#### BEFORE THE SCIENTIFIC AND MEDICAL ACCOUNTABILITY STANDARDS WORKING GROUP

TO THE

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

#### REGULAR MEETING

LOCATION: 210 KING STREET

3D FLOOR

SAN FRANCISCO, CALIFORNIA

DATE: DECEMBER 12, 2008

9 A.M.

REPORTER: BETH C. DRAIN, CSR

CSR. NO. 7152

BRS FILE NO.: 82963

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	DIMINISTERS REPORTING SERVICE
1	SAN FRANCISCO, CALIFORNIA; FRIDAY, DECEMBER 12, 2008
2	9 A.M.
3	
4	DR. LOMAX: LET'S JUST LET BERNIE COME
5	BACK INTO THE ROOM. GOOD MORNING, EVERYONE. THIS
6	IS GEOFF LOMAX. SHOULD WE START THE TRANSCRIPTION
7	AT THIS POINT.
8	OKAY. THIS IS THE DECEMBER 12, 2008,
9	TELECONFERENCE MEETING OF THE MEDICAL AND ETHICAL
10	STANDARDS WORKING GROUP. WHAT I CAN DO IS IT SOUNDS
11	LIKE THERE ARE A FEW MORE PEOPLE ON THE LINE OR
12	COMING IN. WHY DON'T I DO AN INITIAL ROLL CALL; AND
13	THEN IF WE HEAR MORE PEOPLE COME IN, WE'LL ASK
14	PEOPLE TO IDENTIFY THEMSELVES.
15	SHERRY LANSING.
16	MS. LANSING: HERE.
17	DR. LOMAX: FRANCISCO PRIETO. JEFF
18	SHEEHY.
19	MR. SHEEHY: HERE.
20	DR. LOMAX: BERNARD LO.
21	CHAIRMAN LO: HERE.
22	DR. LOMAX: TED PETERS.
23	DR. PETERS: HERE.
24	DR. LOMAX: DOROTHY ROBERTS.
25	DR. ROBERTS: HERE.
	3

1	Billing 1218 121 Oll 11 (6 821) 162
1	DR. LOMAX: JOSE CIBELLI.
2	DR. CIBELLI: HERE.
3	DR. LOMAX: ANN KIESSLING.
4	DR. KIESSLING: HERE.
5	DR. LOMAX: JANET ROWLEY. JOHN WAGNER.
6	JAMES WILLERSON.
7	DR. WILLERSON: HERE.
8	DR. LOMAX: IS THERE ANYONE I DIDN'T
9	MENTION?
10	DR. TAYLOR: ROB TAYLOR IS HERE REMOTELY.
11	DR. LOMAX: OKAY. SORRY ABOUT THAT, ROB.
12	MISSING YOU FROM MY LIST.
13	DR. TAYLOR: THAT'S ALL RIGHT.
14	CHAIRMAN LO: ANYONE ELSE? PAT, DO WE
15	HAVE A QUORUM?
16	DR. LOMAX: WE ARE SHORT OF A QUORUM AT
17	THE MOMENT.
18	CHAIRMAN LO: IF ANYONE BEEPS ON, I'LL
19	HAVE TO SORT OF FIND OUT WHO THEY ARE.
20	OKAY. LET ME JUST FORMALLY WELCOME
21	EVERYONE TO THE CALL. IT'S A BEAUTIFUL DAY HERE IN
22	SAN FRANCISCO. AND, SHERRY, DO YOU WANT TO SAY SOME
23	THINGS AS WELL TO WELCOME PEOPLE?
24	MS. LANSING: SOMEONE JUST JOINED. DID
25	SOMEONE JOIN? SORRY. BERNIE.
	4

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CHAIRMAN LO: SHERRY, DO YOU WANT TO ADD
ANYTHING?
MS. LANSING: NO. EVERYTHING JUST CLICKED
OUT. IT WAS WEIRD. I FELT LIKE OTHER PEOPLE JUST
JOINED IN BECAUSE I COULDN'T HEAR ANYTHING YOU SAID.
CHAIRMAN LO: SO AS WE'VE BEEN SAYING ALL
ALONG, THIS FIELD MOVES FORWARD, AND WE HAVE TO SORT
OF KEEP UP WITH EMERGING DEVELOPMENTS, BOTH
SCIENTIFICALLY AND IN THE POLICY ARENA. AS WE'LL
SEE, THE ISSUES THAT WE'D LIKE TO ADDRESS TODAY, USE
OF SOMATIC CELLS TO DERIVE IPS CELLS, AND THEN GOING
BACK TO THE ICOC WITH IDEAS AND SUGGESTIONS ABOUT
EMBRYOS MADE WITH OOCYTES FROM PAID DONORS. THEY'RE
BOTH SCIENTIFIC ISSUES AND ALSO SORT OF POLICY
ISSUES WE NEED TO THINK THROUGH.
I WANT TO PARTICULARLY WELCOME DOROTHY
ROBERTS TO OUR GROUP. DOROTHY IS THE I'M
BLANKING ON THE NAME OF YOUR CHAIR.
PROFESSOR ROBERTS: KIRKLAND & ELLIS, A
LAW FIRM IN CHICAGO.
CHAIRMAN LO: HAS A DISTINGUISHED NAMED
PROFESSORSHIP AT NORTHWESTERN. AND DOROTHY HAS BOTH
A STELLAR ACADEMIC RECORD AND A CAREER OF PUBLIC
SERVICE. AND WE CERTAINLY WELCOME HER TO THE GROUP
AND LOOK FORWARD TO WELCOMING HER IN PERSON AT THE
5

1	NEXT MEETING. BUT, DOROTHY, DELIGHTED TO HAVE YOU,
2	AND WE LOOK FORWARD TO YOUR EXPERTISE AND YOUR GOOD
3	IDEAS.
4	PROFESSOR ROBERTS: THANK YOU. IT'S GOOD
5	TO BE PART OF THE GROUP.
6	CHAIRMAN LO: I JUST WANT TO REMIND
7	EVERYONE TO MAKE PLANS TO COME TO OUR MEETING
8	FEBRUARY 17TH, 18TH IN LOS ANGELES WHERE WE WILL
9	DISCUSS A NUMBER OF ISSUES, AND WE'LL TALK MORE
10	ABOUT THAT, BUT IT WILL BE IMPORTANT TO HAVE THIS
11	FACE-TO-FACE MEETING.
12	ALSO, I WANT TO SORT OF TIP US OFF TO SOME
13	ISSUES THAT I THINK WE SHOULD BE WORKING ON AS WE
14	LOOK FORWARD TO THE NEW YEAR. MANY PEOPLE IN THE
15	FIELD THINK THAT CLINICAL TRIALS OF STEM CELL
16	THERAPIES WILL BE ON THE HORIZON FASTER THAN WE
17	THINK. AND CIRM, WITH ALAN AND THE CIRM STRATEGIC
18	PLAN, IS LOOKING TO BEING A MAJOR PLAYER IN SORT OF
19	STIMULATING APPROPRIATE INNOVATIVE CLINICAL TRIALS.
20	AND SO I THINK IT WILL BE IMPORTANT FOR US
21	TO HAVE THOUGHT ABOUT THOSE ISSUES TO KEEP AHEAD OF
22	THE SCIENCE AS IT EMERGES. SO THIS, I THINK, WILL
23	BECOME A PRIORITY FOR US, AND WE'LL BE HEARING MORE
24	ABOUT THAT.
25	ALAN, DO YOU WANT TO SAY ANYTHING ABOUT
	6

1	HOW YOU SEE? I PARTICULARLY WANT TO MAKE SURE THAT
2	WHAT WE DO IN THE SWG REALLY FITS IN WITH THE SORT
3	OF SCIENTIFIC AND STRATEGIC PLANS, THE EXCITING
4	PLANS THAT CIRM IS DEVELOPING.
5	DR. TROUNSON: THANKS, BERNIE. WE WILL BE
6	RELEASING AN RFA OR REQUEST FOR FUNDING IN THE AREA
7	OF DISEASE TEAMS WHERE WE'RE EXPECTING THE
8	APPLICANTS TO MAKE AN IND OR A SUBMISSION FOR A
9	CLINICAL TRIAL WITHIN A FOUR-YEAR PERIOD. SOME OF
10	THESE TEAMS MAY WELL MAKE IT INTO CLINICAL TRIAL
11	BEFORE THAT TIME. AND WE NEED TO BE VERY
12	COMFORTABLE WITH OUR VIEWS ABOUT THE CLINICAL
13	TRIALS, AND THAT NEEDS TO BE IN CONCERT WITH, OF
14	COURSE, THE MAJOR REGULATORY BODIES SUCH AS THE FDA,
15	AND WE NEED TO CONSIDER THE SITUATION WITH NATIONAL
16	STEM CELL RESEARCH SOCIETY AND PERHAPS EVEN IN OTHER
17	INTERNATIONAL REGULATORY BODIES BECAUSE IT'S
18	POSSIBLE THAT SOME OF THE CLINICAL TRIALS FOR THE
19	WORK THAT WE'LL BE DOING WILL BE CONDUCTED IN OTHER
20	STATES OR EVEN IN OTHER COUNTRIES.
21	SO I THINK THIS IS A PARTICULAR CHALLENGE
22	FOR US TO HAVE HAD A PUBLIC DISCUSSION AND ALSO TO
23	HAVE SOME INPUTS ON THE VIEWS WITH RESPECT TO THE
24	REGULATORY AGENCIES AND THE RECOMMENDATIONS THAT ARE
25	COMING FROM SOME OF THE SENIOR REPRESENTATIVE

1	BODIES.
2	CHAIRMAN LO: OKAY. SO AS ALAN ALLUDED
3	TO, THE ISSCR, INTERNATIONAL SOCIETY FOR STEM CELL
4	RESEARCH, HAS JUST ISSUED DETAILED GUIDELINES FOR
5	STEM CELL CLINICAL TRIALS. SO I THINK ONE THING
6	WE'RE GOING TO NEED TO DO AS A COMMITTEE IS TO SORT
7	OF FAMILIARIZE OURSELVES WITH THOSE, UNDERSTAND WHAT
8	THEY'VE DONE, THE ISSUES THAT ARE LEFT TO BE DONE.
9	AND ALSO, AS ALAN SUGGESTED, THERE ARE
10	REGULATORY SCHEMES IN PLACE. BOTH THE FDA AND OTHER
11	COUNTRIES WILL HAVE REGULATIONS, AND ONE OF THE
12	THINGS WE WANT TO DO HERE IS MAKE SURE GOOD SCIENCE
13	GOES FORWARD WITH GOOD ETHICAL GUIDELINES, BUT NOT
14	TO IMPOSE REGULATIONS THAT ARE EITHER UNNECESSARY OR
15	INCONSISTENT WITH WHAT REGULATORY BODIES ON A
16	NATIONAL SCHEME ARE DOING.
17	SO IT'S GOING TO BE IMPORTANT FOR US AS AN
18	SWG TO SORT OF TAKE THE LEAD IN HELPING CIRM
19	UNDERSTAND WHAT THE ISSUES ARE, WHERE EXISTING
20	REGULATIONS HAVE BEEN COVERED, WHERE THERE ARE NEW
21	THINGS ABOUT STEM CELL RESEARCH THAT MAY REQUIRE
22	INVESTIGATORS TO PAY PARTICULAR ATTENTION BEYOND
23	JUST THE MINIMUM REGULATIONS.
24	THIS WILL BE A FOCUS OF WHAT WE'LL BE
25	DOING, AND I WILL WORK WITH GEOFF TO SORT OF HELP US

1	UNDERSTAND WHAT THESE ISSCR GUIDELINES ARE ALL
2	ABOUT.
3	OKAY. SO THE TWO ISSUES THAT WE'D LIKE TO
4	HANDLE, TO ADDRESS TODAY ARE SOMATIC CELLS AND
5	PAYMENT I MEAN EMBRYONIC STEM CELLS DERIVED FROM
6	OOCYTES WITH PAID DONORS. BUT BEFORE WE DO THAT, I
7	WANT TO SORT OF ASK GEOFF TO GIVE US A STAFF REPORT
8	ON A COUPLE OF THINGS THAT HAVE HAPPENED SINCE WE
9	LAST WERE TOGETHER.
10	HAS ANYBODY JOINED THE CALL SINCE WE TOOK
11	ROLL?
12	DR. PRIETO: YES. FRANCISCO PRIETO HERE.
13	CHAIRMAN LO: WELCOME, FRANCISCO. ANYONE
14	ELSE? OKAY.
15	DR. LOMAX: THANK YOU, BERNIE. QUICKLY
16	UPDATE YOU ON A FEW OF THE REGULATORY DEVELOPMENTS
17	SINCE THE LAST TIME THIS GROUP MET. WE HAVE PUT
18	FORWARD A REQUEST TO THE OFFICE OF ADMINISTRATIVE
19	LAW TO FINALIZE WHAT I'LL REFER TO AS THE
20	GRANDFATHERING RULE. THIS IS THE REGULATION THAT
21	CREATED A MECHANISM FOR STEM CELL LINES DERIVED
22	PRIOR TO NOVEMBER 2006. THIS IS THE DATE WHEN THE
23	REGULATIONS TOOK EFFECT. IT CREATES A MECHANISM FOR
24	APPLICANTS TO APPLY FOR LINES TO BE DESIGNATED AS
25	ACCEPTABLE FOR CIRM-FUNDED RESEARCH. THERE ARE
	a

1	LINES, WE SAW SOME EXAMPLES, WHERE THEY DON'T
2	CONFORM TO THE PRECISE DETAILS OF OUR REGULATIONS,
3	BUT THEY WERE CREATED PRIOR TO THE DATE OF THE
4	REGULATIONS. SO THIS PROCESS ALLOWS US TO EVALUATE
5	THEM ON A CASE-BY-CASE BASIS.
6	CURRENTLY THAT REGULATION EXISTS AS AN
7	INTERIM REGULATION FOR A PERIOD OF 270 DAYS. AND
8	WHAT GOING FORWARD WITH THE OFFICE OF ADMINISTRATIVE
9	LAW ALLOWS US TO DO IS TURN THAT REGULATION INTO ONE
10	THAT WILL MOVE FORWARD INDEFINITELY. SO WE'VE MOVED
11	FORWARD ON THAT PROCESS. IT IS OPEN FOR PUBLIC
12	COMMENT, SO WE HAVE COMMENTS COMING IN, AND WE'LL
13	HAVE TO RESPOND TO THOSE ACCORDINGLY.
14	IN ADDITION, JUST TO REMIND FOLKS, WE HAVE
15	BEEN IMPLEMENTING OUR COMPLIANCE PROGRAM. WE'VE
16	DEVELOPED PROTOCOLS FOR EVALUATING COMPLIANCE WITH
17	THE REGULATIONS AND ADMINISTRATIVE REQUIREMENTS. A
18	BIG PIECE OF THAT IS GOING OUT AND LOOKING AT THE
19	INSTITUTIONS, HOW THEY'VE ESTABLISHED OVERSIGHT
20	COMMITTEES, AND LOOKING TO ENSURE WE GO IN AND
21	LOOK FOR ASSURANCE THAT THEY ARE IMPLEMENTING, THE
22	SCRO COMMITTEES, OUR REGULATIONS AS DESCRIBED.
23	AS OF DECEMBER 2008, WE'VE VISITED FIVE
24	SITES WHICH REPRESENT 42 PERCENT OF CIRM FUNDING.
25	WE'VE, IN GENERAL, FOUND SUBSTANTIAL COMPLIANCE WITH

1	THE REGULATIONS. WE HAVE IDENTIFIED SOME AREAS
2	WHERE WE'VE SEEN ROOM FOR IMPROVEMENT, AND WE'VE
3	COMMUNICATED THAT INFORMATION TO THE GRANTEES.
4	IN ADDITION, WE'RE USING THIS OPPORTUNITY
5	TO DEVELOP A SERIES OF GUIDANCE DOCUMENTS AND
6	TECHNICAL ASSISTANCE FACT SHEETS ON ISSUES; FOR
7	EXAMPLE, LIKE WHAT THE IDEAL OVERSIGHT SCRO APPROVAL
8	LETTER WOULD LOOK LIKE IN TERMS OF DOCUMENTING THE
9	APPROVAL, THE TYPES OF CELL LINES APPROVED, ETC. SO
10	IT'S REALLY GIVING US AN OPPORTUNITY TO INTERACT
11	DIRECTLY WITH THE REGULATED COMMUNITY AND IDENTIFY
12	WAYS IN WHICH WE CAN BE MOST EFFECTIVE IN TERMS OF
13	REGULATIONS, ASSURANCE, AND DOCUMENTATION.
14	AND OUR GOAL IS TO VISIT ALL SITES WITH
15	FUNDING GREATER THAN \$5 MILLION BY THE FIRST HALF OF
16	NEXT YEAR, AND WE'LL BE LOOKING FORWARD TO PROVIDING
17	YOU WITH A FULL REPORT ONCE WE'VE COMPLETED OUR
18	FIRST CYCLE.
19	CHAIRMAN LO: I JUST WANT TO ADD, IF I
20	MAY, A NOTE TO THAT. UCSF WAS ACTUALLY ONE OF THE
21	SITES THAT GEOFF VISITED. I ACTUALLY THINK THESE
22	SITE VISITS ARE VERY IMPORTANT. THEY SERVE AN
23	EDUCATIONAL PURPOSE TO MAKE SURE INSTITUTIONS REALLY
24	UNDERSTAND WHAT THE CIRM REGULATIONS ARE ABOUT. I
25	THINK IT ALSO SERVES A VERY IMPORTANT PURPOSE IN

1	TERMS OF ACCOUNTABILITY, THAT WHAT HAPPENED AT UCSF,
2	AND I THINK THIS IS FAIR TO SAY, THAT THERE WERE
3	DEFICIENCIES IN DOCUMENTATION OF OVERSIGHT THAT
4	NEEDED TO BE CORRECTED BECAUSE I THINK, SINCE WE ARE
5	A PUBLIC SOURCE OF FUNDING, IT'S IMPORTANT THAT WE
6	BE ABLE TO DEMONSTRATE TO THE PUBLIC THAT ALL THE
7	RESEARCH CARRIED OUT IS IN COMPLIANCE WITH THE
8	REGULATIONS.
9	I THINK NOT HAVING GOOD DOCUMENTATION OF
10	COMPLIANCE COULD RAISE PROBLEMS THAT THEN YOU HAVE
11	TO DIG FURTHER INTO PRIMARY DATA SOURCES OF RECORDS
12	WHICH IS ALWAYS MUCH MORE COMPLICATED. SO ALTHOUGH
13	THESE THINGS MAY SEEM TO BE SORT OF BUREAUCRATIC,
14	THEY'RE IMPORTANT TO DOCUMENT THAT WHAT'S DONE
15	REALLY IS IN COMPLIANCE. I THINK GEOFF HAS DONE A
16	VERY GOOD JOB SORT OF POINTING OUT TO INSTITUTIONS
17	THE IMPORTANCE OF HAVING GOOD SYSTEMS OF NOT JUST
18	OVERSIGHT, BUT ALSO DOCUMENTATION OF THE PROCESS.
19	DR. CIBELLI: CAN I ASK A QUESTION? THIS
20	IS JOSE. GEOFF, DID YOU SEE ANY YOU SAID THERE
21	WERE A FEW INSTITUTIONS THAT HAVE SOME ISSUES.
22	OTHER THAN THE ONE THAT BERNIE JUST MENTIONED,
23	STANFORD, HAVE YOU SEEN ANY COMMON ONES THAT MAY
24	ACTUALLY BE SOMETHING THAT WE COULD IMPROVE IN TERMS
25	OF CLARITY? THEY'RE ALL DIFFERENT FROM ALL THE

1	THINGS YOU'VE SEEN?
2	DR. LOMAX: I THINK BERNIE'S COMMENT
3	REALLY CAPTURED THE FLAVOR OF IT. I THINK IT'S
4	EXPECTATION WITH REGARD TO DOCUMENTATION. I WAS
5	ACTUALLY QUITE IMPRESSED, AT LEAST IN THE GRANTS
6	THAT WE LOOKED AT, WHERE, FOR EXAMPLE, WE WERE
7	ASKING FOLKS THE COMMON AREA, WHICH IS COMMON TO
8	ALMOST ALL THE GRANTS THAT INVOLVE HUMAN EMBRYONIC
9	STEM CELL LINES, IS HOW DO THEY MAKE THE
10	DETERMINATION THAT THE LINES WERE ACCEPTABLY
11	DERIVED.
12	AND THERE WERE APPLICATIONS WHERE THE
13	DOCUMENTATION WENT BACK TO SORT OF E-MAIL EXCHANGES
14	BETWEEN THE PI AND COMMITTEE CHAIR, COMMITTEE
15	ADMINISTRATOR, SORT OF SHOWING A BACK AND FORTH
16	BETWEEN THE PROVIDER OF THE CELL LINES AND THE PI
17	THAT REALLY CAPTURED THE PROVENANCE INFORMATION.
18	SO FIRST OFF, I SORT OF SAW VERY PROACTIVE
19	WORK. BERNIE IS RIGHT. WHERE THERE WERE
20	DEFICIENCIES, I THINK THEY WERE LESS IN TERMS OF,
21	SAY, SOMETHING IN OUR STANDARDS WHICH SOMEONE CAN OR
22	CANNOT COMPLY WITH, BUT MORE WHAT'S THE STANDARD OF
23	EVIDENCE THAT WE REQUIRE TO BE ABLE TO SAY, YES,
24	YOU'RE IN COMPLIANCE, YOU'RE NOT IN COMPLIANCE. AND
25	THAT STANDARD REALLY DOES GET DOWN TO SOME OF THE

1	DETAILS, I THINK, OF PARTICULARLY THESE APPROVAL
2	LETTERS THAT COME FROM THE OVERSIGHT COMMITTEE.
3	IF YOU READ THE REGULATIONS CAREFULLY, IT
4	SAYS THE OVERSIGHT COMMITTEE SHALL ASSURE THAT
5	SUCH-AND-SUCH AND SUCH-AND-SUCH HAS HAPPENED. AND
6	THE COMMON THING I'M SEEING IS THOSE LETTERS, THERE
7	IS ROOM FOR IMPROVEMENT IN THESE LETTERS. THE WORK
8	IS BEING DONE. YOU CAN SORT OF SEE IT IN THE GRANTS
9	FILES, YOU CAN SEE IT IN THE EXCHANGES BETWEEN
10	EITHER THE PRINCIPAL INVESTIGATOR AND THE OVERSIGHT
11	COMMITTEE OR EVEN THE PRINCIPAL INVESTIGATOR AND,
12	SAY, THE SUPPLIER OF CELL LINES, THE SUPPLIERS OF
13	EMBRYOS. IT'S THERE, BUT HOW TO TRANSLATE THAT
14	WORK, WHICH BASICALLY EXISTS IN A BINDER OR FILE
15	FOLDER, INTO A PIECE OF DOCUMENTATION THAT'S SORT OF
16	CONSISTENT ACROSS THE GRANTEES.
17	SO THAT'S, I THINK, REALLY THE FOCUS. I
18	WOULD SUGGEST AT THIS POINT IT'S A BIT MORE OF AN
19	ADMINISTRATIVE TASK AT OUR END IN SORT OF SORTING
20	THAT OUT, BUT THERE ARE VERY PRESSING ISSUES FOR THE
21	WORKING GROUP.
22	HOWEVER, WITH THAT SAID, I HAVE SUMMARIZED
23	THE INTERVIEWS THAT ARE PART OF THIS PROTOCOL, AND
24	THEY'RE ATTACHED TO THE BRIEFING PACKET. AND WITHIN
25	THAT SET OF INTERVIEW SUMMARIES, THERE MAY BE ISSUES

1	IN THERE THAT I'M MISSING, WHICH A SHARPER EYE MAY
2	THINK ARE ISSUES THAT ARE RIGHT FOR THE WORKING
3	GROUP TO CONSIDER. SO I WOULD ALSO DIRECT YOU TO
4	THAT DOCUMENT AND SUGGEST THERE MAY BE ISSUES SORT
5	OF EMBEDDED IN THERE THAT WE SHOULD THINK ABOUT. SO
6	THAT HAS BEEN PROVIDED TO YOU ALL. AND AS THIS
7	PROCESS MOVES FORWARD, THAT DOCUMENT WILL BE UPDATED
8	AS MORE INTERVIEWS ARE CONDUCTED. SO WE SORT OF
9	CONTINUE TO SEE THAT AS A MECHANISM FOR IDENTIFYING
LO	SORT OF NEW ISSUES THAT ELEVATE TO THE LEVEL OF
L1	STANDARDS WORKING GROUP OR ICOC.
L2	CHAIRMAN LO: OKAY. THANKS, GEOFF. IF
L3	THERE ARE NO OTHER QUESTIONS OR COMMENTS, I'D LIKE
L4	TO MOVE ON. I THINK NOW WE'RE ON AGENDA ITEM NO. 4,
L5	REGULATORY AND POLICY CONSIDERATIONS. FIRST, JUST
L6	AS CONTEXT, AS WE'VE SAID ALL ALONG, THIS IS A FIELD
L7	THAT'S EXCITING, IT'S MOVING FORWARD, AND WE NEED TO
L8	MAKE SURE THE REGULATIONS AND THE ETHICAL
L9	CONSIDERATIONS ARE KEEPING UP WITH THE SCIENCE AND
20	NATIONAL DEVELOPMENTS.
21	AND THERE ARE A NUMBER OF NATIONAL
22	DEVELOPMENTS. THE NATIONAL ACADEMY OF SCIENCES
23	ISSUED UPDATES TO ITS GUIDELINES THIS SPRING. THAT
24	INCLUDED BRINGING THESE INDUCED PLURIPOTENTIAL CELLS
25	INTO THE RECOMMENDATIONS THAT THEY HAD MADE.

