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

LOCATION: AS INDICATED ON THE AGENDA

DATE: JANUARY 25, 2017
10 A.M.

REPORTER: BETH C. DRAIN, CSR
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I N D E X

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2. ROLL CALL.	3
3. CONSIDERATION OF ALPHA CLINICS CONCEPT PLAN.	4
4. CONSIDERATION OF CHANGES TO THE DISCOVERY, TRANSLATION, AND CLINICAL CONCEPT PLANS.	11
5. PUBLIC COMMENT	NONE
6. ADJOURNMENT	48

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JANUARY 25, 2017

10 A.M.

CHAIRMAN SHEEHY: GOOD MORNING, EVERYONE.
THIS IS JEFF SHEEHY. I'M CALLING THE SCIENCE
SUBCOMMITTEE MEETING TO ORDER. MARIA, COULD YOU
CALL THE ROLL PLEASE.

MS. BONNEVILLE: DEBORAH DEAS. ANNE-MARIE
DULIEGE. DAVID HIGGINS.

DR. HIGGINS: HERE.

MS. BONNEVILLE: STEVE JUELSGAARD.

MR. JUELSGAARD: HERE.

MS. BONNEVILLE: BERT LUBIN. SHLOMO
MELMED.

DR. MELMED: HERE.

MS. BONNEVILLE: JEFF SHEEHY.

CHAIRMAN SHEEHY: HERE.

MS. BONNEVILLE: OS STEWARD.

DR. STEWARD: HERE.

MS. BONNEVILLE: JONATHAN THOMAS.

CHAIRMAN THOMAS: HERE.

MS. BONNEVILLE: ART TORRES.

MR. TORRES: HERE.

MS. BONNEVILLE: KRISTINA VUORI.

DR. VUORI: HERE.

1 CHAIRMAN SHEEHY: THANK YOU. SO THE FIRST
2 ITEM ON THE AGENDA IS CONSIDERATION OF THE ALPHA
3 CLINICS CONCEPT PLAN. AND I THINK NEIL LITTMAN IS
4 GOING TO TAKE US THROUGH A PRESENTATION ON THAT.

5 MR. LITTMAN: THANK YOU, JEFF. SO AS JEFF
6 MENTIONED, THIS IS NEIL LITTMAN. I'M THE DIRECTOR
7 OF BUSINESS DEVELOPMENT AND STRATEGIC INFRASTRUCTURE
8 HERE AT CIRM. AND I WILL BE WALKING THROUGH THE
9 CONCEPT PROPOSAL FOR THE ALPHA STEM CELL CLINICS
10 NETWORK EXPANSION AWARD. THE PRESENTATION IS UP FOR
11 THOSE OF YOU FOLLOWING ALONG ON WEBEX.

12 SO JUST VERY BRIEFLY, I'M GOING TO START
13 WITH A BRIEF OVERVIEW OF THE EXISTING NETWORK AND
14 PROGRESS TO DATE. I'M GOING TO TALK ABOUT THE
15 CONCEPT PROPOSAL FOR THIS EXPANSION AWARD, THE
16 TIMELINE, BUDGET, AND EXPECTED OUTCOMES.

17 AS YOU ALL ARE AWARE, THE MISSION OF CIRM
18 IS TO ACCELERATE STEM CELL TREATMENTS TO PATIENTS
19 WITH UNMET MEDICAL NEEDS. TO SUPPORT THIS MISSION,
20 CIRM CREATED THE ALPHA STEM CELL CLINIC NETWORK TO
21 CONDUCT HIGH QUALITY STEM CELL CLINICAL TRIALS. THE
22 ORIGINAL AWARD WAS LAUNCHED IN DECEMBER OF 2015, AND
23 THE NETWORK CURRENTLY INCLUDES SITES AT LEADING
24 ACADEMIC MEDICAL CENTERS, INCLUDING CITY OF HOPE, UC
25 SAN DIEGO, UCLA IN PARTNERSHIP WITH UCI.

1 THE ALPHA CLINIC NETWORK HAS ONE UNIFYING
2 GOAL, WHICH IS TO ACCELERATE THE DEVELOPMENT AND
3 DELIVERY OF HIGH QUALITY STEM CELL CLINICAL TRIALS
4 TO PATIENTS. THE NETWORK IS CURRENTLY SUPPORTING 29
5 CLINICAL TRIALS, HAVING ENROLLED OVER 150 PATIENTS
6 TO DATE. THESE TRIALS INCLUDE BOTH CIRM-FUNDED
7 PROGRAMS AS WELL AS NON-CIRM-FUNDED BOTH ACADEMIC
8 AND INDUSTRY SPONSORED TRIALS. SEVEN OUT OF THE 29
9 TRIALS CURRENTLY ARE SUPPORTED BY CIRM FUNDING, 65
10 PERCENT OF THE TRIALS ARE INDUSTRY SPONSORED, AND 35
11 PERCENT OF THE TRIALS ARE INVESTIGATOR SPONSORED.
12 YOU CAN SEE THE PATIENT ENROLLMENT NUMBERS AT EACH
13 ALPHA CLINIC SITE UNDER THE BAR GRAPH ON THE CHART.

14 THE OBJECTIVE OF THIS EXPANSION AWARD IS
15 TO SUPPORT ADDITIONAL ALPHA CLINIC SITES THAT WILL
16 DELIVER CORE SERVICES NECESSARY TO CONDUCT HIGH
17 QUALITY STEM CELL CLINICAL TRIALS, SUPPORT THE
18 TRAINING AND CAREER DEVELOPMENT OF PHYSICIANS
19 SEEKING TO PERFORM CLINICAL TRIALS, AND ENHANCE THE
20 OVERALL VALUE OF THE NETWORK. THE PROPOSED SITES
21 COULD ENHANCE THE VALUE OF THE NETWORK BY, FOR
22 EXAMPLE, BROADENING THE NETWORK'S GEOGRAPHIC REACH,
23 PROVIDING NEW OR UNIQUE TECHNICAL CAPABILITIES, OR
24 OTHER ELEMENTS THAT ACCELERATE OR SUPPORT STEM CELL
25 CLINICAL TRIALS.

1 IF APPROVED, THIS AWARD WILL PROVIDE A
2 TOTAL OF \$16 MILLION FOR TWO NEW ALPHA CLINIC SITES
3 OR A TOTAL OF 8 MILLION PER AWARD OVER A FOUR-YEAR
4 PERIOD. FUNDING WILL GO TOWARD PROVIDING CLINICAL
5 INFRASTRUCTURE TO CALIFORNIA-BASED MEDICAL CENTERS
6 TO OPERATE AN ALPHA CLINIC STEM CELL CENTER. THE
7 CLINICS WILL PROVIDE A PLATFORM, I.E., PERSONNEL,
8 FACILITIES, AND OPERATIONS, SPECIFICALLY DEDICATED
9 TO SUPPORT THE UNIQUE NEEDS OF CLINICAL TRIALS AND
10 INVESTIGATIONAL CELL THERAPIES.

11 IN TERMS OF THE TIMELINE, WE INTEND TO
12 TAKE THIS PROPOSAL TO THE ICOC IN FEBRUARY, RELEASE
13 THE RFA THE BEGINNING OF MARCH, APPLICATION DEADLINE
14 IS MAY 15TH. ASSUMING A POSITIVE GWG REVIEW IN JUNE
15 OR JULY, WE INTEND TO TAKE THIS BEFORE THE ICOC FOR
16 FINAL APPROVAL IN AUGUST, WITH AN ESTIMATED LAUNCH
17 DATE FOR THE NEW EXPANSION SITES IN OCTOBER.

18 EXPECTED OUTCOMES OF THE AWARD MUST
19 DEMONSTRATE CONTINUOUS IMPROVEMENTS IN TRIAL
20 START-UP TIME; PROTOCOL OPTIMIZATION; AND PIPELINE
21 EXPANSION; TO INTEGRATE WITH OTHER CIRM
22 INFRASTRUCTURE PROGRAMS, INCLUDING EXISTING NETWORK
23 AS WELL AS OUR NEW STEM CELL CENTER; AND TO CREATE A
24 SUSTAINABLE PLATFORM FOR ONGOING DELIVERY OF STEM
25 CELL TREATMENTS TO PATIENTS.

1 ORGANIZATIONS FUNDED UNDER THIS AWARD MUST
2 PARTICIPATE IN A COORDINATED EFFORT TO DEVELOP
3 SYSTEMS AND CAPACITIES TO ACCELERATE THE EFFICIENT
4 DELIVERY OF TREATMENTS TO PATIENTS. THE ALPHA
5 CLINIC STEM CELL NETWORK IS ONE OF MULTIPLE
6 COORDINATED INFRASTRUCTURE PROGRAMS DESIGNED TO
7 OVERCOME OBSTACLES AND ACCELERATE THE PROGRESSION OF
8 TREATMENTS THROUGH TRANSLATIONAL, THROUGH CLINICAL,
9 AND CLINICAL TRIALS IN SUPPORT OF CIRM'S MISSION OF
10 DELIVERING STEM CELL TREATMENTS TO PATIENTS WITH
11 UNMET MEDICAL NEEDS.

12 WITH THAT, I WILL PAUSE AND ANY QUESTIONS.

13 CHAIRMAN SHEEHY: ARE THERE ANY QUESTIONS
14 FROM ANY OF THE SITES FROM ANY MEMBERS OF THE BOARD?

15 DR. JUELSGAARD: JEFF, THIS IS STEVE
16 JUELSGAARD. I HAVE A COUPLE QUESTIONS.

17 CHAIRMAN SHEEHY: SURE.

18 DR. JUELSGAARD: SO, NEIL, THE FIRST
19 QUESTION IS I JUST WANT TO CONFIRM THAT THE NON-CIRM
20 TRIALS THAT ARE GOING ON AT THE FOUR DIFFERENT
21 CENTERS, THEY'RE ALL STEM CELL OR REGENERATIVE
22 MEDICINE TRIALS; IS THAT RIGHT?

23 MR. LITTMAN: THAT'S CORRECT. YES, THAT'S
24 CORRECT.

25 DR. JUELSGAARD: AND THEN THE SECOND

1 THING, I FOUND IT INTERESTING THAT THE CITY OF HOPE
2 HAS SO MANY MORE TRIALS GOING ON THAN THE OTHER
3 THREE CENTERS. WHAT IS IT THAT THE CITY OF HOPE IS
4 DOING THAT CAUSES IT TO BE SUCH A GREAT CENTER FOR
5 DOING CLINICAL TRIALS? DO YOU HAVE ANY INSIGHT INTO
6 THAT?

7 MR. LITTMAN: VERY GOOD QUESTION. THE
8 CITY OF HOPE IS A LEADING ACADEMIC CENTER FOR
9 TRANSPLANTS, HEMATOPOIETIC STEM CELL TRANSPLANTS. I
10 THINK THEY DO THE SECOND MOST TRANSPLANTS IN THE
11 COUNTRY. AND SO THEY ARE HIGHLY FOCUSED ON CANCER.
12 OBVIOUSLY CANCER IS A LARGE COMPONENT OF NOT ONLY
13 CIRM'S PORTFOLIO, BUT WHAT THE INDUSTRY IS TARGETING
14 IN TERMS OF REGENERATIVE MEDICINE AND CELL
15 THERAPIES. AND BECAUSE OF CITY OF HOPE'S EXPERTISE,
16 PARTICULARLY IN CANCER, THEY HAVE A VERY ACTIVE AND
17 ROBUST PROGRAM.

