUCH HIGHER PROBABILITY OF
8	SOMEBODY HAVING A CONFLICT IF THEY ARE ALLOWED TO
9	HAVE A GRANT. THANKS.
10	CHAIRMAN THOMAS: THANK YOU. ANY OTHER
11	QUESTIONS OR COMMENTS? OKAY. THANK YOU VERY MUCH,
12	DR. MILLS.
13	SO WE ARE GOING TO TAKE AN ITEM OUT OF
14	ORDER, WHICH IS ITEM NO. 14, CONSIDERATION OF
15	APPLICATIONS SUBMITTED IN RESPONSE TO CLIN1:
16	PARTNERING OPPORTUNITY FOR LATE STAGE PRECLINICAL
17	PROJECTS. AND PRESENTING ON THIS ITEM WILL BE DR.
18	SAMBRANO.
19	DR. SAMBRANO: GOOD MORNING. THANK YOU,
20	MR. CHAIRMAN. I AM BRINGING FOR YOUR CONSIDERATION
21	AN APPLICATION AND RECOMMENDATIONS FROM THE GRANTS
22	WORKING GROUP. AND THIS IS AN APPLICATION THAT WAS
23	RESPONDING TO THE CLIN1 PROGRAM ANNOUNCEMENT UNDER
24	OUR CLINICAL STAGE PROGRAM. SO THE CLIN1 SUPPORTS
25	PROJECTS TO COMPLETE IND-ENABLING WORK AND GET THEM

1	TO THE POINT WHERE THEY SUBMIT THEIR IND AND CAN
2	START A TRIAL.
3	JUST TO REMIND YOU ONCE AGAIN OF THE
4	SCORING SYSTEM THAT WE UTILIZE IN THE CLINICAL
5	PROGRAM, REVIEWERS ASSIGN A SCORE OF A 1, 2, OR 3.
6	A 1 MEANS THAT THE APPLICATION IS GREAT, HAS
7	EXCEPTIONAL MERIT, WARRANTS FUNDING. A SCORE OF 2
8	MEANS THAT IT'S PROMISING, BUT IT NEEDS IMPROVEMENT,
9	AND IT CAN BE RESUBMITTED TO ADDRESS THOSE AREAS FOR
10	IMPROVEMENT. AND THEN, FINALLY, A SCORE OF 3, WHICH
11	MEANS IT'S SUFFICIENTLY FLAWED THAT WE WOULDN'T WANT
12	TO FUND THIS, AND THAT THE PROJECT SHOULD NOT BE
13	RESUBMITTED FOR AT LEAST SIX MONTHS. IT'S BASICALLY
14	PLEASE GO BACK AND RETHINK THIS.
15	SO THE APPLICATION UNDER CONSIDERATION IS
16	CLIN1-09230, WHICH IS PRECLINICAL DEVELOPMENT OF A
17	GENE THERAPY APPROACH FOR CYSTINOSIS. THE THERAPY
18	ITSELF IS HEMATOPOIETIC STEM CELLS WHICH HAVE BEEN
19	GENETICALLY MODIFIED, THAT IS, IT'S A GENE
20	CORRECTION APPROACH, FROM HEMATOPOIETIC STEM CELLS
21	THAT ARE IN THE PERIPHERAL BLOOD OF PATIENTS WITH
22	CYSTINOSIS. AND CYSTINOSIS IS A LYSOSOMAL STORAGE
23	DISEASE THAT AFFECTS CHILDREN AND YOUNG ADULTS.
24	AND THEIR GOAL FOR THIS CLIN1 PROJECT IS
25	TO COMPLETE IND-ENABLING ACTIVITIES THAT WILL

1	SUPPORT THE FILING OF AN IND IN ORDER TO CONDUCT A
2	FUTURE CLINICAL TRIAL IN THESE PATIENTS. AND THE
3	MAJOR PROPOSED ACTIVITIES INCLUDE PERFORMING
4	PHARMACOLOGY AND TOXICOLOGY STUDIES, DEVELOP
5	LARGE-SCALE MANUFACTURING GMP METHODS, AND PREPARE
6	AND SUBMIT THEIR IND. AND THE FUNDS REQUESTED IS
7	ABOUT \$5.3 MILLION FROM THIS APPLICANT.
8	AND A SUMMARY OF THE REVIEW PROCESS, JUST
9	SO YOU KNOW FOR THOSE OF YOU WHO ARE NEW, THAT WE
10	CONDUCT A THREE-STAGE REVIEW. THE FIRST ONE IS
11	ELIGIBILITY, WHICH RANDY TALKED ABOUT BRIEFLY, AND
12	WE ALSO CONDUCT A BUDGET REVIEW. BECAUSE THESE ARE
13	MULTIMILLION DOLLAR PROPOSALS, WE WANT TO ENSURE
14	THAT THE BUDGET IS APPROPRIATE AND REASONABLE FOR
15	THE COSTS THAT ARE BEING REQUESTED. SO WE CONDUCT
16	SUCH A BUDGET REVIEW BEFORE WE TAKE IT TO THE GWG.
17	SO THE BUDGET REVIEW THEY PASSED. WE TOOK
18	IT ON TO THE GWG, WHICH GAVE IT A SCORE OF 1 , AND
19	THE VOTES THAT CONTRIBUTED TO THAT SCORE OF 1 WERE
20	14 MEMBERS FROM THE GWG GAVE IT A SCORE OF 1, ONE
21	MEMBER GAVE IT A SCORE OF 2, AND ZERO GAVE IT A
22	SCORE OF 3.
23	THE CIRM TEAM ALSO REVIEWS THE PROCESS
24	THAT WE TAKE ON FOR EACH OF THESE PROPOSAL REVIEWS
25	TO ENSURE THAT EVERYTHING WAS CONDUCTED IN A FAIR

1	AND APPROPRIATE MANNER. WE CONCUR WITH THE GWG
2	RECOMMENDATION AND FEEL IT'S AN APPROPRIATE SCORE,
3	AND THAT AN AWARD AMOUNT OF 5.3 MILLION BE AWARDED.
4	HAPPY TO TAKE QUESTIONS.
5	CHAIRMAN THOMAS: MEMBERS OF THE BOARD
6	HAVE QUESTIONS? MR. SHEEHY.
7	MR. SHEEHY: JUST MAYBE A LITTLE BIT MORE,
8	WHAT THE DISEASE TARGET, A LITTLE BIT MORE ABOUT
9	WHAT CYSTINOSIS IS AND WHAT THAT MEANS FOR A PATIENT
10	AND FOR A FAMILY.
11	DR. SAMBRANO: CYSTINOSIS IS A LYSOSOMAL
12	STORAGE DISEASE. SO WHAT HAPPENS IS CYSTINE
13	ACCUMULATES IN THE CELLS OF THE BODY, AND THIS IS IN
14	ALL THE CELLS OF THE PATIENTS. AND SO WHAT HAPPENS,
15	IT EVENTUALLY LEADS TO MULTI-ORGAN FAILURE IN THESE
16	PATIENTS. AND THIS CAN BEGIN AT A VERY YOUNG AGE.
17	AND SO THE CURRENT TREATMENT IS CYSTEAMINE WHICH
18	ATTEMPTS TO BREAK DOWN THE CYSTINE IN THE CELLS.
19	BUT IT DOESN'T WORK EFFECTIVELY, MEANING THERE IS
20	MORE TO THIS DISEASE THAN THE DRUG CAN ACCOMPLISH ON
21	ITS OWN.
22	AND SO THE APPROACH IS BASICALLY DOING
23	WHAT IS A BONE MARROW TRANSPLANT, INTRODUCING
24	HEMATOPOIETIC STEM CELLS THAT HAVE THE CORRECTED
25	GENE. AND BY DOING SO, THE HEMATOPOIETIC STEM CELLS

1	DISTRIBUTE THROUGHOUT ALL THE TISSUES IN THE BODY,
2	AND THEY APPEAR, AT LEAST IN ANIMAL MODELS, TO
3	CORRECT THE DEFECT SO THAT THEY OVERCOME ORGAN
4	FAILURE, ESPECIALLY KIDNEY FAILURE AND OTHER AREAS
5	THAT THIS IMPACTS.
6	SO THAT'S A BIG PICTURE OF WHAT THE
7	APPROACH IS AND WHAT THE DISEASE IS.
8	CHAIRMAN THOMAS: ANY OTHER QUESTIONS OF
9	DR. SAMBRANO? DO I HEAR A MOTION TO APPROVE?
10	DR. DULIEGE: MAYBE I MISSED IT, BUT,
11	FIRST OF ALL, SO IT'S CLEAR. RARELY DO WE HAVE A
12	PROPOSAL WHERE EVERYONE AGREES THAT IT'S A GREAT
13	PROPOSAL. SO THAT MAKES IT VERY EASY.
14	JUST IN TERMS OF THE INTERVENTION, OUT OF
15	CURIOSITY, IS THIS GOING TO BE A PHASE I STUDY?
16	DR. SAMBRANO: THIS IS A CLIN1, SO THESE
17	ARE IND-ENABLING ACTIVITIES THAT WILL LEAD TO AN IND
18	FILING.
19	DR. DULIEGE: SO IT'S CRITICAL. IT'S,
20	WHAT, IT'S TOXICOLOGY, IT'S
21	DR. SAMBRANO: TOXICOLOGY, PHARMACOLOGY.
22	THEY HAVE TO DO THE MANUFACTURING AND DEVELOP THE
23	PROTOCOL FOR THE VECTOR THAT WILL BE UTILIZED FOR
24	THE GENE CORRECTION.
25	DR. DULIEGE: AGAIN, PURELY OUT OF
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1	CURIOSITY, SO BRIEFLY, DID THE GROUP PROPOSING THIS
2	GRANT ALREADY HAVE MEETINGS WITH THE FDA, PRE-IND
3	MEETINGS
4	DR. SAMBRANO: THEY HAVE.
5	DR. DULIEGE: IS THAT GOING TO ALLOW A
6	FULL-FLEDGED PRE-IND MEETING?
7	DR. SAMBRANO: SO THEY'VE ALREADY HAD A
8	FULL PRE-IND MEETING, WHICH IS ONE OF THE
9	REQUIREMENTS COMING IN. SO THEY'VE ALREADY HAD
10	THOSE DISCUSSIONS. AND THOSE ARE IMPORTANT BECAUSE
11	IT HELPS BOTH THE REVIEW PANEL UNDERSTAND WHERE THE
12	FDA IS ON ISSUES RELATED TO REGULATING AND ALLOWING
13	APPROVAL FOR THEM TO BEGIN THEIR CLINICAL TRIAL. SO
14	THEY ARE ON THAT PATH. AND SO THIS AWARD WOULD
15	ALLOW THEM TO CONDUCT THOSE FINAL STUDIES AND TO
16	SUBMIT THEIR IND.
17	DR. DULIEGE: EXCELLENT. AND THIS IS
18	IMPORTANT BECAUSE, I ASSUME, ONE OF THE REASONS WHY
19	THE SCORE WAS SO HIGH AND SO UNANIMOUS IS BECAUSE
20	THE PRE-IND MEETING WAS PRETTY SUPPORTIVE, AND THAT
21	ALLOWS THE COMPANY OR THE GROUP, I'M NOT SURE, TO
22	REALLY DELIVER ON THE STRATEGY THAT WILL BE
23	SUPPORTED BY THE FDA, MOST LIKELY.
24	DR. SAMBRANO: THAT'S A PART OF IT. IT IS
25	PUTTING TOGETHER, REALLY, A PROPOSAL THAT MAKES

1	SENSE THAT REVIEWERS RESPOND TO. CERTAINLY HAVING A
2	PRE-IND MEETING CERTAINLY HELPS THEM ALIGN WITH
3	THAT.
4	CHAIRMAN THOMAS: WE'RE NOW UNDER THE
5	AUSPICES OF THE APPLICATION REVIEW SUBCOMMITTEE.
6	SO, MR. SHEEHY, YOU HAVE THE FLOOR.
7	MR. SHEEHY: SO I THINK OUR NEXT STEP IS
8	TO EITHER TAKE A MOTION TO ACCEPT THE CIRM TEAM
9	RECOMMENDATION AND THE GWG RECOMMENDATION OR TO NOT
10	ACCEPT THAT RECOMMENDATION AND NOT FUND.
11	MS. WINOKUR: SECOND.
12	DR. JUELSGAARD: I MOVE TO ACCEPT.
13	CHAIRMAN THOMAS: SO WE HAVE A MOTION BY
14	MR. JUELSGAARD AND A SECOND BY MS. WINOKUR. IS
15	THERE A DISCUSSION ABOUT THIS APPLICATION?
16	DR. LUBIN: JUST A QUESTION ABOUT THE
17	FREQUENCY IN THE STATE OF CALIFORNIA OR IN THE
18	UNITED STATES OF THIS CONDITION. HOW MANY CHILDREN
19	ARE KNOWN TO HAVE THIS OR ANNUALLY HOW MANY CHILDREN
20	HAVE IT?
21	DR. SAMBRANO: SO THE INCIDENCE, BASED ON
22	THE APPLICATION, IS REPORTED TO BE ABOUT ONE IN A
23	HUNDRED TO 200,000.
24	DR. LUBIN: SO IT'S RARE, BUT I THINK THE
25	TECHNOLOGY COULD APPLY TO A LOT OF LYSOSOMAL STORAGE

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1
     DISEASES. I'M NOT AGAINST IT BECAUSE OF THAT, BUT I
 2
     JUST WAS CURIOUS WHAT NUMBERS THEY GAVE IN THE
 3
     APPLICATION.
 4
               DR. DIXON: I AGREE. THIS WORK IS LIKELY
 5
     TO OPEN UP OTHER LYSOSOMAL STORAGE DISEASES TO
 6
     SIMILAR STRATEGIES.
 7
               MR. HARRISON: I'M SORRY, DR. DIXON. YOU
     CAN'T PARTICIPATE IN THIS DISCUSSION.
 8
 9
               DR. DIXON: OKAY. EXCUSE ME.
10
               MR. SHEEHY: DO WE HAVE ADDITIONAL
     DISCUSSION ON THE MOTION? DO WE HAVE PUBLIC
11
12
     COMMENT? COULD WE CALL THE ROLL, THEN, PLEASE.
13
               MS. BONNEVILLE: ANNE-MARIE DULIEGE.
14
               DR. DULIEGE: YES.
15
               MS. BONNEVILLE: DAVID HIGGINS.
16
               DR. HIGGINS: YES.
17
               MS. BONNEVILLE: STEPHEN JUELSGAARD.
18
               MR. JUELSGAARD: YES.
19
               MS. BONNEVILLE: KATHY LAPORTE.
20
               MS. LAPORTE: YES.
21
               MS. BONNEVILLE: LAUREN MILLER. ADRIANA
22
     PADILLA.
               DR. PADILLA: YES.
23
24
               MS. BONNEVILLE: JOE PANETTA. FRANCISCO
25
     PRIETO. ROBERT QUINT.
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1	DR. QUINT: YES.
2	MS. BONNEVILLE: AL ROWLETT.
3	MR. ROWLETT: YES.
4	MS. BONNEVILLE: JEFF SHEEHY.
5	MR. SHEEHY: YES.
6	MS. BONNEVILLE: OS STEWARD.
7	DR. STEWARD: YES.
8	MS. BONNEVILLE: JONATHAN THOMAS.
9	CHAIRMAN THOMAS: YES.
10	MS. BONNEVILLE: ART TORRES.
11	MR. TORRES: AYE.
12	MS. BONNEVILLE: DIANE WINOKUR.
13	MS. WINOKUR: YES.
14	MS. BONNEVILLE: DR. QUINT, ARE YOU ON THE
15	LINE?
16	THE REPORTER: I HEARD YES.
17	MS. BONNEVILLE: YOU DID?
18	THE REPORTER: YES.
19	MR. TOCHER: FROM DR. QUINT?
20	THE REPORTER: YES.
21	MR. HARRISON: MOTION CARRIES.
22	MR. SHEEHY: IT'S BACK TO YOU, CHAIR
23	THOMAS.
24	CHAIRMAN THOMAS: THANK YOU, MR. SHEEHY.
25	I JUST WANTED TO MAKE A POINT ALSO OF SINGLING OUT
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1	THE BACKBONE OF WHAT WE DO IS REALLY THE REVIEW OF
2	GRANTS AND THE WORK OF THE GWG, WHICH, AS YOU HEARD
3	FROM DR. MILLS, HAS INCREASED SEVERAL FOLD, WHICH
4	INCREASES THE WORKLOAD THAT OUR TEAM HAS. AND I
5	WANTED TO, SINCE HE SORT OF ALWAYS PRESENTS AND IS
6	TAKEN GREATLY FOR GRANTED, TO CONGRATULATE DR.
7	SAMBRANO ON THE CONTINUING TERRIFIC WORK THAT HE AND
8	THE MEMBERS OF HIS TEAM DO IN MARSHALLING ALL THE
9	GRANTS THROUGH THE PROCESS THAT MAKES ALL OF THIS
10	POSSIBLE. SO, DR. SAMBRANO AND TEAM,
11	CONGRATULATIONS.
12	OKAY. WE ARE TO GIVE BETH A BREAK HERE.
13	SO WE'RE GOING TO TAKE A TEN-MINUTE BREAK. SO WE
14	WILL RECONVENE ROUGHLY AT 11 O'CLOCK.
15	(A RECESS WAS TAKEN.)
16	CHAIRMAN THOMAS: YES. COULD THOSE
17	MEMBERS WHO ARE MILLING ABOUT PLEASE TAKE YOUR
18	SEATS. OKAY. WE'RE GOING TO PROCEED BACK ON
19	NUMERIC ORDER TO THE CONSENT CALENDAR, WHICH IS
20	ITEMS 6 THROUGH 10. DO ANY MEMBERS HAVE ANY OF THE
21	ITEMS ON THE CONSENT CALENDAR THAT THEY WOULD LIKE
22	TO PULL OFF FOR INDIVIDUAL CONSIDERATION?
23	MR. SHEEHY: COULD WE PULL OFF NO. 10,
24	PLEASE.
25	MR. TORRES: NO. 10?
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1	CHAIRMAN THOMAS: NO. 10 HAS BEEN PULLED
2	OFF.
3	MR. TORRES: MOVE TO APPROVE THE
4	REMAINING.
5	MR. SHEEHY: SECOND.
6	CHAIRMAN THOMAS: IT'S BEEN MOVED AND
7	SECONDED. I BELIEVE WE CAN DO THIS WITH A VOICE
8	VOTE IN THE ROOM AND A ROLL CALL FOR OTHERS. ALL
9	THOSE IN FAVOR PLEASE SAY AYE. OPPOSED? MARIA,
10	PLEASE CALL THE ROLL.
11	MS. BONNEVILLE: JACK DIXON.
12	DR. DIXON: AYE.
13	MS. BONNEVILLE: DAVID HIGGINS.
14	DR. HIGGINS: YES.
15	MS. BONNEVILLE: KATHY LAPORTE.
16	MS. LAPORTE: YES.
17	MS. BONNEVILLE: FRANCISCO PRIETO.
18	DR. PRIETO: AYE.
19	MS. BONNEVILLE: ROBERT QUINT.
20	DR. QUINT: YES.
21	MS. BONNEVILLE: AL ROWLETT.
22	MR. ROWLETT: YES.
23	MS. BONNEVILLE: OS STEWARD.
24	DR. STEWARD: YES.
25	MS. BONNEVILLE: THANK YOU.
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1	MR. HARRISON: MOTION CARRIES.
2	CHAIRMAN THOMAS: THANK YOU, MR. HARRISON.
3	WITH RESPECT TO ITEM NO. 10, MR. HARRISON,
4	HOW SHALL WE PROCEED?
5	MR. HARRISON: YES. IF MR. SHEEHY WOULD
6	LIKE, GABE THOMPSON IS PREPARED TO MAKE A
7	PRESENTATION; OR IF YOU'D RATHER POSE QUESTIONS, WE
8	CAN HANDLE HOWEVER YOU LIKE.
9	MR. SHEEHY: I THINK I JUST HAD TWO
10	QUESTIONS ABOUT TWO ITEMS SO THAT PEOPLE ARE AWARE
11	JUST TO KIND OF GET IT OUT THERE.
12	SO GABE, MR. THOMPSON, SO MY FIRST
13	QUESTION IS ABOUT THE NON-CALIFORNIA PIECE OF THIS,
14	THE ELIGIBILITY OF NON-CALIFORNIA RESEARCHERS TO
15	APPLY FOR DISCOVERY, TRANSLATION, AND EDUCATION
16	GRANTS. I DON'T THINK WE'VE REALLY TALKED ABOUT
17	THAT BEFORE. SOMEBODY FROM THE COMMUNITY RAISED
18	THAT. I HAD ALWAYS CONTEMPLATED THAT THAT WAS A
19	CLINICAL STAGE THING, BUT NOW, LIKE AT THE DISCOVERY
20	STAGE, CALIFORNIA RESEARCHERS COULD BE COMPETING OR
21	WILL BE COMPETING POTENTIALLY WITH NON-CALIFORNIA
22	APPLICANTS. SO CAN WE JUST WHAT THAT MEANS.
23	MR. THOMPSON: I'M GABRIEL THOMPSON. I'M
24	THE DIRECTOR OF PORTFOLIO OPERATIONS AND PERFORMANCE
25	AT CIRM. AND SO YOU ARE CORRECT. THERE IS OUR