1	THERE'S CERTAINLY AN EXPECTATION THAT THERE MAY BE
2	CHANGES ON THE FEDERAL LEVEL FROM NIH IN THE NEW
3	ADMINISTRATION. WE'LL HAVE TO SEE HOW THAT WORKS
4	OUT.
5	BUT I THINK THERE ARE TWO ISSUES THAT
6	REALLY ARE THE MEAT OF OUR AGENDA TODAY. 4(A) IS
7	SOMATIC CELLS AND IPS LINES AND 4(B) IS IVF EMBRYOS
8	FROM PAID DONORS. I'M GOING TO FOLLOW THE AGENDA
9	AND HAVE US START WITH 4(A), SOMATIC CELLS. AND I
10	THINK THE BEST WAY TO DO THIS IS TO TURN TO THE
11	SLIDES THAT GEOFF SENT BY E-MAIL. THERE ARE A SET
12	OF EIGHT POWERPOINT SLIDES. I'M SORRY. I FORGET
13	WHAT THEY WERE ENTITLED JUST SO PEOPLE
14	DR. LOMAX: I THINK IT SAYS POWERPOINT
15	VIEW GRAPHS FOR 12/02 MEETING. IT'S THE ONLY
16	POWERPOINT THAT WAS INCLUDED IN THE SET OF
17	BACKGROUND MATERIALS YOU RECEIVED.
18	DR. PRIETO: GEOFF, IT BEGINS WITH THE
19	FIRST SLIDE IS CURRENT CIRM STANDARDS FOR SCRO
20	OVERSIGHT, PAYMENT?
21	CHAIRMAN LO: ABSOLUTELY. THOSE ARE THE
22	ONES.
23	DR. LOMAX: NOW THAT I MENTION IT, IT
24	MIGHT HAVE BEEN IN PDF FORMAT.
25	DR. PRIETO: MINE IS IN A PDF FORMAT.
	16

1	CHAIRMAN LO: THANKS FOR THIS CORRECTION.
2	GEOFF, DO YOU WANT TO WALK US THROUGH THE FIRST TWO
3	SLIDES. I THINK THEY'RE SORT OF THE FIRST SLIDES
4	THAT VISUALLY HELP US TO UNDERSTAND WHAT THE ISSUES
5	ARE FOR SOMATIC CELL DONATION FOR IPS DERIVATION.
6	DR. LOMAX: THESE SLIDES ARE INTENDED TO
7	GIVE YOU A SENSE, IF YOU WILL, OF THE SCOPING OF OUR
8	REGULATIONS. SO WHEN WE INITIALLY SAT DOWN AND
9	DEVELOPED THE STANDARDS FOR OVERSIGHT, PAYMENTS, AND
10	CONSENT, WE SORT OF DREW A CIRCLE WHERE WE SAY ALL
11	EMBRYOS, GAMETES, OR SOMATIC CELLS USED IN
12	CIRM-FUNDED RESEARCH. THAT'S THE UNIVERSE OF
13	MATERIAL WE CAPTURED, WHICH IS REALLY A BIT BROADER
14	THAN WHAT THE NATIONAL ACADEMIES DID. THEIR
15	UNIVERSE FOCUSED LARGELY ON EMBRYOS AND GAMETES WITH
16	SOME SUBSEQUENT UPDATES THAT DO ADDRESS ISSUES
17	RELATED TO SOMATIC CELLS.
18	SO WHEN YOU LOOK AT OUR STANDARDS FOR SORT
19	OF THE OVERSIGHT COMMITTEE FOR PAYMENTS AND FOR
20	CONSENT, CURRENTLY WE TREAT ALL THOSE MATERIALS AS
21	EQUAL. AND OUR REGULATIONS ARE FAIRLY AGGRESSIVE IN
22	TERMS OF CONSENT, PAYMENT, AND OVERSIGHT IN ALL
23	THOSE AREAS.
24	NOW, LET ME JUST STOP THERE AND JUST ASK.
25	SO IS THAT POINT DO PEOPLE UNDERSTAND THAT POINT?

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1	DOES THIS SLIDE SORT OF EFFECTIVELY SORT OF CONVEY
2	THAT?
3	PROFESSOR ROBERTS: I THINK SO.
4	DR. LOMAX: SO LET ME TURN TO THE SECOND
5	SLIDE, WHICH IS TITLED "PROPOSED MODIFICATION." AND
6	THIS IS PROPOSED MODIFICATION OF STANDARDS FOR
7	OVERSIGHT, PAYMENTS, AND CONSENT.
8	SO THIS GIVES YOU SORT OF A CONCEPTUAL
9	VIEW OF WHAT THIS PACKAGE OF AMENDMENTS WOULD
10	ACCOMPLISH IF ALL THE RECOMMENDATIONS WERE ADOPTED
11	IN WHOLE. WHAT WE'D EFFECTIVELY BE DOING IS
12	APPLYING THE SORT OF MOST AGGRESSIVE STANDARDS TO
13	EMBRYOS AND GAMETES, AND THAT'S MORE OR LESS
14	CONSISTENT WITH THE NATIONAL ACADEMIES. BUT FOR THE
15	SOMATIC CELL PORTION OF THE WORK, WE WOULD BE SORT
16	OF CARVING OUT, SPECIFICALLY FOR IN VITRO WORK AND
17	LABORATORY WORK INVOLVING SOMATIC CELLS, THERE WOULD
18	BE RATHER THAN PROVIDING A FULL REVIEW, FOR
19	EXAMPLE, OF A PROPOSED STUDY, AN ADMINISTRATIVE
20	NOTIFICATION OF THE OVERSIGHT COMMITTEE PER SE DOING
21	SOME WORK WHERE THERE MIGHT BE REPROGRAMMING
22	INVOLVING, LET'S JUST SAY, A BLOOD SAMPLE. THIS IS
23	THE EXAMPLE THAT ACTUALLY CAME OUT OF THE WORK I
24	MENTIONED EARLIER.
25	THE CASE EXAMPLE WAS ONE WHERE WE HAVE A
	18
	• ————————————————————————————————————

1	BANK THAT ROUTINELY COLLECTS BLOOD SAMPLES FROM
2	PATIENTS WITH HIV. THE PATIENTS DO CONSENT, GIVE A
3	GENERAL RESEARCH CONSENT FOR THE USE OF THOSE
4	MATERIALS IN RESEARCH, AND THEN THEY'RE BANKED. SO
5	THERE'S AN INVESTIGATOR THAT'S INTERESTED IN BEING
6	ABLE TO ROUTINELY GO BACK AND FORTH TO THAT BANK TO
7	PULL BLOOD SAMPLES OF DIFFERING IMMUNOLOGICAL
8	CHARACTERISTICS FOR LABORATORY WORK.
9	SO WHAT THIS WOULD SAY IS FOR THAT TYPE OF
10	RELATIONSHIP OR THAT TYPE OF STUDY, A NOTIFICATION
11	IS APPROPRIATE. AND THEN THE OTHER SIDE OF IT ON
12	THE CONSENT SIDE, YOU KNOW, AGAIN, THERE'S A LITTLE
13	BIT OF THERE'S AN ISSUE ON THE CONSENT SIDE
14	BECAUSE WE SAY IF YOU'RE DOING RESEARCH THAT'S
15	DESIGNED OR INTENDED TO CREATE BASICALLY A
16	PLURIPOTENT STEM CELL LINE, THEN OUR CONSENT
17	STANDARD COMES INTO EFFECT. AND OUR CONSENT
18	STANDARD IS VERY DETAILED.
19	IN THE EXAMPLE I'M GIVING
20	CHAIRMAN LO: COULD I BREAK IN FOR A
21	MINUTE AND JUST SORT OF TAKE A STEP BACKWARD AND SAY
22	WHY DO WE THINK DONATING SOMATIC CELLS FOR RESEARCH
23	IS DIFFERENT THAN DONATING GAMETES OR EMBRYOS? AND
24	WHY, THEREFORE, WE MIGHT HAVE A DIFFERENT REGULATORY
25	SCHEME? I THINK WE HAVE TO GO BACK AND REMEMBER

1	THAT RESEARCH WITH GAMETES AND EMBRYOS IS SENSITIVE
2	FOR A LOT OF REASONS. MANY PEOPLE HAVE PUT A
3	SPECIAL SIGNIFICANCE ON THOSE CELLS COMPARED TO
4	BLOOD CELLS, SKIN CELLS THAT ARE TO BE USED FOR IPS.
5	THE METHOD OF OBTAINING THOSE CELLS IS MEDICALLY
6	RISKIER.
7	IF YOU HAVE A WOMAN WHO'S UNDERGOING
8	OOCYTE DONATION, THERE ARE, AS WE HAVE TALKED IN
9	THIS GROUP BEFORE, THERE ARE MEDICAL RISKS IN THAT
10	WHICH AREN'T THE CASE WHEN YOU'RE DONATING A BLOOD
11	SAMPLE OR EVEN DONATING A SKIN BIOPSY. THERE ARE
12	RISKS, BUT THEY'RE VERY, VERY LOWER AND LESS
13	FREQUENT COMPARED TO THE RISKS OF OOCYTE DONATION.
14	THERE ALSO ARE CONCERNS ABOUT THE CONSENT
15	PROCESS ITSELF, GIVEN THAT CONSENT FOR DONATION OF
16	OOCYTES FOR GAMETES AND EMBRYOS IS TIED IN WITH
17	REPRODUCTIVE USE WHICH, AGAIN, HAS SPECIAL
18	SIGNIFICANCE. THERE HAVE BEEN CONCERNS RAISED ABOUT
19	WHETHER WOMEN ARE REALLY GIVEN THE INFORMATION THEY
20	NEED.
21	SO ALL THOSE WERE CONSIDERATIONS THAT LED,
22	NOT JUST US, BUT THE NATIONAL ACADEMIES AND OTHER
23	STATES AS WELL TO SAY FOR DONATION OF EMBRYOS AND
24	GAMETES FOR STEM CELL RESEARCH, WE NEED TO BE SURE
25	THAT THE RISKS ARE ACCEPTABLE AND MINIMIZED AND THAT

1	THE CONSENT PROCESS IS RIGOROUS.
2	DR. PRIETO: SOME OF THOSE CONCERNS I
3	RECOGNIZE, PARTICULARLY THE RISKS, APPLY FOR WOMEN,
4	BUT NOT FOR MEN WHEN YOU'RE TALKING ABOUT GAMETES.
5	BUT I THINK ISN'T PART OF THE ETHICAL CONCERN THE
6	REGENERATIVE OR THE INHERENT
7	REGENERATIVE/PROCREATIVE POTENTIAL OF THOSE CELLS AS
8	OPPOSED TO OTHER CELLS AS OPPOSED TO SOMATIC CELLS
9	AND, OF COURSE, THEN THE SORT OF RELATED ISSUE NOW
10	THAT SCIENCE IS BLURRING OR MAY BE ERASING THAT
11	DISTINCTION?
12	CHAIRMAN LO: WELL, LET ME I THINK
13	YOU'RE ABSOLUTELY RIGHT, FRANCISCO, THAT THERE WERE
14	MANY REASONS WHY PEOPLE SAID LET'S BE PARTICULARLY
15	CAREFUL ABOUT CONSENT, PAYMENT, AND OVERSIGHT IN THE
16	CONTEXT OF USING OOCYTES AND EMBRYOS FOR STEM CELL
17	RESEARCH. AND I THINK WE DID THAT.
18	THE QUESTION NOW IS INCREASINGLY THERE'S
19	TREMENDOUS SCIENTIFIC INTEREST IN DERIVING THESE
20	INDUCED PLURIPOTENTIAL CELLS FROM SKIN BIOPSIES OR
21	IN SOME CASES BLOOD SAMPLES BECAUSE THEY ALLOW THE
22	INVESTIGATOR TO DERIVE A STEM CELL LINE THAT'S
23	GENETICALLY IDENTICAL TO THE DONOR. SO THAT MAY
24	HAVE A STEM CELL LINE EXPRESSING A PARTICULAR
25	CLINICAL PHENOTYPE, A CONDITION GEORGE DALY DID
	24

1	THIS AT HARVARD WITH A NUMBER OF LINES WITH THE
2	DEGENERATIVE DISEASES SO THE SCIENTISTS COULD STUDY
3	THEM.
4	AND SO I THINK, GIVEN THE SCIENTIFIC
5	INTEREST, IT'S IMPORTANT TO MAKE SURE THAT WE HAVE
6	THE RIGHT SET OF GUIDELINES FOR THIS NEW TYPE OF
7	RESEARCH.
8	THE OTHER FACTOR THAT'S MISSING IS THAT
9	THERE ARE REGULATIONS ON DONATION OF STORED BLOOD OR
10	BIOPSY SAMPLES FOR RESEARCH THAT'S COVERED UNDER
11	EXISTING FEDERAL REGULATION. CONSENT IS REQUIRED,
12	BUT NOT IN THE LEVEL OF DETAIL THAT WE HAD REQUIRED
13	FOR OOCYTES. AND ALSO THERE'S A PROVISION IN THE
14	FEDERAL REGULATIONS WHICH MANY RESEARCHERS TAKE
15	ADVANTAGE OF, WHICH IS TO USE EXISTING SAMPLES THAT
16	ARE ANONYMIZED, STRIPPED OF ALL IDENTIFIERS, SO
17	THEY'RE SAMPLES THAT ARE LEFT OVER FROM CLINICAL
18	USAGE, A TUBE OF BLOOD THAT'S LEFT OVER, A BIOPSY
19	SPECIMEN THAT'S NOT NEEDED FOR CLINICAL PURPOSES, OR
20	A SPECIMEN THAT WAS OBTAINED IN ANOTHER RESEARCH
21	PROJECT, BUT WASN'T FULLY USED. THOSE EXISTING
22	SAMPLES CAN BE USED FOR OTHER RESEARCH IF THEY'RE
23	ANONYMIZED UNDER FEDERAL REGULATIONS.
24	IN FACT, THE FIRST IPS LINES DERIVED WERE
25	ALL DONE WITH COMMERCIALLY AVAILABLE SOMATIC CELLS
	22

1	THAT WERE ANONYMIZED, AND THERE WAS NO SPECIFIC
2	CONSENT GIVEN BY THOSE DONORS FOR DERIVATION OF STEM
3	CELLS. SO THE IDEA IS THAT IF WE APPLY THE FULL
4	DETAILED CONSENT THAT WE'RE REQUIRING FOR DONORS OF
5	OOCYTES TO HAVE TO GIVE SPECIFIC CONSENT FOR
6	DERIVATION OF A STEM CELL LINE, THAT WOULD REMOVE A
7	LOT OF EXISTING TISSUE WHICH SCIENTISTS, WHETHER
8	WITH CIRM FUNDING OR WITHOUT, WOULD FIND VALUE IN
9	USING.
10	SO THAT I'M JUST SAYING THAT THE CONTEXT
11	IS THAT WE HAVE VERY STRONG OVERSIGHT AND
12	REQUIREMENTS FOR BOTH REVIEW, PAYMENT, AND CONSENT
13	FOR EMBRYOS AND GAMETES. THE QUESTION I THINK WE'RE
14	DEALING WITH IS DO WE MOVE FOR THE SOMATIC CELLS FOR
15	IPS TO A LEVEL OF OVERSIGHT AND CONSENT THAT'S MORE
16	CONSISTENT WITH WHAT'S DONE WITH USING THESE CELLS
17	FOR OTHER TYPES OF RESEARCH?
18	YOU CAN TAKE THESE CELLS AND PUT OTHER
19	GENES INTO THEM IN THE LAB WITHOUT GOING THROUGH THE
20	DETAILED OVERSIGHT THAT IS REQUIRED FOR GAMETES
21	UNDER OUR REQUIREMENTS. AND SO SCIENTISTS IN THE
22	LAB ARE SAYING, WELL, WHAT'S SO DIFFERENT ABOUT
23	THESE TWO OR THREE GENES I'M INSERTING THAT MAKE IT
24	DIFFERENT FROM OTHER WORK THAT IS GOING ON IN THE
25	LAB NEXT DOOR WHERE I DON'T NEED TO GET SUCH

1	ELABORATE CONSENT?
2	DR. LOMAX: COULD I JUST MAKE ONE
3	CLARIFICATION THERE, BERNIE, JUST BECAUSE THERE WERE
4	ACTUALLY TWO ISSUES THERE. I APOLOGIZE FOR BEING SO
5	DETAIL ORIENTED, BUT THAT'S MY JOB.
6	WE DID IN TERMS OF THE ANONYMOUS LINES, IF
7	YOU WILL RECALL, LINES THAT HAVE BEEN ANONYMIZED WE
8	DID ACTUALLY APPROVE FOR USE IF THEY MET THE FEDERAL
9	STANDARD. THAT WAS IN A MEMO WE DID BACK IN 2007.
10	THIS PARTICULAR EXAMPLE, WHAT'S CAUGHT
11	UP AND THE EXAMPLE GIVEN WITH THE HIV PATIENTS,
12	THE SAMPLES ARE ACTUALLY NOT ANONYMOUS. THAT'S A
13	CRITICAL POINT. SO WE ARE DEALING WITH A
14	CONCEPTUALLY WE HAVE MOVED THE ANONYMOUS CELL ISSUE.
15	THIS WOULD BE A CASE WHERE THEY'RE CONSENTED
16	MATERIALS, BUT THERE MAY BE IN THIS CASE THERE'S
17	MEDICAL HISTORY ATTACHED, WHICH IS VERY IMPORTANT
18	FOR THE RESEARCH. SO WE ARE DEALING WITH A SLIGHTLY
19	DIFFERENT EXAMPLE HERE. I JUST DIDN'T WANT THOSE
20	TWO ISSUES
21	CHAIRMAN LO: ABSOLUTELY. BUT IT'S
22	CONSENT FOR GENERAL RESEARCH, NOT CONSENT
23	SPECIFICALLY TO DERIVE IPS LINES THAT WOULD BE USED
24	TO CHARACTERIZE THEM IN BASIC LABORATORY RESEARCH.
25	SO WE'RE SAYING THAT FOR WORK THAT'S INSERTING
	2.4

1	GENES, CHARACTERIZING CELLS, INJECTING THEM IN
2	ANIMALS TO SHOW THAT THEY FUNCTION PROPERLY AS
3	PLURIPOTENT CELLS, THOSE ARE ALL THINGS THAT WE
4	WOULD SUGGEST BE DONE UNDER BE PERMITTED UNDER A
5	GENERAL CONSENT. WE WOULD DRAW THE LINE AT OTHER
6	TYPES OF MORE SENSITIVE DOWNSTREAM RESEARCH.
7	TED PETERS HAD A COMMENT AND THEN SOMEONE
8	ELSE ON THE PHONE AS WELL. WHY DON'T WE TAKE TED
9	FIRST. I'M SORRY. WHO JUST SPOKE? I CAN'T
10	RECOGNIZE YOUR VOICE.
11	MR. SHEEHY: JEFF SHEEHY. I'M A LITTLE
12	SCRATCHY TODAY.
13	CHAIRMAN LO: I HOPE YOU'RE FEELING
14	BETTER, JEFF. LET'S DO TED FIRST AND THEN TURN TO
15	JEFF.
16	DR. PETERS: WOULD ONE IMPLICATION,
17	BERNIE, BE IF WE SEPARATE OUT THE SOMATIC CELLS FROM
18	THE MORE ETHICALLY SENSITIVE EMBRYOS AND GAMETES,
19	ARE WE INDIRECTLY, THEN, ENCOURAGING IPS AND OTHER
20	FORMS OF RESEARCH BY PUTTING FEWER HURDLES IN THE
21	WAY OF THOSE RESEARCHERS? IS THAT PART OF THE
22	MOTIVE FOR THIS SEGREGATION?
23	CHAIRMAN LO: I'M NOT SURE IT'S PART OF A
24	MOTIVE, BUT IT MAY WELL HAVE THAT EFFECT. IT'S
25	ACTUALLY HAVING THAT EFFECT ON SCIENTISTS. ALAN,

1	CORRECT ME IF I'M WRONG, BUT SCIENTISTS ARE SAYING,
2	LOOK, I CAN DO THIS. IT'S A LOT EASIER TO DO IN THE
3	LABORATORY, AND THESE CELLS HAVE PROPERTIES THAT ARE
4	VERY VALUABLE TO UNDERSTANDING DISEASE. I THINK THE
5	IMPETUS ISN'T COMING FROM US. IT'S COMING FROM THE
6	SCIENTISTS WHO SAY THESE ARE REALLY EXCITING TYPES
7	OF RESEARCH THAT CAN BE DONE. AND PLEASE DON'T HOLD
8	IT UP IN WAYS THAT DON'T REALLY PROTECT DONORS OR
9	PROTECT OTHER VALUES THAT ARE IMPORTANT.
10	PROFESSOR ROBERTS: CAN I JUST ASK A
11	QUESTION ABOUT THE QUESTION?
12	CHAIRMAN LO: ABSOLUTELY.
13	PROFESSOR ROBERTS: BECAUSE EVEN THOUGH
14	THE IMPETUS IS COMING FROM THE RESEARCHERS, WE
15	MIGHT, IN CONSIDERING THIS, THINK, WELL, IF THERE
16	ARE FEWER HURDLES FOR RESEARCH ON SOMATIC CELLS THAT
17	MAY HAVE AN IMPACT ON THE DEMAND FOR GAMETES, IS
18	THAT I THOUGHT MAYBE THAT WAS PART OF THE THOUGHT
19	BEHIND THE QUESTION, AT LEAST IT WAS A THOUGHT I HAD
20	IN LOOKING.
21	CHAIRMAN LO: I'M GOING TO DEFER TO ALAN
22	TO SPEAK ON THE SCIENTIFIC ISSUES.
23	DR. TROUNSON: I DIDN'T REALLY UNDERSTAND
24	THAT, AND I APOLOGIZE FOR THAT. THE IPS CELLS
25	THEMSELVES DON'T REALLY INVOLVE ANY GAMETES.