18 DR. JUELSGAARD: SO I TAKE IT FROM THAT
19 WHAT YOU ARE SAYING IS IS THAT MOST OF THE CLINICAL
20 TRIALS THAT ARE ON THAT BAR CHART ARE REALLY RELATED
21 TO THE CANCER AREA IN TERMS OF STEM CELLS AND
22 REGENERATIVE MEDICINE?

23 MR. LITTMAN: THAT IS CORRECT. FOR THE
24 CITY OF HOPE, THAT IS CORRECT.

25 DR. JUELSGAARD: OKAY. THANK YOU.

1 CHAIRMAN SHEEHY: ARE THERE OTHER --

2 MR. TORRES: I JUST MIGHT ADD THAT THE
3 CITY OF HOPE, HAVING BEEN IN MY DISTRICT FOR YEARS,
4 HAS BEEN AT THE FOREFRONT OF CANCER RESEARCH, AND
5 THEY HAVE A GREAT AND LONG HISTORY.

6 CHAIRMAN SHEEHY: IT'S POSSIBLE THAT IT'S
7 ALSO IMPACTED BY THEIR MANUFACTURING CAPACITY, WHICH
8 I THINK IS PROBABLY WITH UC DAVIS THE BEST IN THE
9 STATE, AT LEAST FOR EARLY STAGE CLINICAL TRIALS.

10 ARE THERE OTHER QUESTIONS FROM OTHER
11 MEMBERS?

12 DR. VUORI: VERY NICE PRESENTATION, AND
13 CONGRATULATIONS ON REALLY HAVING ESTABLISHED ALREADY
14 THIS VERY ROBUST NETWORK. I WAS CURIOUS HOW MUCH
15 COLLABORATION THERE IS BETWEEN THE VARIOUS ALPHA
16 CLINICS. ARE THERE TRIALS THAT ENROLL PATIENTS WITH
17 MULTIPLE SITES? OR GIVEN THE CLOSE GEOGRAPHIC
18 PROXIMITY OF THE EXISTING SITES, THAT MAY NOT BE
19 NECESSARY.

20 MR. LITTMAN: SO VERY GOOD QUESTION.
21 THERE'S A LOT OF COLLABORATION BETWEEN THE SITES.
22 IN FACT, WE'VE PUT IN PLACE WHAT WE CALL AVARS, OR
23 ACCELERATING VALUE ADDED RESOURCES, ACROSS THE
24 NETWORK. AND SO THERE'S VERY CLOSE COLLABORATION.
25 WE HAVE MONTHLY CALLS BETWEEN ALL OF THE NETWORK

1 SITES. WE HAVE AN ANNUAL SYMPOSIUM THAT'S COMING UP
2 IN MARCH. AND SO THE IDEA IS THAT THE NETWORK AS A
3 WHOLE WILL CREATE AND ADD ADDITIONAL VALUE, THEN
4 EACH SITE COULD OPERATE INDEPENDENTLY. SO THAT'S
5 THE PART OF THE AVAR. SO, FOR INSTANCE, ONE
6 PARTICULAR AVAR IS A PATIENT RECRUITMENT TOOL TO
7 HELP ALL THE SITES RECRUIT PATIENTS FASTER FOR
8 TRIALS WITHIN THE NETWORK.

9 DR. VUORI: THANK YOU.

10 CHAIRMAN SHEEHY: ANY OTHER QUESTIONS? SO
11 COULD I GET A MOTION TO APPROVE THE CONCEPT PLAN?

12 MR. TORRES: SO MOVED.

13 CHAIRMAN SHEEHY: BY SENATOR TORRES. CAN
14 I GET A SECOND?

15 CHAIRMAN THOMAS: SECOND.

16 CHAIRMAN SHEEHY: SECONDED BY CHAIRMAN
17 THOMAS.

18 IS THERE ANY PUBLIC COMMENT AT ANY OF THE
19 SITES? MARIA, COULD YOU CALL THE ROLL.

20 MS. BONNEVILLE: SURE. DEBORAH DEAS.

21 ANNE-MARIE DULIEGE. DAVID HIGGINS.

22 DR. HIGGINS: YES.

23 MS. BONNEVILLE: STEVE JUELGAARD.

24 MR. JUELGAARD: YES.

25 MS. BONNEVILLE: BERT LUBIN. SHLOMO

1 MELMED. DR. MELMED? JEFF SHEEHY.
2 CHAIRMAN SHEEHY: YES.
3 MS. BONNEVILLE: OS STEWARD.
4 DR. STEWARD: YES.
5 MS. BONNEVILLE: JONATHAN THOMAS.
6 CHAIRMAN THOMAS: YES.
7 MS. BONNEVILLE: ART TORRES.
8 MR. TORRES: AYE.
9 MS. BONNEVILLE: KRISTINA VUORI.
10 DR. VUORI: YES.
11 MS. BONNEVILLE: DR. MELMED.
12 DR. MELMED: YES.
13 MS. BONNEVILLE: THANK YOU.
14 CHAIRMAN SHEEHY: MOTION CARRIES. THANK
15 YOU.
16 NOW FOR ITEM 4, DR. SAMBRANO WILL TAKE US
17 THROUGH THAT.
18 DR. SAMBRANO: THANK YOU, MR. SHEEHY. I
19 ALSO HAVE SLIDES THAT ARE ON WEBEX, AND THEY'VE BEEN
20 DISTRIBUTED IF YOU'D LIKE TO FOLLOW ALONG. WHAT I'M
21 GOING TO PRESENT TO YOU ARE SOME PROPOSED AMENDMENTS
22 TO OUR CLINICAL, TRANSLATIONAL, AND DISCOVERY
23 CONCEPTS THAT WILL IMPACT THE PROGRAM ANNOUNCEMENT
24 THAT WE HAVE FOR ALL OF THESE RECURRING FUNDING
25 OPPORTUNITIES. SOME OF WHAT I'M GOING TO GO OVER IS

1 GOING TO BE APPLICABLE GLOBALLY, AND SOME OF THEM
2 ONLY TO SPECIFIC CONCEPTS. AND I'LL LET YOU KNOW
3 WHICH ONES THOSE ARE.

4 THERE IS A MEMO THAT WAS PROVIDED BY JAMES
5 HARRISON THAT ALSO SUMMARIZES THE SPECIFIC CHANGES
6 THAT WE INTEND TO MAKE AS WELL AS HOW THEY IMPACT
7 THE SPECIFIC CONCEPT DOCUMENTS. SO THAT IS SHOWN
8 WITH TRACK CHANGES IN THOSE DOCUMENTS.

9 WITH THE SLIDES, I'M JUST GOING TO GO OVER
10 THE BIG PICTURE CONCEPT OF THESE. THE FIRST ONE
11 THAT'S SHOWN ON THE FIRST SLIDE IS A GOOD STANDING
12 REQUIREMENT. SO FOR SOME TIME NOW WE HAVE BEEN,
13 THROUGH OUR APPLICATION PROCESS, COLLECTING
14 INFORMATION FROM APPLICANTS WHERE WE ASK THEM TO
15 VERIFY THAT THEY HAVE SYSTEMS IN PLACE TO TRACK CIRM
16 FUNDS, THAT THE PI OR OTHER OFFICIALS FROM THE
17 ORGANIZATION ARE NOT CURRENTLY UNDER INVESTIGATION
18 FOR CRIMES INVOLVING FRAUD OR MISAPPROPRIATION. AND
19 WE HAVEN'T REALLY HAD A SITUATION WHERE SOMEBODY HAS
20 CHECKED AFFIRMATIVELY ON ANY OF THESE, BUT WE ALSO
21 REALIZE THAT IF ANYBODY DOES, WE DON'T HAVE WITHIN
22 THE CONCEPT OR THE PROGRAM ANNOUNCEMENT THE ABILITY
23 TO DO SOMETHING ABOUT IT.

24 SO WHAT WE WANTED TO DO HERE IS MAKE IT AN
25 ELIGIBILITY REQUIREMENT. SO THE ELIGIBILITY

1 REQUIREMENT WOULD BE THAT THE APPLICANT MUST
2 DEMONSTRATE THAT THEY ARE IN GOOD STANDING AND WOULD
3 VERIFY THAT THEY HAVE A SYSTEM IN PLACE TO TRACK
4 FUNDS, THAT THEY HAVEN'T BEEN CONVICTED OF, UNDER
5 INVESTIGATION FOR CRIMES AND MISAPPROPRIATION. AND,
6 IN ADDITION, THAT THE PI IS NOT UNDER INVESTIGATION
7 FOR RESEARCH MISCONDUCT AND IS NOT FAR EXCEEDING
8 RESEARCH FUNDS BY THE OFFICE OF RESEARCH INTEGRITY.
9 SO WE WANT TO INCLUDE THAT.

10 ON THE NEXT SLIDE THERE ARE A COUPLE OF
11 ITEMS THAT RELATE TO PERSONNEL ELIGIBILITY. THE
12 FIRST RELATES TO PROJECT MANAGER. WE WOULD LIKE,
13 NOW THAT WE HAVE IN PLACE OUR STEM CELL OR
14 TRANSLATING CENTER AND ACCELERATING CENTER, WHICH
15 NOW JUST COMBINES THE STEM CELL CENTER, ALL
16 APPLICANTS TO FULFILL THE REQUIREMENT OF HAVING A
17 PROJECT MANAGER THROUGH THE CENTER SIMPLY BECAUSE IT
18 ITSELF PROVIDES PROJECT MANAGEMENT SERVICES. SO WE
19 WOULD LIKE TO ALLOW THAT TO BE A WAY OF DOING IT.
20 AND THAT WOULD APPLY TO THE CLIN AND TRAN PROGRAMS.

21 NOW, FOR PERCENT EFFORT OF THE PI, AND
22 THIS NOW APPLIES ONLY TO THE CLINICAL PROGRAMS, WE
23 WOULD LIKE TO ALLOW A PI TO PROPOSE AND JUSTIFY THE
24 PERCENT EFFORT THAT WOULD BE CONSISTENT WITH
25 ACHIEVING THE PROJECT'S AIMS RATHER THAN

1 SPECIFICALLY REQUIRING 30 PERCENT. WE'VE COME
2 ACROSS SITUATIONS WHERE THE PERCENT EFFORT COULD BE
3 LESS, AND WE DON'T WANT TO PREVENT OR RESTRICT WHAT
4 WOULD BE THE MOST APPROPRIATE PI FROM PARTICIPATING
5 IN THESE PROJECTS. AT THE SAME TIME, WE WANT TO
6 MAKE SURE THAT THEY ARE DEDICATING SUFFICIENT TIME.
7 SO RATHER THAN HAVING THIS ELEMENT BE PART OF THE
8 ELIGIBILITY CRITERIA, WE WANT IT TO BE SOMETHING
9 THAT'S THE SUBJECT OF THE PEER REVIEW SUCH THAT
10 REVIEWERS WOULD DETERMINE WHETHER OR NOT THE PI IS
11 DEDICATING SUFFICIENT EFFORT TO ACCOMPLISH THE
12 ACTIVITIES THAT ARE PROPOSED.