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1	DISCOVERY, TRANSLATION PROGRAMS DO ALLOW FOR
2	NON-CALIFORNIA APPLICANTS TO APPLY TO CIRM. WE
3	DEFINE NON-CALIFORNIA APPLICANT ORGANIZATIONS AS
4	THOSE WHO EMPLOY AND PAY 50 PERCENT OR LESS OF ITS
5	EMPLOYEES OUTSIDE THE STATE OF CALIFORNIA.
6	SO IF YOU HAVE A NON-CALIFORNIA APPLICANT,
7	CIRM WILL PAY FOR COSTS FOR ACTIVITIES WHOLLY
8	CONDUCTED IN CALIFORNIA AS WELL AS ANY COSTS OUTSIDE
9	THE STATE OF CALIFORNIA THAT ARE DIRECTLY
10	ATTRIBUTABLE TO THOSE ACTIVITIES OCCURRING IN THE
11	STATE OF CALIFORNIA.
12	SO I CAN GIVE AN EXAMPLE. IF AN
13	INVESTIGATOR AT UNC, FOR INSTANCE, HAD SOME CELLS
14	AND THEY WANTED TO USE AN ANIMAL MODEL THAT WAS AT
15	UCLA, THE UCLA TEAM COULD GET THE ANIMAL STUDIES FOR
16	THAT ANIMAL MODEL COVERED BY THE GRANT, AND THEN UNC
17	COULD GET THE COST TO PREPARE THOSE CELLS THAT THEY
18	THEN HAND OVER TO UCLA COVERED BY THE GRANT. IT IS
19	ALSO LIMITED TO NO MORE THAN 50 PERCENT OF THE
20	CALIFORNIA FUNDS REQUESTED. SO WE DO TRY TO IMPOSE
21	A LIMIT ON THAT NON-CALIFORNIA.
22	MR. SHEEHY: SO OBVIOUSLY THIS TO HAVE
23	A FURTHER DISCUSSION ABOUT THIS AND MAYBE TAKE
24	ACTION I THINK WOULD HAPPEN AT A DIFFERENT PLACE
25	BECAUSE THIS IS JUST CLARIFYING THE GAP. BUT I

1	PERSONALLY WOULD LIKE TO HAVE A DISCUSSION AND
2	PERHAPS MAYBE EVEN AN ACTION ITEM IN THE FUTURE ON
3	THIS ISSUE BECAUSE CIRM, IN A LOT OF WAYS,
4	PREFERENTIALLY BENEFITS RESEARCHERS IN CALIFORNIA.
5	CERTAINLY AT THE CLINICAL STAGE, ANY CLINICAL WORK
6	THAT WE CAN DO TO CURE PATIENTS, WHEREVER IT COMES
7	FROM, I'M SUPPORTIVE OF FUNDING. BUT I THINK GIVEN
8	WHAT'S GOING ON WITH THE NIH, FOR EARLIER STAGE
9	RESEARCH, I WOULD REALLY LIKE TO BE THOUGHTFUL ABOUT
10	WHETHER OR NOT WE RESERVE THAT FOR CALIFORNIANS,
11	CALIFORNIA-BASED RESEARCHERS.
12	SO I'D LIKE TO FLAG THAT ISSUE, AND
13	PERHAPS WE CAN COME BACK TO THAT. I DON'T KNOW WHAT
14	THE APPROPRIATE MECHANISM IS BECAUSE THIS IS JUST
15	ADMINISTRATION POLICY.
16	DR. MILLS: SO THIS IS SOMETHING
17	INTERNALLY WE ACTUALLY SHARE THAT FEELING. SO WHAT
18	GABE IS DOING TODAY IS CLEANING UP EXISTING POLICY
19	TO MATCH THE CONCEPT PLANS WHICH ARE IN EFFECT
20	ALREADY. BUT IT IS OUR INTERNAL INTEREST TO COME
21	BACK TO THE BOARD WITH A MODIFICATION TO THE CONCEPT
22	PLANS TO REMOVE THE OUT-OF-STATE FUNDING COMPONENT
23	FROM ALL OF THE CONCEPT PLANS UP TO ONLY THE CLIN2
24	SERIES, WHICH IS THE ACTUAL CLINICAL TRIAL WHERE WE
25	WANT TO BE WE'RE GOING TO BE ACTIVELY PULLING

1	CLINICAL TRIALS INTO IT. SO WE ACTUALLY SHARE THIS
2	CONCERN AND WANT TO COME BACK AND MODIFY IT, BUT WE
3	DO THAT THROUGH THE MODIFICATION OF THE CONCEPT
4	PLAN. IS THAT CORRECT, JAMES? DID I GET THAT
5	RIGHT?
6	MR. HARRISON: THAT'S CORRECT. SO WE PLAN
7	ON BRINGING THESE BACK IN DECEMBER AND HAVE A
8	SCIENCE SUBCOMMITTEE FIRST IF YOU WOULD LIKE.
9	MR. SHEEHY: GREAT. THANK YOU.
10	AND THEN, MR. THOMPSON, THE OTHER THING IS
11	JUST FOR CLARIFICATION, THE PROGRESSION AWARD
12	MECHANISM. CAN YOU KIND OF EXPLAIN HOW THAT WORKS
13	AND WHAT'S GOING ON THERE? I ACTUALLY THINK IT'S
14	VERY INNOVATIVE, AND I THINK WE'VE TALKED ABOUT IT
15	BEFORE, BUT JUST ANOTHER CHANCE.
16	MR. THOMPSON: ABSOLUTELY. SO, AGAIN,
17	THIS GRANTS ADMINISTRATION POLICY IS ACTUALLY JUST
18	REFERENCING THE DISCOVERY, IN PARTICULAR THE QUEST
19	PROGRAM, THE WORKHORSE OF DISCOVERY, AND WHAT THIS
20	IS, AS RANDY TALKED EARLIER, ONE OF OUR BIG SIX
21	GOALS ARE TO INCREASE PROGRESSION EVENTS OVERALL BY
22	50 PERCENT. SO MOVING ANY PROJECT FROM ONE STAGE OF
23	DEVELOPMENT TO THE NEXT.
24	THIS IS SPECIFIC TO, WE THINK, THE MOST
25	IMPORTANT PROGRESSION EVENT THAT WE WANT TO

1	INCENTIVIZE IS GOING FROM A QUEST AWARD, WHICH ENDS
2	IN IDENTIFYING A CANDIDATE FOR TRANSLATION, AND THEN
3	GETTING THE TRANSLATIONAL AWARD OR TRANSLATIONAL
4	FUNDING TO FURTHER DEVELOP THAT CANDIDATE. SO WHAT
5	THE QUEST PROGRAM ANNOUNCEMENT ALLOWS IS IF A QUEST
6	AWARDEE WITHIN 12 MONTHS AFTER THEY FINISH THEIR
7	AWARD FINDS EITHER CIRM FUNDING OR CIRM EQUIVALENT
8	FUNDING TO BRING THAT CANDIDATE INTO TRANSLATION,
9	CIRM WILL PROVIDE THEM WITH ONE OF OUR SEED AWARDS.
10	AND IT'S SUBJECT TO CIRM'S PRIOR APPROVAL. IT HAS
11	TO BE A STEM CELL PROJECT THAT FALLS WITHIN CIRM'S
12	SCOPE, BUT THEY WOULD BASICALLY BE ELIGIBLE TO
13	RECEIVE A SEED AWARD.
14	MR. SHEEHY: GREAT. THANK YOU. SO THOSE
15	WERE MY QUESTIONS. IF NO ONE ELSE HAS QUESTIONS,
16	I'LL MOVE TO APPROVE THIS.
17	MR. TORRES: SECOND.
18	CHAIRMAN THOMAS: ANY FURTHER DISCUSSION?
19	DISCUSSION FROM MEMBERS OF THE PUBLIC? VOICE VOTE
20	HERE. ALL THOSE IN FAVOR PLEASE SAY AYE. OPPOSED?
21	MARIA, PLEASE POLL THOSE ON THE PHONE.
22	MS. BONNEVILLE: JACK DIXON.
23	DR. DIXON: YES.
24	MS. BONNEVILLE: DAVID HIGGINS.
25	DR. HIGGINS: YES.
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1	MS. BONNEVILLE: KATHY LAPORTE.
2	MS. LAPORTE: YES.
3	MS. BONNEVILLE: FRANCISCO PRIETO.
4	DR. PRIETO: AYE.
5	MS. BONNEVILLE: ROBERT QUINT.
6	DR. QUINT: AYE.
7	MS. BONNEVILLE: AL ROWLETT.
8	MR. ROWLETT: YES.
9	MS. BONNEVILLE: OS STEWARD.
10	DR. STEWARD: YES.
11	CHAIRMAN THOMAS: THANK YOU. ON TO ACTION
12	ITEM, NO. 11, CONSIDERATION OF AMENDMENTS TO THE
13	GRANTS WORKING GROUP BYLAWS. MR. HARRISON.
14	MR. HARRISON: GOOD MORNING. AS DR. MILLS
15	EXPLAINED EARLIER DURING HIS PRESIDENT'S REPORT, WE
16	ARE SORT OF ON A CONSTANT BASIS REVIEWING OUR
17	POLICIES TO MAKE SURE THAT THEY ARE AS EFFECTIVE AND
18	AS EFFICIENT AS POSSIBLE. AND AS PART OF THAT
19	REVIEW, WE HAVE BEEN TAKING A CLOSE LOOK AGAIN AT
20	THE GWG BYLAWS AND IN PARTICULAR OUR SCORING
21	PROCESS. AND WE BRING TO YOU TODAY PROPOSALS FOR
22	AMENDMENTS ON SEVERAL DIFFERENT ASPECTS OF THE
23	BYLAWS: SCORING FOR OUR DISC, TRAN, AND EDUCATION
24	PROGRAMS, SCORING FOR OUR CLINICAL APPLICATIONS,
25	SCORING FOR INFRASTRUCTURE APPLICATIONS, AND SOME
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1	TECHNICAL CLEANUPS THAT WE WOULD LIKE THE BOARD TO
2	APPROVE.
3	LET ME START WITH THE CURRENT SCORING
4	MECHANISM FOR OUR DISC, TRAN, AND EDUCATION PROGRAM
5	APPLICATIONS. UNDER OUR CURRENT SYSTEM, GWG
6	SCIENTIFIC MEMBERS ASSIGN A SCORE OF 1 TO 100. AND
7	UNDER THE GWG BYLAWS, AN AVERAGE SCORE OF 85 OR
8	ABOVE INDICATES THAT THE APPLICATION IS FUNDABLE IF
9	FUNDS ARE AVAILABLE; WHEREAS, AN AVERAGE SCORE BELOW
10	85 IS DEEMED TO BE NOT RECOMMENDED FOR FUNDING.
11	ON A COUPLE OF OCCASIONS WE HAVE
12	ENCOUNTERED REVIEWS IN WHICH AN APPLICATION WAS
13	SCORED AT 85 OR ABOVE BY A MAJORITY OF THE MEMBERS
14	OF THE GWG, BUT BECAUSE OF AN OUTLIER SCORE OR TWO,
15	THE AVERAGE SCORE WAS BELOW 85. AND AS A RESULT,
16	THE APPLICATION WAS NOT RECOMMENDED FOR FUNDING. WE
17	THINK THAT THE MEDIAN SCORE RATHER THAN THE AVERAGE
18	SCORE BETTER REFLECTS THE SENSE OF THE GRANTS
19	WORKING GROUP. IF A MAJORITY OF THE SCIENTIFIC
20	MEMBERS BELIEVE AN APPLICATION WARRANTS FUNDING,
21	THEN WE THINK THAT SHOULD BE WHAT DRIVES THE GWG'S
22	RECOMMENDATION. AND IT ALSO HAS THE BENEFIT OF
23	ADDRESSING OUTLYING SCORES.
24	SO WHAT WE WOULD PROPOSE TO DO IS TO USE
25	THE MEDIAN SCORE RATHER THAN THE AVERAGE SCORE FOR

1	PURPOSES OF DETERMINING WHETHER AN APPLICATION IS
2	RECOMMENDED FOR FUNDING OR NOT RECOMMENDED FOR
3	FUNDING. HOWEVER, WE WOULD CONTINUE TO USE THE
4	AVERAGE SCORE FOR PURPOSES OF DISPLAYING THE RANK OF
5	APPLICATIONS WITHIN THE TWO DIFFERENT TIERS.
6	SO WE HAVE A DEPICTION OF THAT IN THE
7	CHART IN FRONT OF YOU SO YOU CAN GET A SENSE OF WHAT
8	IT MIGHT LOOK LIKE. SO THE AVERAGE SCORE WOULD JUST
9	BE USED TO RANK APPLICATIONS WITHIN THE FUNDABLE
10	CATEGORY AND SEPARATELY TO RANK APPLICATIONS WITHIN
11	THE NOT FUNDABLE CATEGORY.
12	WE'D ALSO LIKE TO PROPOSE MODIFICATIONS TO
13	THE SCORING SYSTEM FOR CLINICAL APPLICATIONS FOR
14	MUCH THE SAME REASONS. CURRENTLY OUR CLINICAL
15	SCORING SCIENTIFIC MEMBERS ARE ASKED TO ASSIGN A
16	NUMERICAL SCORE OF 1, WHICH INDICATES THAT THE
17	APPLICATION HAS EXCEPTIONAL MERIT AND WARRANTS
18	FUNDING IF FUNDS ARE AVAILABLE. TWO MEANS THE
19	APPLICATION AS PRESENTED COULD BE IMPROVED AND IS
20	NOT RECOMMENDED FOR FUNDING AT THIS TIME. AND A
21	SCORE OF 3, WHICH INDICATES THAT THE GRANTS WORKING
22	GROUP SCIENTIFIC MEMBERS BELIEVE THE APPLICATION
23	DOESN'T WARRANT FUNDING.
24	UNDER THE CURRENT BYLAWS, WE HAVE A
25	BIFURCATION. SO IF AN APPLICATION RECEIVES A
	0.5