1	PROFESSOR ROBERTS: RIGHT. SO I'M SAYING
2	IF THERE WERE MORE OF THOSE ARE THESE TWO
3	COMPLETELY SEPARATE SOURCES FOR CELLS, OR MIGHT
4	THERE BE SOME RELATIONSHIP BETWEEN THE SUPPLY OF
5	EACH ONE?
6	DR. TROUNSON: I DON'T THINK SO EXCEPT
7	WHERE MAYBE THE SCIENTISTS MIGHT BELIEVE THAT IT'S
8	MORE PRUDENT AND MORE WORTHWHILE TO STUDY IPS CELLS
9	RATHER THAN EMBRYONIC STEM CELLS OR, FOR EXAMPLE,
10	PERHAPS CLOSER RELATIONSHIP MIGHT BE RATHER THAN
11	DOING NUCLEAR TRANSFER, THE SCNT PROCEDURE, TO
12	DERIVE PATIENT-SPECIFIC EMBRYONIC STEM CELLS. THERE
13	MAY WELL BE A SHIFT IN THE INTEREST OF SCIENTISTS TO
14	WORK WITH IPS CELLS RATHER THAN NUCLEAR TRANSFER
15	PROCEDURE.
16	THAT WOULD HAVE A KNOCK-ON EFFECT OF NOT
17	REALLY MAKING OF BASICALLY SAYING THAT THERE'S
18	LESS INTEREST IN DERIVING NUCLEAR TRANSFER CELLS
19	AND, HENCE, OBTAINING OOCYTES FOR THAT PURPOSE.
20	PROFESSOR ROBERTS: THAT WAS MY THOUGHT.
21	DR. TROUNSON: I THINK THAT IS PROBABLY
22	WHAT IS CURRENTLY GOING ON, ALTHOUGH THERE'S STILL
23	MANY LABORATORIES THAT ARE COMMITTED TO NUCLEAR
24	TRANSFER, AND THERE'S MANY SCIENTISTS WHO REMAIN
25	VERY MUCH SUPPORTIVE OF THAT AREA.
	27
24 25	

1	JOSE CIBELLI, MANY SCIENTISTS OUT THERE
2	HAVE VERY STRONG INTEREST IN THIS AREA. SO, YOU
3	KNOW, I THINK WHILE IT'S PROBABLY TRUE FOR THE
4	VOLUME OF RESEARCH, I THINK THERE ARE MANY
5	LABORATORIES THAT STILL REMAIN INTERESTED IN THE
6	SOMATIC CELL NUCLEAR TRANSFER.
7	CHAIRMAN LO: JEFF SHEEHY, I KNOW YOU
8	WANTED TO MAKE A COMMENT.
9	MR. SHEEHY: I HAD A QUESTION. I THINK
10	THIS IS PROBABLY A GENERIC QUESTION FOR EVERY ISSUE,
11	FRANKLY, GOING FORWARD. GIVEN THE RECENT ELECTION,
12	I FEEL LIKE THAT WE FUNDAMENTALLY HAVE CHANGED IN
13	TERMS OF PERSPECTIVE IN OUR REGULATIONS, IN OUR
14	REGULATORY OUTLOOK IN THAT WE'RE NO LONGER KIND OF
15	OFF ON AN ISLAND CREATING RULES BY OURSELVES WITH
16	SOME GUIDANCE FROM THE NATIONAL ACADEMIES, BUT WE'RE
17	REALLY IN A POSITION WITH THE FEDERAL GOVERNMENT
18	COMING INTO THIS SPACE.
19	HOW DOES THIS CONTEXTUALIZE WITHIN I'M
20	NOT VERY ARTICULATE TODAY BECAUSE I'M SUFFERING FROM
21	THIS HEAD COLD.
22	I'M TRYING TO GET A SENSE OF THE NATIONAL
23	CONTEXT. ARE WE MERGING TOWARD A NATIONAL STANDARD
24	IF WE CHANGE THIS? ARE WE GETTING AHEAD OF A
25	NATIONAL? ARE WE STRICTER? ARE WE LAXER?
	28
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1	IT SEEMS TO ME OUR GOAL OUGHT TO BE TO TRY
2	TO BLEND IN WITH WHAT WILL BE EVENTUALLY A
3	REGULATORY CONTEXT THAT'S GOING TO BE NATIONAL AND
4	DIRECTED MORE FROM WASHINGTON. AND I THINK SOME OF
5	THE ONUS ON US IS GOING TO BE RELIEVED WITHIN THE
6	NEXT SIX MONTHS TO A YEAR. I MAY BE WRONG IN THAT
7	ASSESSMENT.
8	MS. LANSING: CAN I ADD TO WHAT JEFF IS
9	SAYING? THIS IS SHERRY.
10	CHAIRMAN LO: PLEASE.
11	MS. LANSING: I THINK, UNLESS WE'RE
12	READING THE OBAMA ADMINISTRATION WRONG, THERE'S
13	GOING TO BE A CHANGE IN POLICY. SO I DON'T WANT US
14	JUST TO BLEND IN. I WANT US TO SENSE WHAT IT IS
15	AND, IF NECESSARY, TO LEAD BECAUSE I'M NOT SURE THEY
16	KNOW WHAT THEY'RE GOING TO BE DOING YET. SO I DON'T
17	WANT US TO GET TOO FAR AHEAD OF THE CURVE, BUT THE
18	QUESTION IS DO WE HAVE ANY INDICATION OF WHAT
19	THEY'RE GOING TO DO, IF THERE'S A PROBLEM WITH WHAT
20	THEY'RE GOING DO. CAN WE BE EFFECTIVE IN TRYING TO
21	ADVOCATE AS WELL?
22	CHAIRMAN LO: WELL, LET ME TRY AND ANSWER
23	THAT. IT'S ALWAYS A DIFFICULT THING TO SORT OF
24	PREDICT THE FUTURE.
25	MS. LANSING: EXACTLY.
	20

1	CHAIRMAN LO: VERY MANY PEOPLE HAVE HOPES
2	ON WHAT THE NEW ADMINISTRATION WILL DO, AND IT
3	REMAINS TO BE SEEN. TOM DASCHLE WAS JUST APPOINTED
4	SECRETARY OF HHS. THE NEW NIH DIRECTOR HAS YET TO
5	BE APPOINTED. SO THERE'S QUESTIONS. I KNOW ALTA
6	CHARO IS ACTUALLY INVOLVED IN THE TRANSITION TEAM
7	EFFORTS.
8	LET ME SAY, THOUGH, OBAMA, DURING THE
9	CAMPAIGN, PROMISED THAT HE WOULD ALLOW NIH FUNDING
10	FOR DERIVATION OF NEW STEM CELL LINES FROM FROZEN
11	OOCYTES THAT WOULD OTHERWISE BE DESTROYED. SO IT'S
12	A LOOSENING OF THE BUSH STRICTURE. NOW, THAT'S JUST
13	NIH FUNDING.
14	NOW, WHETHER THE AMOUNT AND THE BUDGET FOR
15	THAT AND HOW THAT WILL GO THROUGH REMAINS TO BE
16	SEEN, IF HE DOES IT. THAT CAN BE DONE BY EXECUTIVE
17	ORDER.
18	TO ISSUE REGULATIONS THROUGH HHS IS
19	ACTUALLY QUITE A LENGTHY PROCESS AND WOULD NOT
20	HAPPEN SOON. SO I THINK THAT EVEN IF THEY WANTED TO
21	DO CHANGES, IT WOULD REQUIRE A MUCH LENGTHIER
22	PROCESS THAN WE COULD PERHAPS DO ON SOME OF THESE
23	ISSUES.
24	SO I THINK THAT IT PROBABLY WOULD BE
25	IMPORTANT FOR US TO ACT, CERTAINLY TO TRY AND BE
	30
	. JV

ABREAST OF WHAT'S LIKELY TO HAPPEN; BUT, AGAIN, ALAN
AND HIS STAFF ARE GOING TO BE REVIEWING GRANTS,
ASKING FOR FUNDING IN THE NEXT CYCLE. WE HAVE TO
MAKE SURE THAT THE REGULATIONS IN PLACE ARE
APPROPRIATE FOR THE TYPES OF RESEARCH THAT THEY'RE
ASKING FOR AND APPLICATIONS THAT THEY'RE RECEIVING.
SO I THINK WE NEED TO BE COORDINATED, BUT I DON'T
THINK WE CAN WAIT UNTIL
MS. LANSING: I GOT IT. THANK YOU,
BERNIE. THAT REALLY CLARIFIES IT.
CHAIRMAN LO: DOES THAT HELP, JEFF?
MR. SHEEHY: YES, IT DOES.
MS. LANSING: IT REALLY DOES. IT
CLARIFIES IT A LOT.
MR. SHEEHY: I LIKE THE TERM
"COORDINATED." I THINK IT GIVES ME A GOOD SENSE OF
HOW WE'RE GOING TO PROCEED.
CHAIRMAN LO: I THINK WE WOULD CERTAINLY
TAKE IT ON OURSELVES TO SORT OF MAKE CONTACT WITH
THE POINT PERSON. I'M NOT SURE IT WOULD BE IN THE
NEW ADMINISTRATION OR AT NIH BECAUSE NIH WOULD NOT
BE REDOING THE REGULATIONS. THAT WOULD BE SOMEPLACE
ELSE IN HHS. SO THERE'S GOING TO BE NOW, WHAT
FDA MAY DO MAY ALSO CHANGE AS WELL.
DR. PRIETO: I JUST QUESTION WHETHER

1	ANYONE HAS MADE CONTACT WITH ALTA TO TALK TO HER
2	ABOUT THESE ISSUES.
3	CHAIRMAN LO: WE'VE TRIED. ALTA IS IN
4	OVER HER, WHATEVER, EARS, THE TOP OF HER HEAD
5	WORKING ON TRYING TO FILL SLOTS. SO I THINK WE
6	YOU KNOW, THEY'RE DEALING WITH CABINET OFFICIALS
7	NOW. WE'RE TALKING ABOUT PEOPLE SEVERAL LAYERS
8	BELOW. THIS WILL TAKE SOME TIME TO SORT OUT.
9	DR. TROUNSON: BERNIE, I THINK IN THE
10	FIRST INSTANCE, I WILL REFER TO THE NATIONAL
11	ACADEMIES GUIDELINES ALMOST CERTAINLY, YOU KNOW, TO
12	PROVIDE THEM WITH INSTRUCTION ABOUT HOW THEY WOULD
13	DEVELOP ANY OTHER FURTHER REGULATION. AND THAT'S
14	WHAT WE'VE BEEN CONNECTED TO.
15	I THINK WHAT PEOPLE HAVEN'T DONE IS REALLY
16	THOUGHT TOO FAR INTO THIS IPS CELL AREA. AND I
17	THINK THE PROPOSAL THAT'S ON THE TABLE IS IMPORTANT.
18	IT'S ALSO IMPORTANT TO CONSIDER THE CONTEXT OF THE
19	RESEARCH, THAT WE NEED TO BE CAREFUL HERE BECAUSE IT
20	IS CERTAINLY POSSIBLE IN THEORY TO BE ABLE TO DERIVE
21	GAMETES AND POSSIBLY EMBRYOS FROM IPS CELLS.
22	SO IN THAT CONTEXT, I THINK WE NEED TO PUT
23	A DOT MARK OVER THE RESEARCH CONTEXT AND BRING THAT
24	BACK INTO OUR MAINFRAME IN ORDER TO COMPLETE THE
25	CIRCLE.

1	CHAIRMAN LO: ABSOLUTELY. I WANT TO JUST
2	UNDERSCORE THE POINT ALAN JUST MADE ABOUT WE'RE
3	TALKING ABOUT, IN GEOFF'S NO. 2, THE FIRST STEP IN
4	OBTAINING SOMATIC CELLS FOR DERIVATION OF IPS LINES
5	AND DOING BASIC LABORATORY WORK. THERE IS
6	DOWNSTREAM RESEARCH THAT STARTS TO GET SENSITIVE;
7	NAMELY, IF THESE ARE TRULY PLURIPOTENT CELLS, THESE
8	IPS CELLS, IT MAY BE POSSIBLE TO TRANSFORM THEM INTO
9	GAMETES, OOCYTES AND SPERM, OKAY, AND WITH THOSE
10	GAMETES TO CREATE AN EMBRYO.
11	NOW, THAT WE'RE NOT SAYING SHOULD BE
12	ALLOWED UNDER A GENERAL RESEARCH CONCERN. ALAN VERY
13	APPROPRIATELY POINTED OUT THERE'S A LINE THERE WE'RE
14	TRYING TO DRAW, BUT WE'RE TALKING ABOUT THE SORT OF
15	UPSTREAM WHAT I WOULD CALL FUNDAMENTAL BASIC LAB
16	RESEARCH TO SORT OF REPROGRAM A SOMATIC CELL TO A
17	PLURIPOTENT CELL AND DEMONSTRATE PLURIPOTENTIALITY
18	AND SORT OF DRIVE THEM INTO BETA ISLET CELLS, NEURAL
19	CELLS, WHICH ARE THE FOCUS OF MANY OF THESE DISEASE
20	TEAMS THAT CIRM IS SETTING UP.
21	I ALSO WANT TO JUST CLARIFY ANOTHER
22	COMMENT ALAN MADE. NAS, NATIONAL ACADEMY OF
23	SCIENCES, AGAIN WILL PLAY A ROLE. THEY HAVE AN
24	ONGOING COMMITTEE, AND THEY PRESUMABLY WILL MAKE
25	ANOTHER REPORT IN 2009. AGAIN, MUCH AS I LOVE NAS
	22

1	AND I'M ON THE COUNCIL ON IOM, THEY HAVE A PEER
2	REVIEW CONSENSUS PROCESS, SO ANY REPORT THEY MAKE
3	GOES THROUGH A VERY LONG PROCESS. AND, AGAIN,
4	THEY'RE NOT AS NIMBLE OR FLEXIBLE AS PERHAPS WE
5	MIGHT BE.
6	SO I THINK, AGAIN, WE NEED TO BE MINDFUL
7	OF WHAT ALL THESE PEOPLE ARE DOING, SORT OF BE
8	COORDINATED AND HOPEFULLY IN HARMONY WITH THEM. BUT
9	THEY HAVE ACTUALLY LOOKED TO US, I THINK I CAN SAY
10	THIS IN ALL MODESTY, TO SORT OF SET THE LEAD. IF
11	YOU LOOK AT, FOR INSTANCE, THE HIGH STANDARDS FOR
12	CONSENT FOR OOCYTE DONATION FOR DERIVATION OF
13	EMBRYONIC STEM CELL LINES, THAT WAS REALLY TAKEN
14	AFTER IDEAS THAT CAME OUT OF CALIFORNIA.
15	ANY OTHER QUESTIONS? I DON'T KNOW IF
16	THERE'S ANYONE ELSE ON THE PHONE WHO HAD A COMMENT
17	ABOUT SORT OF THE IPS VERSUS EMBRYONIC STEM CELLS.
18	DR. TAYLOR: I JUST WANTED TO KIND OF
19	REITERATE A COUPLE OF THE POINTS THAT CAME UP AND TO
20	AGAIN TRY TO PUT THIS IN PERSPECTIVE. SO I REALLY
21	APPRECIATE GEOFF'S KIND OF CLARIFYING THE ANONYMIZED
22	DIFFERENCE HERE BECAUSE, TO BE HONEST, REALLY THE
23	POWER OF THE IPS SYSTEM IS NOT ANONYMIZED. THE
24	ADVANTAGE THERE IS TO REALLY TAKE THE
25	DISEASE-SPECIFIC OR SPECIFIC CHARACTERISTICS OF THE

6	AND THE OTHER PART IS REALLY, AND I'M
7	ACTUALLY IN FAVOR OF THIS, BUT I DO THINK THAT IN
8	THE CONTEXT OF WHAT WE'RE SUGGESTING, IF YOU CAN USE
9	ARCHIVED CELLS THAT WERE COLLECTED ON A GENERAL
10	CONSENT, AND WE ACTUALLY ARE USING A LOWER LEVEL
11	ETHICAL STRINGENCY THAN WE DO FOR KIND OF
12	STRAIGHTFORWARD DNA STUDIES NOW WHERE WE REQUIRE
13	MUCH MORE CLARITY ABOUT WHAT THE INDIVIDUALS
14	CONSENTED FOR. SO GIVEN SOME OF THE SENSITIVITIES
15	ABOUT WHERE THESE CELLS COULD POTENTIALLY GO, I JUST
16	THINK WE MIGHT WANT TO BE A LITTLE BIT CAREFUL ABOUT
17	SETTING A STANDARD THAT'S ACTUALLY LOWER THAN THAT
18	FOR SNP ANALYSIS.
19	CHAIRMAN LO: LET ME SORT OF TRY AND
20	FOLLOW UP ON THAT TWO WAYS. FIRST, I THINK
21	ANONYMIZED DOESN'T MEAN YOU CAN'T HAVE VERY RICH
22	CLINICAL INFORMATION ABOUT THE PHENOTYPIC CLINICAL
23	INFORMATION ABOUT THE PERSON FROM WHOM THE CELLS
24	CAME.
25	DR. TAYLOR: GOING FORWARD, I THINK THAT'S
	25
	35

1	TRUE. RETROSPECTIVELY I WOULD QUESTION THAT.
2	CHAIRMAN LO: WELL, REMEMBER, THE WAY, FOR
3	EXAMPLE, CANCER CENTERS WORK AND PATHOLOGY
4	DEPARTMENTS IS THAT THE UNIVERSITY OR THE PATHOLOGY
5	LAB HAS IDENTIFIED CELLS AND ACCESS TO RECORDS.
6	WHAT THEY GIVE TO RESEARCHERS STRIPS OFF THE 19
7	HIPAA IDENTIFIERS, GIVES YOU THE CLINICAL
8	INFORMATION AND THE SAMPLE AND A CODE NUMBER, 001,
9	002. AND GENERALLY THERE'S AN AGREEMENT BETWEEN THE
10	BANK AND THE RESEARCHER THAT THE RESEARCHER DOESN'T
11	GET THE CODE.
12	NOW, THERE ARE ISSUES THAT NEED TO GET
13	WORKED OUT ABOUT IF YOU DISCOVER FOREIGN GENETIC
14	MUTATIONS, BUT I JUST WANT TO EMPHASIZE YOU CAN HAVE
15	RICH PHENOTYPICAL CLINICAL MATERIAL ACCOMPANYING A
16	CELL WITHOUT KNOWING THE IDENTITY OF THE DONOR.
17	SECOND POINT, ROB RAISES A GOOD POINT IN
18	THAT STANDARDS ARE CHANGING FOR CONSENT IN OTHER
19	AREAS. AND CERTAINLY FOR GENOMEWIDE ASSOCIATION
20	STUDIES OR WHOLE GENOME SEQUENCING, NIH, FOR
21	EXAMPLE, IS VERY CONCERNED NOW ABOUT WHAT KIND OF
22	CONSENT DO YOU NEED FOR THESE TYPES OF TECHNIQUES.
23	CURRENTLY IT IS STILL THE REGULATION THAT YOU MAY DO
24	THIS UNDER GENERAL CONSENT TO RESEARCH.
25	NOW, PEOPLE HAVE SAID A BEST PRACTICE

1	WOULD BE TO HAVE HIGHER STANDARDS. AGAIN, I THINK
2	ONE OF THE THINGS WE'RE SAYING IS THAT IF ALL YOU
3	ARE GOING TO DO IN THE INITIAL DERIVATION OF IPS
4	CELLS IS EITHER INSERT THREE GENES OR ACTUALLY NOW
5	TO TRY AND FIND TRANSCRIPTION FACTORS THAT DON'T
6	INVOLVE GENETIC MANIPULATIONS OF SOMATIC CELLS,
7	THAT'S NOT IN THE ARGUMENT AT LEAST OF MANY
8	RESEARCHERS VERY DIFFERENT FROM WHAT PEOPLE DO NOW
9	ALL THE TIME IN LABORATORIES FOR PURPOSES OTHER THAN
10	STEM CELL DERIVATION.
11	AND SO THEY'RE SAYING EVEN THOUGH THEY END
12	UP WITH A PLURIPOTENT CELL, THE TYPES OF THINGS
13	YOU'RE DOING DON'T DIFFER IN KIND. SO THAT'S, I
14	THINK, ROB, YOU SORT OF PUT YOUR FINGER ON AN
15	IMPORTANT ISSUE.
16	WHAT KIND OF CONSENT WOULD WE BE
17	COMFORTABLE WITH FOR THOSE INITIAL STAGES OF
18	OBTAINING THE SAMPLE OF THE SOMATIC CELL SAMPLE AND
19	DOING THE BASIC FUNDAMENTAL LABORATORY WORK?
20	PROFESSOR ROBERTS: I HAVE SOME QUESTIONS
21	TO FOLLOW UP ON THAT. JUST FOLLOWING UP ON THAT
22	ISSUE OF CONSENT, ARE WE GOING TO MAKE A DISTINCTION
23	BETWEEN THE CELLS THAT ALREADY EXIST IN BLOOD BANKS
24	OR WHEREVER AND THOSE THAT ARE COLLECTED
25	PROSPECTIVELY? BECAUSE A LOT OF THIS DEBATE OR THE