13 ON THE NEXT SLIDE BEGINS SOME PROJECT
14 ELIGIBILITY CHANGES THAT WE'D LIKE TO PROPOSE. THE
15 FIRST IS A READINESS CRITERION FOR CLIN1
16 APPLICATIONS. THOSE ARE THE IND-ENABLING STUDIES
17 UNDER THE CLINICAL PROGRAM. AND HERE WE WANT TO
18 REDUCE THE TIME TO IND FILING FROM 24 MONTHS TO 18
19 MONTHS. SO THE REQUIREMENT HERE WOULD BE THAT
20 SOMEBODY COMING IN WOULD HAVE, AS PART OF THEIR
21 TIMELINE AND PROPOSAL, A PLAN TO ACHIEVE THE IND
22 FILING NO LATER THAN 18 MONTHS INTO THE PROJECT.
23 THE PROJECT ITSELF COULD EXTEND TO 24 MONTHS BECAUSE
24 WE DO ALLOW CLINICAL START-UP ACTIVITIES, BUT THE
25 GOAL HERE IS TO MAKE SURE THAT WE ARE ACHIEVING OUR

1 GOAL OF REDUCING THE TIME TO GET A STEM CELL
2 TREATMENT FROM DISCOVERY TO THE CLINIC AND REDUCING
3 THAT BY 50 PERCENT. THAT IS ONE OF OUR BIG SIX
4 GOALS, AND THIS IS ONE MECHANISM BY WHICH WE CAN DO
5 THAT.

6 MR. TORRES: ON THAT POINT, DR. SAMBRANO,
7 HAVE YOU HAD PUSHBACK FROM POTENTIAL GRANTEES IN
8 RESPECT TO SHORTENING THAT TIME FRAME?

9 DR. SAMBRANO: NO. WELL, WE HAVEN'T
10 IMPLEMENTED THIS YET. BUT HERE WE HAVE PROJECTS
11 THAT WOULD EITHER COME IN AND BE READY FOR CLIN1,
12 MEANING THEY'RE 18 MONTHS AWAY FROM FILING AN IND.
13 IF THEY'RE NOT, THEY WOULD THEN GO INTO THE TRAN
14 PROGRAM WHICH ALLOWS THEM TO CONDUCT STUDIES THAT
15 GET THEM TO THE RIGHT READINESS POINT TO COME INTO
16 THE CLIN1.

17 CHAIRMAN SHEEHY: SO I GUESS I'M CONFUSED
18 BECAUSE THE DIFFERENCE OF SIX MONTHS THEN PUSHES
19 SOMEBODY INTO A DIFFERENT POTENTIAL CATEGORY OF
20 FUNDING?

21 DR. SAMBRANO: IF THEY'RE NOT WITHIN ABOUT
22 18 MONTHS AS OPPOSED TO WHAT WE PREVIOUSLY HAD OF 24
23 MONTHS, YES.

24 CHAIRMAN SHEEHY: I GUESS I'M NOT
25 UNDERSTANDING THAT BECAUSE I DON'T KNOW WHAT WORK IN

1 TRANSLATION WOULD BE DONE THAT WOULD MAKE SIX
2 MONTHS' DIFFERENCE. WHAT'S THE LENGTH OF THE
3 TRANSLATION GRANT TYPICALLY?

4 DR. SAMBRANO: TRANSLATION GRANT IS 24
5 TO --

6 DR. OLSON: SO I THINK WHAT WE'RE TRYING
7 TO DO AND WHAT WE'VE NOTICED IN SOME OF THE CLIN1
8 PROGRAMS IS THAT THE MANUFACTURING AND THE PROCESS
9 SCALE-UP IS NOT REALLY WHERE IT SHOULD BE. A LOT OF
10 TIMES -- FROM A PRE-IND MEETING, SO THEY'RE DOING
11 ADDITIONAL WORK. WHAT WE'D LIKE THEM TO DO AT THAT
12 TIME IS WHEN YOU HAVE A PRE-IND MEETING, WE'D LIKE
13 THEM TO HAVE DONE THE WORK IN TRANS. USUALLY YOU'RE
14 SUPPOSED TO HAVE YOUR PROCESS LOCKED DOWN, YOU'RE
15 SUPPOSED TO BASICALLY GET THE FDA'S INPUT ON YOUR
16 PROPOSED CLINICAL TRIAL AND ON YOUR PIVOTAL SAFETY
17 STUDIES.

18 SO IF YOU HAVE YOUR PROCESS LOCKED DOWN,
19 IF YOU'VE GOT YOUR DOSE FIGURED OUT, IF YOU'VE
20 ALREADY DECIDED ON YOUR INDICATION, ALL OF WHICH ARE
21 KEY TRAN STAGE ACTIVITIES, THEN YOU SHOULD BE ABLE
22 TO MOVE READILY AND MEET THESE 18-MONTH TIMELINES TO
23 FILE AN IND.

24 CHAIRMAN SHEEHY: SO ARE WE REALLY KIND OF
25 MOVING OUT OF THE VALLEY OF DEATH, THEN, BECAUSE

1 WHAT YOU ARE DOING IS -- WHAT HAS BEEN OUR
2 EXPERIENCE WITH CLIN1 FOLKS BECAUSE TRANS IS NOT
3 VERY PERMISSIVE; WHEREAS, CLIN1 IS VERY PERMISSIVE.

4 DR. OLSON: I DON'T KNOW WHAT YOU MEAN BY
5 PERMISSIVE.

6 CHAIRMAN SHEEHY: I MEAN THAT WE GET MORE
7 APPLICATIONS THAN WE CAN FUND IN TRANS, AND WE END
8 UP NOT FUNDING APPLICATIONS THAT GET GOOD SCORES.
9 THE TIMELINE TO COME BACK IS ABOUT SIX MONTHS. FOR
10 CLIN1, YOU CAN COME IN, YOU CAN GET A TWO, COME BACK
11 THE NEXT MONTH OR TWO MONTHS LATER, AND THE
12 COMPETITION IS LESS FIERCE. SO WE'RE DROPPING THESE
13 FOLKS INTO A WHOLE RANGE AND A WHOLE GROUP OF
14 APPLICATIONS IN WHICH THEIR SUCCESS RATE IS GOING TO
15 BE MUCH LESS LIKELY THAN THEIR SUCCESS RATE IF THEY
16 HAVE RIVAL APPLICATIONS IN CLIN1.

17 DR. OLSON: THE TRAN ROUND IS THREE TIMES
18 A YEAR NOW, SO THERE'S A FOUR-MONTH DELAY. THERE'S
19 FOUR MONTHS BETWEEN APPLICATIONS. I WANT TO STATE
20 THAT FIRST.

21 AND I THINK THE ISSUE REALLY IS WHEN YOU
22 ACCEPT CLIN1 PROJECTS THAT ARE ACTUALLY NOT AT A
23 READINESS STATE THAT YOU'D LIKE, AND WE DON'T REALLY
24 HAVE ENOUGH EXPERIENCE WITH OUR CLIN1 PROGRAMS YET
25 TO SAY THIS, BUT WE DO KNOW THAT WHAT WE ARE FINDING

1 TO BE THE SINGLE BIGGEST ISSUE IN THESE PROGRAMS IS
2 THE MANUFACTURING. AND THAT THAT COULD END UP
3 EXTENDING -- AND IT'S BAD FOR THEM BECAUSE WE HAVE
4 THESE OPERATIONAL MILESTONES, AND WE ONLY FUND UP TO
5 A CERTAIN POINT. SO THEY END UP HAVING TO CALL ON
6 THEIR BACKUP FUNDS. THEY END UP -- THEY MISS
7 MILESTONES, AND THE PROGRAM ENDS UP BEING LONGER
8 THAN IT SHOULD BE.

9 CHAIRMAN SHEEHY: I GUESS I'M TRYING TO
10 GET THE BACK BASIS FOR THAT. WHAT ARE WE DRAWING
11 THOSE CONCLUSIONS ON? DO WE HAVE PEOPLE WHO ARE
12 MISSING THEIR MILESTONES THAT ARE BEHIND ON THEIR
13 PROJECTS? BECAUSE I JUST DON'T THINK DROPPING THEM
14 INTO TRANS, THEIR SUCCESS RATE IS GOING TO BE MUCH
15 LOWER THAN IF THEY WERE IN CLIN1. THE
16 BOTTLENECKS -- THE AMOUNT OF FUNDING AVAILABLE FOR
17 TRANS IS SO LIMITED.

18 DR. SAMBRANO: IF I MIGHT ADD SOME
19 CLARIFICATION TO THIS. THE REQUIREMENT CURRENTLY TO
20 COME INTO CLIN1 IS THAT THEY HAVE COMPLETED A
21 PRE-IND MEETING. AND THE GENERAL REQUIREMENT AND
22 EXPECTATION IS STILL THE SAME. SO IT HASN'T
23 CHANGED, BUT THEY SHOULD BE ABLE TO AT THAT POINT
24 HAVE A CLEAR PATH TO GET TO THEIR IND. BUT BECAUSE
25 THERE'S A LOT OF FLEXIBILITY A LOT OF TIMES AS TO

1 WHEN SOME FOLKS FILE OR CONDUCT THEIR PRE-IND
2 MEETING, WHAT WE WANT IS FOR THEM TO HAVE IN THE
3 TRAN PROGRAM WHAT WE CALL A WELL-PREPARED AND
4 SUCCESSFUL PRE-IND MEETING WITH THE FDA. THAT MEANS
5 ALL OF THE ACTIVITIES THAT LEAD UP TO THAT POINT SO
6 THAT THEY HAVE A CLEAR PLAN, WHICH WE FEEL THEY CAN
7 CONDUCT WITHIN 18 MONTHS IF THEY TRULY ACHIEVE THAT.

8 SO THE TARGET ISN'T REALLY MOVING SO MUCH
9 BECAUSE THAT'S STILL A REQUIREMENT. THEY HAVE TO
10 STILL COME IN WITH THE PRE-IND. WE WANT TO
11 ACCELERATE THE TIME FROM WHEN THEY COME IN TO WHEN
12 THEY DO AND CONDUCT THE FILING. AND THEN STILL
13 ALLOWING THEM, EVEN AFTER THAT, TO DO START-UP
14 ACTIVITIES WITH THE CLINICAL TRIAL WHICH THE CLIN1
15 ALLOWS. SO THAT WAY THEY DON'T EXCEED THE TWO-YEAR
16 OVERALL TIME FRAME FOR THAT AWARD.

17 DR. OLSON: I GUESS THE QUESTION IS ALSO
18 DO YOU WANT THEM TO FAIL AT THE CLIN1 STAGE AFTER
19 YOU'VE INVESTED THE MONEY, OR DO YOU WANT THEM TO
20 HAVE A CHANCE AT THE TRAN STAGE WHERE THEY WILL DO
21 THE WORK THAT WILL GET THEM THE WELL-PREPARED
22 PRE-IND. I CANNOT ARGUE WITH YOUR POINT THAT THERE
23 IS 45 MILLION, I'M NOT EXACTLY SURE WHAT THE AMOUNT
24 WE'RE TARGETING FOR CLIN1 PROGRAMS IS, AND I DON'T
25 HAVE THE RIGHT PERSON HERE TO ADDRESS THAT. I KNOW

1 THAT OUR FOCUS IS ON CLIN2S, LESS ON CLIN1S. BUT
2 THAT REALLY IS THE POINT IS TO GIVE THEM A CHANCE TO
3 GET THE ACTUAL WORK THAT THEY SHOULD HAVE DONE TO
4 HAVE A WELL-PREPARED PRE-IND MEETING IN THE TRAN
5 STAGE AND AVOID THAT AND THE POTENTIAL OF FAILURE
6 AND DELAYS IN THE CLIN1 STAGE.

7 CHAIRMAN SHEEHY: I'M STILL TROUBLED
8 BECAUSE I DON'T HAVE A FACT BASIS ON WHICH TO MAKE
9 THIS DECISION BECAUSE YOU'RE SAYING THAT THEY ARE
10 GOING TO FAIL, THAT THE PROJECTS AS THEY'VE GONE
11 THROUGH THE GWG AND GOTTEN FUNDABLE SCORES ARE GOING
12 TO FAIL, AND THAT'S WHY WE NEED TO CHANGE THIS,
13 BECAUSE THEY'RE FAILING.