1	PLURALITY OF SCORES OF 1 OR 2, THEN THAT'S THE TIER
2	TO WHICH THE APPLICATION IS ASSIGNED. HOWEVER, IF
3	IT'S TIER III, IT REQUIRES A MAJORITY OF MEMBERS TO
4	ASSIGN AN APPLICATION TO TIER III. AND WHERE THERE
5	IS EITHER NO PLURALITY OR NO MAJORITY, THEN THE
6	GRANTS WORKING GROUP TAKES A MOTION TO ASSIGN THE
7	APPLICATION TO A PARTICULAR TIER.
8	HERE TOO WE HAVE ENCOUNTERED INSTANCES IN
9	WHICH A MAJORITY OF THE SCIENTIFIC MEMBERS OF THE
10	GWG BELIEVE THAT AN APPLICATION DID NOT WARRANT
11	FUNDING, AT LEAST AS PRESENTED TO THE GWG, BUT IT
12	WAS NONETHELESS RECOMMENDED FOR FUNDING. SO FOR THE
13	SAME REASON WE EXPRESSED WITH RESPECT TO THE DT&E
14	SCORING SYSTEM, HERE WE THINK REQUIRING A MAJORITY
15	OF THE SCORES TO ASSIGN AN APPLICATION TO TIER I,
16	TIER II, OR TIER III BETTER REFLECTS THE SENSE OF
17	THE GRANTS WORKING GROUP. AND IF THE GRANTS WORKING
18	GROUP IS UNABLE TO REACH A MAJORITY VOTE OR SCORE,
19	RATHER, FOR ANY TIER, THEN IT WOULD AUTOMATICALLY BE
20	DEEMED TO BE A TIER II APPLICATION, WHICH MEANS THE
21	APPLICANT WOULD HAVE A CHANCE TO REVIEW THE GWG'S
22	COMMENTS, IMPROVE THE APPLICANT'S APPLICATION, AND
23	RESUBMIT IT FOR THE GWG AND ULTIMATELY THE
24	APPLICATION REVIEW SUBCOMMITTEE'S CONSIDERATION.
25	BRIEFLY, FOR OUR INFRASTRUCTURE PROGRAMS,
	9.6

1	WE HAVE ONE PROGRAM THAT IS CURRENTLY UNDER REVIEW
2	BY THE GRANTS WORKING GROUP. THAT'S THE TRANSLATING
3	CENTER. FOR THE SAME REASONS WE EXPRESSED WITH
4	RESPECT TO DT&E, WE PROPOSE TO USE A SCORING
5	MECHANISM, RATHER, TO MODIFY OUR EXISTING SCORING
6	MECHANISM BY USING THE MEDIAN SCORE RATHER THAN THE
7	AVERAGE SCORE.
8	WITH RESPECT TO THE ATP3 PROGRAM, WHICH
9	YOU'RE GOING TO HEAR MORE DETAIL ABOUT LATER TODAY,
10	WE PROPOSE TO MAKE A MORE SIGNIFICANT MODIFICATION
11	TO THE SCORING SYSTEM. RATHER THAN USING OUR
12	TRADITIONAL 1 TO 100 SCORE, WE PROPOSE TO USE THE
13	SCORING SYSTEM THAT WE USE FOR CLINICAL
14	APPLICATIONS. SO WE WOULD ASK GWG SCIENTIFIC
15	MEMBERS TO ASSIGN A SCORE OF 1, INDICATING THE
16	APPLICATION HAS EXCEPTIONAL MERIT AND WARRANTS
17	FUNDING IF FUNDS ARE AVAILABLE; 2, THAT IT'S NOT
18	RECOMMENDED FOR FUNDING AT LEAST AS PRESENTED; AND
19	3, THAT IT'S NOT RECOMMEND FOR FUNDING AT ALL. AND
20	WE WOULD REQUIRE A MAJORITY OF SCORES FOR ASSIGNMENT
21	TO TIER I, II, OR III. AND IF THERE'S NO MAJORITY,
22	THE APPLICATION WOULD BE ASSIGNED TO TIER II
23	AUTOMATICALLY.
24	THERE ARE A NUMBER OF TECHNICAL AMENDMENTS
25	WE'D LIKE TO MAKE. NONE OF THEM ARE PARTICULARLY

1	SIGNIFICANT. WE WOULD DELETE AN OUTDATED REFERENCE
2	TO ADMINISTRATIVE CHAIR, A POSITION THAT NO LONGER
3	EXISTS. WE CLARIFY THAT ACTIONS OF THE GWG MAY ONLY
4	BE TAKEN BY A MAJORITY OF THE MEMBERS PRESENT AND
5	VOTING, CONSISTENT WITH ROBERTS RULES OF ORDER, AND
6	WE'D MAKE SOME TECHNICAL EDITS TO LANGUAGE FOR
7	CLARITY.
8	THERE IS ONE ADDITIONAL CHANGE THAT WE
9	WOULD LIKE THE BOARD TO APPROVE WHICH IS NOT IN THE
10	WRITTEN MATERIALS. AND, AGAIN, THIS IS OF A
11	TECHNICAL NATURE. CURRENTLY WITH RESPECT TO
12	REIMBURSEMENT OF EXPENSES, WE PROVIDE FOR
13	REIMBURSEMENT OF EXPENSES FOR GWG MEMBERS, BUT WE
14	DON'T EXPLICITLY STATE THAT THAT INCLUDES SPECIALIST
15	MEMBERS. AS A MATTER OF PRACTICE, WE'VE ALWAYS
16	TREATED SPECIALIST MEMBERS AS GWG MEMBERS FOR
17	PURPOSES OF REIMBURSEMENT AND A DAILY CONSULTING
18	RATE, BUT WE'D LIKE TO MAKE THE LANGUAGE IN ARTICLE
19	IV, SECTION 9B EXPLICIT IN ORDER TO ENSURE THERE'S
20	NO CONFUSION ABOUT THAT.
21	I'D BE HAPPY TO ANSWER ANY QUESTIONS. IF
22	NOT, WE'D REQUEST THAT THE BOARD APPROVE THE
23	PROPOSED AMENDMENTS TO THE GRANTS WORKING GROUP
24	BYLAWS.
25	DR. JUELSGAARD: YES, MR. HARRISON. SO I

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1	WANT TO KIND OF GO BACK TO SLIDE 5 FOR A MOMENT, THE
2	CLINICAL SCORING. SO I WANT TO DEAL WITH THE
3	PROPOSED SCORING, THE BULLET POINTS AT THE BOTTOM.
4	AND I'M JUST GOING TO RAISE A HYPOTHETICAL. SO I
5	WANT TO ASSUME THAT THERE ARE 15 VOTES ON THE GWG,
6	AND THAT THE VOTES ARE SIX 1S, FIVE 2S, AND FOUR 3S.
7	WHAT HAPPENS?
8	MR. HARRISON: IT WOULD AUTOMATICALLY BE
9	ASSIGNED A SCORE OF 2.
10	DR. JUELSGAARD: SO WHEN YOU SAY THE
11	MAJORITY OF SCORES, THAT'S WHERE I'M NOT CLEAR OR
12	DON'T QUITE UNDERSTAND. WHAT IS THE MAJORITY OF
13	SCORES REFERRING TO?
14	MR. HARRISON: YOU NEED A MAJORITY OF
15	MEMBERS TO ASSIGN A SCORE OF 1, 2, OR 3 IN ORDER FOR
16	THAT TO REFLECT THE RECOMMENDATION OF THE GRANTS
17	WORKING GROUP.
18	DR. JUELSGAARD: GOT IT. SO IN MY
19	HYPOTHETICAL, IT WOULD HAVE TO BE 8 OF THE 15 IN
20	ORDER TO GET THERE?
21	MR. HARRISON: CORRECT.
22	MR. JUELSGAARD: OKAY. THANKS.
23	DR. DULIEGE: IS THIS INDEED IN THIS
24	INSTANCE WHERE YOU ARE SUGGESTING TO USE SIMPLY A
25	MEDIAN RATHER THAN THE MEAN?
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1	MR. HARRISON: SO OUR CLINICAL SCORING IS
2	A LITTLE BIT DIFFERENT BECAUSE OFTENTIMES WE ONLY
3	HAVE ONE APPLICATION. AND SO IT'S REALLY BEING
4	EVALUATED ON AN INDIVIDUAL BASIS. AND FOR THAT
5	REASON, WHAT WE REALLY WANT THE GWG TO DO IS TO
6	ADVISE US WHETHER THEY THINK IT MERITS FUNDING AS
7	IS, WHETHER IT HAS PROMISE, BUT NEEDS IMPROVEMENT IN
8	PARTICULAR AREAS, OR WHETHER IT SIMPLY SHOULDN'T GO
9	FORWARD. SO IT'S A FINER APPROACH TO IT THAN THE 1
10	THROUGH 100 ALLOWS.
11	DR. DULIEGE: THANK YOU.
12	DR. DEAS: MY QUESTION IS ON THE DISCOVERY
13	AND EDUCATION APPLICATION WITH USING THE MEDIAN. I
14	CERTAINLY THINK THAT MIGHT BE A GOOD WAY TO GO.
15	HOWEVER, THE QUESTION IS, OF THE GWG GROUP MEMBERS,
16	HOW MANY INDIVIDUALS ACTUALLY REVIEW AND VOTE ON
17	EACH GRANT?
18	MR. HARRISON: THERE ARE 15 SCIENTIFIC
19	MEMBERS, ASSUMING THERE ARE NO CONFLICTS AND THEY'RE
20	PRESENT, WHO WOULD ASSIGN A SCORE OF 1 TO 100. SO
21	THE MEDIAN WOULD BE OF THOSE 15 MEMBERS.
22	DR. DEAS: I SEE. SO YOU USUALLY HAVE ALL
23	15 ACTUALLY PARTICIPATE?
24	MR. HARRISON: WITH SOME EXCEPTIONS.
25	OBVIOUSLY IF THERE ARE CONFLICTS ON THE PANEL, WHICH
	90

1	OCCURS FROM TIME TO TIME, WE'LL HAVE FEWER MEMBERS.
2	DR. DEAS: OKAY. GREAT.
3	MR. SHEEHY: I WANTED TO ASK A QUESTION ON
4	THE INFRASTRUCTURE SCORING, IF WE COULD LOOK AT
5	THAT. SO MAYBE THIS COULD BE SOME CLARIFICATION.
6	SO THE REASON WE WENT TO 1-2-3 ON ATP WAS THESE
7	INFRASTRUCTURE PROJECTS TEND TO BE VERY EXPENSIVE.
8	AND THAT'S 75 MILLION, BUT EVEN IN OTHER
9	CIRCUMSTANCES, THEY HAVE BEEN 10, 15 MILLION.
10	THEY'RE NOT SMALL. AND THIS SCORING RANGE DOESN'T
11	ALLOW FOR THE TYPE OF REFINEMENT THAT THE 1-2-3
12	SYSTEM DOES.
13	SO HOW DOES ONE CONTEMPLATE GETTING
14	REFINEMENT ON INFRASTRUCTURE SCORING WITHOUT A 1-2-3
15	SYSTEM BECAUSE EVEN AN 85, IF I'M GOING TO SPEND 15
16	MILLION AND REVIEWERS HAVE IDENTIFIED FIVE OR SIX
17	KEY ELEMENTS THAT COULD BE IMPROVED, HOW WOULD WE
18	GET THOSE TYPES OF IMPROVEMENTS? FOR ME I STILL
19	TEND TO BELIEVE THAT A 1-2-3 SCORING SYSTEM FOR
20	INFRASTRUCTURE IS OPTIMAL SIMPLY BECAUSE THAT GIVES
21	US THE MECHANISM BY WHICH WE CAN ENFORCE REFINEMENT
22	OF PROJECTS THAT WE'RE GOING TO SPEND A LOT OF MONEY
23	ON.
24	MR. HARRISON: THERE ARE PROBABLY THREE
25	DIFFERENT MECHANISMS. THE GWG CAN REQUEST
	91
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1	ADDITIONAL INFORMATION IF IT DOESN'T FEEL THAT IT
2	HAS SUFFICIENT INFORMATION TO SCORE THE APPLICATIONS
3	BASED ON WHAT'S AVAILABLE.
4	SECONDLY, IF NO APPLICATION HAS A MEDIAN
5	SCORE OF 85 OR ABOVE, THEN THE APPLICANTS WOULD HAVE
6	AN OPPORTUNITY TO RESUBMIT TO ADDRESS THE GWG'S
7	CONCERNS AND THERE WOULD BE A SUPPLEMENTAL REVIEW.
8	OR, THIRD, EVEN IF THE APPLICATIONS WERE
9	TO COME FORWARD TO THE APPLICATION REVIEW
10	SUBCOMMITTEE, IF THE APPLICATION REVIEW SUBCOMMITTEE
11	WAS NOT COMFORTABLE MAKING A FUNDING DECISION, IT
12	COULD ASK THE GWG TO CONDUCT A SUPPLEMENTAL REVIEW.
13	MR. SHEEHY: THAT'S PRETTY CUMBERSOME.
14	I'M STILL UNDECIDED ON THIS ONE. I REALLY DO LIKE
15	THE 1-2-3 ON ANYTHING WE START SPENDING BIG BUNCHES
16	OF MONEY ON. IF IT'S GOOD, THEN IT'S GOOD; BUT IT'S
17	NOT GOOD, IT'S NOT GOOD. BUT A LOT OF THINGS FALL
18	INTO II AND WE GET TO SEND THOSE BACK. I JUST FOUND
19	THAT TO BE SO VALUABLE IN CLINICAL REVIEW.
20	IT JUST GIVES ME TWO BITES AT THE APPLE, I
21	GUESS. I JUST HAVE ALWAYS FOUND THE REVIEWERS'
22	SUGGESTIONS TO BE VERY VALUABLE.
23	DR. STEWARD: COULD I ADD TO THAT?
24	CHAIRMAN THOMAS: YES. LITTLE HARD TO
25	HEAR YOU, OS. GET A LITTLE CLOSER TO THE PHONE OR
	0.2

1	WHATEVER.
2	DR. STEWARD: SO I HAVE TO SAY I WAS
3	PROBABLY DUBIOUS ABOUT THE 1-2-3 SCORING SYSTEM WHEN
4	IT WAS FIRST LAUNCHED, AND I HAVE BECOME A FAN
5	REALLY FOR EXACTLY THE REASONS JEFF SAID. AND IT
6	GOES BACK TO THE COMMENTS THAT RANDY MADE TODAY AND
7	HAS MADE IN THE PAST. WE REALLY WANT TO BE FUNDING
8	GRANTS THAT GET SCORES OF 95, A'S OR A PLUSES. AND
9	ONES THAT ARE IN THE 85 RANGE, THAT'S A GOOD SOLID
10	B. IF YOU KNOW YOU CAN MAKE IT BETTER, I THINK IT
11	NEEDS TO BE MADE BETTER.
12	I DO AGREE WITH JEFF. I THINK ON THESE
13	BIG MONEY ROUNDS, THE 1-2-3 SCORING SYSTEM REALLY
14	GIVES A CHANCE FOR THE PROJECT TO BE MADE AS GOOD AS
15	IT CAN BE MADE. THANK YOU.
16	DR. DIXON: I WOULD SORT OF SECOND THAT.
17	I THINK YOU GUYS HAVE MADE SOME VERY GOOD POINTS
18	ABOUT THE 1-2-3.
19	DR. MELMED: I DON'T WANT TO SECOND-GUESS
20	AND GO THROUGH YOUR WHOLE PROCESS AGAIN. YOU'VE
21	OBVIOUSLY GIVEN THIS A LOT OF THOUGHT. DID YOU
22	THINK OF A MUCH SIMPLER APPROACH, BECAUSE I AGREE
23	WITH JEFF'S INITIAL CONCERN, SIMPLER APPROACH OF
24	JUST DISCARDING ANY SCORE THAT'S MORE THAN TWO
25	STANDARD DEVIATIONS FROM THE MEAN AND THEN KEEP THE

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1	MEAN? IF THERE'S A SCORE THAT'S AN OUTLIER THAT'S
2	PULLING THE MEAN AWAY, JUST DISCARD IT IF IT'S MORE
3	THAN TWO SD'S AND KEEP THE MEAN.
4	MR. HARRISON: WE HAVE. AND TO BE CLEAR,
5	WE THINK ULTIMATELY THE BEST WAY FOR THE APPLICATION
6	REVIEW SUBCOMMITTEE TO MAKE ITS DECISION IS PROVIDE
7	YOU WITH ALL OF THE INFORMATION. SO WHEN WE PRESENT
8	APPLICATIONS OR RECOMMENDATIONS OF THE GWG TO THE
9	APPLICATION REVIEW SUBCOMMITTEE FOR ITS
10	CONSIDERATION, WE INCLUDE THE STANDARD DEVIATION, WE
11	INCLUDE THE MEAN, AND WE WILL INCLUDE THE MEDIAN.
12	SO YOU WILL HAVE ACCESS TO ALL OF THAT INFORMATION
13	BEFORE YOU MAKE A DECISION.
14	DR. MELMED: BUT THE REPORT WILL BE
15	MEDIAN. THAT'S WHAT I'M SUGGESTING, WE KEEP THE
16	MEAN, THAT MEANS EXCLUDE ANY ONE SCORE WHICH IS MORE
17	THAN TWO ABOVE OR BELOW THAT MEAN.
18	MR. HARRISON: RIGHT. I UNDERSTAND. WE
19	THINK GIVING YOU ALL OF THE INFORMATION, INCLUDING
20	WHAT THE STANDARD DEVIATION IS, SO YOU KNOW WHAT THE
21	LOWEST SCORES ARE AND THE HIGHEST SCORES, GIVES YOU
22	THE FULL RANGE OF INFORMATION RATHER THAN SIMPLY
23	EXCLUDING THAT INFORMATION.
24	CHAIRMAN THOMAS: FURTHER COMMENTS HERE?
25	WE SEEM TO HAVE TWO DIFFERENT APPROACHES THAT ARE