1	ARGUMENT TO HAVE A DIFFERENT STANDARD FOR SOMATIC
2	CELLS IS THAT ALL THESE SAMPLES ALREADY EXIST AND
3	CAN'T BE USED FOR STEM CELL RESEARCH.
4	BUT THEN THERE'S A SEPARATE ISSUE, IT
5	SEEMS, WITH, OKAY, NOW, PROSPECTIVELY WILL IT BE
6	TREATED THE SAME WAY AS WHERE THERE ISN'T THIS
7	PROBLEM OF NOT BEING ABLE TO USE WHAT ALREADY
8	EXISTS? BECAUSE, OF COURSE, SINCE THE CONSENTS
9	THERE WAS JUST GENERAL CONSENT TAKEN FOR THE SAMPLES
10	THAT ALREADY EXIST. THERE'S NOTHING YOU CAN DO
11	ABOUT CONSENT, BUT PROSPECTIVELY THERE COULD BE A
12	DIFFERENT CONSENT STANDARD FOR THESE NONEMBRYONIC
13	SAMPLES.
14	SO ARE WE JUST TALKING ABOUT EXISTING
15	SAMPLES OR PROSPECTIVE ONES?
16	CHAIRMAN LO: DOROTHY, THAT'S AN EXCELLENT
17	POINT AND SUGGESTION. IN FACT, AT UCSF WHAT WE'VE
18	DONE IS MADE THAT DISTINCTION AND SAID THAT IF YOU
19	ARE GOING TO COLLECT FRESH MATERIALS STARTING FROM
20	SEVERAL MONTHS AGO, THAT WE WOULD REQUIRE YOU TO ASK
21	FOR CONSENT FOR DERIVATION OF SOMATIC FOR THE IPS
22	LINE. SO IF YOU'RE COLLECTING FRESH MATERIALS, I
23	THINK GENERALLY THE STANDARD IS YOU HAVE TO EXPLAIN
24	WHAT YOU ARE DOING, HAVE IN MIND TO DO, AND THEN YOU
25	MAY ALSO ASK FOR PERMISSION TO USE IT FOR OTHER
	20

1	TYPES OF RESEARCH WITH LEFT-OVER SPECIMENS. THAT'S
2	AN IMPORTANT AND VALUABLE DISTINCTION THAT'S BEEN
3	MADE IN OTHER CONTEXT.
4	PROFESSOR ROBERTS: WELL, I THINK IF THERE
5	ARE CONCERNS ABOUT THE CONSENT BEING ADEQUATE, I
6	THINK THAT'S A DISTINCTION THAT MAYBE WE SHOULD MAKE
7	BECAUSE THAT WOULD OBVIOUSLY ALLOW US TO THINK MORE
8	CAREFULLY ABOUT CONSENT PROSPECTIVELY.
9	ANOTHER, THIS IS ALSO RELATED, IS WHILE
10	THERE MAY NOT BE SO MUCH CONCERN ABOUT THIS BASIC
11	RESEARCH AND JUST USING THE GENERAL CONSENT FOR
12	THAT, AS SOMEONE JUST POINTED OUT, I CAN'T REMEMBER
13	IF IT WAS BERNIE OR GEOFF, THERE ARE THESE LATER
14	POTENTIAL USES THAT I THINK WE AND ALSO THE DONORS
15	MIGHT BE MORE CONCERNED ABOUT WITH CREATING EMBRYOS.
16	AND EVEN THOUGH WE COULD SAY THAT THIS SOMATIC CELL
17	RESEARCH IS QUALITATIVELY DIFFERENT FROM USING
18	GAMETES, SO WE MAKE A DISTINCTION BETWEEN THE TWO,
19	IF THERE'S A POTENTIAL TO CREATE EMBRYOS, SOME OF
20	THE DISTINCTION, I THINK, DISAPPEARS. AND I THINK,
21	YOU KNOW, IF I WERE A DONOR, I WOULD WANT TO KNOW
22	ABOUT THOSE POTENTIAL OR PROBLEMATIC USES OF MY
23	MATERIAL.
24	AND SO, FIRST, I WONDER IF THE POTENTIAL
25	FOR THAT SHOULD SOMEHOW BE TAKEN INTO ACCOUNT BOTH
	20

T	IN CONSENT, BUT ALSO IN THE SCOPE OF THE REVIEW. I
2	JUST WASN'T CLEAR IN WHAT WOULD TRIGGER THE FULL
3	REVIEW. IN THE MATERIALS WE GOT, IT SAID THAT
4	TRANSFER TO HUMANS OR ANIMALS WOULD STILL REQUIRE
5	FULL REVIEW. BUT ARE THOSE THE ONLY WOULD THAT
6	ALSO COVER CREATION OF EMBRYOS FROM THE IPS
7	RESEARCH?
8	CHAIRMAN LO: LET ME JUST TRY AND RESPOND
9	TO DOROTHY, AND THEN TED PETERS WANTS TO COMMENT AS
10	WELL. DOROTHY, I THINK, HAS RAISED SOME VERY
11	IMPORTANT POINTS. LET ME TRY AND REFRAME THEM A
12	BIT.
13	PROFESSOR ROBERTS: YES, PLEASE. I'M SURE
14	YOU CAN DO IT BETTER THAN I CAN.
15	CHAIRMAN LO: THERE ARE SOME TYPES OF
16	RESEARCH USING IPS CELLS DERIVED FROM SOMATIC CELLS,
17	DOWNSTREAM RESEARCH, THAT I THINK IS MORE SENSITIVE
18	AND ARGUABLY WOULD REQUIRE HIGHER, STRICTER, MORE
19	ROBUST CONSENT AND STRICTER OVERSIGHT. AND ON THE
20	THIRD SLIDE AND DOROTHY ASKED THE QUESTION, SO IF
21	WE'RE SAYING THAT THERE'S STEM CELL RESEARCH
22	INVOLVING OOCYTES AND EMBRYOS, THERE'S IPS RESEARCH,
23	THEN THERE'S SOME IPS RESEARCH THAT IS A LITTLE MORE
24	SENSITIVE. A NUMBER OF TYPES OF RESEARCH MIGHT WELL
25	FALL IN THAT CATEGORY.

1	ONE IS DOWNSTREAM RESEARCH FROM
2	PLURIPOTENT IPS CELLS THAT DERIVES GAMETES AND
3	PARTICULARLY EMBRYOS. REMEMBER THE SHARP LINE THAT
4	HAS BEEN DRAWN BY CERTAINLY OPPONENTS OF EMBRYONIC
5	STEM CELL RESEARCH IS THAT IN THEIR VIEW, MANY OF
6	THEM, HUMAN LIFE, QUOTE, BEGINS AT CONCEPTION,
7	UNQUOTE, WHICH IS FERTILIZATION. SO THE EMBRYO IS
8	GIVEN EVEN MORE MORAL SIGNIFICANCE IN THEIR VIEW
9	THAN OOCYTES. SO THAT KIND OF RESEARCH,
10	REPRODUCTIVE RESEARCH.
11	SECOND COULD WELL BE TRANSPLANTATION INTO
12	ANOTHER HUMAN BEING NOT THE ORIGINAL SOMATIC CELL
13	DONOR. WE CAN PERHAPS TALK ABOUT THAT.
14	AND THIRD DOROTHY POINTED OUT IS
15	NONCLINICAL RESEARCH INVOLVING THE TRANSPLANTATION
16	OF STEM CELLS OR DIRECT STEM CELL DERIVATIVES INTO
17	ANIMALS, PARTICULARLY YOU'RE DOING NEUROLOGICAL
18	NEUROPRECURSOR CELLS, HUMAN PRECURSORS. SO THERE
19	ARE CERTAIN TYPES OF RESEARCH THAT MIGHT, AS DOROTHY
20	POINTED OUT, BOTH REQUIRE EXPANDED CONSENT AND
21	STRICTER OVERSIGHT.
22	AND ON SLIDE 3 ON THE SECOND PAGE OF YOUR
23	PDF, WE'VE SORT OF SUGGESTED THAT THOSE BE SUBJECT
24	TO STRICTER OVERSIGHT. SO THAT THE GRAPH YOU SAW ON
25	SLIDE 2 IS SORT OF THE GENERAL CASE, BUT THEN WE
	4.7

1	HAVE THESE SPECIAL SITUATIONS OF STRICTER OVERSIGHT
2	AND MORE ROBUST CONSENT.
3	GEOFF, IS THAT A FAIR SUMMARY OF JUST SORT
4	OF NOT THE DETAILS AGAIN, BUT THE BIG PICTURE OF HOW
5	WE'RE IN A SENSE SAYING THAT A LOT OF IPS RESEARCH
6	WITH SOMATIC CELLS DOESN'T REQUIRE THE SAME LEVEL OF
7	EITHER CONSENT OR OVERSIGHT, BUT SOME TYPES OF WORK
8	YOU MAY DO WITH THOSE CELLS HAS TO REQUIRE MORE
9	SPECIFIC CONSENT AND GET FULL SCRO REVIEW OR IRB
10	REVIEW?
11	DR. LOMAX: THAT'S RIGHT. I THINK IN
12	TERMS OF WHAT WOULD CHANGE HERE AS ANOTHER WAY OF
13	LOOKING AT IT, THE ONLY THING WORTH RECOMMENDING A
14	CHANGE ON WOULD BE THE CONDITIONS IN WHICH THE WHAT
15	WE'RE CALLING OUR IN VITRO STANDARD, THE CONDITION
16	IN WHICH MATERIALS COULD BE USED FOR IN VITRO
17	RESEARCH, WHICH, IF YOU REMEMBER IN THE REGULATIONS,
18	WE HAVE THESE CATEGORIES OF THINGS, USE OF OOCYTES,
19	USE OF EMBRYOS, WORK TO DERIVE STEM CELL LINES, IN
20	VITRO RESEARCH. WE'RE TRYING TO CREATE A CARVE-OUT
21	TO BE MORE FLEXIBLE ON THE IN VITRO SIDE WITHOUT
22	IMPACTING EITHER WORK THAT INTENDS TO CREATE AN
23	EMBRYO, INTENDS TO DERIVE GAMETES, AND THAT'S
24	ENTIRELY CONSISTENT WITH THE NATIONAL ACADEMY.
25	I WISH WE COULD HAVE ACTUALLY WHAT WILL

Т	HAPPEN IS, REMEMBER THE STAGE OF THIS PROCESS IS WE
2	THEN HAVE TO PROPOSE FURTHER LANGUAGE WHICH WOULD BE
3	SUBJECT TO A VERY EXTENSIVE REVIEW. WE HAVE A SORT
4	OF SECOND STEP HERE WHERE WE COULD SORT OF COMMENT
5	ON THE ACTUAL LANGUAGE. CLEARLY THAT WAS THE
6	INTENT.
7	ONE OTHER THING THAT DID COME UP, BECAUSE
8	THIS CAME OUT IN THE BACKGROUND RESEARCH, AND IT'S
9	REALLY TRYING TO BE RESPONSIVE TO PROFESSOR ROBERTS'
10	FIRST POINT, IS THAT WHILE IT'S ON THE CONSENT, THE
11	PROSPECTIVE CONSENT, WHICH IS THE WAY IT WAS
12	PRESENTED BY A NUMBER OF INSTITUTIONS, WAS WHILE
13	WE'D LIKE TO BELIEVE EVERYONE IS MOVING FORWARD WITH
14	KEEN SENSITIVITY TO THE EXACT DETAILS OF WHAT CIRM
15	WOULD LIKE TO SEE, THERE ARE A NUMBER OF ESTABLISHED
16	BANKS FOR ANY NUMBER OF DISEASES, CANCER, HIV, THAT
17	THESE ARE LONG ESTABLISHED BANKS THAT HAVE BEEN
18	COLLECTING MATERIALS. AND THEY FEEL THEY HAVE A
19	SORT OF ROBUST CONSENT PROCESS. THEY HAVE THE
20	ABILITY TO RECONTACT A NUMBER OF DONORS, BUT IT'S
21	JUST NOT FEASIBLE TO INCORPORATE EVERY SPECIFIC THAT
22	WE INCORPORATE INTO OUR CONSENT.
23	BECAUSE I RAISED THAT POINT, WHAT ABOUT
24	PROSPECTIVELY COULDN'T YOU DO THIS. IT'S JUST THE
25	IDEA THAT STEM CELL RESEARCH IS SORT OF ONE CATEGORY

1	OF RESEARCH AMONG AN ARRAY OF RESEARCH. AND TRYING
2	TO GET EVERYONE TO ADOPT OUR STANDARD IS, THEY FELT,
3	NOT PRACTICAL. SO THAT WAS THE COMMENT. I'LL LEAVE
4	IT TO YOU ALL TO SORT OF JUDGE THE EFFICACY OF THAT,
5	BUT THAT POINT WAS RAISED WITH THE INSTITUTIONS THAT
6	I WAS ABLE TO SURVEY.
7	CHAIRMAN LO: LET ME JUST, AGAIN, WE NEVER
8	GOT TO YOU, TED. LET ME GO TO TED. WHAT I'VE BEEN
9	DOING IS RESPONDING TO PEOPLE, AND POOR TED HAS BEEN
10	PATIENTLY WAITING.
11	DR. PETERS: I'D LIKE TO RESPOND TO
12	DOROTHY AND THE BRIEF REMARK OF FRANCISCO EARLIER
13	ABOUT SEPARATING SOMATIC CELLS FROM EMBRYOS AND
14	GAMETES. WHEN BERNIE OPENED THIS DISCUSSION, HE
15	SAID THAT EMBRYOS AND GAMETES ARE ETHICALLY
16	SENSITIVE AREAS, BUT FOR DIFFERENT REASONS. AND LET
17	ME JUST TRY TO TEASE OUT WHAT I THINK THAT THEY
18	MIGHT BE.
19	IN THE CASE OF THE DESTRUCTION OF HUMAN
20	EMBRYONIC STEM CELLS, WITH THE DESTRUCTION OF THE
21	BLASTOCYST TO OBTAIN THEM, YOU'VE GOT THE VATICAN,
22	YOU'VE THE AMERICAN EVANGELICALS WHO BELIEVE THAT
23	ONCE THE EGG IS FERTILIZED, THAT YOU'RE COMMITTING
24	AN ABORTION WHEN YOU DO THAT. THAT'S WHAT MAKES
25	EMBRYONIC STEM CELL RESEARCH ETHICALLY SENSITIVE.

1	WHEN IT COMES TO GAMETE RETRIEVAL, IT'S
2	THE OOCYTE RETRIEVAL ISSUE. ROMAN CATHOLICS ARE
3	UNCONCERNED ABOUT THE MORAL STATUS OF THE GAMETES.
4	THEY ARE ABOUT THE EMBRYOS, BUT NOT ABOUT THE
5	GAMETES.
6	NOW, WHAT IS ON THE HORIZON WITH IPS AS
7	WELL AS EXPERIMENTS IN PARTHENOGENESIS AND
8	CYTOPLASMIC REPROGRAMMING IS THE POSSIBILITY OF
9	CREATING AN EMBRYO BYPASSING THE GAMETES IN THE
10	FIRST PLACE. SO THE QUESTION WOULD BE IS THAT
11	ETHICALLY SENSITIVE? MY ANSWER IS NO.
12	RECENTLY, WHEN THE IPS EXPERIMENTS WERE
13	ANNOUNCED, RICHARD DORFLINGER, WHO IS A SPOKESPERSON
14	FOR THE NATIONAL CONFERENCE OF ROMAN CATHOLIC
15	BISHOPS, SAID HE SAW NO MORAL DIFFICULTIES IN THIS
16	AT ALL, EVEN WITH THE PROSPECT THAT RESEARCH DOWN
17	THE LINE MIGHT PRODUCE EMBRYOS IN THIS FASHION.
18	NOW, IT'S MY OWN JUDGMENT THAT FATHER
19	DORFLINGER UNDERESTIMATES THE THEOLOGICAL AND
20	ETHICAL SIGNIFICANCE OF WHAT IT IS WE'RE TALKING
21	ABOUT. BUT THE GOOD NEWS FOR US IS THAT I THINK IT
22	MAKES REASONABLE THE PROPOSAL THAT GEOFF AND BERNIE
23	ARE GIVING, THAT WE COULD, AT LEAST FOR THE TIME
24	BEING IN THE NEAR FUTURE, REMOVE SOMATIC CELL
25	RESEARCH FROM THE SAME CATEGORY THAT WE HAVE FOR
	45

1	EMBRYOS AND GAMETES.
2	DR. TROUNSON: THE ONE THING, BERNIE, THAT
3	DOESN'T SEEM TO STRIKE ME QUITE RIGHT HERE IS THE
4	WORDS "GAMETES AND BLASTOCYSTS." NO. 1, I THINK
5	IT'S MORE ABOUT EMBRYOS, AS WE'VE JUST HEARD. SO
6	BLASTOCYST IS A STAGE WELL AND TRULY DOWNSTREAM. SO
7	YOU SHOULD USE THE WORD "EMBRYOS."
8	BUT I ACTUALLY DON'T SEE WHY RESEARCH ON
9	THE STUDY OF IPS CELLS IN GAMETES WOULD ACTUALLY
10	PRODUCE ANY GENUINE DIFFICULTY. THE PROBLEM IS
11	KNOWING WHERE IN THE SPACE YOU'VE GOT A GAMETE
12	BECAUSE YOU GO DOWN THE GERM CELL, AND THEN YOU'VE
13	GOT A WHOLE SORT OF SEQUENCE OF EVENTS, AND THEN
14	SUDDENLY YOU ARE ARRIVING AT SOMETHING THAT'S A
15	DIFFICULTY.
16	I ESSENTIALLY THINK THE REAL PROBLEM IS
17	THE PRODUCTION OF AN EMBRYO OR THE TRANSPLANTATION
18	OF THE GAMETES. SO YOU'VE GOT IT VERY ADEQUATELY
19	COVERED IF YOU ACCEPT BOTH THE EMBRYO AND THE
20	TRANSPLANTATION AS REQUIRING YOU TO GET A HIGHER
21	LEVEL OF DEMAND IN TERMS OF A CONSENT FROM YOUR SCRO
22	COMMITTEES OR WHATEVER.
23	CHAIRMAN LO: OR FROM THE DONOR. SO THERE
24	ARE TWO ISSUES HERE. WHAT LEVEL OF REVIEW AND WHAT
25	LEVEL OF CONSENT YOU WANT FROM THE DONOR. OKAY.