14 DR. OLSON: NO. I'M SAYING THAT THE
15 SINGLE ISSUE THAT MOST OFTEN WILL LEAD TO DELAYS IS
16 PROCESS-RELATED ISSUES IN THE CLIN1 STAGE.

17 CHAIRMAN SHEEHY: WHY WILL IT LEAD TO
18 DELAYS? HAVE WE EXPERIENCED DELAYS IN THE PROJECTS
19 THAT HAVE GOTTEN FUNDABLE SCORES BY THE GRANTS
20 WORKING GROUP IN CLIN1? THERE HAS TO BE SOME FACT
21 BASIS FOR MAKING THIS CHANGE.

22 DR. OLSON: I'M NOT HEAD OF THAT. I
23 BELIEVE -- IT IS MY UNDERSTANDING THAT THERE ARE
24 SOME PROJECTS THAT WE ARE HAVING ISSUES WITH WITH
25 PROCESS DEVELOPMENT AT THAT STAGE.

1 MR. TORRES: THAT'S WHY I TALKED ABOUT
2 PUSHBACK.

3 CHAIRMAN SHEEHY: I JUST THINK WE'RE
4 PROBABLY -- I GUESS I NEED MORE INFORMATION ON THIS
5 BEFORE. MAYBE THAT CAN COME AT THE BOARD. BUT --

6 DR. MILLS: JEFF, WHAT WE'RE TRYING TO
7 DO -- AND I THINK WE JUST GOT WAY, WAY TOO FAR INTO
8 THE WEEDS HERE. WHAT WE'RE TRYING TO DO ON A VERY
9 SIMPLE LEVEL, HIGH LEVEL, IS SET THE EXPECTATION
10 FROM THE APPLICANTS THAT YOU ARE GOING TO SPEND
11 ABOUT TWO AND A HALF YEARS IN TRANSLATION AND ABOUT
12 ONE AND A HALF YEARS IN CLIN1, WHICH MAKES THE
13 TRANSLATION TIME FOUR YEARS, WHICH WE SET OUT AS A
14 STRATEGIC GOAL. AND IF OUR STATED PROGRAMS DON'T
15 HAVE THAT AS A GOAL, THEN WE'RE NOT CONSISTENT WITH
16 THE STRATEGIC PLAN THAT WE APPROVED, WHICH SAID THAT
17 THESE ACTIVITIES THAT EVERYONE ELSE IN THE WORLD CAN
18 DO IN 3.2 YEARS FOR US TAKE EIGHT YEARS. WE'RE
19 TRYING TO GET THEM DOWN TO FOUR YEARS. IF OUR
20 PROGRAMS DON'T AT LEAST SET THAT UP WITHOUT THE
21 NONCOST EXTENSION, THEN WE'RE NOT EVEN AT THE OUTSET
22 SETTING THE EXPECTATION THAT WE WANT THESE THINGS TO
23 MOVE EXPEDITIOUSLY. THAT'S REALLY ALL WE'RE TRYING
24 TO DO.

25 CHAIRMAN SHEEHY: I'M STILL CONFUSED, BUT

1 I WON'T BELABOR THE POINT. I GUESS WHEN I SEE
2 CHANGES FROM WHAT WE ORIGINALLY DECIDED TO DO, IT'S
3 ALWAYS GOOD TO KIND OF UNDERSTAND WHY WE'RE DOING
4 IT. I MEAN I GUESS THIS IS JUST WE'RE GOING JUST TO
5 MAKE IT SO KIND OF IDEA, BUT I THINK WE MAY BE
6 PUSHING PEOPLE INTO TRANSLATION WHERE THEY REALLY
7 DON'T HAVE A GOOD SHOT. AGAIN, GIVEN THAT WE'VE
8 BEEN APPROVING PROJECTS IN THIS SPACE THAT HAVE TO
9 GET 1S, I GUESS -- ANYWAY. I'M HAPPY TO MOVE ON
10 FROM THAT. I DON'T THINK I'LL BE MOLLIFIED.

11 NEXT. SORRY, DR. SAMBRANO.

12 DR. SAMBRANO: THE NEXT ITEM RELATES TO
13 SMALL MOLECULE OR BIOLOGIC CANDIDATE ELIGIBILITY.
14 HERE WE WANT TO CLARIFY THE ELIGIBILITY OF RESEARCH
15 THAT INVOLVES SMALL MOLECULES OR BIOLOGICS WHERE A
16 STEM CELL IS NECESSARY TO MANUFACTURE THE THERAPY.
17 THIS, FOR EXAMPLE, WOULD ALLOW EXOSOME OR OTHER NOT
18 CELL THERAPIES TO ALSO QUALIFY IF THEY ARE
19 MANUFACTURED USING A STEM CELL. THIS WOULD APPLY TO
20 TRAN1, CLIN1, AND PHASE I TRIALS UNDER THE CLIN2.

21 SO ASIDE FROM THAT CHANGE, ON THE NEXT
22 SLIDE, THE PHASE I'S WOULD LARGELY BE THE SAME IN
23 TERMS OF THE CANDIDATE ELIGIBILITY, BUT WE ARE
24 PROPOSING SOME CHANGES FOR THE PHASE II AND PHASE
25 III STAGE WHERE FOR PHASE II WE WOULD WANT TO

1 RESTRICT ELIGIBILITY TO CELL THERAPIES WHERE STEM
2 PROGENITOR CELLS EITHER COMPOSE THE THERAPY OR ARE
3 USED TO MANUFACTURE THE THERAPY. AND FOR PHASE III
4 TRIALS, TO RESTRICT IT FURTHER BY ADDING THE CAVEAT
5 THAT THEY ALSO NEED TO BE FOR A RARE INDICATION.

6 AND THE THINKING BEHIND THIS IS THAT FOR A
7 PHASE I PROJECT, THE SMALL MOLECULES AND BIOLOGICS
8 THAT ARE SUCCESSFUL IN ACHIEVING AND GETTING GOOD
9 DATA FROM A PHASE I SHOULD BE ABLE TO ATTRACT
10 FUNDING TO MOVE THOSE PROJECTS FORWARD INTO THE NEXT
11 STAGES OF DEVELOPMENT; WHEREAS, CELL THERAPIES HAVE
12 A MORE CHALLENGING REGULATORY ENVIRONMENT AND HAVE
13 MORE DIFFICULTY IN GETTING FUNDING TO CARRY THOSE
14 THROUGH. SO WE WANT TO FOCUS IN ON HELPING THE CELL
15 THERAPIES ESPECIALLY AT THOSE LATER STAGES WHERE
16 THERE IS THE GREATEST NEED FOR THOSE PROJECTS.

17 ON THE NEXT ONE WE HAVE THE CLIN3 PROGRAM,
18 AND THE CLIN3 PROGRAM, AS IT CURRENTLY STANDS, IS A
19 SUPPLEMENT TO CLIN1 AND CLIN2 AWARDS. AND THE
20 REQUIREMENT WAS THAT BASICALLY IT PROVIDES FUNDS TO
21 ACCELERATE ACTIVITIES THAT WERE ORIGINALLY PROPOSED
22 OR THAT CAN BE PROPOSED TO ACCELERATE THOSE
23 PROJECTS. IT HAS NOT TURNED OUT TO BE A VERY GOOD
24 DESIGN IN TERMS OF A PROGRAM FOR US. WE HAVE HAD
25 THREE APPLICATIONS OVER THE LAST TWO YEARS. NONE

1 HAVE BEEN APPROVED FOR FUNDING OR RECOMMENDED FOR
2 FUNDING. AND SO WE FEEL THAT WE NEED TO REFOCUS
3 THAT PROGRAM DIFFERENTLY.

4 THE WAY WE'D LIKE TO DO THAT IS TO LIMIT
5 IT TO AWARDEES THAT WOULD, IF THEY HAVE AN EXISTING,
6 FOR EXAMPLE, PHASE II TRIAL, TO UTILIZE SUPPLEMENTAL
7 FUNDS TO CONVERT THAT TO A REGISTRATION TRIAL; THAT
8 IS, A TRIAL THAT WOULD BE THE BASIS FOR APPROVAL BY
9 THE FDA FOR COMMERCIALIZING THE PRODUCT.

10 ON THE NEXT SLIDE, SOME ELIGIBILITY
11 CHANGES FOR DEVICES. FIRST, FOR THE TRAN3, HERE WE
12 WANT TO ALIGN WHAT WE HAVE IN THE CLINICAL PROGRAM
13 WITH THE TRAN PROGRAM. SO SIMPLY BY ADDING
14 ADDITIONAL LANGUAGE TO INCLUDE STUDIES ON THE DEVICE
15 WHERE THE THERAPEUTIC MECHANISM OF ACTION REQUIRES
16 THE RECRUITMENT OR INCORPORATION OF AN INDOGENOUS
17 HUMAN STEM OR PROGENITOR CELL. THIS IS NOT
18 CURRENTLY IDENTIFIED IN THE TRAN PROGRAM, BUT IS IN
19 THE CLINICAL ONE, SO WE WANT TO ALIGN THOSE.

20 FOR CLIN2, IN THE SAME WAY THAT WE ARE
21 PROPOSING TO LIMIT PHASE II AND PHASE III TRIALS TO
22 CELL THERAPY, TO ALIGN WITH THAT, WE WANT TO LIMIT
23 OUR SUPPORT OF DEVICE TRIALS TO FEASIBILITY STUDIES
24 WHICH ARE EQUIVALENT TO A PHASE I FOR A DEVICE IN A
25 TRIAL SETTING.

1 THE NEXT SLIDE RELATES TO FUNDING CAPS
2 THAT WE WANT TO PROPOSE FOR THE CLINICAL PROGRAM.
3 SO THIS WOULD APPLY TO CLIN1, 2, AND 3. AND BASED
4 ON OUR EXPERIENCE OF CLINICAL TRIAL COSTS FROM
5 APPLICATIONS AND GRANTS THAT WE HAVE FUNDED, AS WELL
6 AS THE CALCULATION OF FUNDS THAT WOULD BE NECESSARY
7 TO MEET OUR GOAL OF FUNDING 50 TRIALS BY 2020, THAT
8 IS, OUR CAPACITY OVERALL TO FUND THAT MANY TRIALS,
9 WE'VE DETERMINED THAT AN APPROPRIATE CAP FOR EACH OF
10 THESE PROGRAMS WOULD BE AS FOLLOWS:

11 FOR CLIN1 WE WOULD ALLOW PROGRAMS UP TO 6
12 MILLION IF THEY ARE A NONPROFIT AND 4 MILLION IF
13 THEY ARE A FOR-PROFIT INSTITUTION.

14 FOR CLIN2, IN OTHER WORDS, FOR THE PHASED
15 TRIALS, IF IT'S A PHASE I TRIAL, UP TO 5 MILLION FOR
16 FOR-PROFITS AND 9 MILLION FOR NONPROFITS. A PHASE
17 II TRIAL WOULD BE UP TO 12 MILLION. THIS IS WHERE
18 THE NON-PROFITS AND FOR-PROFITS ALIGN WITH THE SAME
19 AMOUNT IN THE SAME WAY THAT THEY ALIGN WITH THE
20 CO-FUNDING REQUIREMENT THAT WE HAVE AT THAT STAGE.
21 AND THEN FOR PHASE III, IT WOULD BE UP TO 15
22 MILLION.