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1	BEING DISCUSSED. OTHER THOUGHTS ON ONE VERSUS THE
2	OTHER? OKAY. HEARING NONE
3	MR. SHEEHY: SO I THINK THAT I'M PRETTY
4	COMFORTABLE WITH THIS, BUT I THINK THAT I WOULD MOVE
5	TO ADOPT THIS BUT WITH $1-2-3$ FOR ALL INFRASTRUCTURE.
6	I WOULD MAKE THAT CHANGE.
7	MS. LAPORTE: I WOULD SECOND THAT.
8	CHAIRMAN THOMAS: IT'S BEEN MOVED AND
9	SECONDED WITH THAT AMENDMENT TO APPROVE THE
10	AMENDMENTS TO THE GWG BYLAWS. FURTHER DISCUSSION ON
11	THIS?
12	MR. HARRISON: COULD I ASK FOR ONE
13	CLARIFICATION ON THE MOTION? WOULD THAT INCLUDE THE
14	TRANSLATING CENTER, WHICH IS CURRENTLY BEING
15	REVIEWED UNDER THE 1 TO 100 SYSTEM?
16	MR. SHEEHY: NO.
17	MR. HARRISON: THANK YOU.
18	CHAIRMAN THOMAS: OKAY. HEARING NO
19	FURTHER DISCUSSION, ANY COMMENTS FROM MEMBERS OF THE
20	PUBLIC? JAMES, THIS IS STILL A VOICE VOTE EXCEPT
21	FOR THOSE ON THE PHONE?
22	MR. HARRISON: YES.
23	CHAIRMAN THOMAS: OKAY. ALL THOSE IN
24	FAVOR OF THE MOTION AS AMENDED PLEASE SAY AYE.
25	OPPOSED? ABSTENTIONS? MARIA, PLEASE CALL THE ROLL
	95

1	ON THE PHONE.
2	MS. BONNEVILLE: JACK DIXON.
3	DR. DIXON: AYE.
4	MS. BONNEVILLE: DAVID HIGGINS. KATHY
5	LAPORTE.
6	MS. LAPORTE: YES.
7	MS. BONNEVILLE: FRANCISCO PRIETO.
8	DR. PRIETO: AYE.
9	MS. BONNEVILLE: ROBERT QUINT.
10	DR. QUINT: AYE.
11	MS. BONNEVILLE: AL ROWLETT.
12	MR. ROWLETT: YES.
13	MS. BONNEVILLE: OS STEWARD.
14	DR. STEWARD: YES.
15	MR. HARRISON: MOTION CARRIES.
16	CHAIRMAN THOMAS: THANK YOU, MR. HARRISON.
17	ON TO ITEM 12, CONSIDERATION OF POLICY FOR
18	CIRM RESEARCH BUDGET ALLOCATION. MR. TOCHER.
19	MR. TOCHER: THANK YOU. AMY HAS PULLED UP
20	THE SLIDES FOR MY NEXT PRESENTATION, NEXT ITEM, BUT,
21	FIRST, THIS IS ITEM 12 IN YOUR VIRTUAL BINDERS.
22	WITH THIS ITEM, WE'RE PROPOSING FOR
23	ADOPTION A POLICY THAT ADDRESSES SOME OF THE ISSUES
24	THAT DR. MILLS TOUCHED UPON EARLIER THAT HAVE ARISEN
25	REGARDING HOW THE BOARD BUDGETS FOR CIRM RESEARCH
	96

1	PROGRAMS AND HOW THOSE BUDGETS ARE IMPLEMENTED WHEN
2	THE APPLICATION REVIEW SUBCOMMITTEE MEETS TO
3	CONSIDER APPLICATIONS FOR AWARDS UNDER THOSE
4	PROGRAMS.
5	NOW, HISTORICALLY THE ENTIRE BOARD MADE
6	FUNDING DECISIONS ON SPECIFIC GRANT APPLICATIONS IN
7	RESPONSE TO RFA'S THAT THE BOARD HAD ALREADY SET A
8	BUDGET FOR. CONSEQUENTLY, THE BOARD FROM TIME TO
9	TIME FUNDED PROJECTS THAT EXCEEDED THE BUDGET IF IT
10	DETERMINED THAT THOSE ADDITIONAL PROJECTS WARRANTED
11	FUNDING.
12	IN CONTRAST TODAY, OF COURSE, THE BOARD
13	SETS THE BUDGET FOR A GIVEN PROGRAM, AND
14	SUBSEQUENTLY A SUBCOMMITTEE OF THE BOARD MAKES THE
15	FUNDING DECISIONS ON INDIVIDUAL GRANTS. AS DR.
16	MILLS SHOWED YOU EARLIER, MOST PROGRAMS HAVE MORE
17	THAN ONE FUNDING CYCLE WITHIN A GIVEN YEAR, WHICH
18	PRESENTS AN ISSUE AS TO HOW THE APPLICATION REVIEW
19	SUBCOMMITTEE SHOULD OPERATE UNDER THOSE BUDGETS.
20	AND SO THAT'S THE SUBJECT OF THE PROPOSAL IN FRONT
21	OF YOU IN THE MEMO WHERE WE LAY OUT STEPS TO ADDRESS
22	THE FUNDING PROCESS.
23	SO BASICALLY WHAT WILL HAPPEN GOING
24	FORWARD IS WE WILL PRESENT TO YOU ON AN ANNUAL BASIS
25	TO THE FULL BOARD CONSIDERATION TO ADOPT A

1	CALENDAR-YEAR BUDGET FOR EACH ONGOING RESEARCH
2	PROGRAM. SO YOU WILL SEE A SPECIFIC BUDGET FOR
3	DISCOVERY, ANOTHER FOR TRANSLATION, AND ANOTHER FOR
4	OUR CLINICAL PROGRAMS. THE CALENDAR-YEAR BUDGET FOR
5	A PARTICULAR PROGRAM WILL INCLUDE ALL AWARDS THAT WE
6	FORESEE BEING APPROVED FOR FUNDING BY THE
7	APPLICATION REVIEW SUBCOMMITTEE DURING THAT CALENDAR
8	YEAR. AND THE PROPOSED BUDGET FOR EACH PROGRAM WILL
9	SPECIFY THE NUMBER OF CYCLES TO SUBMIT AN
10	APPLICATION FOR THAT PROGRAM DURING THE CALENDAR
11	YEAR. SO, FOR INSTANCE, IN CLIN THAT IS MONTHLY AND
12	FOR TRAN THREE TIMES A YEAR.
13	AT THE END OF THE YEAR, ANY UNSPENT FUNDS
14	WILL REVERT BACK TO THE GENERAL RESEARCH FUNDING
15	BUCKET THAT WILL BE REALLOCATED FOR FUTURE RESEARCH
16	BUDGETS IN SUBSEQUENT CALENDAR YEARS. HOWEVER, THE
17	APPLICATION REVIEW SUBCOMMITTEE MAY NOT EXCEED THE
18	BUDGET FOR A PARTICULAR PROGRAM EVEN IF ALL THE
19	FUNDS HAVE BEEN AWARDED BY THE APPLICATION REVIEW
20	SUBCOMMITTEE BEFORE EACH CYCLE IS COMPLETE.
21	AS A RESULT, THE NUMBER OF CYCLES WILL BE
22	AUTOMATICALLY REDUCED IF THE FUNDS FOR THAT PROGRAM
23	HAVE BEEN EXHAUSTED UNLESS THE BOARD ALLOCATES
24	ADDITIONAL FUNDS FOR THAT PROGRAM. SO THE EMPHASIS
25	HERE WILL BE ON THE BUDGET THAT THE BOARD APPROVES

1	FOR A GIVEN PROGRAM AND NOT SO MUCH ON THE NUMBER OF
2	CYCLES.
3	TO DR. MILLS' POINT EARLIER, WE'RE IN THE
4	TIME BUSINESS. SO IF THE MERITORIOUS PROJECTS
5	EXHAUST THE FUNDING PRIOR TO THE NUMBER OF CYCLES,
6	THEN SO BE IT. WE'LL FUND THE GOOD PROJECTS EARLY
7	IF WE CAN.
8	AND IF THERE ARE ANY QUESTIONS, I'M HAPPY
9	TO TAKE THEM.
10	CHAIRMAN THOMAS: SO WHERE THE ISSUE WILL
11	ARISE SPECIFICALLY IS THAT PARTICULAR MEETING OF THE
12	APPLICATION REVIEW SUBCOMMITTEE AT WHICH YOU HAVE
13	MORE THAT HAS BEEN RECOMMENDED FOR FUNDING BY THE
14	GRANTS WORKING GROUP THAN IS REMAINING TO BE
15	ALLOCATED. AND AT THAT PARTICULAR MEETING, WHAT
16	THIS MEANS IS THE APPLICATION REVIEW SUBCOMMITTEE IS
17	GOING TO HAVE TO MAKE SOME CHOICES WITH RESPECT TO
18	WHATEVER IS IN THE POT OF RECOMMENDED FOR FUNDING
19	PROJECTS SO AS TO KEEP WITHIN THE BUDGET. THAT WILL
20	GET INTO ITEMS THAT WILL BE DISCUSSED IN
21	PROGRAMMATIC REVIEW AND COULD ENTAIL SOME HARD
22	CHOICES WHEREIN PROJECTS THAT ARE RECOMMENDED FOR
23	FUNDING MAY NOT BE FUNDED AT THAT APPLICATION REVIEW
24	SUBCOMMITTEE MEETING OR FOR THE REMAINDER OF THE
25	YEAR.

1	I JUST WANT EVERYBODY TO BE CLEAR ON THAT.
2	MR. TOCHER: THAT'S RIGHT.
3	DR. GASSON: I'M SORRY. I MUST HAVE
4	MISUNDERSTOOD. I THOUGHT THAT RANDY SAID IN HIS
5	PRESENTATION THAT OUR GOAL WAS TO ALWAYS FUND THE
6	MOST MERITORIOUS APPLICATIONS AND THAT THERE WOULD
7	BE A MECHANISM TO INCREASE THE BUDGET IN ORDER TO
8	MAKE SURE THAT THAT WOULD HAPPEN. DID I
9	MISUNDERSTAND THAT?
10	DR. MILLS: SO OVER TIME, EVERY CALENDAR
11	YEAR IN DECEMBER WE'LL BE REBALANCING THE BUDGETS
12	BETWEEN THE THREE GROUPS: DISCOVERY, TRANSLATIONAL,
13	AND CLINICAL, WHERE WE'LL SET THE AMOUNT OF MONEY
14	THAT WE WANT TO SPEND IN A PARTICULAR AREA, THE
15	NUMBER OF CYCLES WE ANTICIPATE HOLDING IN ORDER TO
16	GET THAT. AND SO THAT'S DONE EACH YEAR AND THEN
17	REBALANCED.
18	AND ONE OF THE REASONS WE SET IT UP THAT
19	WAY WAS TO MAKE SURE THAT WE COULD HAVE THE GREATEST
20	NUMBER OF BOARD MEMBERS PARTICIPATE IN THE VOTE. SO
21	IN THE DECEMBER MEETING, WE SPECIFICALLY CARVE OUT A
22	TIME BETWEEN REVIEW CYCLES WHERE WE DON'T HAVE
23	APPLICATIONS UNDER REVIEW WHICH WOULD CONFLICT OUT
24	THE VAST MAJORITY OF THOSE WHO ARE FROM ACADEMIC
25	INSTITUTIONS FROM PARTICIPATING IN THE BUDGET
	100

1	SETTING PROCESS. AND SO WE DO THAT NOW THAT WE
2	HAVE THESE PROGRAMS SET UP, WE KNOW ROUGHLY HOW MUCH
3	WE WANT TO DO AND HOW MANY WE NEED IN ORDER TO
4	ACHIEVE OUR GOALS, AND WE PICKED THAT DECEMBER
5	MEETING AND WE DO IT. BUT WHAT'S VERY CLEAR IS THE
6	AMOUNT OF DEMAND WE HAVE FOR THESE PROGRAMS IS
7	DIFFERENT. YOU COULD ALSO THINK ABOUT A SUPPLY WE
8	HAVE FOR POTENTIAL APPLICANTS IS VERY DIFFERENT.
9	SO WE HAVE LOTS AND LOTS OF
10	SUPPLY FOR THE EARLIER STAGE APPLICATIONS. WITHOUT
11	DISCIPLINE, WE COULD HAVE A THOUSAND NEW CANDIDATES
12	IN DISCOVERY AND RUN OUT OF MONEY SO THAT WHEN THE
13	REALLY HIGH QUALITY CLINICAL TRIAL THAT WE REALLY
14	WANT TO FUND COMES ALONG, WE DON'T HAVE THE MONEY
15	FOR THAT ANYMORE.
16	SO THE POINT OF THIS IS TO TRY TO
17	PRESCRIBE WHAT WE WANT IN THESE THREE BUCKETS BY
18	YEAR, RECOGNIZING THEY'RE NOT GOING TO END UP
19	PERFECT AND THAT FROM YEAR TO YEAR WE'LL NEED TO
20	REBALANCE IN ORDER TO GET BACK ON PLAN. DOES THAT
21	MAKE SENSE?
22	DR. GASSON: YES. THANK YOU. THANK YOU,
23	MR. TOCHER, AS WELL.
24	CHAIRMAN THOMAS: OTHER COMMENTS FROM
25	MEMBERS OF THE BOARD? DO I HEAR A MOTION TO
	101

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1	APPROVE?
2	DR. JUELSGAARD: SO MOVED.
3	DR. DIXON: SO MOVED.
4	CHAIRMAN THOMAS: IT'S BEEN MOVED AND
5	SECONDED. COMMENTS FROM MEMBERS OF THE PUBLIC?
6	ADDITIONAL COMMENTS FROM MEMBERS OF THE BOARD?
7	MR. SHEEHY.
8	MR. SHEEHY: I WAS JUST HOPING WE HAD THAT
9	ITEM ABOUT DISCUSSING PROGRAMMATIC REVIEW THAT WE
10	COULD KIND OF BRING THAT UP.
11	CHAIRMAN THOMAS: I ACTUALLY BROUGHT THAT
12	UP WHILE YOU WERE OUT OF THE ROOM.
13	MR. SHEEHY: SORRY.
14	CHAIRMAN THOMAS: ANY OTHER COMMENTS FROM
15	MEMBERS OF THE BOARD? OKAY. ROLL CALL VOTE AGAIN.
16	ALL THOSE IN FAVOR PLEASE SAY AYE. OPPOSED?
17	ABSTENTIONS? MARIA, PLEASE POLL THOSE ON THE PHONE.
18	MS. BONNEVILLE: JACK DIXON.
19	DR. DIXON: AYE.
20	MS. BONNEVILLE: KATHY LAPORTE.
21	MS. LAPORTE: AYE.
22	MS. BONNEVILLE: FRANCISCO PRIETO.
23	DR. PRIETO: AYE.
24	MS. BONNEVILLE: ROBERT QUINT.
25	DR. QUINT: YES.
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1	MS. BONNEVILLE: AL ROWLETT.
2	MR. ROWLETT: YES.
3	MS. BONNEVILLE: OS STEWARD.
4	DR. STEWARD: YES.
5	MR. HARRISON: MOTION CARRIES.
6	CHAIRMAN THOMAS: THANK YOU, MR. HARRISON.
7	WE'RE NOW ON TO ITEM NO. 13, CONSIDERATION
8	OF THE ATP3 REVIEW PROCESS. BEFORE WE TURN THIS
9	OVER TO MR. TOCHER, I JUST WANTED TO SET THE TABLE
10	FOR THIS.
11	AS YOU RECALL, ATP3 OR ACCELERATING
12	THERAPIES PUBLIC PRIVATE PARTNERSHIP, IS A PROGRAM
13	THAT WE LAUNCHED THROUGH AN RFA THAT WAS ISSUED AT
14	THE BEGINNING OF JULY IN WHICH WE ARE LOOKING FOR
15	PROPOSERS TO SUBMIT A BUSINESS PLAN TO IN-LICENSE
16	SOME OF OUR MOST PROMISING TECHNOLOGIES ALL WITH AN
17	EYE TOWARDS TAKING THOSE TECHNOLOGIES AND
18	ACCELERATING THEM HOPEFULLY THROUGH
19	COMMERCIALIZATION. IT'S ANOTHER WAY TO TAKE WHAT
20	RANDY DESCRIBED AS THE PULL OF PUSH-PULL-LEVEL AND
21	GENERATE MORE INDUSTRY INVOLVEMENT IN THE CIRM
22	PROGRAMS.
23	THE PROPOSERS ARE TO SUBMIT BY OCTOBER 31
24	AND IN THEIR PROPOSAL TO SET FORTH A BUSINESS PLAN,
25	A DESCRIPTION OF THE MANAGEMENT TEAM, AND A
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1	WILLINGNESS TO MATCH WHAT CIRM IS PREPARED TO PUT
2	INTO THIS PROJECT. ON CIRM'S END, WE ARE LOOKING TO
3	PUT IN UP TO 75 MILLION IN THE FORM OF A CONVERTIBLE
4	NOTE. THEREFORE, PROPOSERS WOULD NEED TO BE ABLE TO
5	MATCH UP TO 75 MILLION. THE 75 MILLION THAT CIRM IS
6	PUTTING IN IS TO GO TO CIRM-FUNDED PROJECTS. THE
7	ENTITY THAT WOULD BE AWARDED THE ATP3 DESIGNATION
8	CAN USE ITS 75 MILLION TO ALSO GO TO CIRM-FUNDED
9	PROJECTS, BUT IT IS ALSO AT LIBERTY TO IN-LICENSE
10	PROJECTS THAT ARE NOT CIRM FUNDED, AND ANY MONEY
11	GOING TO THAT WOULD HAVE TO COME FROM THE ADDITIONAL
12	75 MATCH OR FROM ANY SUBSEQUENT FINANCING THAT THE
13	ENTITY WOULD CHOOSE TO PUT IN PLACE.
14	WE HAVE SPENT AS I SAID, I AND RANDY
15	AND NEIL SPENT A LOT OF TIME OUT ENCOURAGING
16	PROPOSALS FOR THIS INFRASTRUCTURE PROJECT. WE, IN
17	CONNECTION WITH THAT, ARE, FROM A CIRM POINT OF
18	VIEW, NOT ONLY PROVIDING THE 75 MILLION, BUT FOR
19	THOSE PROJECTS THAT ARE IN-LICENSED, THEY ARE
20	TYPICALLY MULTIYEAR AWARDS. SO ANYTHING THAT'S
21	IN-LICENSED INTO ATP3 WILL, IN ADDITION TO THE 75
22	MILLION THAT WE WOULD PUT IN, WOULD CARRY WITH IT
23	THE REMAINING FUNDING ON THE PARTICULAR PROJECT AT
24	ISSUE. WE ARE NOT PUTTING ANY CONSTRAINTS ON
25	PROPOSERS AS TO THE TYPES OF PROJECTS THAT THEY MAY
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1	CHOOSE TO INCLUDE IN THEIR BUSINESS PLAN. THEY MAY
2	CHOOSE TO FOCUS ON PARTICULAR INDICATIONS OR
3	DISEASES. THEY MAY FOCUS ON TECHNOLOGY CONNECTED TO
4	PROJECTS SUCH AS IPS OR CRISPR. THEY CAN PROPOSE AS
5	NARROW OR WIDE A RANGE AS THEY WANT. IT ALL COMES
6	DOWN TO BEING ABLE TO JUSTIFY THAT IN A VERY COGENT
7	AND TIGHT BUSINESS PLAN.
8	SO WHEN THE APPLICATIONS COME IN, IT IS
9	CONTEMPLATED THAT THEY WILL GO TO PEER REVIEW IN THE
10	JANUARY TIME FRAME SPECIFICALLY AROUND THE CONVENING
11	OF THE JP MORGAN CONFERENCE IN SAN FRANCISCO. THE
12	REASON WHY IT HAS BEEN CHOSEN THAT THAT WOULD BE THE
13	APPROPRIATE TIME IS THIS IS, FIRST AND FOREMOST, A
14	BUSINESS REVIEW. IT IS UNLIKE ANY THAT CIRM HAS HAD
15	TO DATE. THIS IS NOT THE TYPICAL REVIEW OF
16	SCIENTIFIC PROPOSALS. THIS IS REALLY REVIEW OF
17	BUSINESS, BUSINESS STRATEGY, PROPOSED MANAGEMENT,
18	ETC. AND, THEREFORE, THE MEMBERS OF THE TEAM ARE
19	UNLIKE ANY PEER REVIEW GROUP THAT WE WILL HAVE
20	PULLED TOGETHER IN THE PAST. AND THAT IS THE FOCUS
21	OF THE MEMO THAT MR. TOCHER HAS PREPARED AND WILL BE
22	PRESENTING TO US HERE.
23	SO AS INTRODUCTORY COMMENTS GO, I NOW TURN
24	IT OVER TO MR. TOCHER.
25	MR. TOCHER: THANK YOU, J.T. AND SO FOR
	105