1	I'M HEARING A FAIR AMOUNT OF AGREEMENT
2	THAT ACTUALLY I DON'T THINK THIS IS SPECIFIC TO
3	IPS CELLS, BUT IF YOU'RE DOING I GUESS LET ME
4	JUST SAY. IF YOU HAVE AN IPS CELL AND YOU'RE DOING
5	RESEARCH TO CREATE AN EMBRYO FROM GAMETES DERIVED
6	FROM IPS CELL, THAT THAT REQUIRES STRICTER STANDARDS
7	OF BOTH CONSENT AND OVERSIGHT. AND I THINK HAVING
8	HEARD OBJECTION TO THE IDEA THAT IF YOU'RE GOING TO
9	DO ALLOGENEIC TRANSPLANTATION INTO ANOTHER HUMAN
10	BEING, THAT ALSO SHOULD REQUIRE HIGHER STANDARDS.
11	DR. TROUNSON: OR ANIMALS.
12	CHAIRMAN LO: OR ANIMALS. OKAY. SO THAT
13	WHAT WE'RE SAYING I THINK WE MAY NEED TO HAVE
14	SOME DISCUSSION AROUND GAMETES, ALTHOUGH THE LAST
15	COUPLE PEOPLE SAID THAT IF YOU'RE GOING TO DRAW A
16	LINE, IT SHOULD BE AT EMBRYOS RATHER THAN AT
17	GAMETES. BUT THEN ABSENT THOSE SORT OF CASES, IF
18	YOU ARE JUST DERIVING THE CELLS OR CHARACTERIZING
19	ITS PROPERTIES AND IDENTIFYING MARKERS AND THINGS
20	LIKE THAT, THAT THOSE WOULD ONLY REQUIRE NOTIFYING
21	THE SCRO AND HAVING CONSENT FROM THE ORIGINAL
22	SOMATIC CELL DONOR FOR JUST GENERAL RESEARCH.
23	THAT BEING SAID, I WOULD SORT OF I
24	WOULD PERSONALLY, BUT I DON'T KNOW HOW THE REST OF
25	YOU FEEL, SUPPORT DOROTHY'S ARGUMENT. IF YOU'RE
	47

1	GOING TO GET FRESH SOMATIC CELLS TO DERIVE NEW IPS
2	LINES, YOU OUGHT TO GO THROUGH A FAIRLY THOROUGH
3	CONSENT PROCESS RATHER THAN JUST GETTING THE MINIMAL
4	PROCESS.
5	AND THE ARGUMENT I WOULD MAKE IS BECAUSE
6	YOU DON'T KNOW WHAT PEOPLE MIGHT WANT TO DO WITH
7	THOSE LINES DOWNSTREAM. THAT WHEN YOU JUST GET THE
8	SOMATIC CELLS, YOU DON'T KNOW IF YOU ARE GOING TO BE
9	SUCCESSFUL DERIVING AN IPS LINE. IF YOU DO DERIVE
10	THE LINE, MY IMPRESSION IS THAT YOU DON'T KNOW
11	WHETHER IT'S GOING TO BE A LINE THAT'S EASY TO GROW,
12	THAT DOESN'T MUTATE OR DIE, OR YOU DON'T KNOW
13	WHETHER PEOPLE ARE ACTUALLY GOING TO BE ABLE DERIVE
14	IT INTO MORE A SPECIALIZED LINE. BUT IF IT HAS
15	THOSE PROPERTIES, OTHER SCIENTISTS ARE GOING TO WANT
16	TO DO RESEARCH YOU WEREN'T PLANNING TO DO
17	PERSONALLY.
18	IT STRIKES ME IT WOULD BE A SHAME, BECAUSE
19	YOU DIDN'T SORT OF DO A PRETTY THOROUGH CONSENT
20	PROCESS UP FRONT, THAT LATER RESEARCHERS WOULD BE
21	ENABLE TO USE THOSE LINES BECAUSE YOU DID NOT ASK
22	ABOUT THESE. I AT LEAST WANT TO JUST THROW THAT OUT
23	AS A SUGGESTION.
24	DR. TROUNSON: AGAIN, IF YOU USE THAT
25	ARGUMENT, BERNIE, WHY WOULDN'T IT BE IMPORTANT
	40

1	PERHAPS TO BE ABLE TO GO BACK TO THE DONOR? YOU
2	KNOW, IF IT WAS A PROPENSITY FOR A DISEASE THAT
3	DIDN'T SHOW UP TILL LATER IN LIFE, IT MIGHT BE QUITE
4	IMPORTANT TO BE ABLE TO DO THAT. HENCE, THE NEED TO
5	BE ABLE TO HAVE THAT AS SOME SORT OF CONSENT MIGHT
6	ALSO BE IMPORTANT.
7	CHAIRMAN LO: ABSOLUTELY. AGAIN, THAT'S
8	WHAT WE'VE DONE AT UCSF. WE'VE SAID WHAT WE'D LIKE
9	TO SEE IDEALLY IS AN EXPLANATION THAT ALL THESE
10	MIGHT BE DONE. DO YOU AGREE TO SOME OF THESE MORE
11	SENSITIVE, AND THEN MAY WE RECONTACT YOU EITHER IF
12	NEW INFORMATION COMES UP IN YOUR HISTORY THAT WE
13	WANT TO KNOW ABOUT. THERE'S ALWAYS THE POTENTIAL WE
14	MAY FIND SOMETHING THAT MAY BE OF CLINICAL
15	IMPORTANCE TO YOU. BUT ALSO, THAT IF SOMEONE
16	PROPOSES RESEARCH THAT WE HADN'T THOUGHT OF, BUT
17	MIGHT BE SENSITIVE, WE WOULDN'T WANT TO DO THAT
18	WITHOUT GETTING BACK IN TOUCH.
19	LET ME SAY ONE OTHER THING. THE OTHER
20	REASON THAT THIS IS A DIFFERENT APPROACH THAN WHAT'S
21	BEEN LEGISLATIVELY ENACTED IN CALIFORNIA IS THAT
22	THERE ARE CALIFORNIA LAWS SPECIFYING, AND ACTUALLY
23	SOME ARE A RECOMMENDATION, SPECIFYING WHAT MUST BE
24	SAID TO A DONOR. AND I THINK ONE OF THE PROBLEMS
25	WITH ACTUALLY SPECIFYING YOU MUST SAY XYZ AND ABC IS

1	THAT THAT CHANGES AS THE NATURE OF THE SCIENCE
2	CHANGES AND WE UNDERSTAND MORE WHAT PEOPLE ARE
3	CONCERNED ABOUT.
4	SO, AGAIN, I WANT TO REMIND YOU THAT WE
5	HAVE TRIED NOT TO BE PRESCRIPTIVE IN OUR
6	REGULATIONS, BUT TO SAY THESE ARE THE GOALS WE WANT
7	TO ACCOMPLISH AND LEAVE FLEXIBILITY OF SORT OF HOW
8	YOU ACTUALLY FULFILL THOSE GOALS. AND TO THE EXTENT
9	THAT, I THINK, THAT'S BEEN IMPORTANT IN A RAPIDLY
10	MOVING FIELD, I WOULD URGE US TO SORT OF THINK ABOUT
11	USING SORT OF GOAL-ORIENTED REGULATIONS RATHER THAN
12	VERY PRESCRIPTIVE REGULATIONS.
13	I CUT SOMEONE OFF.
14	DR. PRIETO: JUST A QUESTION ABOUT THE
15	ISSUE OF RECONTACT. I UNDERSTAND SITUATIONS WHERE
16	THAT MIGHT BE DESIRABLE, BUT WHAT ARE THE
17	IMPLICATIONS IF THE RECONTACT TURNS OUT TO BE
18	IMPOSSIBLE?
19	CHAIRMAN LO: RIGHT. I THINK
20	DR. PRIETO: YOU KNOW, THE PERSON IS
21	UNAVAILABLE.
22	CHAIRMAN LO: RIGHT. OR DECIDES NOT TO
23	WANT TO TALK TO YOU. THEY CHANGED THEIR MIND.
24	ABSOLUTELY.
25	DR. PRIETO: OR HAS PASSED AWAY. MAYBE
	50

1	THAT SORT OF REMOVES SOME ISSUES, BUT CERTAINLY THE
2	OTHERS.
3	CHAIRMAN LO: THIS IS NO MATTER WHICH
4	OPTION WE TAKE, THERE ARE ALWAYS COMPLICATIONS WHERE
5	THINGS DON'T QUITE WORK OUT THE WAY YOU WOULD HOPE.
6	AND THEN THAT'S, I THINK, SOMETHING THAT THE SCRO,
7	THE IRB WILL HAVE TO SORT OF MAKE A DECISION ON
8	WITHIN A FRAMEWORK OF WHATEVER REGULATIONS AND
9	GUIDELINES ARE OUT THERE.
10	DR. TAYLOR: ACTUALLY I THINK THE POINTS
11	ARE REALLY IMPORTANT NOW. I'D JUST LIKE TO
12	EMPHASIZE THAT THEY'RE NOT ONLY THEORETICAL. AT OUR
13	LAST MEETING, I THOUGHT WHAT WAS A RELATIVELY HEATED
14	DISCUSSION WAS OVER THE FACT THAT A STEM CELL LINE
15	THAT MIGHT BE AVAILABLE FOR CLINICAL TRIALS REALLY
16	HAD BEEN OBTAINED UNDER SORT OF IN A SITUATION WHERE
17	WE REALLY DIDN'T HAVE VERY MUCH CLINICAL INFORMATION
18	AT ALL ABOUT WHERE CELLS CAME FROM.
19	SO I THINK WE REALLY WANT TO I
20	CERTAINLY DON'T WANT TO STIFLE THE SCIENCE GOING
21	FORWARD, BUT I DON'T WANT TO INHIBIT OUR ABILITY TO
22	HAVE REALLY USEFUL THINGS THAT WE WOULD GET IF WE
23	DID IT RIGHT KIND OF THE FIRST TIME.
24	I THINK IT IS IMPORTANT TO REALLY THINK
25	THROUGH THIS TO MAKE SURE THAT THE CONSENT IS IN
	51
	<b>,</b>

1	PLACE SO THAT WE CAN GO BACK AND GET THE INFORMATION
2	IF THE CELLS REALLY TURN OUT TO BE VALUABLE. WHEN
3	YOU WERE TALKING ABOUT THE POLITICS AS WELL, AND I
4	GUESS KIND OF PARAPHRASING YOGI BERRA, PREDICTION IS
5	DIFFICULT PARTICULARLY ABOUT THE FUTURE.
6	CHAIRMAN LO: YOGI IS QUITE A GUY. YES.
7	AGAIN, I THINK THE VERY HELPFUL DISTINCTION, I THINK
8	IT WAS DOROTHY THAT POINTED OUT TO US, THAT WE NEED
9	TO THINK DIFFERENTLY ABOUT EXISTING MATERIALS WHERE
10	WE CAN'T GO BACK AND CONTACT VERSUS FRESH MATERIALS
11	WE MAY WANT TO GATHER PROSPECTIVELY IN THE FUTURE
12	WHERE THERE WILL BE SOME INTERACTION WITH THE DONOR
13	OF THE CELLS AROUND THE TIME OF DONATION.
14	DR. LOMAX: CAN I ASK YOU A QUESTION ABOUT
15	THAT, BERNIE, AND THIS IS ALSO DIRECTED TOWARDS
16	PROFESSOR ROBERTS. ONE WAY TO THINK ABOUT THAT
17	SCENARIO, SO I'M TRYING TO BE SENSITIVE TO THE
18	PROBLEM WE'RE TRYING TO FIX, AND IF THE POLICY
19	DOESN'T ADDRESS THE PROBLEM, THEN WE DON'T NEED A
20	NEW POLICY.
21	WOULD IT BE REASONABLE IT SEEMED THAT
22	THE CRITICAL STEP IN THE SCENARIO YOU DESCRIBE WAS
23	THE INTENT TO SORT OF REDISTRIBUTE OR OTHERWISE
24	CREATE A CELL LINE THAT WOULD BECOME READILY
25	AVATIABLE TO RESEARCHERS. BECAUSE THE PROBLEM THAT

1	WAS IDENTIFIED WAS THE INABILITY TO TAKE BANKED
2	MATERIALS AND DO SORT OF RAPID SCREENING, SORT
3	THROUGH, SAY, A SELECTION OF CELLS FOR THE PURPOSE
4	OF THEN MOVING FORWARD AND MOVING IN A DIRECTION.
5	AND IF THE CONSENT HAS TO BE DONE ALL IN ADVANCE,
6	THEN YOU STILL DON'T HAVE THAT OPTION OF KIND OF
7	THAT RAPID SCREENING.
8	BUT SAY THE SCENARIO IS AN INVESTIGATOR
9	PERFORMS THAT RAPID SCREENING WITH MATERIALS THAT
10	ARE IDENTIFIABLE, THERE IS AN OPPORTUNITY TO GO BACK
11	TO THE DONOR. IF THE NEXT STEP IS THAT THERE'S A
12	PARTICULAR CELL LINE THAT HAS SOME EXTRAORDINARY
13	CLINICAL OR SCIENTIFIC POTENTIAL THAT ALSO THEY'D
14	WANT TO DISTRIBUTE AS A DERIVED LINE, THEN THEY'VE
15	SORT OF GONE THROUGH THE STAGE OF IDENTIFYING THE
16	OPTIMAL MATERIAL, AND THEN THERE'S A REAL IT'S
17	NOT THAT DIFFICULT TO THEN RECONTACT AND RECONSENT.
18	SO THE POINT I'M TRYING TO MAKE IS COULD
19	YOU DO THE BASIC WORK TO DO IDENTIFICATION, THE
20	BASIC RESEARCH WITH A GENERAL CONSENT? AND THEN IF
21	YOU BUMPED UP TO THE LEVEL THAT WOULD TAKE IT TO
22	WHERE I THINK YOU WERE INDICATING WHERE IT WOULD BE
23	PUT OUT THERE AND POTENTIALLY AVAILABLE BROADLY,
24	THAT THAT'S WHEN THE HIGHER LEVEL OF CONSENT WOULD
25	BE REQUIRED.

1	SO THE STANDARD WOULD READ SOMETHING TO
2	THE EFFECT THAT LINES INTENDED FOR SUBSEQUENT
3	BANKING AND/OR DISTRIBUTION, ETC., SHALL. YOU KNOW,
4	SO, AGAIN, WE'RE STILL PROVIDING THAT OPPORTUNITY
5	FOR THE RAPID SCREENING, THE GOING TO THE BANKS AND
6	DO THE VERY BASIC RESEARCH. IS THAT CONSISTENT WITH
7	YOUR COMMENTS?
8	CHAIRMAN LO: LET ME SORT OF TRY AND DRAW
9	A DISTINCTION BETWEEN SCREENING OF EXISTING SOMATIC
10	CELLS IN SOMEBODY'S PATHOLOGY BANK OR CANCER CENTER
11	BANK VERSUS SCREENING OF EXISTING IPS CELLS. SO,
12	AGAIN, I THINK WHAT WE'RE SAYING IS THERE ARE
13	DIFFERENT TYPES OF IPS RESEARCH. AND SOME OF THE
14	UP-FRONT BASIC RESEARCH JUST TO DERIVE,
15	CHARACTERIZE, AND PROVE ITS PLURIPOTENT, THAT TO US
16	DOESN'T SEEM TO IMPLICATE THE SAME KIND OF
17	HEIGHTENED ETHICAL SENSITIVITY AND CONCERN.
18	BUT THEN ONCE YOU HAVE DERIVED THAT LINE,
19	AND YOU SAY, WOW, THIS IS A PRETTY GOOD LINE, LET'S
20	SORT OF SHARE WITH OTHER RESEARCHERS, LET'S DO OTHER
21	THINGS, THEN THERE ARE CERTAIN THINGS THAT ARE
22	DOWNSTREAM RESEARCH THAT WOULD SAY, BOY, IF YOU ARE
23	GOING TO DO THAT, WE'RE NOT COMFORTABLE WITH SORT OF
24	JUST A GENERAL CONSENT. WE WOULD WANT YOU TO HAVE
25	GOTTEN MORE SPECIFIC.

1	ALAN HAS PROPOSED THAT, WELL, YOU JUST GO
2	BACK TO PEOPLE AND SAY, "WELL, WE'VE DERIVED A LINE.
3	THANK YOU VERY MUCH. NOW THERE ARE OTHER THINGS
4	WE'D LIKE TO DO." THAT'S ONE MODEL.
5	THE OTHER MODEL IS TO TRY AND DO MORE OF
6	THAT CONSENT UP FRONT. BUT I THINK WHAT WE'RE
7	SAYING IS YOU MAY END UP IN A SITUATION WHERE YOU
8	GET THE MATERIALS, THE SOMATIC CELLS, UNDER A
9	GENERAL CONSENT, DERIVE A LINE, IT'S GANGBUSTERS,
10	IT'S TERRIFIC, YOU NOW WANT TO DO LOTS OF OTHER
11	THINGS. YOU TRY AND RECONTACT THE PERSON. I THINK
12	IT WAS FRANCISCO. YOU CAN'T FIND THEM. THEY'VE
13	MOVED AWAY. THEN YOU MAY BE PRECLUDED FROM USING
14	THOSE LINES WHICH MAY HAVE VERY DESIRABLE SCIENTIFIC
15	PROPERTIES FOR RESEARCH.
16	THAT'S THE DILEMMA WE FOUND OURSELVES IN
17	AT UCSF. WE SAID LET'S TRY AND AVOID THAT BECAUSE
18	THAT WOULD BE AWFUL, TO HAVE A LINE THAT'S REALLY
19	VALUABLE AND SAY, WELL, IT'S REALLY GOT GREAT
20	SCIENTIFIC PROPERTIES, BUT WE JUST DIDN'T ASK THAT,
21	AND NOW WE CAN'T CONTACT THEM. SO WE SAID WHY DON'T
22	WE TRY AND DO MORE OF THAT. THERE'S ALWAYS A
23	TENSION BETWEEN TRYING TO ANTICIPATE WHAT YOU MIGHT
24	WANT TO DO VERSUS HAVING SOMETHING COME UP THAT YOU
25	DIDN'T ANTICIPATE.

1	BUT IT'S NOT UNWORKABLE TO SPEND EXTRA
2	WHATEVER IT IS AMOUNT OF TIME UP FRONT WITH YOUR
3	DONOR AND SAY IF THIS WERE TO WORK, THESE ARE SOME
4	THINGS WE MIGHT WANT TO THINK ABOUT. WOULD YOU
5	AGREE TO BE RECONTACTED? AND WOULD YOU AGREE TO
6	THESE OTHER TYPES OF RESEARCH? SO, AGAIN, I THINK
7	WE HAVE TO DIFFERENTIATE BETWEEN REGULATION AND
8	SUGGESTIONS. WE MAY SAY AS A REGULATION, YOU MAY DO
9	THIS TYPE OF RESEARCH WITH THIS TYPE OF CONSENT AND
10	OVERSIGHT, BUT YOU MAY NOT DO THIS TYPE OF RESEARCH.
11	THEN IT'S UP TO THE RESEARCHER TO MAKE THAT CALL
12	WHETHER THEY WANT TO SPEND MORE TIME UP FRONT WITH
13	THE CONSENT OR GO BACK LATER.
14	I DON'T THINK WE SHOULD BE PRESCRIBING YOU
15	MUST DO ALL THESE THINGS FOR SOMETHING THAT MAY OR
16	MAY NOT HAPPEN IN THE FUTURE. SO I THINK THE WAY
17	IT'S LAID OUT HERE IS IF YOU'RE GOING TO DO CERTAIN
18	TYPES OF RESEARCH WITH SOMATIC CELLS AND IPS CELLS,
19	THESE ARE THE TYPES OF CONSENT YOU MUST HAVE AND
20	THIS IS THE TYPE OF OVERSIGHT. WE MAY SUGGEST AS
21	GUIDANCE OR NOT EVEN GUIDANCE, SORT OF A
22	RECOMMENDATION HOW TO DO WHAT THEY MIGHT WANT TO DO,
23	BUT THAT WILL EVOLVE. DIFFERENT RESEARCHERS WILL
24	WORK OUT IN DIFFERENT WAYS, AND THEY MAY COME UP
25	WITH BETTER IDEAS THAN WE CAN DO RIGHT NOW.

1	ANY OTHER COMMENTS FROM THOSE OF YOU ON
2	THE PHONE? IT'S A PUBLIC MEETING, AND SO THERE'S
3	SOME PEOPLE, I THINK, WHO WANT TO COMMENT, AND I'M
4	GOING TO SORT OF OPEN THAT UP. ACTUALLY, MARCY, I'M
5	GOING TO ASK YOU TO COME TO THE FRONT AND SPEAK INTO
6	THE WHATEVER, THE PHONE, SO PEOPLE CAN HEAR YOU.
7	FOR THE RECORD IDENTIFY YOURSELF, PLEASE.
8	DR. DARNOVSKY: THIS IS MARCY DARNOVSKY
9	FROM THE CENTER FOR GENETICS AND SOCIETY. SO IT
10	SEEMED LIKE THE DISCUSSION APPROACHED CONSIDERING
11	SOME OF THE MUCH MORE ETHICALLY SENSITIVE DOWNSTREAM
12	USES. AND I DON'T KNOW IF THIS IS THE APPROPRIATE
13	VENUE FOR RAISING THEM. TED PETERS DID. AND I
14	THOUGHT SINCE YOU DID, IT WOULD BE A GOOD THING TO
15	PUT ON THE RECORD THAT THE CREATION OF GAMETES,
16	EMBRYOS, BLASTOCYSTS OUT OF IPS CELLS, I THINK,
17	WOULD RAISE VERY, VERY DEEP CONCERNS FOR A LOT OF
18	PEOPLE, INCLUDING THOSE WHO SUPPORT EMBRYONIC STEM
19	CELL RESEARCH, SUPPORT EMBRYO DESTRUCTIVE RESEARCH,
20	AND SO ON.
21	SO YOU'VE HEARD FROM ME A LOT WHEN I'VE
22	RAISED CONCERNS ABOUT THE ACQUISITION OF EGGS FROM
23	WOMEN. AND THIS IS A DIFFERENT CONCERN ABOUT THE
24	USE OF POTENTIALLY THE USE OF GAMETES OR
25	BLASTOCYSTS, EMBRYOS FOR REPRODUCTIVE PURPOSES. AND
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1	THAT SEEMS TO ME A VERY, VERY BRIGHT LINE THAT, AS
2	FAR AS I KNOW, NOBODY IS CONTEMPLATING NO
3	SCIENTISTS ARE CONTEMPLATING DOING THAT RIGHT NOW,
4	AND I HOPE THAT REMAINS THE CASE.
5	BUT, YOU KNOW, IS IT TOO SOON TO BE
6	RAISING THAT? I WOULD NOT LIKE THERE TO BE
7	SOMETHING THAT, FOR EXAMPLE, THAT SOME PROVISION IN
8	A CONSENT FORM, WE MAY USE CELL LINES DERIVED FROM
9	YOUR TISSUE TO DO XYZ AND CREATE GENETICALLY
10	MODIFIED BABIES. I WOULD NOT LIKE TO SEE THAT IN
11	THE CONSENT FORM BECAUSE THAT BEGINS TO INTRODUCE
12	THE POSSIBILITY THAT SOMEBODY THINKS THAT'S OKAY.
13	AND THERE WOULD BE A WHOLE LOT OF PEOPLE WHO DON'T.
14	CHAIRMAN LO: LET ME, AGAIN, I THINK THIS
15	IS HELPFUL. LET ME TRY AND RAISE TWO QUESTIONS.
16	ONE IS THERE'S A CONTINUUM OF WORK, RIGHT, AND LET
17	ME JUST SAY, FIRST, THERE IS GOING TO BE INTEREST IN
18	USING IPS, I THINK, USING IPS CELLS FOR REPRODUCTIVE
19	PURPOSES. IF YOU THINK ABOUT PEOPLE LIVING WITH
20	CANCER WHO, BECAUSE OF THEIR CHEMO OR RADIATION
21	THERAPY NO LONGER CAN PRODUCE GAMETES ON THEIR OWN,
22	THEY MAY WANT VERY MUCH, AFTER THEY'VE SORT OF GONE
23	THROUGH THEIR TREATMENT AND BEEN DISEASE FREE FOR
24	FIVE, TEN YEARS AND CONSIDERED CURED OF THEIR
2 E	
25	DISEASE, TO SAY, GEE, I WOULD LIKE TO HAVE CHILDREN

1	THAT ARE GENETICALLY RELATED TO ME.
2	RIGHT NOW THE WAY THAT'S HANDLED IS THAT
3	PEOPLE ARE ASKED TO MEN ARE ASKED TO BANK SPERM;
4	BUT FOR WOMEN, BECAUSE OOCYTE RETRIEVAL AND FREEZING
5	IS NOT AS SIMPLE OR EFFECTIVE, IT'S REALLY NOT AN
6	OPTION. WHEREAS, WHAT YOU SAID ALLOWS AN OPTION,
7	YOU KNOW, THIS IS WAY DOWNSTREAM WHERE WE TAKE A
8	BIOPSY OF YOUR SKIN, GIVE IT TO SOMEONE'S
9	LABORATORY, AND THEY TURN IT INTO AN IPS LINE, AND
10	THEN DERIVE IT INTO AN OOCYTE. AND THEN IN IVF WE
11	MIGHT I THINK THAT WOULD BE ATTRACTIVE TO PEOPLE
12	FOR THAT PURPOSE, AT LEAST SOME PEOPLE.
13	SO I THINK THERE WOULD BE INTEREST IN
14	DOING THAT. SO IF YOU YOU CAN THINK OF OTHER
15	SCENARIOS WHERE PEOPLE WOULD SAY, OH, MY GOSH,
16	THAT'S AWFUL OF PEOPLE TO THINK ABOUT WHATEVER.
17	DIFFERENT STEPS ON THE PROCESS. I THINK
18	WE'VE SORT OF SAID THERE'S A CLEAR LINE THAT MANY
19	DIFFERENT SORT OF FAITH TRADITIONS HAVE DRAWN
20	BETWEEN CREATION OF AN EMBRYO, A TOTALLY POTENT
21	ENTITY, THAT THAT HAS ENORMOUS MORAL SIGNIFICANCE,
22	AND THAT REQUIRES VERY HIGH LEVEL. THEN GOING
23	BACKWARDS IS CREATING THE GAMETE, BUT NOT USING IT
24	FOR FERTILIZATION. WHAT'S THE SIGNIFICANCE OF THAT?
25	THE PREVIOUS RESEARCH, SORT OF THE MORE BASIC