23 AND THEN SIMILARLY, SINCE THE CLIN3 IS TO
24 ALLOW A PHASE II OR OTHER TRIAL TO BECOME A
25 REGISTRATION TRIAL, THAT'S EQUIVALENT TO THE PHASE

1 III FUNDING AMOUNT.

2 CHAIRMAN SHEEHY: CAN I ASK A QUESTION
3 ABOUT THAT? WHAT ARE THE PROJECTIONS? SO OBVIOUSLY
4 YOU'RE EXPECTING CERTAIN NUMBERS OF 1, 2, AND 3 TO
5 GIVE US THOSE PROJECTIONS.

6 DR. SAMBRANO: SO THIS IS BACK CALCULATED
7 FROM ACHIEVING UP TO 50 TRIALS BY 2020. SO I DON'T
8 HAVE, AND, PAT, I DON'T KNOW IF YOU HAVE, I THINK
9 GABE DOES, HAS THE CALCULATION. RANDY, YOU MAY OR
10 MAY NOT REMEMBER.

11 DR. MILLS: WE DID IT, JEFF, AND I KNOW
12 EXACTLY WHAT YOU'RE SAYING. WE CAN GET IT TO YOU
13 BECAUSE THIS IS OBVIOUSLY -- THESE CAPS ARE
14 OBVIOUSLY BASED ON MODELS. AND THOSE MODELS SHOW,
15 WITH SOME SORT OF CONFIDENCE BANDS, WHAT MIX OF
16 TRIALS WE WOULD EXPECT TO HAVE GOING FORWARD AND
17 THEN HOW MUCH MONEY WE HAVE TO KIND OF BACK ALL THAT
18 UP AND YOU GET TO THIS. UNFORTUNATELY WE DID NOT
19 BRING THAT TO THIS MEETING, BUT WE CAN GET IT TO
20 YOU.

21 CHAIRMAN SHEEHY: AND THEN THE OTHER THING
22 THAT WOULD BE INTERESTING TO SEE, FOR THE PEOPLE WE
23 FUNDED, HOW MANY -- LIKE, I'M ASSUMING THAT THIS IS
24 PROBABLY A MEDIAN OF SOME SORT WITH A BAND THAT HAS
25 PEOPLE EXCEEDING AND BELOW. SO IT WOULD BE GREAT TO

1 SEE WHAT THAT LOOKS LIKE.

2 DR. MILLS: SURPRISINGLY, WITH THE
3 EXCEPTION OF THE PHASE IIIS, ALMOST ALL OF IT,
4 THERE'S VERY LITTLE ALTERATION TO ANY OF THE PHASE I
5 OR IIS THAT WE FUNDED SO FAR UNDER THESE NEW CAPS.
6 AND DEPENDING ON THE PHASE III THAT WE'RE TALKING
7 ABOUT, THERE'S UP TO A \$5 MILLION VARIANCE THERE.
8 BUT WE WANTED TO MAKE SURE THAT THINGS THAT WE ARE
9 DRIVING AND INCENTIVIZING THE MOST WOULDN'T BE
10 NEGATIVELY IMPACTED BY THIS. AND SO WE'LL GET THAT
11 FOR YOU AS WELL.

12 CHAIRMAN SHEEHY: GREAT. GREAT.

13 CHAIRMAN THOMAS: JEFF, I'VE GOT A
14 QUESTION. SO, GIL, THE DIFFERENT AWARDS VARIOUSLY
15 CONTEMPLATE CO-FUNDING REQUIREMENTS, ETC. BUT WHAT
16 SORT OF ASSUMPTIONS, PARTICULARLY WHEN YOU GET TO
17 THE PHASE IIS AND THE PHASE IIIS, DO YOU HAVE THAT
18 OF THE TOTAL PROJECT COST THAT OUR COMPONENT WILL
19 COMPRISE. AND ASSUMING LEVERAGING THAT BEYOND JUST
20 THE CO-FUNDING REQUIREMENTS, HOW MUCH OF A PIECE OF
21 THE PUZZLE ARE WE WHEN YOU GET TO THE BIGGER TRIALS
22 UNDER THESE CAP STRUCTURES?

23 DR. SAMBRANO: THE CAP DOES NOT ALTER THE
24 CO-FUNDING REQUIREMENTS THAT WE HAVE IN PLACE. SO
25 THOSE WOULD STILL BE THE SAME. AND THE EXPECTATION

1 HERE IS THAT FOR A PHASE II TRIAL, THERE WOULD BE A
2 40-PERCENT CO-FUNDING REQUIREMENT FROM THE APPLICANT
3 AND 50 PERCENT FOR A PHASE III. ANYTHING THAT WOULD
4 THEN EXCEED THE CIRM PLUS THE CO-FUNDING WOULD NEED
5 TO COME FROM OTHER SOURCES. BUT BECAUSE WE, IN
6 GENERAL, ARE TRYING TO SET CAPS THAT WOULD ALLOW A
7 PROJECT TO SUCCEED OR BE MORE OR LESS EQUIVALENT TO
8 WHAT WE FUNDED, WE DON'T ANTICIPATE THAT THAT'S
9 GOING TO BE A TYPICAL REQUIREMENT FOR ANYBODY COMING
10 IN.

11 DR. MILLS: IN SORT OF REAL LIFE TERMS,
12 THE PHASE II TRIALS WHICH ARE CAPPED AT \$12 MILLION
13 WILL REQUIRE THE 40-PERCENT CO-FUNDING REQUIREMENT.
14 SO THAT PUTS US AT A \$20 MILLION TRIAL. A \$20
15 MILLION PHASE II TRIAL IS A VERY WELL-DESIGNED, VERY
16 WELL-CONSTRUCTED, APPROPRIATE PHASE II TRIAL. SO
17 JUST GUARDING AGAINST ALMOST SORT OF RUNAWAY. THAT
18 AT VARIOUS STAGES AND PHASES OF TRIALS, YOU
19 SHOULDN'T HAVE SORT OF EXCESSIVE COSTS.

20 WITH REGARDS TO PHASE III, OBVIOUSLY THIS
21 IS A 50-50 REQUIREMENT, SO YOU'RE TALKING ABOUT A
22 \$30 MILLION TRIAL. AND THEN ANYTHING BEYOND THE \$30
23 MILLION TRIAL, WE'RE JUST FUNDING \$15 MILLION OF IT.
24 AND WE LOOKED AT IT IN THE SENSE OF, PARTICULARLY
25 GIVEN WE'RE TALKING ABOUT CELL THERAPIES FOR

1 PEDIATRIC INDICATIONS, THOSE ARE GENERALLY NOT
2 ENORMOUS TRIALS. EVEN IF THEY ARE, \$15 MILLION, AND
3 I'LL SAY THIS PUTTING ON MY HAT FROM LONG AGO AS A
4 PUBLIC COMPANY CEO, \$15 MILLION WILL GET MY
5 ATTENTION. THAT'S A LOT OF MONEY, AND THAT IS MONEY
6 THAT WOULD MOTIVATE ME TO DO SOMETHING. SO THAT'S
7 HOW WE BASICALLY BASE THESE.

8 CHAIRMAN THOMAS: THANK YOU.

9 CHAIRMAN SHEEHY: DO OTHER MEMBERS HAVE
10 QUESTIONS?

11 DR. SAMBRANO: I HAVE ONE MORE SLIDE
12 ACTUALLY. JUST ONE LAST ONE. THIS RELATES TO
13 FUNDABLE ACTIVITIES.

14 SO FOR THE CLIN1 AND CLIN2 PROGRAMS, WE'D
15 LIKE TO PERMIT FUNDING FROM MANUFACTURING ACTIVITIES
16 FOR FOLLOW-ON CLINICAL TRIAL. CURRENTLY WE ARE
17 RESTRICTING MANUFACTURING ACTIVITIES TO ONLY THOSE
18 WITHIN THE TRIAL THAT WE WOULD BE FUNDING. BUT IN
19 SOME CASES, MANUFACTURING ACTIVITIES WILL ALLOW AN
20 APPLICANT TO PRODUCE ENOUGH PRODUCT TO COVER TWO
21 TRIALS OR MORE. AND PART OF THE EFFICIENCY IN
22 MOVING THINGS FORWARD IS TO ALLOW THEM, IF IT MAKES
23 SENSE, TO DO THAT.

24 FOR CLIN2 WE ALSO WANT TO PERMIT FUNDING
25 FOR COMPARABILITY STUDIES AND COMMERCIAL DEVELOPMENT

1 ACTIVITIES WHICH CURRENTLY AREN'T ALLOWED,
2 ESPECIALLY IF WE ARE TRYING TO ACCELERATE AND MOVE
3 THESE PROJECTS FORWARD INTO PIVOTAL TRIALS AND
4 ULTIMATELY TO COMMERCIALIZE THESE PRODUCTS. THOSE
5 ARE THE TWO THAT WE ARE EXTENDING.

6 AND THEN, LASTLY, WE ARE SEEKING APPROVAL
7 FOR THESE AMENDMENTS.

8 CHAIRMAN SHEEHY: DO OTHER MEMBERS HAVE
9 QUESTIONS?

10 DR. JUELSGAARD: I WANT TO GO BACK TO THE
11 QUESTION YOU WERE ASKING PREVIOUSLY ABOUT THE
12 TRANSLATIONAL GRANTS. SO THE TRANSLATIONAL GRANTS
13 COVER A VERY BROAD SPECTRUM, FROM PROJECTS THAT ARE
14 JUST BEGINNING TRANSLATION TO THOSE THAT ALREADY
15 WOULD BE QUITE A WAYS THROUGH. SO IF WE HAVE A
16 PROJECT THAT'S QUITE A WAYS THROUGH TRANSLATION, BUT
17 THERE'S PROCESS DEVELOPMENT WORK, ETC., THAT THEY
18 MAY NEED TO DO TO GET TO THAT NEXT LEVEL, IN OUR
19 SCORING OF THE GWG, DO WE GIVE ANY CREDIT FOR THE
20 STAGE OF TRANSLATION THAT AN APPLICANT MAY BE? THAT
21 IS, THE FURTHER ALONG THEY ARE IN THEIR
22 TRANSLATIONAL EFFORTS, THEY GET A BONUS FOR THAT.
23 THAT'S A QUESTION.

24 DR. SAMBRANO: WE DO NOT GIVE EXTRA CREDIT
25 IN THAT WAY. ON THE OTHER HAND, THE TASK OF

1 REVIEWERS IS TO ASSESS WHETHER THE PROJECT BEFORE
2 THEM IS ONE THAT WILL ULTIMATELY SUCCEED IN GETTING
3 TO THE EXPECTED OUTCOME. SO ONE THAT HAS
4 DEMONSTRATED ALREADY THE ABILITY TO HAVE COMPLETED A
5 LOT OF THE KEY TASKS TO GET THEM TO THAT OBJECTIVE
6 WILL LIKELY DO BETTER THAN ONE THAT HAS NOT.

7 DR. JUELSGAARD: SO IT'S BUILT INTO THE
8 SYSTEM, THAT THE ONES THAT I JUST ASKED ABOUT,
9 ASSUMING THEY'VE GOT A GOOD PROJECT, WOULD GET A
10 HIGHER SCORE THAN SOMEBODY MUCH EARLIER EVEN THOUGH
11 IT SOUNDS LIKE A GREAT EXPERIMENT?

12 CHAIRMAN SHEEHY: YOU KNOW, I GUESS THAT
13 COULD GO EITHER WAY DEPENDING ON WHAT A REVIEWER'S
14 BIAS IS, FROM MY EXPERIENCE, BECAUSE SOME OF THESE
15 THINGS ARE FAIRLY MUNDANE. I DON'T THINK THAT THAT
16 CREATES THE SAME LEVEL OF ENTHUSIASM NECESSARILY IN
17 SOME REVIEWERS. SO I THINK, SHORT OF DIRECTION FROM
18 THE REVIEW TEAM, THAT ACTUALLY COULD CUT BOTH WAYS.