1	THOSE OF YOU ON THE PHONE, I'M ON THE SLIDE
2	PRESENTATION FOR ITEM 13. ANIMATING THIS PROPOSAL
3	AS WITH ALL OF OURS IS OUR MISSION, ACCELERATING
4	STEM CELL TREATMENTS TO PATIENTS WITH UNMET MEDICAL
5	NEEDS. AS J.T. HAS JUST SET FORTH, IN DECEMBER OF
6	LAST YEAR, THE ICOC APPROVED THE CONCEPT PLAN FOR
7	ATP3 PUBLIC PRIVATE PARTNERSHIP, A KEY COMPONENT OF
8	OUR INFRASTRUCTURE PROGRAMS DESIGNED TO PULL CIRM
9	TECHNOLOGIES THROUGH TO THE CLINIC AND TO PATIENTS.
10	THIS AGENDA WILL DISCUSS CIRM'S PROPOSED
11	PROCESS TO SELECT THE ATP3 AWARDEE AND THEN TO
12	REVIEW THE PROPOSED CIRM RESEARCH PROJECTS THAT WILL
13	LATER BE IN-LICENSED AND DEVELOPED BY THE ATP3
14	AWARDEE.
15	FIRST I'LL JUST SPEND A FEW MINUTES
16	REFRESHING YOUR RECOLLECTION, IF J.T. HASN'T
17	ALREADY, OF THE KEY ATTRIBUTES OF THIS PROGRAM. AS
18	I MENTIONED, THIS PROGRAM FUNCTIONS AS A PULLING
19	FORCE, BRINGING CIRM TECHNOLOGIES FORWARD THROUGH
20	THE DEVELOPMENT PIPELINE. THE PULL COMES FROM
21	CREATING AN OPPORTUNITY TO FORM A NEW ENTITY THAT
22	WILL AGGREGATE CIRM'S MOST PROMISING INVENTIONS AND
23	TECHNOLOGIES IN A WAY THAT INCREASES THE PROBABILITY
24	OF COMMERCIAL SUCCESS AND ENTICES INDUSTRY
25	INVESTMENT.
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	1

1	IN ADDITION TO THE OPPORTUNITY TO
2	AGGREGATE CIRM TECHNOLOGIES, ATP3 WILL HARNESS
3	CIRM'S EXISTING ADMINISTRATIVE AND REVIEW
4	INFRASTRUCTURE, INCLUDING EXPERTS ON THE GRANTS
5	WORKING GROUP REVIEW PANEL TO PROVIDE THE ADDED
6	VISIBILITY INTO CIRM'S PORTFOLIO.
7	FINALLY, SINCE THIS IS, IN FACT, A
8	PARTNERSHIP, CIRM PROJECTS THAT ARE IN-LICENSED BY
9	THE NEW ENTITY WILL BE ELIGIBLE FOR CONTINUED CIRM
10	FUNDING OF THOSE TECHNOLOGIES.
11	OBVIOUSLY THE ULTIMATE SUCCESS OF THE
12	PROGRAM RIDES ON CIRM FINDING THE BEST POSSIBLE
13	PRIVATE PARTNER. IN TERMS OF THE TYPE OF ENTITY
14	WE'RE LOOKING FOR, WE'RE OPEN TO WHOMEVER MAKES THE
15	BEST CASE. THAT COULD BE AN ESTABLISHED COMMERCIAL
16	COMPANY, IT COULD BE SPINOFF, OR EVEN A NEW TEAM
17	FORMED BY VARIOUS PHARMA AND BIOTECH STAKEHOLDERS.
18	WHAT CIRM WILL INSIST ON, HOWEVER, IS THAT
19	THE PROPOSED ENTITY MUST HAVE AN EXCEPTIONAL
20	BUSINESS PLAN THAT DESCRIBES THE SYNERGIES, THE
21	VALUE CREATION, AND THE FINANCIAL RETURN TO ALL THE
22	STAKEHOLDERS THE ENTITY EXPECTS TO CREATE THROUGH
23	ITS TECHNOLOGY AGGREGATION STRATEGY, BUT THIS WON'T
24	BE TAKEN ON FAITH. THE APPLICANT MUST PROPOSE A TOP
25	TIER LEADERSHIP TEAM WITH A DEMONSTRATED SKILL SET
	107

1	NECESSARY TO SUCCESSFULLY EXECUTE THE BUSINESS PLAN.
2	AND THIS IS A PARTNERSHIP IN EVERY SENSE.
3	CIRM WON'T BE THE ONLY SKIN IN THE GAME. THE
4	AWARDEE, AS J.T. JUST LAID OUT, WILL BE REQUIRED TO
5	COMMIT SIGNIFICANT UPFRONT INVESTMENT CAPITAL
6	NECESSARY TO EXECUTE ON THE BUSINESS PLAN. IN
7	RETURN FOR ALL THIS, THE SUCCESSFUL APPLICANT WILL
8	HAVE ACCESS TO CIRM FUNDS TO CONTINUE SUPPORTING
9	DEVELOPMENT COSTS FOR THE IN-LICENSED PROGRAMS.
10	AS YOU CAN SEE, THEN, THE ATP3 PROGRAM IS
11	A HYBRID OF OUR TRADITIONAL INFRASTRUCTURE AND
12	RESEARCH PROGRAMS. ON THE ONE HAND, CIRM IS
13	PARTNERING TO CREATE A NEW ENTITY THAT WILL
14	IN-LICENSE, DEVELOP, AND DRIVE TOWARD
15	COMMERCIALIZATION AN AGGREGATED PORTFOLIO OF CIRM
16	PROJECTS. AND ON THE OTHER HAND, CIRM WILL PROVIDE
17	INFRASTRUCTURE TO REVIEW AND ADMINISTER THE
18	IN-LICENSING OF THOSE PROJECTS. THEREFORE, BECAUSE
19	THE IDENTIFICATION AND VETTING OF ATP3 CANDIDATES
20	WILL ENTAIL DIFFERENT CRITERIA FROM THE SCIENTIFIC
21	CONSIDERATION OF PROJECTS TO BE IN-LICENSED, CIRM
22	PROPOSES A TWO-STEP REVIEW PROCESS FOR THE ATP3
23	PROGRAM, A FIRST GRANTS WORKING GROUP REVIEW TO
24	SELECT THE ATP3 AWARDEE AND THEN SUBSEQUENT GRANTS
25	WORKING GROUP REVIEWS TO CONSIDER THE CIRM PROJECTS
	108
	100

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1	PROPOSED TO BE IN-LICENSED.
2	AS A FIRST STEP, THEN, THE GRANTS WORKING
3	GROUP WILL CONVENE TO REVIEW APPLICATIONS FOR THE
4	ATP3 AWARD AND MAKE FUNDING RECOMMENDATIONS TO THE
5	APPLICATION REVIEW SUBCOMMITTEE OF THE BOARD WHICH
6	WILL CHOOSE A SINGLE AWARDEE. THE GRANTS WORKING
7	GROUP WILL EVALUATE WHETHER A GIVEN APPLICATION SETS
8	FORTH THE FOLLOWING. FIRST IS AN AGGREGATION
9	STRATEGY. THE PROPOSAL SHOULD OUTLINE THE STRATEGY
10	AND SCIENTIFIC RATIONALE FOR THE TYPES OF
11	TECHNOLOGIES OR TECHNOLOGY PLATFORMS THE APPLICANT
12	INTENDS TO IN-LICENSE. SOME EXAMPLES OF THE
13	TECHNOLOGIES WOULD BE THE DISEASE INDICATIONS
14	TARGETED BY THE APPLICANT. OR THE PLATFORMS WOULD
15	BE IPS CELLS, HUMAN EMBRYONIC STEM CELLS, GENE
16	MODIFIED PLURIPOTENT OR PROGENITOR CELLS, SMALL
17	MOLECULES, OR SOME COMBINATION OF THESE.
18	THE REVIEW WILL ALSO EVALUATE THE
19	OPERATIONAL PLAN, WHICH WOULD BE A DESCRIPTION OF
20	HOW THE APPLICANT INTENDS TO DEVELOP AND
21	COMMERCIALIZE THESE TECHNOLOGIES. WE'LL ALSO LOOK
22	CAREFULLY AT THE VALUE PROPOSITION TO EVALUATE THE
23	SYNERGIES AND BENEFITS THAT THE APPLICANT INTENDS TO
24	REALIZE THROUGH THE TECHNOLOGY AGGREGATION APPROACH
25	THAT IT PROPOSES THAT WOULD RESULT IN A WORLD-CLASS
	109

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1	CELL THERAPY COMPANY.
2	AFTER THE APPLICATION REVIEW SUBCOMMITTEE
3	OF THE BOARD HAS MADE THE AWARD TO NEWCO, A SECOND
4	REVIEW WILL THEN OCCUR, AND NEWCO WILL BE REQUIRED
5	TO IDENTIFY CIRM PROJECTS TO IN-LICENSE.
6	DEVELOPMENT MILESTONES WILL BE AGREED TO IN THE
7	RESEARCH AND FINANCING AGREEMENT THAT NEWCO SIGNS TO
8	ENSURE THAT NEWCO ADHERES TO THE APPROPRIATE
9	TIMELINES FOR IN-LICENSING PROJECTS. ALL THE
10	PROPOSED PROJECTS FOR IN-LICENSING MUST UNDERGO A
11	REVIEW BY THE GRANTS WORKING GROUP AND THE
12	APPLICATION REVIEW SUBCOMMITTEE.
13	AND THE FOLLOWING SLIDE WILL DESCRIBE HOW
14	THAT REVIEW OF THOSE PROJECTS WILL OCCUR.
15	ESSENTIALLY THE LEVEL OF REVIEW OF THE PROJECTS TO
16	BE IN-LICENSED WILL DEPEND ON THE RECENCY OF THEIR
17	LAST GRANTS WORKING GROUP REVIEW. ESSENTIALLY, IF
18	THE PROPOSED PROJECT HAS HAD A FULL GRANTS WORKING
19	GROUP REVIEW IN THE PRECEDING 12 MONTHS, A NEW
20	GRANTS WORKING GROUP REVIEW WILL NOT BE REQUIRED
21	UNLESS CIRM DETERMINES THAT A REVIEW IS WARRANTED
22	BASED ON THE STATUS OF THE PROJECT, IN WHICH CASE
23	THE PROJECT WILL BE SUBJECT TO A GOOD STANDING
24	REVIEW, WHICH I'LL DESCRIBE IN STEP 2. IF IT'S BEEN
25	MORE THAN 12 MONTHS SINCE THAT GRANTS WORKING GROUP
	440

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1	REVIEW, BUT THE PROJECT IS STILL ACTIVE, THEN A GOOD
2	STANDING REVIEW WILL BE CONDUCTED TO ENSURE THAT THE
3	PROJECT HAS MET OR IS ON TARGET TO MEET MILESTONES;
4	OR IF THEY HAVEN'T MET THEIR MILESTONES, THAT
5	THEY'VE ESTABLISHED A VIABLE PATH TO ACCOMPLISH
6	THEM. FOR ALL OTHER PROJECTS, A FULL GRANTS WORKING
7	GROUP REVIEW WILL BE ADMINISTERED.
8	AND WITH THAT, I'M HAPPY TO TAKE ANY
9	QUESTIONS.
10	DR. JUELSGAARD: SO I THINK IT'S ON SLIDE
11	8, YOU REFER TO A RESEARCH AND FINANCING AGREEMENT,
12	WHICH WOULD BE AN AGREEMENT BETWEEN CIRM AND THE
13	ENTITY THAT'S CHOSEN; IS THAT RIGHT?
14	MR. TOCHER: THAT'S RIGHT.
15	DR. JUELSGAARD: IS THERE A DRAFT OF THAT
16	AGREEMENT THAT'S BEEN PREPARED AT THIS POINT?
17	MR. TOCHER: YES, THERE IS. I BELIEVE
18	IT'S AVAILABLE ONLINE.
19	MR. HARRISON: STEVE, WE'RE JUST IN THE
20	PROCESS OF MAKING FINAL REVISIONS TO THE DRAFT,
21	WHICH WE WOULD BE HAPPY TO SHARE WITH YOU AND OTHERS
22	ONCE WE'VE COMPLETED THAT PROBABLY IN THE NEXT WEEK.
23	DR. JUELSGAARD: BECAUSE IT LEADS TO THE
24	SECOND QUESTION, WHICH I KNOW YOU CONTEMPLATE THAT
25	THE OUTCOME OF THIS PROCESS WOULD BE THE SELECTION
	111

1	OF A SINGLE COMPANY, IN ESSENCE, TO CARRY FORWARD
2	WITH THE ATP3 PROPOSAL. AND THAT'S OBVIOUSLY THE
3	ULTIMATE GOAL. THE QUESTION IS HOW DOES ONE GET
4	THERE.
5	AND SOMETIMES, IN DEALING WITH THESE
6	ISSUES, IN ORDER TO ACHIEVE WHAT YOU WANT TO,
7	SOMETIMES YOU WIND UP DEALING IN A COMPETITIVE
8	SITUATION WHERE YOU MIGHT HAVE TWO DIFFERENT
9	COMPANIES THAT SEEM TO BE VIABLE ALTERNATIVES AND
10	YOU DON'T SELECT ONE AT THE OUTSET, BUT RATHER AS A
11	RESULT OF NEGOTIATION WITH THEM ON AN AGREEMENT
12	BETWEEN CIRM AND THE OTHER COMPANY BECAUSE THEY MAY
13	HAVE SLIGHTLY DIFFERENT VIEWS OF WHAT SHOULD BE IN
14	SUCH AN AGREEMENT AND WHAT MIGHT NOT. SO HAS ANY
15	THOUGHT BEEN GIVEN TO THIS PROCESS? IS IT JUST THAT
16	WE'RE GOING TO, NOT WE, BUT THE GRANTS WORKING GROUP
17	WILL SELECT A SINGLE COMPANY, OR IS IT POSSIBLE THAT
18	THEY MIGHT SELECT TWO THAT SEEM TO BE OF EQUAL MERIT
19	AND ALLOW FOR A LITTLE MORE COMPETITIVE BACK AND
20	FORTH? HOW HAVE WE THOUGHT ABOUT THAT?
21	MR. TOCHER: WE HAVE CONSIDERED THAT, AND
22	THE FOCUS OF THE PROJECT AT THIS POINT IS TO JUST
23	IDENTIFY AND FUND A SINGLE AWARDEE.
24	DR. JUELSGAARD: SO THAT DECISION WOULD
25	PREDATE THE FINAL NEGOTIATION AND EXECUTION OF THIS
	113