1	RESEARCH, TO SORT OF DERIVE IT INTO SORT OF A GERM
2	CELL PRECURSOR. SO I THINK THERE'S CLEARLY A LINE
3	THAT EVERYONE AGREES ON. THEN WE NEED TO SORT OF
4	THEN SAY HOW MUCH FURTHER BACK DOES THAT GO?
5	DR. TROUNSON: IT WAS CERTAINLY THE CASE
6	THAT YOU COULD IMAGINE THAT YOU COULD DERIVE GERM
7	CELLS. GIVEN THE CURRENT TECHNOLOGY, THERE MAY WELL
8	BE INTEREST, FOR EXAMPLE, IN MEN WHO HAVE NO SPERM
9	TO BE ABLE TO RECEIVE THEIR GERM CELLS BACK AND
10	REALLY TEST IT SO THAT THEY WOULD ACTUALLY PRODUCE
11	SPERM. YOU KNOW, YOU CAN WELL IMAGINE THAT THEY
12	WOULD WANT TO RECOVER FERTILITY. IT'S THEIR OWN
13	CELLS. IT'S THEIR OWN FERTILITY.
14	IT'S CERTAINLY THE CASE THAT IN THE
15	REPRODUCTIVE AREA, THERE WILL BE CERTAINLY INTEREST
16	IN THAT.
17	DR. PETERS: THE REASON THAT UP UNTIL THIS
18	POINT EMBRYOS HAVE BEEN ETHICALLY SENSITIVE AND
19	GAMETES HAVE BEEN ETHICALLY SENSITIVE, I THINK, IS
20	PROBABLY GOING TO BE DIFFERENT THAN WHY IT IS THAT
21	THE PRODUCTION OF TOTALLY PLURIPOTENT CELLS FROM IPS
22	OR OTHER SORTS OF THINGS WILL COME TO THE FORE. SO
23	COULD YOU STATE, IN YOUR JUDGMENT, EXACTLY WHY WE
24	WOULD HAVE AN ETHICAL CONCERN BECAUSE I SUSPECT IT'S
25	GOING TO BE DIFFERENT FROM THE VATICAN'S ETHICAL

1	CONCERN UP UNTIL THIS POINT.
2	SO WHAT WOULD YOUR CONCERN BE IF WE DO
3	MAKE BABIES FROM IPS EXPERIMENTS?
4	DR. DARNOVSKY: OUR CONCERN WOULD BE THAT
5	THAT WOULD BE A PATH TOWARD GENETIC ENHANCEMENT OF
6	FUTURE GENERATIONS WITH ALL THE ATTENDING SOCIAL
7	CONSEQUENTIALITY OF THAT THAT, YOU KNOW, POTENTIALLY
8	OPENS UP INTO EUGENIC SCENARIOS USING THIS KIND OF
9	TECHNOLOGY.
10	CHAIRMAN LO: MAY I ALSO ASK, MARCY, IF
11	YOU WOULD TO SORT OF SAY SOMETHING ABOUT WHY YOU
12	DREW THE LINE AT PRODUCING GAMETES RATHER THAN
13	PRODUCING EMBRYOS?
14	DR. DARNOVSKY: TO THE EXTENT THAT IT
15	WOULD BE POSSIBLE TO INTRODUCE THOSE SORTS OF
16	GENETIC SO-CALLED ENHANCEMENTS FOR REPRODUCTIVE
17	PURPOSES. I'M IMAGINING THAT YOU COULD DO THAT IN
18	GAMETES AS WELL AS IN EARLY STAGE EMBRYOS.
19	CHAIRMAN LO: BUT IF IT WAS POSSIBLE TO
20	DRAW A BRIGHT LINE BETWEEN SAYING YOU CAN DO THE
21	RESEARCH, BUT YOU CAN'T PRODUCE THE EMBRYO, WHICH
22	THEN COULD BE IMPLANTED. SO THE QUESTION IS, YOU
23	WANT, IF YOU WANT TO STOP THE ULTIMATE OUTCOME, HOW
24	FAR BACK. THOSE
25	DR. DARNOVSKY: THESE THINGS, BECAUSE OF
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1	THIS NOW PROSPECT OF PRODUCING PLURIPOTENT AND
2	EVENTUALLY TOTIPOTENT CELLS USING THE CELL
3	REPROGRAMMING METHODS, IT BLURS SOME OF THESE LINES
4	THAT USED TO BE BRIGHTER.
5	CHAIRMAN LO: AND YOUR CONCERN WITH
6	GENETIC ENGINEERING, EVEN IF THE ONLY GENETIC
7	MODIFICATIONS YOU MADE WERE TO MAKE THE SOMATIC CELL
8	PLURIPOTENT AS OPPOSED TO THROWING IN A GENE FOR
9	BETTER MEMORY AND LESS SLEEP AND
10	DR. DARNOVSKY: THOSE ARE THE THINGS
11	THE LATTER IS WHAT OUR CONCERN IS, THE ABILITY TO
12	MAKE STEM CELLS WITHOUT HAVING TO
13	DISEASE-SPECIFIC OR PATIENT-SPECIFIC STEM CELLS
14	WITHOUT HAVING TO TAKE ON ALL THE PROBLEMS AND
15	DIFFICULTIES AND RISKS OF EXTRACTING EGGS FROM
16	WOMEN. THAT'S VERY ATTRACTIVE OBVIOUSLY.
17	DR. TROUNSON: I THINK IT MIGHT BE THE
18	BRIGHT LINE THAT I THINK IS THE ONE TO MAKE SURE
19	THAT IF YOU ARE GOING TO ACTUALLY TRANSPLANT ANY OF
20	THIS MATERIAL, ANY OF IT, THAT YOU ACTUALLY GO TO A
21	MUCH DETAILED, MUCH HIGHER LEVEL, WHICH WOULD BRING
22	FORTH THESE KIND OF THINGS BECAUSE I MEAN I THINK,
23	AS YOU SAY, MOST PEOPLE WOULDN'T BE SUPPORTIVE OF
24	ANY KIND OF ENHANCEMENT. BUT THEY MIGHT THINK ABOUT
25	THE CORRECTION OF HUNTINGTON'S DISEASE, OR SOMETHING

1	LIKE THIS MAY BRING A BIT OF A DIFFERENT THOUGHT.
2	CHAIRMAN LO: OR THALASSEMIA, WHICH IS A
3	SINGLE MUTATION.
4	DR. TROUNSON: I THINK THERE'S SUCH
5	INCREDIBLE RISKS IN ALL OF THAT, THAT YOU WOULD HAVE
6	TO HAVE A VERY DETAILED AND PROPER EXAMINATION OF
7	THE WHOLE PERSPECTIVE SO THAT ANY KIND OF TRANSPLANT
8	ACTUALLY HAS TO BE, AND I INCLUDE ANIMALS BECAUSE
9	YOU COULD MAKE THEM IN ANIMALS. I THINK THAT NEEDS
10	TO BE CONSIDERED AS WELL. AND I ALSO THINK IN THE
11	FORMATION OF AN EMBRYO IN THE LABORATORY BRINGS THE
12	SAME KIND OF BRIGHT LINE.
13	DR. DARNOVSKY: THERE'S DOWNSTREAM AND
14	THERE'S WAY, WAY DOWNSTREAM. I THINK THE DOWNSTREAM
15	TRANSPLANTATION FOR CLINICAL USES, THAT'S ALREADY
16	FOR VERY DIFFERENT REASONS A CONCERN THAT WE'RE
17	TALKING ABOUT HERE. THE WAY, WAY DOWNSTREAM I
18	DIDN'T KNOW IF IT MADE SENSE TO RAISE IT, BUT I
19	DECIDED DO IT BECAUSE YOU DID, TED.
20	CHAIRMAN LO: ONE OF THE THINGS WE'RE
21	TRYING TO DO HERE IS TO SEE THE BIG PICTURE. THANK
22	YOU. THERE'S SOMEONE ON THE PHONE WANTED TO
23	COMMENT.
24	DR. PRIETO: I REALLY APPRECIATED ALAN'S
25	COMMENTS, AND PARTICULARLY THE MENTION OF

1	HUNTINGTON'S DISEASE. AND I GUESS I'D WANT, IS IT
2	MARCY, TO COMMENT ON THAT SPECIFIC SITUATION BECAUSE
3	I CAN IMAGINE THAT THERE ARE FAMILIES AND
4	INDIVIDUALS VERY INTERESTED IN FERTILITY WHO, IF THE
5	POSSIBILITY OF MAKING THAT MODIFICATION EXISTED,
6	WOULD BE VERY INTERESTED. AND I JUST WANTED TO HEAR
7	HER COMMENTS.
8	DR. DARNOVSKY: YEAH. THAT RAISES A
9	REALLY DIFFICULT DILEMMA BECAUSE THE BLURRINESS, THE
10	INHERENT BLURRINESS OF THE LINE BETWEEN THERAPEUTIC
11	AND ENHANCEMENT USES REALLY PUTS US IN A SITUATION
12	WHERE IT'S NOT AS EASY TO MAKE POLICY TO PREVENT THE
13	OUTCOMES THAT YOU WANT TO PREVENT. SO I DON'T THINK
14	WE CAN SOLVE THAT HERE.
15	BUT ARGUABLY WELL, I DON'T THINK WE CAN
16	SOLVE THAT RIGHT NOW, BUT I THINK PUTTING IT ON THE
17	TABLE AND SAYING WE WOULD LIKE TO MAKE POLICY THAT
18	PRECLUDES GENETIC ENHANCEMENT OF FUTURE GENERATIONS
19	USING THESE TECHNOLOGIES IS A GOOD THING AS A GOAL
20	THAT WE HAVE TO WORK TOWARDS.
21	DR. PRIETO: IS THIS GENETIC ENHANCEMENT,
22	OR IS THIS THERAPEUTIC?
23	DR. DARNOVSKY: THAT'S THE CONCERN.
24	THAT'S THE BLURRINESS THAT RAISES THE DILEMMA.
25	CHAIRMAN LO: SO LET ME TRY AND SEE WHERE

1	I THINK WE ARE AFTER THIS DISCUSSION AND THE ISSUES
2	THAT WERE RAISED WITH ICOC AND GEOFF IDENTIFIED.
3	SO I THINK WHAT WE'RE TRYING TO DO NOW IS
4	IDENTIFY A SET OF RESEARCH INVOLVING DONATION OF
5	SOMATIC CELLS, DERIVATION OF IPS LINES FOR WHICH WE
6	WOULD WANT TO NOT REQUIRE THE STRICT STANDARDS OF
7	OVERSIGHT AND CONSENT THAT WE NOW HAVE IN PLACE
8	UNDER THE CURRENT REGULATIONS. WHAT I'M GOING TO
9	SUGGEST IS THAT THE TYPES OF RESEARCH WE'RE TRYING
10	TO TALK ABOUT ARE NOT THE CONTROVERSIAL RESEARCH OR
11	THE NEAR CONTROVERSIAL RESEARCH, BUT THE SORT OF
12	MUCH MORE BASIC, WHICH I HOPE IS NOT CONTROVERSIAL,
13	DONATION OF SOMATIC CELLS FOR THE PURPOSE OF
14	DERIVING IPS LINES OR THE USE OF EXISTING SOMATIC
15	CELLS. AND THE DERIVATION WOULD MEAN THE
16	CHARACTERIZATION OF THE LINE BY EXAMINING OF ITS
17	NEUROMARKERS AND PROPERTIES AND ESTABLISHING PROOF
18	OF PLURIPOTENCY.
19	NOW, I DO SORT OF HAVE TO RAISE THE ISSUE
20	THAT ONE OF THE CLASSIC TESTS OF PLURIPOTENCY IS IF
21	YOU INJECT INTO A MOUSE, DO YOU DERIVE A TERATOMA
22	THAT SHOWS ALL THREE EMBRYONIC. RIGHT NOW YOU'RE
23	ALREADY TALKING ABOUT PUTTING THINGS INTO ANIMALS.
24	THAT, IT STRIKES ME, YOU MAY WANT TO SAY, WE MAY
25	WANT TO SAY DOES NOT REQUIRE FULL SCRO REVIEW.
	C.F.

1	THE NAS HAS ACTUALLY RECOMMENDED THAT ONLY
2	REQUIRES SCRO NOTIFICATION, THAT YOU SAY TO YOUR
3	SCRO THIS IS WHAT WE'RE PROPOSING TO DO. WE'RE
4	TELLING YOU WE'RE GOING TO DO THAT, BUT UNDER NAS
5	GUIDELINES, YOU DON'T EVEN HAVE TO LOOK AT IT,
6	REVIEW IT IN DETAIL BECAUSE THAT'S ALL WE'RE DOING.
7	THAT'S ONE PROPOSAL.
8	SO THERE'S THREE DIFFERENT VARIABLES HERE.
9	WHAT KIND OF RESEARCH ARE WE TALKING ABOUT?
10	SECONDLY, WHAT ARE WE GOING TO DO WITH REGARD TO
11	OVERSIGHT REVIEW? AND THIRD IS WHAT KIND OF CONSENT
12	ARE WE GOING TO REQUIRE?
13	AND, AGAIN, SO THE QUESTION NOW IS WHETHER
14	WE ALLOW THIS TYPE OF WORK TO PROCEED WITH
15	IDENTIFIABLE MATERIALS UNDER JUST A GENERAL CONSENT
16	TO RESEARCH AS OPPOSED TO A MORE SPECIFIC CONSENT
17	FOR DERIVATION OF STEM CELLS WHICH MAY INVOLVE ALL
18	THE FOLLOWING. IT'S NOT TO SAY YOU COULD DO MORE IF
19	YOU WANTED, BUT YOU DON'T HAVE TO DO THAT MUCH
20	DETAIL AND CONSENT TO ALLOW JUST THIS TYPE OF
21	RESEARCH. WE'LL TALK ABOUT PAYMENT IN A MINUTE
22	BECAUSE WE HAVEN'T TALKED ABOUT THAT YET. IS THAT,
23	GEOFF, WHAT I THINK
24	DR. LOMAX: YES, EXACTLY. THOSE ARE THE
25	CATEGORIES. AND YOU'VE DONE A NICE JOB, BERNIE, OF

1	KIND OF ILLUSTRATING THE INTERACTION. THAT'S WHY
2	WE'VE CONSTRUCTED THOSE THREE CATEGORIES OR WHY WE
3	SORT OF HIGHLIGHTED THOSE THREE CATEGORIES THAT
4	EXIST IN THE REGULATIONS. I THINK YOU SUMMED IT UP
5	NICELY.
6	CHAIRMAN LO: WE DON'T WANT TO CALL IT IN
7	VITRO RESEARCH BECAUSE WE WANT TO LEAVE OUT OF THIS
8	IN VITRO FERTILIZATION, RIGHT? SO I THINK THAT'S
9	NOT
10	DR. LOMAX: JUST TO SAY, I APPRECIATE THE
11	PREVIOUS DISCUSSION, BUT IN MY MIND, AS I WAS SORT
12	OF TICKING THROUGH EVERY ONE OF THOSE POINTS, I
13	DON'T SEE ANY GAP IN OUR REGULATIONS THAT DOESN'T
14	APPLY OUR MOST STRICT STANDARDS ON THOSE TYPES OF
15	ACTIVITIES, CREATION OF EMBRYOS, THE IMPLANTATION OF
16	EMBRYOS. UNLESS I'M MISSING SOMETHING, AND I'D BE
17	HAPPY TO SORT OF RECEIVE THAT.
18	CHAIRMAN LO: WE WANT TO WRITE THIS
19	THIS IS A REVISION TO OUR CURRENT VERY STRICT
20	STANDARDS. WE WANT TO MAKE SURE WE'RE NOT ALLOWING
21	AS AN EXCEPTION STUFF THAT WE DIDN'T MEAN TO ACCEPT.
22	SO THAT'S WHY I'M WORRIED ABOUT USING IN VITRO TO
23	CHARACTERIZE THIS TYPE OF RESEARCH.
24	I'M ALSO, I MUST SAY, CONCERNED ABOUT THE
25	INJECTION TO ANIMALS BECAUSE TO ME THERE'S A

1	WELL, YOU KNOW, I'M JUST ME, BUT I THINK THERE ARE
2	MORE PEOPLE WHO ARE CONCERNED ABOUT INJECTING HUMAN
3	NEURAL PRECURSORS CELLS INTO NONHUMAN ANIMALS,
4	PARTICULARLY PRIMATES, THAN INJECTING I MEAN
5	BECAUSE RIGHT NOW THIS IS WHAT PEOPLE DO WITH
6	EMBRYONIC STEM CELLS. THEY INJECT THEM INTO MICE TO
7	FORM TERATOMAS. SO I THINK WHOLESALE BANNING OF ALL
8	TRANSPLANTATION TO ANIMALS WOULD SET BACK STEM CELL
9	BASIC SCIENCE IN WAYS THAT'S INCONSISTENT WITH
10	WHAT'S DONE IN LABORATORIES NOW, WHICH I THINK WE
11	DON'T WANT TO DO. WE DON'T WANT TO MAKE IT HARDER
12	TO DO THIS WHEN THEY'RE DOING THE EXACT SAME THING
13	THAT RESEARCHERS USING ES LINES ARE DOING.
14	DR. TAYLOR: I ACTUALLY THINK THAT
15	CREATING TERATOMAS IS ALMOST PART OF THE DEFINITION
16	OF THE IPS CELL.
17	CHAIRMAN LO: RIGHT.
18	DR. TAYLOR: WE DON'T REALLY WANT TO
19	PREVENT THAT.
20	CHAIRMAN LO: THAT'S WHY I WAS SAYING
21	TRANSPLANTATION TO ANIMALS, IF WE PUT THAT IN,
22	BECAUSE WE'RE THINKING ABOUT THE HUMAN NEURO MOUSE,
23	WOULD INADVERTENTLY EXCLUDE THESE KINDS OF TERATOMA
24	EXPERIMENTS, WHICH I THINK WE DON'T WANT TO DO.
25	DR. LOMAX: JUST TO REMIND YOU ALL, THE

1	WAY WE DID ADDRESS THAT IS IT'S THE LANGUAGE WHICH
2	ACKNOWLEDGES THE STATE OF THE SCIENCE IS THAT THOSE
3	EXPERIMENTS ARE INTEGRAL TO DETERMINING
4	PLURIPOTENCY, AND THEN THE REGULATIONS REQUIRE THAT
5	THOSE ANIMALS BASICALLY MUST BE DESTROYED. THEY'RE
6	NOT ALLOWED TO BREED. SO THAT'S HOW IT'S SORT OF
7	HANDLED BOTH IN OUR REGULATION AND THE NATIONAL
8	ACADEMIES. IT'S THAT ONCE THAT EXPERIMENT IS DONE,
9	THOSE ANIMALS ARE DESTROYED.
10	CHAIRMAN LO: MAYBE YOU COULD HELP ME,
11	GEOFF. WHAT'S THE LANGUAGE WITH THE NAS GUIDELINES
12	ON THIS? WHAT ARE THEY PUTTING IN AS THE EXCLUSION?
13	DR. LOMAX: LET ME SEE IF I CAN GO BACK
14	HERE. THE LANGUAGE IS IN THE FOOTNOTE OF SLIDE 2,
15	AND I CAN GIVE YOU THE MORE I'LL JUST TURN TO THE
16	NATIONAL ACADEMIES DOCUMENT TO MAKE SURE.
17	CHAIRMAN LO: THEY WERE TALKING ABOUT
18	HUMAN TRANSPLANTATION, AND WE'VE SORT OF SAID, WELL,
19	HOW ABOUT INJECTING HUMAN CELLS INTO ANIMALS. THERE
20	ARE PEOPLE
21	DR. TROUNSON: BERNIE, I THINK YOU NEED TO
22	BE CAREFUL HERE BECAUSE I WAS TALKING ABOUT THE
23	INJECTION OF GAMETES INTO ANIMALS SPECIFICALLY.
24	BECAUSE I THINK A LOT OF FUNCTIONALITY REQUIRES THAT
25	YOU ACTUALLY INSERT IT INTO SOME ANIMAL TISSUE TO