19 DR. MILLS: AS A FORMER REVIEWER, IT WOULD
20 BE A FACTOR I WOULD CONSIDER. SO I WOULD CARE A LOT
21 ABOUT WHETHER I BELIEVED THEY COULD DO WHAT THEY
22 SAID THEY WERE GOING TO DO. AND CLEARLY THE FURTHER
23 YOU ARE DOWN THAT ROAD, THE MORE LIKELY YOU ARE TO
24 SUCCEED. BUT I WOULD THEN BALANCE AGAINST WHETHER I
25 CARE AND HOW MUCH I CARE THAT EVERYTHING YOU SAID

1 CAME TRUE. AM I HAPPY?

2 SO IT'S NOT -- IT'S CERTAINLY NOT THE ONLY
3 CONSIDERATION. IT'S A FACTOR, BUT IT'S NOT QUITE
4 THAT BLACK AND WHITE.

5 DR. JUELSGAARD: SO, RANDY, IN THAT
6 REGARD, SO HARKENING BACK TO WHAT PAT WAS TALKING
7 ABOUT, WHICH SOUNDED A LOT LIKE PROCESS DEVELOPMENT
8 ISSUES WHERE IN THE BACKGROUND THERE ARE A NUMBER OF
9 THESE. SO WHEN YOU HAVE A GWG MEETING TO CONSIDER
10 TRANSLATIONAL PROJECTS, HOW MANY PEOPLE ARE IN THE
11 ROOM THAT ARE CONVERSANT WITH PROCESS DEVELOPMENT
12 LEADING TO AN APPROVABLE PROCESS? BECAUSE IF YOU
13 DON'T HAVE PEOPLE THAT ARE CONVERSANT WITH THAT,
14 THEN THEY MAY NOT UNDERSTAND THAT, AND THAT MIGHT
15 IMPACT THE SCORING.

16 DR. MILLS: SO WE COMPOSE -- AND, GIL,
17 JUMP IN HERE AND CORRECT ME WHEN I GET THIS WRONG.
18 BUT THEY COMPRISE OR MAKE UP THE GWG ON A
19 REVIEW-BY-REVIEW BASIS, PARTICULARLY FOR
20 TRANSLATION. SO THE COMPOSITION OF THAT GWG,
21 PARTICULARLY IN TRANSLATION, THEY'RE SELECTED FOR
22 EXACTLY THAT SKILL SET. SO IT'S WELL REPRESENTED.

23 DR. SAMBRANO: AGREE.

24 DR. OLSON: THEY'RE ASSIGNED TO EVERY
25 PROJECT.

1 MR. TORRES: BUT NOT ALL OF THEM.

2 DR. SAMBRANO: IT DEPENDS -- ART TORRES
3 WAS JUST ASKING IF IT'S ON ALL OF THEM. SO FOR
4 TRAN, WE HAVE A BROAD SPECTRUM OF TYPES OF
5 CANDIDATES FROM THERAPY TO A TOOL. BUT WE DO ASSIGN
6 AND MAKE SURE THAT FOR EACH APPLICATION WE HAVE
7 SOMEBODY WHO UNDERSTANDS THE PROCESS DEVELOPMENT AS
8 WELL AS HAS A PERSPECTIVE FROM THE CLINICAL SIDE, OR
9 IF IT'S TOOL, WHAT THE RELATIVE VALUE OF THAT TOOL
10 WOULD BE IF THEY ARE SUCCESSFUL. SO THAT WE HAVE A
11 WELL-ROUNDED SET OF INDIVIDUALS WHO ARE ASSESSING
12 EACH OF THESE PROJECTS.

13 MR. TORRES: NOT ALL OF THE INDIVIDUALS
14 ARE PROCESS ORIENTED.

15 DR. SAMBRANO: NOT ALL OF THEM ARE.

16 CHAIRMAN SHEEHY: DO WE ACTUALLY ALWAYS
17 HAVE A MANUFACTURING SPECIALIST THAT REVIEWS EVERY
18 APPLICATION?

19 DR. SAMBRANO: WE HAVE SOMEBODY WHO HAS
20 EXPERTISE IN CMC THAT WILL REVIEW EACH OF THE
21 APPLICATIONS WHERE IT'S RELEVANT.

22 CHAIRMAN SHEEHY: I STILL -- I STILL HAVE
23 QUESTIONS ABOUT THAT PARTICULAR ONE. DOES THAT
24 ANSWER YOUR QUESTION, STEVE? DO YOU HAVE MORE
25 QUESTIONS?

1 DR. JUELSGAARD: NO. IT DOES ANSWER IT.
2 I THINK WHAT WE'RE GOING TO DO IS SEE HOW THIS WORKS
3 OUT, IF ULTIMATELY THIS IS THE WAY THE LINES GET
4 DRAWN. I'LL BE CURIOUS, PARTICULARLY IN THE
5 TRANSLATIONAL AREA, TO SEE HOW PROJECTS GET SCORED
6 BASED ON WHERE THEY STAND IN TERMS OF -- ALONG THE
7 LINE IN TRANSLATION. BECAUSE FOR ME, IF YOU'RE
8 QUITE A WAYS DOWN THE ROAD IN TRANSLATION, AND
9 YOU'RE TRYING TO DEAL WITH PROCESS DEVELOPMENT
10 ISSUES, THAT IN AND OF IT ITSELF, ASSUMING ALL THE
11 OTHER SCIENCE IS SOUND, DOESN'T NECESSARILY HAVE TO
12 BE STELLAR, BUT IF IT'S SOUND, I PERSONALLY WOULD
13 MOVE THAT PROJECT FURTHER UP THE CONTINUUM IN TEREMS
14 OF WHERE IT STANDS VERSUS OTHERS, BUT WE'LL SEE.

15 CHAIRMAN SHEEHY: I ALSO WONDER IF THERE
16 SHOULDN'T BE -- MAYBE A BETTER WAY TO ADDRESS THIS
17 ISSUE IS MORE OF A ROBUST INTERFACE WITH THE
18 TRANSLATION CENTER THAT WE JUST BROUGHT ON. I JUST
19 DON'T KNOW IF THIS IS THE BEST THING, FROM MY
20 PERSPECTIVE, FOR THIS PROBLEM. I DON'T HAVE A GOOD
21 EVIDENCE BASIS, FACT BASIS, ON WHICH TO KIND OF GO
22 ALONG WITH THIS PERSONALLY. IT WOULD BE GREAT TO
23 HAVE THAT FOR THE BOARD ALONG WITH THE OTHER ISSUES
24 THAT I HAD, THE MODELS FOR PHASE I, II, AND III, AND
25 IF WE COULD GET THAT TO THE BOARD BEFORE WE DECIDE

1 THIS.

2 FOR THIS ONE, I STILL THINK THAT I'M
3 NOT -- IT'S NOT CLEAR TO ME THAT THIS IS THE BEST
4 SOLUTION TO THE PROBLEM WHEN WE JUST INVESTED IN A
5 TRANSLATING CENTER. WHY NOT ENCOURAGE FOLKS TO
6 PARTNER UP WITH THEM TO WRITE THEIR APPLICATIONS FOR
7 THE CLIN1S AS OPPOSED TO DROPPING THEM BACK DOWN IN
8 TRANSLATION, WHICH IS ALREADY A POT THAT'S
9 OVERFLOWING. I WONDER IF ANYBODY HAD THOUGHT ABOUT
10 THAT.

11 DR. MILLS: GILL, I THOUGHT WHAT WE'RE
12 TAKING ABOUT HERE AND THE SPECIFIC ISSUE IS JUST
13 SAYING THAT WHEN YOU'RE IN CLIN1, WE EXPECT YOU TO
14 GET YOUR WORK DONE IN 18 MONTHS. IS THAT THE TOPIC
15 ON THE TABLE?

16 DR. SAMBRANO: YES.

17 DR. MILLS: THIS HAS NOTHING TO DO WITH
18 DROPPING ANYONE DOWN TO TRANSLATION. THIS DOESN'T
19 AFFECT TRANSLATION IN ANY WAY. IT JUST SAYS WE'RE
20 RUNNING OUT AN EXPECTATION THAT OUR CLIN1 APPLICANTS
21 DO 18 MONTHS OF WORK IN 18 MONTHS AND NOT DRAG IT
22 OUT LONGER. HAVING LOOKED AT THIS, JEFF, A LOT OF
23 THESE APPLICANTS VIEW OUR APPLICATION AND OUR
24 CRITERIA AS IF THEY WERE A GAP, MEANING THEY WILL
25 TAKE THE SHAPE OF ANY CONTAINER WE ALLOW THEM TO

1 TAKE.

2 AND WHEN WE HAD -- IT'S FUNNY. DR.
3 JUELSGAARD MADE THIS POINT. I WAS READING THROUGH
4 TRANSCRIPTS OF LONG AGO. WHEN WE HAD GRANTS FOR A
5 CLINICAL TRIAL THAT WAS FOUR YEARS, THEY WOULD TAKE
6 FOUR YEARS EVEN THOUGH THE AVERAGE LENGTH OF A PHASE
7 I TRIAL IS 19 MONTHS, OUR APPLICANTS WOULD PROPOSE
8 FOUR YEARS OF WORK. SO ALL WE'RE DOING HERE IS
9 SAYING THE EXPECTATION IS THAT YOU GET FROM YOUR
10 SUCCESSFUL PRE-IND MEETING, WHICH YOU'VE HAD PRIOR
11 TO EVEN APPLYING, GET FROM THERE TO YOUR IND IN 18
12 MONTHS. IF YOU NEED TO, YOU CAN JUSTIFY AND GET A
13 COST EXTENSION AND OTHER THINGS. STUFF COMES UP AND
14 WE UNDERSTAND THAT. BUT WE'RE SETTING OUT AN
15 EXPECTATION THAT YOU DO YOUR WORK IN A TIMELY
16 FASHION. THAT EXPECTATION IS NOT BENDING THE TIME
17 SPACE CONTINUUM. IT IS WHAT EVERYONE ELSE IN THE
18 WORLD DOES AND CONSISTENT WITH WHAT IT SHOULD BE.

19 THAT'S ALL WE'RE REALLY TRYING TO DO HERE
20 IS SAY OUR OVERALL EXPECTATION FOR HOW LONG THAT
21 DEVELOPMENT SHOULD TAKE MEET WITH OUR ACTUAL
22 INDIVIDUAL PROJECT GOALS.

23 CHAIRMAN SHEEHY: IF I CAN MAKE A COUPLE
24 OF POINTS, AND I'M JUST TRYING TO ALIGN INFORMATION
25 THAT I'M GETTING. SO I WAS ORIGINALLY TOLD THAT THE

1 REASON WE'RE DOING THIS IS BECAUSE WE HAVE PROJECTS
2 IN CLIN1 THAT REALLY SHOULD HAVE BEEN IN
3 TRANSLATION, AND THAT WAS WHAT WAS SUGGESTED, IN
4 THAT THEY WOULD BE BETTER OFF BEING IN TRANSLATION
5 BECAUSE ALL THEY HAVE TO DO IS GET A PRE-IND.

6 THE SECOND THING IS I AGREE WITH YOUR
7 PROBLEM. IF WE SAY FOUR YEARS AND PEOPLE TAKE FOUR
8 YEARS, BUT I THOUGHT WE HAD ADDRESSED THAT PROBLEM
9 WITH OUR MILESTONE, THE WAY IN WHICH WE DEVELOPED
10 OUR MILESTONES WHERE PEOPLE BENEFIT FOR ACCELERATING
11 FASTER THROUGH THERE. IF THAT DID NOT DO THAT AND
12 WE NEED TO DO THIS, THAT'S FINE.