1	RESEARCH AND FINANCING AGREEMENT? IS THAT HOW YOU
2	PERCEIVE THE TIMELINE?
3	MR. TOCHER: YES, THAT'S RIGHT.
4	DR. JUELSGAARD: WELL, JUST I WOULD ASK
5	THAT WE THINK ABOUT WHETHER HOW WELL THAT MIGHT
6	OR MIGHT NOT WORK. ONCE A PARTY IS IN A
7	MONOPOLISTIC POSITION, THAT IS, THEY'VE BEEN
8	SELECTED, THEY CAN EXERT THAT MONOPOLY POWER IN
9	TERMS OF NEGOTIATION; WHEREAS, IF THEY'RE NOT A
10	MONOPOLIST, IF THERE'S SOMEBODY OUT THERE COMPETING
11	WITH THEM, THEIR BEHAVIOR MAY BE DIFFERENT. I JUST
12	RAISE THAT AS A CONSIDERATION.
13	MR. HARRISON: COULD I ADDRESS THAT? SO
14	THE GWG, UNDER THE SCORING SYSTEM, COULD RECOMMEND
15	TWO OR MORE APPLICATIONS FOR FUNDING IF FUNDS ARE
16	AVAILABLE IF IT FELT THAT THE TEAMS MERITED FUNDING.
17	AND THEN IT WOULD BE UP TO THE APPLICATION REVIEW
18	SUBCOMMITTEE WHICH COULD SELECT ITS TOP CHOICE WITH
19	A SECOND CHOICE ON DECK IN THE EVENT THAT WE WERE
20	UNABLE TO COMPLETE NEGOTIATIONS WITH THE FIRST
21	CHOICE.
22	YOU WILL ALSO REMEMBER WHEN THE IP AND
23	INDUSTRY AND SCIENCE SUBCOMMITTEE APPROVED THE TERMS
24	FOR THE AWARD, THE TERM SHEET INCLUDED A PROVISION
25	SPECIFYING THAT THE TERMS HAD BEEN APPROVED AND
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1	WOULD NOT BE MATERIALLY MODIFIED. SO WE WANTED TO
2	PUT POTENTIAL APPLICANTS ON NOTICE THAT THESE TERMS
3	WERE THE TERMS THAT WE WERE OFFERING AND THEY WERE
4	NOT SUBJECT TO WIDE-SCALE CHANGE.
5	DR. JUELSGAARD: GREAT.
6	CHAIRMAN THOMAS: OTHER QUESTIONS OR
7	COMMENTS FROM MEMBERS OF THE BOARD? ANY COMMENTS ON
8	THE PHONE? OKAY. DO I HEAR A MOTION TO APPROVE?
9	DR. JUELSGAARD: I SO MOVE.
10	CHAIRMAN THOMAS: MOVED BY MR. JUELSGAARD.
11	DR. DEAS: SECOND.
12	CHAIRMAN THOMAS: SECONDED BY DEAN DEAS.
13	ANY FURTHER DISCUSSION? COMMENTS FROM MEMBERS OF
14	THE PUBLIC? THIS IS, AGAIN, A ROLL CALL VOTE ON THE
15	PHONE, VOICE VOTE IN THE ROOM. ALL IN FAVOR PLEASE
16	SAY AYE. OPPOSED? ABSTENTIONS? MARIA, PLEASE POLL
17	THOSE ON THE PHONE.
18	MS. BONNEVILLE: JACK DIXON.
19	DR. DIXON: AYE.
20	MS. BONNEVILLE: KATHY LAPORTE. FRANCISCO
21	PRIETO.
22	DR. PRIETO: AYE.
23	MS. BONNEVILLE: ROBERT QUINT.
24	DR. QUINT: YES.
25	MS. BONNEVILLE: AL ROWLETT.
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	BARRISTERS REPORTING SERVICE
1	MR. ROWLETT: YES.
2	MS. BONNEVILLE: OS STEWARD.
3	DR. STEWARD: YES.
4	MR. HARRISON: MOTION PASSES.
5	CHAIRMAN THOMAS: THANK YOU, MR. HARRISON.
6	THANK YOU, MR. TOCHER.
7	WE ARE NOW GOING TO MOVE DOWN TO ITEM 16,
8	CONSIDERATION OF AMENDMENTS TO CIRM'S TRAVEL POLICY.
9	HEAR FROM MS. SILVA-MARTIN.
10	MS. SILVA-MARTIN: GOOD AFTERNOON, MR.
11	CHAIRMAN, MEMBERS OF THE BOARD. I WILL BE
12	PRESENTING REVISIONS RECOMMENDED REVISIONS TO
13	CIRM'S TRAVEL POLICY.
14	THE PRESENTATION WILL COVER SOME
15	BACKGROUND INFORMATION AS WELL AS SOME OF THE
16	AMENDMENTS THAT ARE BEING PROPOSED TO THE TRAVEL
17	POLICY.
18	THE LAST TIME THAT THE TRAVEL POLICY WAS
19	REVISED AND APPROVED BY THIS BOARD WAS IN DECEMBER
20	OF 2014. IN LARGE PART THE POLICY IS MODELED AFTER
21	THE UC TRAVEL POLICY. EARLIER THIS YEAR THE UC MADE
22	SOME FAIRLY SIGNIFICANT REVISIONS TO THEIR TRAVEL
23	POLICY, AND CIRM PROPOSES SIMILAR REVISIONS. THESE
24	AMENDMENTS TO THE TRAVEL POLICY HELP TO REDUCE
25	COSTS, THEY CONFORM TO IRS REQUIREMENTS, AND, MOST
	44-
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1	IMPORTANTLY, THEY PROMOTE FISCAL ACCOUNTABILITY.
2	SOME OF THE CHANGES IN THE POLICY ARE
3	REALLY TO CLARIFY THE APPROVALS THAT ARE REQUIRED IN
4	ORDER FOR A PERSON TO TRAVEL AS WELL AS THE FORMS
5	THEY NEED TO COMPLETE TO SEEK REIMBURSEMENT. OTHER
6	CHANGES ARE FAIRLY SIGNIFICANT, AND THEY ENSURE
7	CONFORMANCE WITH IRS POLICY AND UC POLICY AND, AS I
8	INDICATED EARLIER, HELP TO MAINTAIN FISCAL
9	ACCOUNTABILITY.
10	WHAT I'D LIKE TO DO NOW IS BRIEFLY REVIEW
11	SOME OF THE MAJOR CHANGES TO THE POLICY THAT ARE
12	BEING RECOMMENDED.
13	SO THE FIRST MAJOR CHANGE IS JUST A
14	DEFINITION TO INCIDENTALS. SO THE IRS RECENTLY
15	CHANGED WHAT CONSTITUTES INCIDENTALS, AND CIRM
16	POLICY IS BEING REVISED TO CONFORM TO THE NEW IRS
17	STANDARDS. INCIDENTALS INCLUDE FEES AND TIPS THAT
18	ARE GIVEN TO PORTERS, BAGGAGE CARRIERS, AND HOTEL
19	AND SHIP STAFF. PREVIOUSLY AND THOSE ARE THE
20	ONLY THINGS THAT CAN BE CLAIMED UNDER INCIDENTAL.
21	PREVIOUSLY ONE COULD CLAIM THINGS LIKE NEWSPAPERS,
22	TELEPHONE CALLS, AND THOSE ARE NO LONGER CONSIDERED
23	INCIDENTALS AND CANNOT BE CLAIMED UNDER THIS
24	CATEGORY.
25	THE POLICY ALSO ESTABLISHES A NEW TRAVEL
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	±±V

1	MANAGEMENT PROGRAM. SO UNDER THE DIRECTION OF OUR
2	GOVERNOR, THE STATE WAS TASKED WITH IDENTIFYING COST
3	EFFICIENT TRAVEL SERVICES. THIS REALLY RESULTED IN
4	A ONE-STOP TRAVEL PROGRAM. THAT TRAVEL PROGRAM IS
5	CALLED CONCUR. THIS CONCUR PROVIDES REALLY THE
6	MAXIMUM VALUE TO STATE AGENCIES BECAUSE IT UTILIZES
7	PRENEGOTIATED AIRFARES AND RENTAL CAR RATES AS WELL
8	AS LODGING ESTABLISHMENTS THAT HAVE AGREED TO THE
9	STATE-APPROVED RATES. OUR POLICY IS BEING REVISED
10	TO ESTABLISH CONCUR AS CIRM'S OFFICIAL TRAVEL
11	AGENCY.
12	ANOTHER AREA WHERE THERE IS SIGNIFICANT
13	CHANGE IS IN THE MEAL, INCIDENTAL, AND LODGING AREA.
14	SO NOW WE ARE INCLUDING RESTRICTIONS THAT PREVIOUSLY
15	WERE NOT THERE BEFORE. SO UNDER OUR CURRENT POLICY,
16	WE DO NOT HAVE ANY RESTRICTIONS WITH REGARD TO MEAL
17	AND INCIDENTALS AND LODGING WITHIN THE VICINITY OF
18	AN EMPLOYEE'S HEADQUARTERS OR THEIR HOME. BUT THE
19	POLICY HAS BEEN REVISED TO INCLUDE A SECTION THAT
20	WILL ELIMINATE REIMBURSEMENT FOR MEALS AND
21	INCIDENTALS WITHIN THE VICINITY OF AN EMPLOYEE'S
22	HEADQUARTERS, AND THEN LODGING EXPENSES CANNOT BE
23	INCURRED IF THEY ARE WITHIN 40 MILES OF THE
24	INDIVIDUAL'S HOME OR THEIR HEADQUARTERS.
25	WHAT THIS MEANS IS, FOR EXAMPLE, IF A CIRM
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1	TEAM MEMBER OR A BOARD MEMBER LIVES IN SAN FRANCISCO
2	AND THEY WANT TO GO TO A GWG MEETING IN OAKLAND, WE
3	WOULD NOT BE ABLE TO PROVIDE THEM WITH LODGING. ON
4	THE OTHER HAND, IF A BOARD MEMBER FROM SACRAMENTO
5	WAS TRAVELING TO OAKLAND FOR A GWG MEETING BECAUSE
6	IT IS 40 MILES OR MORE FROM THEIR HOME, WE WOULD BE
7	ABLE TO PROVIDE THEM LODGING. SO THIS IS A MAJOR
8	SIGNIFICANT CHANGE. THIS IS A CHANGE THAT THE UC'S
9	ALSO MADE, AND THIS CONFORMS TO THEIR POLICY AS
10	WELL.
11	ANOTHER AREA THAT PREVIOUSLY WASN'T IN OUR
12	TRAVEL POLICY THAT WE'VE NOW INCLUDED IS LONG-TERM
13	PARKING ACCOMMODATIONS. RIGHT NOW WE DON'T HAVE ANY
14	REQUIREMENT WITH RESPECT TO PARKING AT AIRPORTS OR
15	COMMON CARRIERS. WE ARE PROPOSING AN AMENDMENT TO
16	INTRODUCE A NEW REQUIREMENT THAT SAYS THAT TRAVELERS
17	MUST UTILIZE LONG-TERM PARKING WHEN THE TRAVEL IS
18	EXPECTED TO EXCEED MORE THAN 24 HOURS. I DO WANT TO
19	POINT OUT THAT IF AN INDIVIDUAL CHOOSES TO PARK IN
20	SHORT-TERM PARKING, THEY CAN DO SO, BUT THEY CAN
21	ONLY CLAIM THE LONG-TERM RATE FOR REIMBURSEMENT.
22	TRAVEL OF LESS THAN 24 HOURS. SO OUR
23	CURRENT POLICY ALLOWS FOR MEALS AND INCIDENTALS WHEN
24	A TRIP IS MORE THAN FIVE HOURS, BUT LESS THAN 24
25	HOURS. SO THE POLICY IS BEING REVISED, AGAIN
	110

1	CONSISTENT WITH UC POLICY, TO ELIMINATE THE MEAL AND
2	INCIDENTAL REQUIREMENT FOR REIMBURSEMENT FOR TRAVEL
3	OF LESS THAN 24 HOURS UNLESS THE TRAVEL INCLUDES AN
4	OVERNIGHT TRIP. SO, FOR EXAMPLE, IF AN INDIVIDUAL
5	TRAVELS FROM OAKLAND TO LOS ANGELES AND IT'S A
6	ONE-DAY TRIP, THEY LEAVE IN THE MORNING AND COME
7	BACK IN THE AFTERNOON, THEY CANNOT CLAIM MEALS OR
8	INCIDENTALS. ON THE OTHER HAND, IF THE TRIP IS FROM
9	OAKLAND TO LOS ANGELES, BUT THEY HAVE AN OVERNIGHT
10	HOTEL EXPENSE, THEN THEY ARE ENTITLED TO MEALS AND
11	INCIDENTALS. AGAIN, THESE ARE ALL IN CONFORMANCE
12	WITH IRS REQUIREMENTS.
13	AND THE LAST MAJOR CHANGE TO THE POLICY IS
14	THE INSURANCE REQUIREMENTS WHEN USING A PRIVATE
15	VEHICLE. SO WE HAVE ESTABLISHED MINIMUM LIABILITY
16	INSURANCE RATES AT 50,000 FOR PERSONAL INJURY OF ONE
17	PERSON, A HUNDRED THOUSAND ON THE INJURY OF TWO OR
18	MORE INDIVIDUALS, AND THEN 50,000 FOR PROPERTY
19	DAMAGE.
20	THIS CONCLUDES THE PRESENTATION. I'M
21	HAPPY TO ANSWER ANY QUESTIONS. WE REQUEST YOUR
22	APPROVAL OF THE PROPOSED AMENDMENTS TO THE CIRM
23	TRAVEL POLICY.
24	CHAIRMAN THOMAS: ANY COMMENTS FROM
25	MEMBERS OF THE BOARD? NOT SURE THERE'S A LOT ONE

1	CAN DO WITH THIS.
2	MR. TORRES: MOVE TO APPROVE.
3	CHAIRMAN THOMAS: MOVED BY SENATOR TORRES.
4	IS THERE A SECOND?
5	DR. PRIETO: SECOND.
6	CHAIRMAN THOMAS: ANY DISCUSSION BY
7	MEMBERS OF THE BOARD? ANY DISCUSSION BY MEMBERS OF
8	THE PUBLIC? ANOTHER VOICE VOTE, ROLL CALL ON THE
9	PHONE. ALL THOSE IN FAVOR PLEASE SAY AYE. OPPOSED?
10	ABSTENTIONS? MARIA, PLEASE CALL THE ROLL.
11	MS. BONNEVILLE: JACK DIXON.
12	DR. DIXON: AYE.
13	MS. BONNEVILLE: FRANCISCO PRIETO.
14	DR. PRIETO: AYE.
15	MS. BONNEVILLE: ROBERT QUINT.
16	DR. QUINT: ABSTAIN.
17	MS. BONNEVILLE: AL ROWLETT.
18	MR. ROWLETT: YES.
19	MS. BONNEVILLE: OS STEWARD.
20	DR. STEWARD: YES.
21	MR. HARRISON: MOTION CARRIES.
22	CHAIRMAN THOMAS: THANK YOU. THANK YOU,
23	CHILA, FOR THAT REPORT.
24	WE NOW ARE ON TO THAT CONCLUDES THE
25	ACTION ITEMS. WE'RE NOW ON TO DISCUSSION ITEMS, NO.
	120
	140

1	18, DISCUSSION OF PROGRAMMATIC REVIEW OF
2	APPLICATIONS. MR. SHEEHY.
3	MR. SHEEHY: I WAS JUST HOPING I THINK
4	PEOPLE I DON'T KNOW HOW MUCH OF THIS CAME UP WHEN
5	WE WERE DISCUSSING THE LIMITS NOW THAT WE HAVE ON
6	THE APPLICATION REVIEW SUBCOMMITTEE TO BE ABLE TO
7	EXPAND OUT THE FUNDING THAT WE GET. SO HISTORICALLY
8	THE BOARD HAS ALWAYS BEEN ABLE TO USE HAS OFTEN
9	DONE A FORM OF PROGRAMMATIC REVIEW AT THE BOARD TO
10	FUND PROJECTS BEYOND THE ANNOUNCED BUDGETS. NOW
11	THAT OUR ANNOUNCED BUDGETS ARE FIRM AND CANNOT BE
12	CHANGED, IT IS HIGHLY LIKELY THAT FOR THE FIRST TIME
13	IN POSSIBLY SIGNIFICANT NUMBERS WE WILL BE TAKING
14	PROJECTS OUT OF THE FUNDABLE RANGE. AND THE
15	MECHANISM BY WHICH WE WILL DO THAT WILL BE
16	PROGRAMMATIC REVIEW AT THE APPLICATION REVIEW
17	SUBCOMMITTEE.
18	SO I THOUGHT IT MIGHT BE HELPFUL FOR
19	PEOPLE TO FIRST BE AWARE THAT THAT'S LIKELY GOING TO
20	BE HAPPENING, THAT WE MAY HAVE A GREAT EXAMPLE IS
21	WE HAVE 45 MILLION IN TRANSLATION, AND WE BLEW
22	THROUGH 40 IN THE FIRST ROUND. IT MAY BE THAT WE
23	HAVE TEN PROJECTS WORTH 15 OR \$20 MILLION AND WE'RE
24	DOWN TO OUR LAST 4 OR 5 MILLION. SO THE APPLICATION
25	REVIEW SUBCOMMITTEE WILL HAVE TO MAKE TOUGH CHOICES,
	121

1	AND THE CRITERIA FOR WHICH THEY MAKE THOSE CHOICES,
2	I THINK, EACH INDIVIDUAL WILL HAVE TO ASK THEMSELVES
3	WHAT THEY'RE DOING. BUT I THINK IN ANTICIPATION OF
4	THAT HAPPENING, IT MIGHT BE IT SEEMED TO ME IT
5	MIGHT BE USEFUL TO HAVE AN OPPORTUNITY TO DISCUSS
6	WHAT THOSE KINDS OF CONSIDERATIONS WOULD BE.
7	LIKE FOR ME, JUST TO USE AN EXAMPLE, I
8	MIGHT BE REALLY INTERESTED IN AN EMBRYONIC STEM CELL
9	APPLICATION OR IPSC APPLICATION THAT GOT AN 88, AND
10	I WOULD BE RELATIVELY UNINTERESTED, JUST AS A
11	HYPOTHETICAL, IN A SMALL MOLECULE APPLICATION THAT
12	GOT A 96 OR 97. BUT FOR THOSE OF US WHO ARE GOING
13	TO BE MAKING THOSE TYPES OF THINGS, I THOUGHT AT
14	THIS MEETING, SINCE WE ARE KIND OF BECOMING AWARE OF
15	THE LIMITS ON THE APPLICATION REVIEW SUBCOMMITTEE,
16	THAT IF PEOPLE WANTED TO DISCUSS OR HAVE A
17	CONVERSATION. I DON'T THINK IT'S APPROPRIATE TO SET
18	IN PLACE HARD AND FAST CRITERIA THAT HANDCUFF
19	PEOPLE, BUT THIS IS JUST AN OPPORTUNITY. IF NO ONE
20	REALLY FEELS LIKE THAT'S SOMETHING THEY NEED TO
21	DISCUSS OR THEY WANT TO WAIT TILL IT ACTUALLY
22	HAPPENS, BUT I THINK IT'S GOOD FOR THE PUBLIC TO
23	KNOW, FOR APPLICANTS TO KNOW THAT THAT 90 THAT THEY
24	GET IN THE THIRD ROUND OF TRANSLATION MAY NOT BE
25	SOMETHING THEY CAN COUNT ON BEING FUNDED.
	122