1	FIGURE OUT WHETHER IT ACTUALLY WORKS, WHETHER IT
2	FUNCTIONS. THAT'S PART OF THE PROOF OF CONCEPT
3	NECESSARY FOR YOU EVER TO MOVE TO THE HUMAN.
4	CHAIRMAN LO: YOU WOULDN'T WANT IT
5	WOULD BE AWFUL TO ALLOW THAT AND TO SORT OF INJECT A
6	DERIVED LINE INTO A HUMAN BEFORE YOU'VE SHOWN IN
7	ANIMALS THAT IT DOESN'T DIFFERENTIATE INTO SOMETHING
8	YOU DON'T WANT.
9	SO WE COULD AGAIN, I THINK THE OTHER
10	WAY TO DO IT IS TO SAY THERE'S ANOTHER LINE WE DON'T
11	ALLOW PEOPLE USING THESE TYPES OF REVIEW AND CONSENT
12	TO DO REPRODUCTIVE RESEARCH TRANSPLANTATION TO OTHER
13	HUMAN BEINGS. I THINK THOSE ARE THE THINGS WE MEANT
14	TO EXCLUDE.
15	MY OWN SENSE IS THAT WE SHOULD SORT OF
16	ALLOW WRITE THE EXCEPTION TO ALLOW WHAT WE WANT
17	TO ALLOW, AND THEN LEAVE SORT OF A GRAY ZONE
18	UNADDRESSED HERE BECAUSE THEY WOULD NOW FALL UNDER
19	THE MORE RIGOROUS REVIEW AND THE MORE RIGOROUS
20	CONSENT. WE'RE NOW CARVING OUT AN EXCEPTION FROM
21	THE VERY, VERY HIGH STANDARDS OF CONSENT AND REVIEW.
22	DR. TROUNSON: JUST NEED TO SORT OF
23	RECOGNIZE THAT IF YOU ACTUALLY PUT, SAY, GERM CELLS
24	INTO A MOUSE, HUMAN GERM CELLS, YOU MIGHT END UP
25	WITH HUMAN SPERM. SO THAT, I THINK, WOULD PUT A
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1	FLAG UP IN THE SYSTEM; WHEREAS, LOOKING AT
2	FUNCTIONALITY OF NEURAL CELLS EVEN IN THE BRAIN IN
3	AN IMMUNE-COMPROMISED MOUSE IS REALLY SORT OF
4	INCREDIBLY ROUTINE AND REQUIRED. SO I THINK THE
5	DEVICE NEEDS TO RUN WITH THE AREA WHERE THE
6	COMMUNITY IS SENSITIVE ABOUT THIS.
7	DR. LOMAX: WAY THE NATIONAL ACADEMIES
8	CAPTURED THIS, AND IT IS CAPTURED IN THAT FOOTNOTE
9	ON THE SECOND SLIDE, IS THAT THEY DRAW THE LINE OF
10	DERIVE A PRODUCT FOR HUMAN TRANSPLANTATION, WHICH I
11	THINK IS A VERY CLEVER WAY OF DOING IT BECAUSE IT'S
12	NOT LIMITING IT TO THE CELLS YOU DERIVE, BUT ANY
13	SUBSEQUENT DOWNSTREAM PRODUCT INTENDED TO BE
14	TRANSPLANTED TO A HUMAN. SO I THINK THAT CONSTRUCT
15	IS SOMETHING WE CAN WORK WITHIN TO ENSURE THAT THE
16	SCOPE HERE IS VERY NARROW, VERY DISCRETE, AND
17	CONSISTENT WITH WHAT YOU'VE OUTLINED. THAT'S HOW
18	THE NATIONAL ACADEMIES ADDRESSED IT.
19	CHAIRMAN LO: YEAH, BUT THEY DIDN'T DID
20	THEY ADDRESS THE ISSUE OF TAKING A PLURIPOTENT LINE,
21	TRYING TO DERIVE GAMETES, AND THEN FERTILIZE THEM?
22	DR. LOMAX: YES. THEY TALK ABOUT FUNDED
23	RESEARCH DESIGNED OR EXPECTED TO YIELD GAMETES OR
24	BLASTOCYSTS OR DERIVE A PRODUCT FOR HUMAN
25	TRANSPLANTATION. SO THEY TRIED TO HIT EACH OF THOSE
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1	CATEGORIES.
2	CHAIRMAN LO: THEY'RE SAYING THAT IS NOT
3	FORBIDDEN. IT JUST HAS TO HAVE FULL SCRO REVIEW.
4	DR. LOMAX: THAT BUMPS UP TO THE ELEVATED
5	TOP STANDARD, HOWEVER YOU WANT TO DESCRIBE IT, YES.
6	CHAIRMAN LO: SO THAT LEAVES OPEN THE
7	QUESTION OF WHETHER SOME OF THAT RESEARCH IS THE
8	NAS DOES HAVE KINDS OF RESEARCH WHICH ARE NOT
9	APPROVABLE, AND THOSE WOULD NOT AUTOMATICALLY.
10	AGAIN, I THINK THAT IF WE'RE SAYING THAT
11	WE HAVE VERY STRICT STANDARDS EXISTING AND WE'RE
12	TRYING TO CARVE OUT AN EXCEPTION TO THAT, AND THE
13	CARVE-OUT WOULD BE DONATION OF SOMATIC CELLS,
14	DERIVATION OF IPS LINE, I'M NOT QUITE SURE WHAT
15	OTHER LANGUAGE, CHARACTERIZATION AND PROOF OF
16	PLURIPOTENCY, BUT ALSO, AS ALAN POINTED OUT, IF YOU
17	THEN DERIVE A DERIVATIVE OF A PLURIPOTENT LINE, YOU
18	WANT TO SHOW THAT IT ACTUALLY IS THE LINEAGE YOU
19	THOUGHT IT WAS AND DOES HAVE THE PROPERTIES OF THAT
20	LINE. SO IT GOES A LITTLE BEYOND THAT.
21	SO I THINK WE NEED TO I GUESS I'M
22	TRYING NOW TO STRUGGLE WITH DO WE HAVE THE CONCEPT
23	IN PLACE. I GUESS I'M GOING TO TURN IT BACK TO THE
24	COMMITTEE. A NUMBER OF YOU HAVE GIVEN VERY
25	THOUGHTFUL COMMENTS. ARE YOU COMFORTABLE WITH THAT

1	AS THE DIRECTION WE'RE GOING? SO DOROTHY, TED,
2	OTHERS WHO HAVE JOINED IN ON THIS, JEFF SHEEHY, NAME
3	THEM ALL. LET ME GET YOUR THOUGHTS ON THIS AFTER
4	OUR DISCUSSION. TED.
5	DR. PETERS: THUMBS UP.
6	CHAIRMAN LO: DOROTHY, DOES THIS
7	PROFESSOR ROBERTS: I'M COMFORTABLE WITH
8	IT JUST SO FAR WE'VE JUST TALKED ABOUT WE'RE
9	SORT OF FOCUSING ON THE SCRO REVIEW. I'M
10	COMFORTABLE AS LONG AS THE EXCEPTION IS VERY CLEARLY
11	STATED. YOU KNOW, I THINK THAT SINCE WE'RE TALKING
12	ABOUT AN EXCEPTION, IT SHOULD BE VERY CLEAR WHAT THE
13	EXCEPTION APPLIES TO.
14	CHAIRMAN LO: OKAY.
15	PROFESSOR ROBERTS: AND THE WAY IT SEEMS
16	TO BE WORDED NOW IS THERE'S THE ASTERISK FOR WHAT
17	THE EXCEPTION WOULD NOT APPLY TO, BUT I WOULD WANT
18	TO MAKE SURE THERE'S NO GRAY AREA IN BETWEEN, AND
19	IT'S CLEAR THAT THE EXCEPTION ONLY APPLIES TO THIS
20	SPECIFIC ACTIVITY.
21	CHAIRMAN LO: SO IF I MAY TRY AND SEE IF I
22	UNDERSTAND YOU. WHAT YOU'RE SAYING IS WE ACTUALLY
23	SPECIFY WHAT THE EXCEPTION IS TO THE HEIGHTENED
24	CONSENT AND OVERVIEW SO THAT IF IT'S IN THE GRAY
25	ZONE, IT WILL REQUIRE FULL SCRO REVIEW AND FULL

1	ROBUST CONSENT.
2	PROFESSOR ROBERTS: I THINK THAT'S
3	GENERALLY THE BEST WAY TO TREAT AN EXCEPTION. IT'S
4	CLEAR WHAT ACTIVITY THE EXCEPTION APPLIES TO.
5	DR. LOMAX: JUST TO MAKE A NOTE
6	PROCEDURALLY, BECAUSE I THINK THAT'S AN EXCELLENT
7	COMMENT FOR US. BUT TO REMIND EVERYONE OF THE
8	PROCESS HERE, WE TYPICALLY KIND OF GET A CONCEPTUAL
9	DECISION ABOUT SORT OF HOW WE WANT TO MOVE AN
10	AMENDMENT. WE THEN ARE OBLIGATED TO SORT OF SPELL
11	THAT OUT IN VERY PRECISE LANGUAGE, AND THEN WE HAVE
12	TYPICALLY A VERY ROBUST PUBLIC COMMENT PERIOD AND
13	OPPORTUNITY FOR REVIEW BY THE WORKING GROUP AS WELL
14	WHERE WE'LL HAVE TO COME BACK. AND WE INEVITABLY
15	WILL ALWAYS HAVE TO MAKE MODIFICATIONS.
16	SO SORT OF THE NEXT STEP IS THAT, I THINK,
17	THE NEXT LEVEL OF ANALYSIS YOU EXPECT. I JUST
18	WANTED TO EMPHASIZE THAT WE'RE KIND OF IN STAGE ONE
19	OF THE PROCESS WHERE WE SORT OF GET A CONCEPTUAL IN
20	OR OUT OF A PARTICULAR POLICY. AND THEN I THINK
21	THROUGH THE SUBSEQUENT STEPS, WE HAVE A VERY ROBUST
22	PROCESS SORT OF TO PERFORM THAT EVALUATION AND SEE
23	WHERE IT ENDS UP.
24	PROFESSOR ROBERTS: OKAY. SO LET ME
25	REFRAME THAT SINCE I'M SURE THERE WILL BE THESE
	<u> </u>

FURTHER STEPS THAT WILL THAT CLARIFY THE
EXCEPTION. BROADLY SPEAKING, I AGREE WITH THE NEED
FOR AN EXCEPTION FOR SOMATIC CELLS AS WE'VE
DISCUSSED.
CHAIRMAN LO: OKAY. THANKS, DOROTHY.
DR. CIBELLI: CAN I ADD SOMETHING? I HAVE
A WELL, IT'S SOMETHING THAT WE HAVE TO
CONTEMPLATE IN RESEARCH. MANY OF THE GREAT
DISCOVERIES HAPPEN BY CHANCE. SO WHAT IF SOMEONE IS
USING THE CELLS TO PRODUCE OTHER SOMATIC CELLS, AND
ALL OF A SUDDEN YOU START GETTING GERM CELLS IN YOUR
PLATE OR OOCYTES OR SPERM OR ANY GAMETES? WHAT
WOULD YOU DO IN THAT CASE? WILL THE CONSENT BE
DIFFERENT?
CHAIRMAN LO: WELL, AGAIN, I THINK WHAT
WE'RE ESTABLISHING HERE IS AN EXCEPTION, BUT THERE'S
NOTHING JUST BECAUSE OF THAT, A RESEARCHER MAY
SAY, YOU KNOW, TO TAKE INTO ACCOUNT, I'M GOING TO
GET REALLY FULL CONSENT OR AT LEAST CONSENT TO GO
BACK AND RECONTACT THEM TO SAY SOMETHING CAME UP
THAT WE WEREN'T ANTICIPATING, BUT WE'D LIKE TO
PURSUE IT. WE DIDN'T REALLY ASK YOU ABOUT THAT, BUT
WE WANTED TO GET YOUR PERMISSION TO DO THIS NEW LINE
OF EXPERIMENTS.
MS. LANSING: YOU'RE ESTABLISHING THE
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1	MINIMUM THAT YOU CAN DO.
2	CHAIRMAN LO: WE'RE ESTABLISHING THE
3	MINIMUM. MY OWN SENSE, BUT I'M NOT A RESEARCHER
4	HERE, IS THAT, YOU KNOW, PEOPLE MAY SAY WE'RE GOING
5	TO DO MUCH MORE THAN MINIMUM BECAUSE IT WILL MAKE
6	OUR LIFE EASIER FOR US LATER ON OR FOR OTHER
7	RESEARCHERS. BUT THAT'S GOING BEYOND WHAT WE'RE
8	DOING HERE, JUST AS CARVING OUT, AS DOROTHY PUT IT,
9	A NARROW EXCEPTION.
10	DR. TROUNSON: THAT WAS THE VIEW THAT I
11	HAD, THAT YOU SHOULDN'T IF YOU'RE JUST TRYING TO
12	DERIVE CELLS IN THE LABORATORY, IF YOU HAPPEN TO GO
13	DOWN THE GERM CELL LINEAGE AND END UP WITH SOMETHING
14	THAT IS A PRE-GAMETE, YOU WOULDN'T BE IN AWFUL
15	DIFFICULTY. I REALLY THINK THAT THE BIG PROBLEM
16	COMES IF YOU JOIN THE GAMETES IN ANY WAY TOGETHER
17	AND, HENCE, THE EMBRYO, OR IF YOU TRANSFER THOSE
18	CELLS TO AN ANIMAL AND PRODUCE GAMETES. SO MY
19	CONCERNS WERE, I THINK, IN LINE WITH WHAT YOU WERE
20	WORRIED ABOUT.
21	DR. CIBELLI: THANK YOU.
22	CHAIRMAN LO: SO WHAT I'VE PUT UP ON THE
23	BOARD HERE, I KNOW THE REST OF YOU CAN'T SEE IT, IS
24	WHAT WE'RE TALKING ABOUT IS DONATION OF SOMATIC
25	CELLS, DERIVATION OF AN IPS LINE, CHARACTERIZATION

1	OF THE CELLS IN THAT LINE, ESTABLISHING PROOF OF
2	PLURIPOTENCY. AND IF YOU THEN DERIVE A SPECIALIZED
3	CELL LINE, SUCH AS A BETA CELL TO PRODUCE INSULIN OR
4	A CARDIOMYOCYTE, THAT YOU CAN CARRY OUT THE
5	EXPERIMENTS TO PROVE THAT YOU'VE ACTUALLY DERIVED
6	THAT SPECIAL LINE, WHICH MAY INVOLVE, AS ALAN HAS
7	POINTED OUT, INJECTION INTO ANIMALS TO PROVE THAT
8	THE LINEAGE HAS REALLY BEEN DRIVEN THE WAY YOU HOPED
9	IT WOULD BE. BUT WE WOULD SAY NOT IF YOU'RE
10	INTENTIONALLY TRYING TO DERIVE GAMETES CAN YOU USE
11	THE SORT OF LIGHTER REVIEW AND THE LESS DETAILED
12	CONSENT.
13	SO, AGAIN, THIS IS PRETTY NARROW, BUT
14	WE'RE I THINK WHAT I'D LIKE TO DO IS SAY DERIVE
15	THE CELLS, USE THINGS PEOPLE ARE HOPING FOR, CURES
16	FOR DIABETES, TREATMENTS FOR DIABETES, NEUROLOGICAL
17	DEGENERATIVE DISEASES, HEART DISEASE, ALL THE OTHER
18	THINGS. DO THE WORK THAT YOU NEED TO DO TO
19	ESTABLISH THAT WE'RE READY TO START THINKING ABOUT
20	DOING HUMAN RESEARCH.
21	COMMENTS FIRST FROM THE COMMITTEE AND THEN
22	THERE MAY BE SOME MORE PUBLIC COMMENT. ANYONE ELSE
23	ON THE COMMITTEE WANT TO COMMENT ON THIS?
24	MS. LANSING: JUST TO SAY THAT I'M
25	COMFORTABLE WITH IT BECAUSE I DO THINK IT'S THE

1	MINIMUM, AND I DO KNOW THAT IT'S GOING TO BE
2	INTENSELY SCRUTINIZED.
3	CHAIRMAN LO: I GUESS, AS GEOFF SAID,
4	WE'RE GOING TO TRY SO THIS IS NOW JUST GETTING
5	THE CONCEPT. WE NEED TO VOTE ON HAVING THE CONCEPT,
6	GEOFF?
7	DR. LOMAX: I'D LIKE TO REVISIT THE ROLL
8	CALL BECAUSE LAST TIME I CHECKED, WE WERE AT 12
9	MEMBERS. AND IF WE'RE AT 13 MEMBERS, IT PUTS US
10	PAST A THRESHOLD OF WHETHER THIS IS A FORMAL
11	RECOMMENDATION OF THE WORKING GROUP OR SENSE OF THE
12	COMMITTEE. WE CAN DO THAT, BUT WE MIGHT AS WELL
13	WAIT UNTIL YOU WANT TO CALL THE QUESTION. I ALERT
14	YOU TO THE FACT THAT YOU DID WANT TO DISCUSS THE
15	ISSUES OF PAYMENTS, WHICH YOU STILL HAVEN'T
16	ADDRESSED.
17	CHAIRMAN LO: THAT'S WHAT I WAS GOING TO
18	GET TO. SO NOW, ASSUMING WE HAVE A SENSE OF THE
19	COMMITTEE THAT WE'RE GOING TO AGREE FOR THIS NARROW
20	SET OF RESEARCH TO HAVE AN EXCEPTION TO REVIEW AND
21	CONCEPT, LET'S TALK ABOUT PAYMENT.
22	THERE WERE MANY, MANY OBJECTIONS TO THE
23	IDEA OF PAYING FOR EMBRYOS OR ESPECIALLY OOCYTES TO
24	DERIVE HUMAN EMBRYONIC STEM CELL LINES. IN FACT,
25	THERE'S A PROHIBITION IN PROP 71 ABOUT PAYMENT FOR

1	OOCYTES FOR THAT PURPOSE. THERE ARE MANY REASONS
2	WHICH WE SORT OF ALLUDED TO AT THE BEGINNING OF THE
3	SESSION AS TO WHY THAT IS, THE SENSITIVITY, THE
4	RISK, THE CONCERNS ABOUT EXPLOITATION OF WOMEN,
5	COMMODIFICATION OF REPRODUCTIVE TISSUE, ETC.
6	HOWEVER, THE FACT OF LIFE IS IF A PERSON
7	UNDERGOES A SKIN BIOPSY FOR RESEARCH PURPOSES,
8	TYPICALLY, OR NOT TYPICALLY, IT'S NOT UNCOMMON FOR
9	THEM TO BE PAID SOME AMOUNT OF MONEY, 10, 25,
10	PERHAPS EVEN \$50 AS IT IS FOR OTHER TYPES OF
11	RESEARCH PARTICIPATION, USUALLY NOT PAID FOR JUST
12	DONATION OF BLOOD. AND SO THE QUESTION IS SHOULD WE
13	PERMIT PAYMENTS APPROVED BY THE LOCAL IRB TO BE MADE
14	FOR PEOPLE DONATING SOMATIC CELLS FOR THESE TYPES OF
15	NARROW RESEARCH?
16	DR. TROUNSON: BERNIE, IN ADDITION, ONE OF
17	THE MORE RECENT PUBLICATIONS HAS SUGGESTED THAT
18	LIVER CELLS ARE MUCH EASIER TO REPROGRAM. AND
19	TAKING A LIVER BIOPSY IS A LITTLE DIFFERENT THAN
20	TAKING A SKIN BIOPSY, AND I CAN WELL IMAGINE THAT
21	THERE WOULD BE SOME COMPENSATION FOR THAT.
22	CHAIRMAN LO: AGAIN, TYPICALLY THAT'S IN
23	THE SEVERAL HUNDRED DOLLARS. IN OUR INSTITUTION,
24	INVASIVE PROCEDURE LIKE LIVER BIOPSY IS 300 OR 500
25	OR MORE DOLLARS. SO, AGAIN, WE JUST HAVE TO SAY

1	THAT THERE'S A PRACTICE THAT'S OVERSEEN, REVIEWED BY
2	IRB'S, AND PERMITTED FOR PAYMENT. AND SO, AGAIN, WE
3	HAVE THIS INTERACTION.
4	ONE QUESTION IS DO WE ALLOW PAYMENT,
5	APPROPRIATE PAYMENT THAT'S NOT AN UNDUE INDUCEMENT?
6	IF WE DO ALLOW PAYMENT, THEN THAT'S GOING TO
7	INTERACT WITH BOTH THE REVIEW AND THE CONSENT.
8	CLEARLY FOR A LIVER BIOPSY, YOU'RE GOING TO HAVE A
9	MUCH MORE DETAILED CONSENT ABOUT THE RISKS OF LIVER
10	BIOPSY. AND I WOULD THINK A LIVER BIOPSY IS GOING
11	TO BE NOT SCRO NOTIFICATION, BUT IRB REVIEW BECAUSE
12	THAT'S AN INVASIVE PROCEDURE. SO IT DOESN'T
13	NECESSARILY SUPERSEDE PROTECTIONS CURRENTLY IN
14	PLACE, BUT WE SHOULD BE CLEAR THAT NOTIFYING THE
15	SCRO, BECAUSE THERE ARE NO STEM CELL-SPECIFIC
16	ETHICAL CONCERNS, DOESN'T WAIVE IRB CONCERNS ABOUT
17	HUMAN SUBJECTS PROTECTION IN TERMS OF RISK TO THE
18	DONOR.
19	SO I GUESS THE ONE QUESTION IS THRESHOLD.
20	ARE WE GOING TO SAY THAT SOME APPROPRIATE
21	COMPENSATION IS PERMITTED? BECAUSE IF NOT, THAT
22	WOULD BE A CHANGE FROM WHAT'S TYPICALLY DONE WITH
23	THESE KINDS OF BIOPSIES. FOLKS ON THE COMMITTEE,
24	WHAT DO YOU THINK? SOME OF YOU ACTUALLY COLLECT
25	TISSUE. JAMES WILLERSON IS STILL ON THE PHONE, I
	80
	1

1	KNOW WHAT THE PRACTICE YOU USUALLY DO IS. ANYBODY
2	ON THE PHONE WANT TO COMMENT ON PAYMENT TO DONORS?
3	PROFESSOR ROBERTS: AGAIN, I WONDER, AND
4	WE DIDN'T REALLY CONCLUSIVELY DECIDE ANYTHING ABOUT
5	THIS FOR THE PRIOR ISSUES, BUT IF THERE SHOULD BE A
6	DISTINCTION BETWEEN MATERIAL THAT ALREADY EXISTS
7	WHERE DONORS WERE PAID THESE MODEST PAYMENTS,
8	ALTHOUGH IT SEEMS TO BE MORE I'M LEARNING NOW WITH
9	LIVER BIOPSIES, AND PROSPECTIVELY BECAUSE I DO THINK
10	WE HAVE TO TAKE INTO ACCOUNT THAT PROPOSITION 71
11	SAYS THAT THERE SHOULD NOT BE PAYMENT.
12	MS. LANSING: IT'S PROHIBITED.
13	PROFESSOR ROBERTS: PROHIBITED, EXACTLY.
14	LET'S PUT IT MORE STRONGLY. IT'S PROHIBITED. SO WE
15	WOULD IF WE GO DOWN THIS PATH, WE WOULD BE SAYING
16	THAT, CONTRARY TO THE PROHIBITION IN PROPOSITION 71,
17	PROSPECTIVELY DONORS COULD BE YOU KNOW, IT'S OKAY
18	FOR DONORS TO BE PAID EVEN AMOUNTS NOW WE'RE SAYING
19	UP TO \$500. I THINK WE I THINK THAT POSES A
20	PROBLEM THAT WE NEED TO DISCUSS VERY CAREFULLY. I
21	DON'T THINK IT'S I DON'T THINK IT'S RIGHT TO JUST
22	CALL IT A NOMINAL PAYMENT THAT DOESN'T POSE ANY
23	PROBLEM WITH
24	DR. PETERS: IS IT RELEVANT TO DISTINGUISH
25	DONOR PAYMENTS WITH OR WITHOUT PROP 71 MONEY SO
	0.1