13 DR. MILLS: THE FIRST PART IS JUST WRONG
14 BECAUSE I WAS PERSONALLY INVOLVED WITH SAYING WE
15 NEEDED TO MAKE THIS CHANGE. AND WE NEEDED TO MAKE
16 THIS CHANGE BECAUSE IT WAS THE ONLY WAY FOR US TO
17 HAVE OUR TRANSLATION TIME GOAL, WHICH IS TRAN1 PLUS
18 CLIN1 PUT TOGETHER, BE CONSISTENT WITH OUR STRATEGIC
19 GOAL. IF WE DIDN'T DO THIS, THEN WE WOULD SAY WE
20 HAVE PROGRAMS THAT SAY YOU CAN TAKE MORE THAN FOUR
21 YEARS, BUT WE HAVE A GOAL THAT SAYS WE HOPE IT GETS
22 DONE IN UNDER FOUR YEARS.

23 THE MILESTONE GOALS HAVE BEEN INCREDIBLY
24 EFFECTIVE AT MAKING PEOPLE HIT THEIR MILESTONES WHEN
25 THEY'RE EXPECTED, BUT IT DOESN'T DRIVE URGENCY.

1 BASICALLY JUST DRIVES TIMELINESS. SO WHAT WE'RE
2 TRYING TO DO HERE IS SAY WE WANT YOU TO REALLY PUT
3 YOUR BACK INTO IT, AND WE WANT YOU TO GET THIS DONE,
4 PARTICULARLY AT THAT STAGE, QUICKLY. I DON'T VIEW
5 THE MILESTONE PIECE AS ONE OR THE OTHER. IT'S VERY
6 HELPFUL. AND IT'S ALSO VERY HELPFUL TO HAVE
7 TIMELINES THAT SAY WE DO EXPECT YOU TO DO YOUR WORK
8 ON TIME.

9 CHAIRMAN SHEEHY: OKAY. THAT WORKS. SO
10 DO WE HAVE ANY OTHER QUESTIONS FROM FOLKS OR CAN I
11 TAKE A MOTION?

12 DR. STEWARD: I HAVE A QUESTION.

13 CHAIRMAN SHEEHY: SURE. PLEASE.

14 DR. STEWARD: SO I'D LIKE TO ACTUALLY GO
15 BACK TO ONE OF THE EARLY POINTS, AND THIS IS WITH
16 REGARD TO THE PI PERCENT EFFORT. AND THE QUESTION
17 IS CONSEQUENCE OR PROCESS. SO THE IDEA, I BELIEVE,
18 WAS THAT THE GRANTS WORKING GROUP WOULD REVIEW THIS
19 FOR APPROPRIATENESS AND THEN MAKE A DECISION OR
20 DETERMINATION. THEN WHAT? AND I'M SPECIFICALLY
21 ASKING SUPPOSE THE GRANTS WORKING GROUP SAYS, NOPE,
22 THAT'S NOT ENOUGH TIME. DOES THAT IMPACT ON THE
23 SCORE?

24 MR. TORRES: FOR THE PI.

25 DR. STEWARD: YEAH, FOR THE PI. DOES THAT

1 IMPACT ON THE SCORE? DOES THAT MEAN A
2 RENEGOTIATION? IS IT A REQUIREMENT? I'M JUST NOT
3 CLEAR WHERE THIS IS GOING.

4 DR. SAMBRANO: SO THE EXPECTATION HERE IS
5 THAT IT WOULD BE PART OF WHAT THE GWG SCORE WOULD
6 BE. SO IT WOULD IMPACT ON OVERALL FEASIBILITY. IF
7 THE GWG FEELS THAT THE PI IS NOT DEDICATING
8 SUFFICIENT EFFORT -- AND THIS IS EVEN TRUE WHEN WE
9 HAVE A MINIMUM PERCENT EFFORT DESIGNATED. SOMETIMES
10 THE GWG WILL SAY THEY'RE REALLY NOT DEDICATING
11 SUFFICIENT EFFORT FOR THE ACTIVITIES THAT ARE
12 PROPOSED. BUT JUST TO ALLOW FOR FLEXIBILITY FOR THE
13 PI, WE WANT TO NOT RESTRICT IT TO SIMPLY 30 PERCENT
14 AND ALLOW THEM TO PROPOSE WHAT THEY FEEL IS MOST
15 APPROPRIATE AND HAVE THE GWG INCORPORATE THAT INTO
16 THEIR ASSESSMENT OF FEASIBILITY OF THE PROJECT.

17 DR. STEWARD: JUST TO POINT OUT THE
18 CONSEQUENCE OF THAT. AS A REVIEWER, WHAT I WOULD DO
19 IS SCORE THE GRANT LOWER IF I DIDN'T FEEL THAT THE
20 PI WAS DEVOTING ENOUGH TIME. THAT MEANS THAT IT
21 GETS PUSHED AT LEAST TO THE NEXT ROUND. SO IF
22 THAT'S OKAY, ALL RIGHT. I'M NOT COMPLETELY SURE
23 THAT'S OKAY.

24 AND I THINK HAVING A SET AMOUNT IS, AT
25 LEAST, A SIGNAL THAT THAT'S EXPECTED. SO THOSE ARE

1 MY CONCERNS. I'M NOT QUITE SURE. I'D LIKE TO HEAR
2 OTHER COMMENTS ON IT. THANK YOU.

3 MR. TORRES: ON THAT POINT, OS, I THINK
4 YOU'RE RIGHT. WHEN WE REVIEW THE VARIOUS
5 APPLICATIONS, EVEN THOSE OF US WHO ARE LAYMEN AND
6 HAVE NEVER WORKED IN A LAB WERE KIND OF AGHAST
7 SOMETIMES WHEN A PI SAYS IT'S GOING TO BE 50 PERCENT
8 ON THE PROJECT. AND GIVEN ALL HIS OR HER OTHER
9 RESPONSIBILITIES, THERE'S NO WAY THAT PERSON CAN
10 SPEND 50 PERCENT ON THAT PROJECT. SO I THINK THIS
11 IS A GOOD MOVE FOR THE GWG TO GIVE A REVIEW OF THE
12 PERCENTAGE. AND IF IT DOESN'T COME WITHIN WHAT THEY
13 THINK IS APPROPRIATE, THEN THAT'S UP TO US TO
14 DECIDE.

15 CHAIRMAN SHEEHY: IT DOES SEEM LIKE A VERY
16 SUBJECTIVE STANDARD, THOUGH. I DO TAKE YOUR POINT,
17 OS. GIVEN THE OBJECTIVENESS OF MANY OF THE THINGS
18 THAT WE REVIEW, THAT ONE SEEMS TO BE PARTICULARLY
19 SLIPPERY.

20 DR. MILLS: GIL, CORRECT ME IF I'M WRONG,
21 BUT THE WAY I UNDERSTOOD THIS ONE IS THIS. THAT
22 IT'S REALLY MORE OF A KINETIC THING. SO LET'S SAY
23 WE HAVE A CLINICAL TRIAL AND WE HAVE AN INVESTIGATOR
24 THAT'S WORKING ON THAT CLINICAL TRIAL DURING THE
25 CLINICAL ENROLLMENT AND TREATMENT PHASE WHERE HE'S

1 SPENDING OR SHE'S SPENDING A TREMENDOUS AMOUNT OF
2 TIME ON THAT. THEN YOU GET TO EVALUATION PART OF
3 THE TRIAL WHERE A CRO IS WORKING VERY DILIGENTLY
4 COMPILING DATA. THE PI REALLY DOESN'T HAVE A ROLE.
5 AND SO WE GET INTO THESE SITUATIONS WHERE WE DON'T
6 WANT TO BASICALLY OVERLY PAY SOMEBODY TO WATCH GRASS
7 GROW.

8 DR. SAMBRANO: PART OF THE ISSUE ACTUALLY
9 ALSO RELATES TO ALLOWING WHAT WOULD BE AN
10 APPROPRIATE PI TO SERVE AS A PI. MANY OF THEM HAVE
11 CLINICAL DUTIES WHERE THEIR OWN INSTITUTION, IF THEY
12 ASSIGN THEMSELVES 30 PERCENT EFFORT, ARE JUST NOT
13 PERMITTED TO DO SO BECAUSE OF THEIR CLINICAL DUTIES.
14 SO PART OF IT IS ALLOWING FLEXIBILITY IN LETTING THE
15 GWG DETERMINE IS WHAT THEY ARE ABLE TO DEDICATE TO
16 THIS PROJECT SUFFICIENT TO GET THE TASK DONE? IF
17 IT'S NOT, THEN IT SHOULD BE REFLECTED IN THE OVERALL
18 SCORE. BUT IF IT IS, THEN WE COULD ALLOW SOMEBODY
19 WITH 20 OR 25 PERCENT IF THE GWG FEELS IT'S OKAY.

20 CHAIRMAN SHEEHY: STILL SEEMS VERY
21 SUBJECTIVE.

22 DR. STEWARD: I ACTUALLY HAVE TO AGREE
23 WITH JEFF, AND I THINK OBJECTIVE IS EXACTLY THE
24 RIGHT WORD OR SORT OF RANDOM, I GUESS. I JUST DON'T
25 THINK THAT THE GRANTS WORKING GROUP AS CONFIGURED

1 RIGHT NOW HAS AN ABILITY TO MAKE THOSE KINDS OF
2 JUDGMENTS ON THE FLY. I'M PRETTY SURE THAT THE
3 ABILITY TO DO THAT DIFFERS BY REVIEWER, AND THAT IT
4 JUST PUTS THINGS IN A LITTLE BIT OF A MORE FUZZY
5 SITUATION THAN WE'VE HAD IN THE PAST. SO I'M NOT
6 COMFORTABLE WITH THIS YET. I'M NOT COMFORTABLE.
7 THANK YOU.

8 CHAIRMAN SHEEHY: MAYBE WE SHOULD THINK OF
9 ALTERNATIVE MECHANISMS TO ADDRESS THIS ISSUE. IS IT
10 JUST WAY OFF BASE TO SAY THAT THIS COULD BE A
11 PREREVIEW ELEMENT ALONG THE LINES OF SOME OF THE
12 OTHER THINGS THAT WE REVIEW, LIKE THE BUDGET? IF
13 THIS IS AN ISSUE, IT SEEMS LIKE THE INFORMATION THAT
14 THE REVIEWERS WILL HAVE PROBABLY ISN'T SUFFICIENT
15 AND THERE ISN'T ENOUGH TIME -- LIKE, I CAN
16 UNDERSTAND IF THEY WERE TALKING TO THE PI AND THEY
17 CAN WORK THIS OUT; BUT IF IT COMES IN, IF IT'S BELOW
18 THE 30 PERCENT, WHY CAN'T WE HAVE AN ITERATIVE THING
19 THAT THE TEAM DOES TO KIND OF DETERMINE IF THAT'S
20 SUFFICIENT? THAT ALMOST SEEMS LIKE THAT'D BE BETTER
21 THAN ASKING THE REVIEWERS TO KIND OF FIGURE OUT
22 WHETHER THE PERCENT OF EFFORT IS APPROPRIATE WITHOUT
23 KNOWING LIKE THE CLINICAL DUTIES OVERHANG OR THE
24 KINETIC-NESS THAT RANDY EXPLAINED.