1	SO I DON'T KNOW IF THAT NUANCE REALLY CAME
2	UP IN THE DISCUSSION OF THE BUDGETING CHANGE, BUT I
3	THINK IT'S SOMETHING THAT WE NEED TO BE AWARE OF AND
4	THAT THE PUBLIC NEEDS TO BE AWARE OF AND POTENTIAL
5	APPLICANTS NEED TO BE AWARE OF.
6	CHAIRMAN THOMAS: ANY THOUGHTS, COMMENTS
7	ON MR. SHEEHY'S REMARKS? ANY COMMENTS FROM MEMBERS
8	ON THE PHONE?
9	DR. STEWARD: JEFF, ARE YOU SUGGESTING
10	MAYBE A BROADER DISCUSSION OF THE DEGREE TO WHICH
11	INSTITUTIONAL MEMBERS CAN PARTICIPATE IN DISCUSSIONS
12	OF FUNDING IN GENERAL? IS THAT A FAIR SUMMARY?
13	MR. SHEEHY: I'M TRYING TO RAISE THE ISSUE
14	SO THAT PEOPLE CAN KIND OF LOOK AT IT IN ALL OF ITS
15	NUANCES. BECAUSE THE OTHER THING IS TOO THAT I
16	FORGOT TO MENTION IS EVEN EARLIER IN THE REVIEW, WE
17	MAY NOT NECESSARILY BE THAT EXCITED ABOUT FUNDING
18	85S IN THE FIRST ROUND. KNOWING THAT WE'RE LIMITED
19	IN TERMS OF BUDGET, WE MAY DECIDE THAT EVEN FUNDABLE
20	SCORES, EVEN WHEN WE HAVE AMPLE MONEY, WE MAY WANT
21	TO RESERVE THAT FOR BETTER PROJECTS. I JUST THINK
22	WE'RE LIVING IN WE HAVE TO ACKNOWLEDGE THAT WE'RE
23	LIVING IN AN ERA OF SCARCITY, THAT WE'RE GETTING
24	TOWARDS THE END OF OUR FUNDS. AND SIMPLY HAVING
25	OUTSTANDING SCIENCE, ESPECIALLY IN THESE LIMITED
	123

1	BUDGET ROUNDS, I THINK WE'RE GOING TO HAVE TO LOOK
2	AT EACH APPLICATION AND REALLY CONSIDER HOW THAT
3	IMPACTS OUR PROGRAM AND WHETHER IT FITS OR NOT, IN
4	MY OPINION.
5	YES, I THINK EVERYBODY SHOULD BE FEEL FREE
6	TO DISCUSS IF THEY HAVE ANY THOUGHTS.
7	DR. STEWARD: I WONDER IF THIS IS
8	SOMETHING WE MIGHT TAKE UP AT THE SCIENCE
9	SUBCOMMITTEE AS A FIRST PASS, AND THEN TRY TO GET
10	SOMETHING AGENDIZED FOR MAYBE THE DECEMBER MEETING
11	OR SOME OTHER IN-PERSON MEETING THAT'S COMING UP
12	PRETTY QUICKLY. IT'S A LOT TO TALK ABOUT.
13	DR. JUELSGAARD: SO LET ME FIRST, JEFF,
14	SAY THAT I COMPLETELY AGREE WITH YOU. IT'S GOING TO
15	BE SOMETHING NEW THAT WE'RE GOING TO HAVE TO TACKLE;
16	AND I AGREE WITH YOU, THAT I DON'T THINK WE CAN
17	PREESTABLISH CRITERIA BECAUSE THERE ARE GOING TO BE
18	DIFFERENT VIEWS ABOUT WHAT CRITERIA ARE IMPORTANT.
19	FOR EXAMPLE, ONE CRITERIA I MIGHT HAVE IS
20	YOU DON'T THROW GOOD MONEY AFTER BAD. IN OTHER
21	WORDS, IF A PROJECT HAS ALREADY SPENT A TREMENDOUS
22	AMOUNT OF MONEY AND WE'RE NOT GETTING ANYWHERE, NO
23	MATTER WHAT ITS SCIENTIFIC MERIT OF A PARTICULAR
24	PROPOSAL, AT SOME TIME ENOUGH IS ENOUGH AND YOU MOVE
25	ON. SO I THINK DIFFERENT VIEWS WILL BE BROUGHT TO

1	THE TABLE.
2	I WOULD DARE SAY THAT MOST OF THE PEOPLE
3	THAT ARE IN THIS ROOM THAT ARE ASSOCIATED WITH AN
4	ORGANIZATION ARE INVOLVED IN A BUDGETING PROCESS.
5	BECAUSE ALMOST EVERY ORGANIZATION, CERTAINLY IN THE
6	BUSINESS WORLD AND I WOULD IMAGINE IN THE ACADEMIC
7	WORLD AS WELL AS RESEARCH INSTITUTIONS, BUDGETS ARE
8	ESTABLISHED FOR PARTICULAR AREAS AS TO HOW MUCH
9	MONEY IS GOING TO BE SPENT. WHEN THAT HAPPENS, THEN
10	PRIORITIES ARE ESTABLISHED. AND IT'S JUST A
11	NECESSARY OUTCOME OF BUDGETING.
12	AND I THINK I'M PLEASED THAT WE'RE MOVING
13	TO A BUDGETING PROCESS AT THIS POINT. I THINK IT IS
14	NECESSARY SO WE CAN SPEND OUR LAST DOLLARS WISELY.
15	AND IT DOES MEAN THAT WE'RE GOING TO HAVE DIFFICULT
16	DECISIONS TO MAKE THAT WE HAVEN'T HAD TO MAKE
17	BEFORE; BUT, HEY, THAT'S WHAT COMES WITH THIS AUGUST
18	BODY IS TO MAKE THOSE DIFFICULT DECISIONS WHEN WE
19	ARE FACED WITH THEM ON THE BEST INFORMATION
20	AVAILABLE AND WHAT OUR VIEWS ARE AS TO WHAT PROGRAMS
21	ARE WORTHY OF PROCEEDING AND WHICH AREN'T. SO I SAY
22	LET'S JUST DEAL WITH IT AS IT COMES.
23	DR. STEWARD: MY POINT WAS THAT I TOTALLY
24	AGREE ON THE WADING AHEAD. IT IS JUST A SHAME THAT
25	WE DON'T HAVE THE ABILITY TO HAVE FULL PARTICIPATION

1	BY SOME OF OUR MOST KNOWLEDGE AND TALENTED MEMBERS
2	ON SOME OF THESE DECISIONS. AND I WONDER IF THAT'S
3	SOMETHING THAT WE COULD AGENDIZE TO DISCUSS. THANK
4	YOU.
5	DR. DEAS: SO MY ONLY COMMENT IS THAT I
6	CERTAINLY UNDERSTAND THAT WE WILL HAVE TO MAKE
7	DIFFICULT DECISIONS. AT THE SAME TIME, IF WE HAVE
8	GRANTS THAT ARE 95 AND ONE THAT'S 88 AND WE CHOOSE
9	THE 88 OVER THE 95, I THINK IT'S REALLY IMPORTANT
10	THAT WE HAVE SOME GUIDING PRINCIPLES BY WHICH WE
11	MAKE THOSE DECISIONS, EVEN PERHAPS SOME CRITERIA.
12	OTHERWISE WE OPEN OURSELVES UP FOR SCRUTINY IN TERMS
13	OF HOW WE MAKE THOSE DECISIONS.
14	CHAIRMAN THOMAS: ANY OTHER COMMENTS FROM
15	MEMBERS OF THE BOARD? OKAY. THANK YOU. HEARING
16	NONE, WE'LL NOW THIS DOES NOT REQUIRE A VOTE. IT
17	SOUNDS LIKE THE SENSE OF THE DISCUSSION IS TO HAVE
18	THIS CALENDARED AS A SCIENCE SUBCOMMITTEE TOPIC, SO
19	WE WILL PLAN TO DO THAT HENCEFORTH.
20	WE MOVE ON NOW TO THE LAST ITEM ON THE
21	AGENDA, WHICH IS A CLINICAL PROGRAMS UPDATE. DR.
22	MILLAN.
23	DR. MILLAN: CHAIRMAN THOMAS AND MEMBERS
24	OF THE BOARD, THANK YOU. IN THE NEXT TEN MINUTES OR
25	SO, I'LL JUST BE GIVING A BRIEF OVERVIEW AND UPDATE
	126

1	ON OUR CLINICAL PROGRAM.
2	SO TO DATE CIRM HAS AWARDED GRANTS TO FUND
3	21 CLINICAL TRIALS, AND 11 CURRENT PROJECTS ARE
4	PREPARING IND'S TO GO INTO THE CLINICS.
5	LISTED ON THIS CHART ARE CURRENT AND PAST
6	AWARDS TO FUND CLINICAL TRIALS. AND AS YOU CAN SEE,
7	THE MAJORITY ARE PHASE I OR PHASE I/IIA TRIALS. WE
8	DO HAVE TWO PHASE IIIS AND TWO PHASE II TRIALS THAT
9	ARE CURRENTLY ACTIVE.
10	TODAY I'D JUST LIKE TO FOCUS THE UPDATE ON
11	FOUR PROGRAMS IN THE CARDIOVASCULAR, OPHTHALMIC, AND
12	NEUROLOGIC SPACE. FOR THE FIRST AWARD, THIS AWARD
13	WAS GRANTED TO A COMPANY, CAPRICOR, WHICH IS A
14	CALIFORNIA-BASED COMPANY, TO TEST THEIR CELL PRODUCT
15	CALLED ALLOGENEIC CARDIOSPHERE-DERIVED CELLS. SO
16	IT'S AN ALLOGENEIC PRODUCT FROM DONATED TISSUES THAT
17	GIVE RISE TO A CELLULAR PRODUCT THAT GOES THROUGH
18	THE QUALITY SYSTEMS AND HAS BEEN CLEARED BY THE FDA
19	TO GO INTO CLINICAL TESTING.
20	THE TARGET FOR THIS PARTICULAR TRIAL
21	CALLED THE HOPE TRIAL IS FOR DUCHENNE MUSCULAR
22	DYSTROPHY CARDIOMYOPATHY, WHICH IS A LEADING CAUSE
23	OF DEATH IN ADOLESCENTS AND YOUNG ADULTS WITH
24	DUCHENNE MUSCULAR DYSTROPHY. THESE PATIENTS ARE
25	TREATED WITH STANDARD OF CARE CARDIAC MEDICATIONS TO
	127

1	DECREASE THE HEART LOAD AND TO TRY TO ALLEVIATE SOME
2	OF THESE SYMPTOMS; HOWEVER, THERE IS NO CURE FOR
3	THIS DISORDER.
4	THIS TRIAL, TESTING WHAT THEY CALL
5	CAP-1002, WHICH IS A CELL PRODUCT, IS INTENDED TO
6	TEST WHETHER THE CELL THERAPY RESULTS IN A BENEFIT
7	TO THESE PATIENTS. SO THE OUTCOME MEASURES FOR THE
8	STUDY ARE PRIMARILY SAFETY AND TOLERABILITY, BUT
9	ALSO TESTING FOR EFFICACY IN TERMS OF HEART FUNCTION
10	AND STRUCTURE AND QUALITY OF LIFE.
11	THE STATUS OF THIS TRIAL IS THAT THE
12	ENROLLMENT ACTUALLY HAS BEEN COMPLETED. IN THE NEXT
13	SLIDE, YOU'LL SEE THE DESIGN OF THIS TRIAL IS A
14	ONE-TO-ONE RANDOMIZED, OPEN LABEL TRIAL, COMPARING
15	PATIENTS WHO RECEIVE STANDARD OF CARE VERSUS THOSE
16	THAT RECEIVE STANDARD OF CARE AND THE CELL THERAPY.
17	THE COMPANY REPORTS A FAVORABLE SAFETY
18	PROFILE SO FAR. THE PATIENTS ARE UNDERGOING A
19	ONE-YEAR FOLLOW-UP, RECEIVING IMAGING AND CARDIAC
20	FUNCTION TESTING AS WELL AS CLINICAL EXAMS. AND
21	WE'LL BE GETTING MORE RESULTS ON THAT IN THE
22	UPCOMING YEAR.
23	THE NEXT TRIAL IS ALSO BEING PERFORMED BY
24	CAPRICOR WITH THE SAME PRODUCT, ALLOGENEIC
25	CARDIAC-DERIVED STEM CELLS, CAP-1002, FOR HEART
	128

1	FAILURE FOLLOWING MYOCARDIAL INFARCTION. AS WE
2	KNOW, HEART FAILURE FOLLOWING AN MI IS A PREVALENT
3	CONDITION IN THE U.S., AND THE INCIDENCE IS
4	INCREASING. THERE ARE MEDICATIONS THAT TREAT THE
5	HEART FAILURE, BUT ARE IMPERFECT. AND THE COMPANY,
6	BASED ON PRECLINICAL STUDIES THAT SHOW IN ANIMALS
7	THAT THERE IS DECREASED INFARCT SIZE AND IMPROVED
8	CARDIAC FUNCTION, HAS PURSUED THIS TRIAL. AND ALSO,
9	THEY HAD A FAVORABLE PHASE I CLINICAL SAFETY TRIAL
10	THAT WAS FUNDED BY THE NIH PRIOR TO THIS PHASE II
11	TRIAL THAT'S BEEN SUPPORTED BY CIRM.
12	THE PRIMARY OUTCOME MEASURES ARE SAFETY
13	FIRST, BUT IN ADDITION THEY'RE MEASURING THE INFARCT
14	SIZE BY MRI AS WELL AS CARDIAC FUNCTION.
15	THE DESIGN OF THIS TRIAL, THE SCHEMATIC AS
16	PROVIDED BY THE COMPANY, IS AS FOLLOWS. THE
17	PATIENTS ARE TREATED BY INTRACARDIAC INFUSION IN
18	THIS PHASE II 2:1 RANDOMIZED DOUBLE BLIND PLACEBO
19	CONTROLLED TRIAL. PATIENTS WHO BOTH SUFFERED FROM A
20	RECENT MI AS WELL AS THOSE WHO SUFFERED FROM AN MI
21	REMOTE TO THE INFUSION ARE BEING TESTED WITH SOME
22	PATIENTS RECEIVING THE CELLULAR PRODUCT AND THE
23	SECOND ARM, THE CONTROL ARM OF EACH GROUP, RECEIVING
24	PLACEBO.
25	THE TRIAL ENROLLMENT IS ALMOST COMPLETE.
	120

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1
     A TOTAL OF 120 PATIENTS WERE TARGETED, AND THE
 2
     COMPANY REPORTS SATISFACTORY ENROLLMENT. AND SO
 3
     THERE SHOULD BE MORE INFORMATION ON THIS TRIAL
 4
     SHORTLY. THERE IS A FAVORABLE SAFETY PROFILE AT
 5
     THIS POINT, AND THE COMPANY IS ENCOURAGED SO FAR
 6
     WITH THE STUDY.
 7
               SO SHIFTING GEARS --
               MR. SHEEHY: CAN I ASK A COUPLE OF
 8
 9
     QUESTIONS? FIRST -- WELL, LET ME ASK THEM BOTH.
                                                        S0
     ONE IS THEY HAVE DYNAMIC, AND I DON'T KNOW. I
10
     DIDN'T SEE ANYTHING ON DYNAMIC. IS THERE ANY
11
12
     INFORMATION ABOUT DYNAMIC THAT'S BEEN MADE
13
     AVAILABLE, WHICH IS THEIR OTHER CLINICAL TRIAL? AND
14
     THEN ALSO THEY ACTUALLY REDUCED THE NUMBER OF
15
     PATIENTS THEY'RE RECRUITING, RIGHT?
16
               DR. MILLAN: RIGHT. THE DYNAMIC TRIAL,
17
     ONE OF THEIR FIRST TRIALS WAS WITH AUTOLOGOUS.
18
               MR. SHEEHY: NO. DYNAMIC IS STILL
19
     CAP-1002. IT'S MORE ACUTE DISEASE.
20
               DR. MILLAN: WELL, I'LL HAVE TO GET BACK
21
     TO YOU ON THAT BECAUSE THAT'S NOT THE TRIAL THAT
22
     WE'RE FUNDING. THEY HAVE REPORTED IN THE PAST
23
     SOME --
24
               MR. SHEEHY: I THINK DYNAMIC IS OVER.
25
     JUST DIDN'T KNOW IF THEY REPORTED OR NOT. BECAUSE I
                              130
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1	WAS GETTING THIS FROM READING THEIR FINANCIALS, SO
2	THAT'S WHY.
3	DR. MILLAN: SO I CAN GET BACK TO YOU ON
4	THAT. THERE WERE SOME REPORTS ON THE DYNAMIC TRIAL
5	WITH SOME DECREASE IN INFARCT SIZE AND SCARRING THAT
6	SUPPORTED THE ALLSTAR TRIAL, THE CURRENT TRIAL.
7	THIS IS THE TRIAL THAT CIRM IS FUNDING.
8	IN TERMS OF THE NUMBERS, THE COMPANY DID
9	REDUCE THE SIZE OF THEIR PHASE II TRIAL BY A LITTLE
10	BIT, APPROXIMATELY ONE-HALF, AND THAT WAS BASED ON A
11	REVIEW OF THE PHASE I DATA AND INVOLVED A PANEL OF
12	KEY OPINION LEADERS AS WELL AS BIOSTATISTICIANS
13	LOOKING AT WHAT THEY WOULD NEED BASED ON THE
14	OBSERVATIONS THEY MADE FROM THE PHASE I EARLY
15	EFFICACY DATA TO SEE AN EFFECT IN THE PHASE II IN
16	TERMS OF SCAR SIZE AND IN TERMS OF CARDIAC FUNCTION.
17	ANY MORE QUESTIONS ON THE CARDIOVASCULAR
18	PORTFOLIO?
19	SO BACK TO THE OPHTHALMIC, THE INDICATION
20	THAT'S BEING EXPLORED BY DR. HENRY KLASSEN FROM UC
21	IRVINE IS RETINITIS PIGMENTOSA, WHICH AFFLICTS ONE
22	IN 4,000 AMERICANS, RESULTING IN LEGAL BLINDNESS IN
23	OTHERWISE HEALTHY INDIVIDUALS BY THE AGE OF 40. IT
24	RESULTS FROM THE NEURODEGENERATION OF
25	PHOTORECEPTORS. SO THE PRODUCT, WHICH IS AN
	131

1	ALLOGENEIC, AGAIN FROM DONATED TISSUE, RETINAL
2	PROGENITOR CELLS IS INTENDED, BY DIRECT INTRAOCULAR
3	ADMINISTRATION, TO PROVIDE WHAT'S CALLED
4	NEUROTROPHIC SUPPORT TO RESCUE THESE PHOTORECEPTORS.
5	AND THEY HAD A STRONG PRECLINICAL DATA PACKAGE AS
6	EVALUATED BY OUR REVIEW GROUP TO SUPPORT GOING INTO
7	THIS CLINICAL TRIAL.
8	THE PRIMARY OUTCOME MEASURES FOR THIS
9	TRIAL ARE SAFETY AND OCULAR FUNCTION, WHICH I'LL
10	DESCRIBE IN A LITTLE BIT. AND THE STATUS OF THIS
11	TRIAL IS THEY'VE COMPLETED ENROLLMENT OF 28 SUBJECTS
12	WITH 12-MONTH FOLLOW-UP IN FIVE SUBJECTS. AND THIS
13	IS SOMETHING THAT THE COMPANY DID GIVE CLEARANCE TO
14	SHARE WITH YOU TO TODAY.
15	SO FAR IN THIS STUDY, THEY'VE HAD A
16	FAVORABLE SAFETY PROFILE, AND THEY ARE ENCOURAGED BY
17	THE TYPES OF SIGNALS THEY'RE SEEING AND WILL BE
18	REPORTING ON THAT SHORTLY.
19	I'M JUST SHOWING THE SCHEMATIC HERE OF HOW
20	THEY PERFORMED THIS PHASE I-IIA OPEN LABEL,
21	SINGLE-ARM STUDY. THEY HAD TESTED FOR DOSES IN TWO
22	TYPES OF PATIENTS. GROUP ONE ARE LEGALLY BLIND
23	PATIENTS THAT HAD MEASURED VISION OF 20/200 TO BEING
24	ABLE TO SEE HANDWAVING ONLY. AND GROUP TWO ARE
25	THOSE WITH POOR VISION TESTED AS 20/63 TO 20/200

1	VISION.
2	THEY FIRST WENT INTO THE LEGALLY BLIND
3	POPULATION WITH ONE-HALF MILLION CELLS ADMINISTERED
4	INTO THE WORST SEEING EYE OF THE TWO EYES. AND
5	AFTER DSMB REVIEW PROCEEDED TO GO ON TO THE NEXT
6	GROUP OF PATIENTS WITH A HIGHER DOSE. AND THEN
7	AFTER THAT, EXPERIENCE WAS CLEARED BY THEIR DSMB TO
8	GO BOTH INTO THE HIGHER DOSE OF 2 MILLION AS WELL AS
9	TO DO A DOSE, ESCALATING DOSE STUDY IN THOSE WITH
10	POOR VISION, SO THE LESS AFFECTED PATIENTS.
11	THE OPTIC TREATMENT OF THE WORST SEEING
12	EYE, THESE WERE FOLLOWED FOR 12 MONTHS BY CLINICAL
13	EXAM, INCLUDING WHAT'S CALLED LOW VISION TESTS.
14	THOSE ARE SPECIALIZED TESTS TO LOOK AT VISION IN
15	PATIENTS WHO OTHERWISE CAN'T BE EVALUATED BY
16	STANDARD VISION TESTS.
17	SO THERE IS, AS I MENTIONED, FAVORABLE
18	RESULTS SO FAR, AND THE COMPANY DOES INTEND TO NOW
19	GO FORWARD TO A PHASE IIB TRIAL.
20	THE FINAL PROGRAM I'D LIKE TO BRING TO
21	YOUR ATTENTION IS OUR PROGRAM WITH FUNDING ASTERIAS.
22	YOU MAY RECALL THAT THE FIRST TRIAL FUNDED BY CIRM
23	WAS FROM A COMPANY CALLED GERON WITH EMBRYONIC STEM
24	CELL-DERIVED OLIGODENDROCYTE PROGENITOR CELLS, WHICH
25	ARE COMPANY LABELS AST-OPC1. SO THESE ASSETS HAVE

1	SINCE BEEN ACQUIRED BY ASTERIAS. THE PREVIOUS TRIAL
2	WAS IN THORACIC SPINAL CORD INJURY. THE CURRENT
3	TRIAL IS IN CERVICAL SPINAL CORD INJURY. AND AS
4	MANY OF YOU ARE AWARE OF, A CERVICAL SPINAL CORD
5	INJURY COULD RESULT IN QUADRIPLEGIA AND VERY SEVERE
6	MANIFESTATIONS.
7	OVERALL APPROXIMATELY 12,000 AMERICANS AND
8	OFTEN YOUNG AMERICANS SUFFER SPINAL CORD INJURY EACH
9	YEAR WITH A SIGNIFICANT NUMBER OF THOSE BEING
10	CERVICAL SPINAL CORD INJURY. THIS LEADS TO A HIGH
11	LEVEL OF PERMANENT DISABILITY AND DECREASED LIFE
12	EXPECTANCY. THERE IS NO CURRENT TREATMENT.
13	THE STUDY IS THE DIRECT INJECTION OF THE
14	CELLULAR PRODUCT, AST-OPC1 INTO THE RADIOLOGICALLY
15	CONFIRMED AREA OR LESION RESULTING FROM THE TRAUMA
16	THAT LED TO THE SPINAL CORD INJURY. THE PRIMARY
17	OUTCOME MEASURE IS SAFETY, BUT ALSO EFFICACY
18	MEASURES, INCLUDING NEUROLOGIC FUNCTION BY UPPER
19	EXTREMITY MOTOR SCORES, AS WELL AS EVALUATION OF THE
20	DEFICIT BASED ON INTERNATIONAL STANDARDS FOR
21	NEUROLOGIC CLASSIFICATION OF SPINAL CORD INJURY.
22	THE STATUS ON THIS AWARD IS THAT THEY HAVE
23	COMPLETED ENROLLMENT OF TWO COHORTS. THE COMPANY
24	HAS RECENTLY SUPPORTED THEIR OBSERVATIONS AT A
25	MEETING IN SEPTEMBER OF THIS YEAR AT THE
	134

1	INTERNATIONAL SPINAL CORD INJURY MEETING. AND I'LL
2	GET INTO THAT A LITTLE BIT MORE.
3	ON THIS SLIDE YOU WILL FIND A SCHEMATIC OF
4	THE CLINICAL TRIAL. THE FIRST TWO COHORTS IN THIS
5	TRIAL ARE, THEY'RE ABBREVIATED INJURY SCORE, OR
6	AIS A, WHICH IN SPINAL CORD INJURY MEANS IF THERE IS
7	A COMPLETE DISRUPTION OF SENSORY AND MOTOR FUNCTION
8	BELOW THE LEVEL OF THE LESION. THE FIRST TWO
9	COHORTS HAVE COMPLETED DOSING. THE FIRST COHORT
10	RECEIVED 2 MILLION CELLS AND THE NEXT COHORT
11	RECEIVED 10 MILLION CELLS.
12	THE DATA MONITORING COMMITTEE HAS MET
13	TWICE, AT LEAST TWICE, TO APPROVE STUDY PROGRESSION
14	FROM COHORT 1 TO COHORT 2, AND HAS RECENTLY APPROVED
15	THE COMPANY TO MOVE FORWARD FROM COHORT 2 TO COHORT
16	3 AND COHORT 4. COHORT 3 BEING PATIENTS WHO ALSO
17	HAVE THE COMPLETE INJURY BELOW THE LEVEL OF THE
18	LESION OF THE COMPLETE MOTOR AND SENSORY DEFICIT
19	BELOW THE LEVEL OF THE LESION TO RECEIVE EVEN A
20	HIGHER CELL DOSE OF 20 MILLION CELLS. AND COHORT 4
21	IS A NEW SUBSET OF PATIENTS THAT HAVE THE
22	ABBREVIATED INJURY SCORE OF B, WHICH MEANS THAT
23	THERE'S INCOMPLETE, MEANING THERE'S AN INCOMPLETE
24	INJURY WHERE THEY HAVE PRESERVED SOME SENSORY
25	FUNCTION BELOW THE LEVEL OF THE LESION ALTHOUGH
	135
	±33

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1	STILL HAVE MOTOR DEFICITS BELOW THE LEVEL OF THE
2	LESION.
3	THE SIGNIFICANCE OF THIS IS PATIENTS WITH
4	AIS B, IN ADDITION TO SOME RESIDUAL NEUROLOGIC
5	FUNCTION, ALSO HAVE AN INCREASED CHANCE OF SOME
6	SPONTANEOUS RECOVERY.
7	SO THE COMPANY PRESENTED AT THE
8	INTERNATIONAL SPINAL CORD SOCIETY MEETING JUST
9	SEVERAL WEEKS AGO, ACTUALLY SEPTEMBER 14TH, SO JUST
10	A WEEK AGO, AND AT THAT MEETING THEY PRESENTED THE
11	FOLLOWING RESULTS. YOU WILL SEE A PICTURE OF THE OR
12	PROCEDURE WHERE THERE'S DIRECT INJECTION OF THE
13	CELLS. BELOW IT IS THE ACTUALLY EXPOSED SPINAL CORD
14	WHERE THEY INFUSE THE CELLS INTO THE AREA OF INJURY.
15	THEY REPORTED NO SERIOUS ADVERSE EVENTS RELATED TO
16	THE INVESTIGATIONAL CELL PRODUCT OR THE SURGERY, AND
17	REPORTED THE SUBJECTS WITH SUBACUTE CERVICAL SPINAL
18	CORD INJURY TOLERATED THE INTERVENTIONAL PROCEDURE
19	WELL. AND THEY ALSO DID REPORT POSSIBLE EFFICACY
20	SIGNALS AT 90 DAYS.
21	AS SHOWN IN THE PREVIOUS SLIDE, THEIR
22	FOLLOW-UP IS UP TO ONE YEAR, SO THIS IS STILL EARLY,
23	SO THERE'S SOME CAUTIOUS FAVORABLE SENSE FOR THIS
24	DATASET, BUT THEY DO NOTE THAT THEY STILL NEED
25	LONGER FOLLOW-UP WITH MORE PATIENTS.

1	SO THAT'S IT WITH
2	CHAIRMAN THOMAS: ISN'T IT FAIR TO SAY
3	THAT THE POTENTIAL EFFICACY THAT THEY'RE OBSERVING
4	WAS A LITTLE SURPRISING TO THEM BECAUSE THEY DIDN'T
5	EXPECT TO SEE THAT UNTIL LARGER DOSES?
6	DR. MILLAN: WHAT THEY REPORTED AT THE
7	MEETING IS THAT THEY FOUND THIS TO BE A VERY
8	FAVORABLE RESULT, AND THAT THERE IS, AS I MENTIONED,
9	SOME RECOVERY BECAUSE THEY ARE GOING INTO THE
10	SUBACUTE, MEANING JUST VERY PROXIMATE TO THE INJURY
11	PHASE. SO THERE IS SOME NATURAL HISTORY OF SOME
12	RECOVERY, BUT TYPICALLY THAT OCCURS AT NOT SUCH A
13	FAST PACE. SO HAVING AN EARLY READ, I THINK, WAS A
14	FAVORABLE SIGNAL. AND ALSO WHAT THEY REPORTED AT
15	THE MEETING IS THAT THEY SAW THIS EFFECT IN THE
16	HIGHER DOSE, IN THE 10 MILLION DOSE, WHICH THEY
17	DIDN'T SEE IN THE 2 MILLION DOSE RANGE IN THAT SAME
18	SUBSET OF PATIENTS. SO THAT TO THEM WAS ENCOURAGING
19	FOR MAYBE EARLY INDICATION OF DOSE RESPONSE.
20	SO THEY ARE GOING INTO THE 20 MILLION DOSE
21	RANGE AGAIN WITH THAT SAME AIS A SUBPOPULATION OF
22	COMPLETE INJURY PATIENTS, AND WE'LL SEE WHAT THAT
23	DATA HAS.
24	ONE THING THEY DID ACKNOWLEDGE IS THIS IS
25	ENCOURAGING, BUT IT'S EARLY, AND THE NUMBER OF
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1	PATIENTS THAT THEY'VE ENROLLED SO FAR, THEY STILL
2	HAVE FOLLOW-UP ON THE PATIENTS THEY'VE ENROLLED AS
3	WELL AS MORE PATIENTS TO ADD TO THEIR DENOMINATOR.
4	CHAIRMAN THOMAS: OKAY. DR. DULIEGE.
5	DR. DULIEGE: THIS IS EXACTLY WHAT WE'RE
6	ALL HERE FOR, TO SEE THAT ULTIMATELY. MORE OF THAT.
7	THAT'S WHAT THE PATIENTS AND THEIR FAMILIES ARE ALL
8	HERE TO SEE.
9	BACK TO THE ALSO ENCOURAGING RESULTS IN
10	THE RP PROGRAM AT UC IRVINE, THIS IS ONE OF THE
11	THREE EXAMPLES, THE ONE THAT IS DONE BY A
12	UNIVERSITY, DO YOU KNOW WHAT THEIR PLANS ARE? IF
13	THEY CONTINUE TO SHOW SOME ENCOURAGING RESULTS TO BE
14	FOR PHASE II, WILL THEY TRY TO PARTNER THIS OUT WITH
15	A BIOPHARMACEUTICAL COMPANY? WILL THEY TRY TO
16	CONTINUE TO PHASE III ON THEIR OWN? WHAT'S THE IDEA
17	THERE?
18	DR. MILLAN: SO CURRENTLY DR. KLASSEN HAS
19	PARTNERED WITH A SPINOUT COMPANY CALLED JCYTE. AND
20	THEY'RE GOING THROUGH THEIR CORPORATE STRATEGY OF
21	HOW TO PARTNER THIS. THE COMPANY HAS AND DR.
22	KLASSEN HAVE BOTH SAID THAT I COULD SHARE THAT THEY
23	ARE CURRENTLY IN THE PROCESS OF PLANNING AND
24	PREPARING FOR THEIR PHASE IIB.
25	DR. DULIEGE: GREAT.
	120
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1	CHAIRMAN THOMAS: OTHER COMMENTS FROM
2	MEMBERS OF THE BOARD?
3	MR. TORRES: MOVE TO ADJOURN.
4	CHAIRMAN THOMAS: OTHER COMMENTS FROM
5	MEMBERS OF THE BOARD? THE ADMINISTRATIVE ISSUE
6	HERE, WE HAVE LUNCH THAT WE HAVE PAID FOR
7	IMMEDIATELY NEXT DOOR, ON THE OTHER SIDE OF THE WALL
8	FOR THOSE IN THE ROOM. FOR THOSE ON THE PHONE,
9	SORRY, YOU'RE ON YOUR OWN.
10	DR. DIXON: THOSE NEW TRAVEL RULES.
11	CHAIRMAN THOMAS: EXACTLY. SO OUR NEXT
12	IN-PERSON MEETING IS DECEMBER 13TH IN THE BAY AREA
13	AT A PLACE TBD. YES. WITH THAT, I KNOW WE WILL NOW
14	ADJOURN, AND I KNOW EVERYBODY JOINS ME IN WISHING
15	GREAT GOOD FORTUNE FOR THE DODGERS TO MAKE A DEEP
16	RUN INTO THE PLAYOFFS. THANK YOU VERY MUCH.
17	MS. CHEUNG: JUST ONE MORE THING, OUR NEXT
18	ICOC APPLICATION REVIEW SUBCOMMITTEE IS OCTOBER
19	19TH, AND I'LL BE SENDING INFORMATION ABOUT THAT
20	SHORTLY.
21	CHAIRMAN THOMAS: THANK YOU. WE STAND
22	ADJOURNED.
23	(THE MEETING WAS THEN CONCLUDED AT 12:48 P.M.)
24	
25	
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1	
2	
3	
4	REPORTER'S CERTIFICATE
5	
6	
7	
8	I, BETH C. DRAIN, A CERTIFIED SHORTHAND REPORTER IN
9	AND FOR THE STATE OF CALIFORNIA, HEREBY CERTIFY THAT THE FOREGOING TRANSCRIPT OF THE PROCEEDINGS BEFORE
10	THE INDEPENDENT CITIZEN'S OVERSIGHT COMMITTEE AND THE APPLICATION REVIEW SUBCOMMITTE OF THE CALIFORNIA
11	INSTITUTE FOR REGENERATIVE MEDICINE IN THE MATTER OF ITS REGULAR MEETING HELD AT THE LOCATION INDICATED
12	BELOW
13	MARRIOTT LA JOLLA
14	MARRIOTT LA JOLLA 4240 LA JOLLA VILLAGE DRIVE
15	LA JOLLA, CALIFORNIA ON CEDTEMBER 21 2016
16	SEPTEMBER 21, 2016
17	WAS HELD AS HEREIN APPEARS AND THAT THIS IS THE ORIGINAL TRANSCRIPT THEREOF AND THAT THE STATEMENTS
18	THAT APPEAR IN THIS TRANSCRIPT WERE REPORTED STENOGRAPHICALLY BY ME AND TRANSCRIBED BY ME. I
19	ALSO CERTIFY THAT THIS TRANSCRIPT IS A TRUE AND ACCURATE RECORD OF THE PROCEEDING.
20	
21	
22	BETH C. DRAIN, CSR 7152
23	BARRISTERS' REPORTING SERVICE 160 S. OLD SPRINGS ROAD
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