25 DR. TORRES: REVIEWERS OFFER THEIR OPINION

1 ON THAT ISSUE.

2 DR. SAMBRANO: THEY DO. THE CHALLENGE FOR
3 US IS JUST SIMPLY THAT WE DON'T WANT A MINIMUM
4 ELIGIBILITY THRESHOLD WHERE WE'RE GOING TO BE
5 THINKING OF IMPLEMENTING EXCEPTIONS TO. IT REALLY
6 SHOULD BE THE BARE MINIMUM THAT WE'RE WILLING TO
7 ACCEPT IN ORDER TO MOVE FORWARD. WE THOUGHT THAT
8 THE BEST FOLKS POISED TO MAKE A DECISION BASED ON
9 THE ACTIVITIES THAT ARE PROPOSED AS TO WHETHER IT IS
10 SUFFICIENT TO ACCOMPLISH THEM OR NOT WOULD BE THE
11 GWG. AND THAT'S WHY WE DIDN'T PROPOSE A MINIMUM.
12 WE DECIDED THAT THAT IS SOMETHING THAT SHOULD ALIGN
13 WITH THE TASKS THAT ARE PROPOSED. DO THEY HAVE A
14 TEAM AND A PI THAT ARE SET UP TO ACCOMPLISH THESE
15 APPROPRIATELY OR NOT?

16 DR. JUELSGAARD: JUST A QUESTION. SO HOW
17 IS IT THAT AT THE CURRENT TIME WE KNOW WHAT
18 PERCENTAGE OF THEIR TIME A PI IS INVESTING IN A
19 TRIAL? SO IMAGINE THEY SAID, I'M GOING TO INVEST
20 30, 35, 40 PERCENT OF MY TIME, AND THAT'S WHEN THE
21 APPLICATION COMES IN. HOW DO WE KNOW THAT THAT'S
22 ACTUALLY TAKING PLACE ON AN ONGOING BASIS?

23 DR. SAMBRANO: SO ASIDE FROM THEM
24 CERTIFYING THAT THAT IS THE PERCENT EFFORT THAT THEY
25 WILL DEDICATE OR IN THEIR IN PROGRESS REPORT, THE

1 AMOUNT BASED OUR SUPPORT AND OTHER SUPPORT THEY HAVE
2 AND SIGNED OFF BY THE INSTITUTION, THAT'S ALL WE
3 HAVE. WE DON'T DO AN AUDIT OF THEIR TIME.

4 DR. MELMED: THE LAST POINT YOU MADE ABOUT
5 THE INSTITUTION IS VERY IMPORTANT BECAUSE THE
6 INSTITUTION IS ALSO CONCERNED ABOUT TIME AND EFFORT.
7 AND THEY'RE RIGOROUSLY AUDITED TO ASSURE COMPLIANCE
8 WITH TIME AND EFFORT. IF THEY HAVE A 30 PERCENT
9 TIME AND EFFORT ON A GRANT, IT'S HIGHLY UNLIKELY
10 THAT THE INSTITUTION WOULD ALLOW THEM TO DROP THAT
11 30 PERCENT UNLESS THERE'S A PREAUTHORIZATION. ONCE
12 THE INSTITUTION APPROVES THE TIME AND EFFORT, THAT
13 GOES ON THE BOOKS AS AN INSTITUTIONAL COMMITMENT.

14 DR. STEWARD: JUST TO SAY, AT INSTITUTIONS
15 OF HIGHER EDUCATION AND PROBABLY MOST OTHER PLACES
16 AS WELL, PI'S ARE ASKED TO CERTIFY THEIR TIME
17 EXPENDITURES PERCENT EFFORT UNDER PENALTY OF
18 PERJURY. SO IT'S TAKEN SERIOUSLY.

19 DR. MELMED: YES, ABSOLUTELY. THAT'S MY
20 POINT.

21 CHAIRMAN SHEEHY: SO DO WE HAVE ADDITIONAL
22 QUESTIONS FOR DISCUSSION? I THINK WE'VE FLAGGED
23 SOME ISSUES THAT I THINK, WHEN WE BRING IT TO THE
24 FULL BOARD, HAVE A LITTLE BIT MORE INFORMATION
25 ABOUT. BUT DO OTHER FOLKS HAVE QUESTIONS? SO HOW

1 DO WE WANT TO MOVE THIS FORWARD? IT SEEMS LIKE THAT
2 IT OBVIOUSLY SHOULD GO TO THE FULL BOARD. I THINK
3 THAT'S THE PLAN, RIGHT? WHAT ARE OPTIONS? I DON'T
4 KNOW -- I PERSONALLY WOULD PROBABLY ABSTAIN PENDING
5 MORE INFORMATION ON WHETHER OR NOT I APPROVE THE
6 CONCEPT. THAT DOESN'T MEAN THAT I WOULDN'T BE
7 LIKELY TO DO IT AT THE BOARD.

8 MR. TORRES: WE CAN MAKE A RECOMMENDATION
9 TO MOVE THIS PROPOSAL WITH RESERVATIONS HIGHLIGHTED
10 BY THE ISSUES THAT HAVE BEEN RAISED HERE FOR FURTHER
11 CONSIDERATION WITHOUT HAVING TO ABSTAIN.

12 CHAIRMAN SHEEHY: IS THAT YOUR MOTION,
13 SENATOR TORRES?

14 MR. TORRES: I THINK SO.

15 MS. BONNEVILLE: I THINK IT WOULD HELP THE
16 TEAM IF YOU COULD ADDRESS SORT OF THE QUESTIONS THAT
17 YOU WOULD LIKE SPECIFICALLY ADDRESSED AT THE BOARD
18 MEETING SO THAT WE CAN PUT THAT INFORMATION
19 TOGETHER.

20 CHAIRMAN SHEEHY: I'D REALLY LIKE TO KNOW
21 MORE ABOUT THE TIME FRAME ISSUE BECAUSE I'M STILL
22 CONFUSED ABOUT THE RATIONALE FOR IT. I HEARD TWO
23 DIFFERENT RATIONALES.

24 THEN THE MODELS FOR THE FUNDING. AND ALSO
25 FOR THE PEOPLE WE FUNDED, WHAT THAT LOOKS LIKE. AND

1 THEN THE PI ISSUE, WHICH WAS JUST RAISED, AND MAYBE
2 SOME CLARIFICATION ON HOW THAT WOULD WORK. YOU
3 MIGHT WANT TO REACH OUT TO DR. STEWARD OR DR. MELMED
4 AND KIND OF GET A SENSE OF WHAT MIGHT BE OTHER
5 ALTERNATIVES, IF THERE ARE ALTERNATIVES, OR WHAT
6 KIND OF DIRECTION MIGHT BE GIVEN TO THE WORKING
7 GROUP SO THAT THERE'S CLARITY ON THIS AND IT DOESN'T
8 BECOME JUST A SUBJECTIVE METRIC.

9 ANY OTHER THOUGHTS PEOPLE HAVE? THOSE ARE
10 THE ONES THAT KIND OF JUMPED ON ME.

11 DR. STEWARD: I TOTALLY AGREE. I WOULD
12 RECOMMEND SOME VERY SPECIFIC REVIEW CRITERIA FOR THE
13 PERCENT EFFORT ISSUE. AND THE REVIEWERS COME FROM
14 VERY DIFFERENT BACKGROUNDS. AT NIH THIS IS SORT OF
15 THERE AND REALLY NOT. IT'S ONE OF THESE THINGS THAT
16 IS ALMOST A CHECKED BOX ON NIH REVIEWS; WHEREAS,
17 WE'RE REALLY ASKING THE REVIEWERS TO TAKE THIS
18 SERIOUSLY. SO I THINK THERE NEEDS TO BE SOME VERY
19 SPECIFIC CRITERIA. THANK YOU.

20 DR. MELMED: WITH RESPECT, I KNOW THAT NIH
21 DOES TAKE IT SERIOUSLY, AND REVIEWERS -- WE'VE SEEN
22 MANY GRANTS WHERE REVIEWERS HAVE QUESTIONED TIME AND
23 EFFORT ON THE PI. I THINK THAT'S A VERY IMPORTANT
24 QUESTION. I DO THINK NIH REVIEWS DO TAKE INTO
25 ACCOUNT, AND THESE CRITIQUES OR PRAISES DO COME OUT

1 IN THE NIH REVIEWS, IF TIME AND EFFORT IS
2 APPROPRIATE, TIME AND EFFORT IS INAPPROPRIATE, OR
3 INSTITUTION COST SHARING FOR FACULTY SALARY OR
4 FACULTY PI IS VERY APPROPRIATE. I THINK IT'S A VERY
5 IMPORTANT QUESTION, AND IT'S A COMMITMENT, AGAIN, OF
6 THE INSTITUTION. WE SHOULDN'T ALLOW CIRM TO BE
7 EXPLOITED BY THE INSTITUTIONS TO SUPPORT TIME AND
8 EFFORT OF FACULTY WHO ARE OTHERWISE UNFUNDED.

9 CHAIRMAN SHEEHY: SO I HAVE A MOTION. DO
10 I HAVE A SECOND? IF THERE'S NO OTHER ISSUES THAT
11 PEOPLE WANT TO EXPRESS.

12 MR. TORRES: MY MOTION ENCAPSULATES THIS
13 PREVIOUS DISCUSSION.

14 CHAIRMAN SHEEHY: EXACTLY. IT CAPTURES
15 THE RESERVATIONS. DO I HAVE A SECOND?

16 DR. HIGGINS: I'LL SECOND THAT.

17 CHAIRMAN SHEEHY: GREAT. ANY PUBLIC
18 COMMENT ANYWHERE? CAN WE HAVE A ROLL CALL PLEASE.

19 MS. BONNEVILLE: DEBORAH DEAS. ANNE-MARIE
20 DULIEGE. DAVID HIGGINS.

21 DR. HIGGINS: YES.

22 MS. BONNEVILLE: STEVE JUELSGAARD.

23 MR. JUELSGAARD: YES.

24 MS. BONNEVILLE: BERT LUBIN. SHLOMO
25 MELMED.

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DR. MELMED: YES.

MS. BONNEVILLE: JEFF SHEEHY.

CHAIRMAN SHEEHY: HERE.

MS. BONNEVILLE: OS STEWARD.

DR. STEWARD: YES.

MS. BONNEVILLE: JONATHAN THOMAS.

CHAIRMAN THOMAS: YES.

MS. BONNEVILLE: ART TORRES.

MR. TORRES: AYE.

MS. BONNEVILLE: KRISTINA VUORI.

DR. VUORI: YES.

MS. BONNEVILLE: MOTION CARRIES.

CHAIRMAN SHEEHY: MOTION CARRIES. AND I
THINK THAT IS IT FOR BUSINESS. SO WE CAN ADJOURN.
THANK YOU, EVERYONE.

(THE MEETING WAS THEN CONCLUDED AT
11:08 A.M.)

REPORTER'S CERTIFICATE

I, BETH C. DRAIN, A CERTIFIED SHORTHAND REPORTER IN AND FOR THE STATE OF CALIFORNIA, HEREBY CERTIFY THAT THE FOREGOING TRANSCRIPT OF THE TELEPHONIC PROCEEDINGS BEFORE THE SCIENCE SUBCOMMITTEE TO THE INDEPENDENT CITIZEN'S OVERSIGHT COMMITTEE OF THE CALIFORNIA INSTITUTE FOR REGENERATIVE MEDICINE IN THE MATTER OF ITS REGULAR ON JANUARY 25, 2017, WAS HELD AS HEREIN APPEARS AND THAT THIS IS THE ORIGINAL TRANSCRIPT THEREOF AND THAT THE STATEMENTS THAT APPEAR IN THIS TRANSCRIPT WERE REPORTED STENOGRAPHICALLY BY ME AND TRANSCRIBED BY ME. I ALSO CERTIFY THAT THIS TRANSCRIPT IS A TRUE AND ACCURATE RECORD OF THE PROCEEDING.

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