1	THESE GRANDFATHERED PAID DONORS STILL WOULD NOT BE
2	PAID WITH PROPOSITION 71 MONEY?
3	CHAIRMAN LO: LET ME ALSO, DOROTHY, ASK
4	YOU. THERE ARE LEGAL ISSUES IN THAT WE ARE BOUND BY
5	PROP 71. I GUESS THE OTHER ISSUES ARE ETHICAL
6	ISSUES. ARE THERE ETHICAL CONCERNS EVEN IN THE
7	ABSENCE OF PROP 71 YOU WOULD HAVE ABOUT PAYING
8	SOMATIC CELL DONORS FOR THEIR TISSUE?
9	PROFESSOR ROBERTS: WELL, I THINK EVEN
10	THOUGH IT DOESN'T RISE PERHAPS TO THE LEVEL OF
11	CONCERN OR THE SAME KIND OF CONCERN AS WITH GAMETE
12	DONORS, THERE STILL IS, AGAIN, ESPECIALLY IF WE'RE
13	TALKING EVEN WITH PAYMENTS OF \$50, BUT CERTAINLY
14	WITH 300 AND \$500, THAT IS AN INDUCEMENT FOR SOMEONE
15	WHO IS IN DESPERATE NEED OF MONEY TO DONATE THEIR
16	TISSUE. SO, AGAIN, I THINK IT DOES RAISE THE SAME
17	KIND OF ETHICAL CONCERN EVEN THOUGH IT'S AT A
18	DIFFERENT LEVEL THAN WITH EGG DONATION.
19	DR. KIESSLING: BERNIE, CAN SOMEBODY
20	CLARIFY FOR ME? DOES PROP 71 SPECIFICALLY TALK
21	ABOUT ANY KIND OF DONATION?
22	CHAIRMAN LO: LET ME I JUST LOOKED UP
23	PROP 71. AND IT SAYS THE ICOC SHALL ESTABLISH
24	STANDARDS AS FOLLOWS: NO. 3, PROHIBITION OF
25	COMPENSATION. STANDARDS PROHIBITING COMPENSATION TO

1	RESEARCH DONORS OR PARTICIPANTS WHILE PERMITTING
2	REIMBURSEMENT OF EXPENSES. SO IT DOESN'T SAY OOCYTE
3	DONORS OR EMBRYONIC DONORS. IT SAYS RESEARCH
4	DONORS.
5	PROFESSOR ROBERTS: YEAH. THAT WAS MY
6	UNDERSTANDING. IT COVERS ANY KIND OF DONATION IN
7	CONNECTION WITH THIS RESEARCH EXCEPT AND THEN
8	THERE'S THE ISSUE OF NON-CIRM MONEY BEING PAID.
9	AGAIN, THAT SAME BASIC QUESTION I WAS RAISING BEFORE
10	OF ARE WE TALKING ABOUT TISSUE THAT ALREADY EXISTS
11	OR PERHAPS WILL BE CREATED FOR OTHER KINDS OF
12	RESEARCH, OR TO TISSUE THAT IS PAID FOR WITH CIRM
13	MONEY PROSPECTIVELY? I THINK AT THIS POINT THE
14	MATERIALS WE RECEIVED DIDN'T MAKE THAT DISTINCTION.
15	DR. LOMAX: THAT'S CORRECT. ACTUALLY
16	THAT'S AN EXCELLENT DISTINCTION. I'LL TAKE FULL
17	CREDIT FOR THAT OVERSIGHT. AND I APPRECIATE THE
18	COMMENT, AND I THINK WE SHOULD GET AN OPINION THERE.
19	THE MATERIALS WERE INTENDED TO ADDRESS,
20	JUST LIKE THE PREVIOUS SESSION, THE PROCEDURES
21	RELATED TO EXISTING BANKING EFFORTS. SO IT WASN'T
22	CONTEMPLATED THAT IT WAS CIRM FUNDS. BUT
23	NONETHELESS, IT'S AN EXCELLENT QUESTION. I THINK WE
24	SHOULD, YOU KNOW, GET AN OPINION ON THAT.
25	BUT TO CLARIFY KIND OF THE GENESIS OF THE

1	QUESTION, BUT THANK YOU FOR POINTING THAT OUT
2	BECAUSE IT WAS AN OVERSIGHT, AND MY APOLOGIES ON
3	THAT FRONT.
4	CHAIRMAN LO: SO IT STRIKES ME THAT
5	DOROTHY'S VERY HELPFUL DISTINCTION BETWEEN
6	PROSPECTIVELY COLLECTED RESEARCH MATERIALS AND
7	ALREADY EXISTING RESEARCH MATERIALS MIGHT BE USEFUL.
8	IT SEEMS TO ME THAT, AGAIN, I'M NOT A LAWYER OR A
9	LAW PROFESSOR, BUT THE CLEAR LANGUAGE OF THE PROP 71
10	SEEMS TO SAY TO ME YOU CAN'T PAY COMPENSATION TO
11	RESEARCH DONORS BEYOND EXPENSES. AND I THINK THAT
12	IT WOULD BE HARD TO SORT OF ARGUE THAT GOING
13	FORWARD.
14	I THINK WE MAY MAKE THE ARGUMENT THAT IF
14 15	I THINK WE MAY MAKE THE ARGUMENT THAT IF THEY'VE ALREADY BEEN PAID IN THE PAST AND THE
15	THEY'VE ALREADY BEEN PAID IN THE PAST AND THE
15 16	THEY'VE ALREADY BEEN PAID IN THE PAST AND THE MATERIAL IS ALREADY EXISTING, AS WE'VE DONE WITH IVF
15 16 17	THEY'VE ALREADY BEEN PAID IN THE PAST AND THE  MATERIAL IS ALREADY EXISTING, AS WE'VE DONE WITH IVF  OOCYTES THAT WERE PAID FOR AND ARE NOW FROZEN AND
15 16 17 18	THEY'VE ALREADY BEEN PAID IN THE PAST AND THE  MATERIAL IS ALREADY EXISTING, AS WE'VE DONE WITH IVF  OOCYTES THAT WERE PAID FOR AND ARE NOW FROZEN AND  OTHERWISE TO BE DESTROYED, THAT THERE'S NO WAY THAT
15 16 17 18 19	THEY'VE ALREADY BEEN PAID IN THE PAST AND THE MATERIAL IS ALREADY EXISTING, AS WE'VE DONE WITH IVF OOCYTES THAT WERE PAID FOR AND ARE NOW FROZEN AND OTHERWISE TO BE DESTROYED, THAT THERE'S NO WAY THAT ALLOWING THOSE TO BE USED FOR RESEARCH IN ANY WAY
15 16 17 18 19 20	THEY'VE ALREADY BEEN PAID IN THE PAST AND THE MATERIAL IS ALREADY EXISTING, AS WE'VE DONE WITH IVF OOCYTES THAT WERE PAID FOR AND ARE NOW FROZEN AND OTHERWISE TO BE DESTROYED, THAT THERE'S NO WAY THAT ALLOWING THOSE TO BE USED FOR RESEARCH IN ANY WAY WAS AN UNDUE INFLUENCE ON THE ORIGINAL DECISION OR
15 16 17 18 19 20 21	THEY'VE ALREADY BEEN PAID IN THE PAST AND THE MATERIAL IS ALREADY EXISTING, AS WE'VE DONE WITH IVF OOCYTES THAT WERE PAID FOR AND ARE NOW FROZEN AND OTHERWISE TO BE DESTROYED, THAT THERE'S NO WAY THAT ALLOWING THOSE TO BE USED FOR RESEARCH IN ANY WAY WAS AN UNDUE INFLUENCE ON THE ORIGINAL DECISION OR HAD PEOPLE TAKING ON RISKS THEY OTHERWISE WOULDN'T
15 16 17 18 19 20 21	THEY'VE ALREADY BEEN PAID IN THE PAST AND THE MATERIAL IS ALREADY EXISTING, AS WE'VE DONE WITH IVF OOCYTES THAT WERE PAID FOR AND ARE NOW FROZEN AND OTHERWISE TO BE DESTROYED, THAT THERE'S NO WAY THAT ALLOWING THOSE TO BE USED FOR RESEARCH IN ANY WAY WAS AN UNDUE INFLUENCE ON THE ORIGINAL DECISION OR HAD PEOPLE TAKING ON RISKS THEY OTHERWISE WOULDN'T HAVE TAKEN ON.
15 16 17 18 19 20 21 22 23	THEY'VE ALREADY BEEN PAID IN THE PAST AND THE MATERIAL IS ALREADY EXISTING, AS WE'VE DONE WITH IVF OOCYTES THAT WERE PAID FOR AND ARE NOW FROZEN AND OTHERWISE TO BE DESTROYED, THAT THERE'S NO WAY THAT ALLOWING THOSE TO BE USED FOR RESEARCH IN ANY WAY WAS AN UNDUE INFLUENCE ON THE ORIGINAL DECISION OR HAD PEOPLE TAKING ON RISKS THEY OTHERWISE WOULDN'T HAVE TAKEN ON. SO I THINK IT'S ONE THING TO SAY WE'LL

1	DIFFERENT THAN SAYING GOING FORWARD WE'RE GOING TO
2	ALLOW PAYMENTS. NOBODY EVEN SAID \$5 NOMINAL FOR A
3	SKIN BIOPSY IS A LOT DIFFERENT THAN \$500 FOR A LIVER
4	BIOPSY, WHICH IS MUCH RISKIER.
5	GEOFF, I DON'T KNOW IF IT MAKES SENSE TO
6	SAY THAT THE DOLLAR ISSUE SHOULD BE AN EXEMPTION
7	ONLY FOR EXEMPTION FROM THE PROHIBITION OF
8	PAYMENT ONLY FOR EXISTING MATERIALS IN EXISTENCE AT
9	THE TIME THE RESEARCH WAS BEING PROPOSED AS OPPOSED
10	TO PROSPECTIVELY COLLECTING NEW RESEARCH MATERIALS.
11	THIS WOULD RAISE PROBLEMS WITH THE LIVER BIOPSY.
12	DR. TAYLOR: WHY CAN'T WE JUST GO BACK TO
13	THE GRANDFATHERING CLAUSE THAT GEOFF KIND OF
14	REPORTED AT THE BEGINNING? IT SEEMS TO ME THAT
15	THERE'S A POINT IN TIME, AND WE DON'T REALLY HAVE TO
16	PUT A DOLLAR AMOUNT AT ALL. WE CAN SAY I HEAR
17	WHERE THE CONVERSATION IS GOING TO GO BECAUSE REALLY
18	FROZEN LIVER CELLS DON'T REALLY GROW OUT THE WAY YOU
19	CAN GET LEUKOCYTES TO GROW. SO SOME OF THE SAMPLES
20	THAT WERE COLLECTED IN THE PAST MIGHT NOT BE
21	PARTICULARLY HELPFUL.
22	BUT I DO THINK THAT WE'RE IN TROUBLE AS
23	WE'VE BEEN ALL ALONG KIND OF GOING FORWARD GIVEN THE
24	WAY THE LAW WAS WRITTEN, BUT IT SEEMS TO ME THAT THE
25	GRANDFATHER CLAUSE THAT YOU ALREADY HAVE IN PLACE

1	MIGHT COVER THIS.
2	CHAIRMAN LO: I THINK THAT'S RIGHT.
3	GRANDFATHERING IS CONCEPTUALLY DIFFERENT THAN
4	PROSPECTIVELY COLLECTING MATERIALS. WITH
5	PROSPECTIVELY COLLECTED MATERIALS, IT STRIKES ME,
6	THERE AGAIN, WE MAY WANT TO DISTINGUISH DIFFERENT
7	CIRCUMSTANCES. ONE IS THAT CIRM ACTUALLY IS A
8	CIRM-FUNDED RESEARCHER IS ACTUALLY CARRYING OUT THE
9	RESEARCH TO DERIVE, CHARACTERIZE THESE IPS CELLS,
10	AND TO CREATE A SPECIALIZED LINEAGE.
11	THE OTHER ISSUE IS IS A CIRM RESEARCHER
12	GOING TO BE ALLOWED TO USE LINES THAT SOMEONE ELSE
13	DERIVED WITHOUT CIRM FUNDING, BUT WAS DONE UNDER
14	OTHER AUSPICES THAT PERMIT THE LIVER DONOR, BIOPSY
15	DONOR, TO BE PAID IN ACCORDANCE WITH IRB APPROVAL,
16	AND NOW CIRM RESEARCHER SAYING THIS IS THE BEST LINE
17	OUT THERE. THIS REALLY IS A TERRIFIC LINE. I'D
18	LIKE TO USE IT. THERE'S NO CIRM MONEY INVOLVED, BUT
19	IS IT AN ACCEPTABLY DERIVED LINE, GEOFF, IN OUR
20	STANDARDS? THAT STRIKES ME AS YET ANOTHER SITUATION
21	WE'RE GOING TO HAVE TO THINK ABOUT.
22	I WOULD SUGGEST RIGHT NOW ARE WE AGREED,
23	IS THERE FEELING FOR ALLOWING GRANDFATHERING OF
24	PAYMENT APPROVED BY AN IRB FOR MATERIALS ALREADY IN
25	EXISTENCE AT THE TIME THE IPS RESEARCH IS BEING

1	CONTEMPLATED? SO IT'S A GRANDFATHERING CLAUSE, AND
2	THE RATIONALE FOR IT WOULD BE THE DONATION AND THE
3	RISK HAVE ALREADY TAKEN PLACE, THERE CAN BE NO UNDUE
4	INDUCEMENT TO SOMETHING THAT'S ALREADY HAPPENED IN
5	TIME.
6	DR. LOMAX: TO JUST SORT OF INTERJECT,
7	WITH ALL DUE RESPECT, IF THE DETERMINATION, THOUGH,
8	IS IS IT ANY PAYMENT WHATSOEVER OR PAYMENT WITH CIRM
9	FUNDS, UNTIL WE RESOLVE THAT QUESTION SEEMS, AND
10	PROFESSOR ROBERTS, I'M DEFERRING TO YOU HERE FOR
11	JUDGMENT, WOULDN'T THAT QUESTION SORT OF TRUMP, IF
12	YOU WILL, ANY SORT OF TEMPORAL ASPECT OF WHEN THE
13	LINES WERE ACQUIRED? I'M JUST TRYING TO THINK SORT
14	OF IN TERMS OF ORDER OF OPERATION BECAUSE WE MAY NOT
15	BE ABLE TO RESOLVE THIS TODAY IF THAT'S THE
16	OVERARCHING QUESTION.
17	MS. LANSING: I THOUGHT IF THE LINES,
18	MAYBE I'M MISUNDERSTANDING THIS AND CONFUSING THIS
19	AS A LAYPERSON, BUT SOMETHING WAS DONE BEFORE THE
20	PROPOSITION WAS PASSED, THEN THEY WERE SAFE. WE'RE
21	ALREADY USING THOSE, AREN'T WE?
22	DR. TAYLOR: THAT'S THE RIGHT
23	INTERPRETATION, I THINK.
24	PROFESSOR ROBERTS: YEAH.
25	MS. LANSING: NOBODY COULD HAVE BEEN BE

DOING IT FOR MONEY BECAUSE THERE WAS NO PROPOSITION
THEN.
DR. PRIETO: WE COULDN'T VERY WELL IMPOSE
OUR STANDARDS ON PEOPLE WHO WERE DOING SOMETHING
BEFORE WE EXISTED.
MS. LANSING: SO THAT'S OKAY BECAUSE
NOBODY COULD HAVE BEEN EXPLOITED.
PROFESSOR ROBERTS: RIGHT. I THINK I
AGREE. THAT'S MY INTERPRETATION AS WELL. BUT WAS
THERE ANOTHER QUESTION ABOUT, EVEN IF THAT'S TRUE,
IF THAT'S STILL
DR. LOMAX: IT WAS A QUESTION THAT TED
PETERS RAISED ABOUT IS THERE A DISTINCTION BETWEEN
THE PAYMENT SOURCE, IF YOU WILL, CIRM FUNDS VERSUS
FUNDS UNRELATED.
PROFESSOR ROBERTS: I THINK THAT QUESTION
THEN IS RAISED BY RESEARCH BY USING CELLS THAT
WERE COLLECTED AFTER THE REGULATION BECAUSE THEN THE
QUESTION IS DOES IT MATTER IF CIRM MONEY WAS USED TO
PAY FOR THE MATERIAL THAT WAS USED IN THE RESEARCH.
DR. PRIETO: QUESTION. WOULDN'T THIS, I
DON'T KNOW, EVEN INADVERTENTLY SET UP A SITUATION
WHERE WE WOULD PERHAPS INDUCE RESEARCHERS TO
COMPARTMENTALIZE CERTAIN ACTIVITIES JUST TO GET
AROUND THAT KIND OF RESTRICTION?
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1	PROFESSOR ROBERTS: YES. I AGREE. I
2	THINK IT'S
3	DR. PRIETO: SO THAT DOESN'T ANSWER ANY
4	ETHICAL CONCERNS IF THEY DO THAT.
5	DR. TAYLOR: I DON'T THINK THE PROP 71 LAW
6	SAYS ANYTHING ABOUT THEY CAN'T BE PAID WITH CIRM
7	MONEY. THEY SAY THEY CAN'T BE PAID.
8	PROFESSOR ROBERTS: EXACTLY. I AGREE. I
9	WASN'T ENDORSING THAT DISTINCTION. I WAS JUST
10	INTERPRETING THE DISTINCTION, BUT I THINK OR
11	RESTATING IT. TO ME IT'S THE PAYMENT OF MONEY FOR
12	THE DONATION IS THE ISSUE, WHETHER IT'S WITH CIRM
13	MONEY OR NOT, BUT A CIRM-FUNDED RESEARCHER USING
14	MATERIAL THAT WAS PAID FOR IS THE PROBLEM.
15	MS. LANSING: BUT NOT BEFORE THE BILL WAS
16	PASSED.
17	PROFESSOR ROBERTS: YES. YES. I THINK
18	MY SENSE IS WE'RE AGREEING.
19	DR. PRIETO: I THINK WE AGREE.
20	PROFESSOR ROBERTS: I AGREE WITH THAT AS
21	WELL. I'M REALLY CONCERNED ABOUT THIS PROSPECTIVE.
22	DR. TROUNSON: ONE THING THAT'S GOING TO
23	HAPPEN, OF COURSE, AS FAR AS I CAN SEE, IS THAT YOU
24	REALLY WON'T HAVE DONORS COMING IN TO DONATE LIVER
25	TISSUE BECAUSE, YOU KNOW, WHO WOULD DO IT. IT'S THE
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1	SAME CATEGORY AS DONATING EGGS WITHOUT ANY
2	COMPENSATION WHEN ONE WANTS TO DO IT.
3	WHAT I THINK IS A BIT OF A CONCERN IS THAT
4	WHAT WILL HAPPEN IS THAT THE PATIENTS WILL DO IT.
5	YOU KNOW, YOU'LL ACTUALLY ENCOURAGE PEOPLE WHO'VE
6	GOT DISEASES WHO ARE PROBABLY WHO COULD EVEN BE
7	QUITE SICK TO COME IN AND DONATE THE MATERIAL
8	BECAUSE IN THE INTEREST OF GETTING THE FIELD
9	WORKING. SO I THINK WE JUST NEED TO BE THOUGHTFUL
10	ABOUT THAT. IF THAT IS THE PRACTICAL OUTCOME, IT
11	MIGHT BE SOMETHING THAT WE COULD REGRET.
12	PROFESSOR ROBERTS: BUT THAT ISSUE WAS
13	DECIDED BY THE VOTERS OF CALIFORNIA WHEN THEY VOTED
14	FOR PROP 71 WITH THIS RESTRICTION IN IT.
15	MR. SHEEHY: ONE THING TO PUT INTO
16	PERSPECTIVE ABOUT PROP 71 IS THAT NO ONE IMAGINED
17	IPS, SO I DON'T THINK ANYONE REALLY IMAGINED THAT
18	SOMATIC CELLS WERE AT STAKE. SO PEOPLE WERE
19	THINKING OF PRIMARILY OOCYTES, I THINK, WAS THE
20	CONSIDERATION IF YOU ARE LOOKING AT LEGISLATIVE
21	INTENT AND WHAT PEOPLE THOUGHT THEY WERE VOTING FOR.
22	CAN I JUST GET AS A BACKGROUND, AND I
23	THINK ISN'T THERE ALREADY WHAT IS THE STATE,
24	NOT TALKING ABOUT IPS, NOT TALKING ABOUT STEM CELL
25	RESEARCH, WHAT TYPES OF MATERIALS WHAT IS THE
	90

1	STATE OF RESEARCH NOW? ARE THERE CERTAIN MATERIALS
2	THAT PEOPLE ARE GENERALLY PAID TO DONATE FOR
3	RESEARCH OF WHICH NO ONE HAS ANY SPECIFIC CONCERNS
4	AND THAT THESE ARE KIND OF DONE THROUGH THE SOME
5	SORT OF ROUTINE IRB REGULATORY PROCESS? I JUST
6	DON'T KNOW WHAT HAPPENS. JUST FORGET ABOUT STEM
7	CELL RESEARCH. ARE PEOPLE DONATING SOMATIC CELLS
8	FOR PAYMENT IN OTHER CONTEXTS?
9	CHAIRMAN LO: ABSOLUTELY. EVEN LIVER
10	CELLS. THERE'S RESEARCH GOING ON WHERE PEOPLE
11	DONATE WELL, DONATE MAY NOT BE THE RIGHT WORD
12	BECAUSE THEY'RE OFTEN COMPENSATED. BUT SKIN CELLS,
13	BUT LIVER CELLS, BONE MARROW BIOPSIES, ALL KINDS OF
14	CELLS, AND TYPICALLY WHAT SCIENTISTS HAVE FOUND IS
15	THAT WITHOUT SOME SORT OF COMPENSATION, YOU JUST
16	DON'T GET PEOPLE DONATING. AND THIS IS ALL OVERSEEN
17	BY THE IRB. SO THE IRB REVIEWS THE PROTOCOL, IT'S A
18	FULL PROTOCOL REVIEW, AND THEY HAVE TO REVIEW IT
19	WITH THE VIEW OF WHETHER THE AMOUNT OF PAYMENT IS AN
20	UNDUE INFLUENCE.
21	THERE ALSO, BY THE WAY, IS A SCHOOL OF
22	THOUGHT THAT IF YOU DON'T PAY PEOPLE WHO UNDERGO
23	RISKS FOR RESEARCH, YOU'RE TAKING ADVANTAGE OF THEM
24	BECAUSE THEY'RE UNDERGOING THE RISKS. THEY OFTEN DO
25	NOT IF THERE'S A COMPLICATION, UNLIKE WHAT WE PUT

1	IN PLACE FOR OOCYTE DONORS, THERE'S NO GUARANTEE IN
2	ALMOST ALL INSTITUTIONS THAT CARE WILL BE COVERED
3	WITH NO COST CARE FOR DIRECT AND PROXIMATE
4	COMPLICATIONS OF THE RESEARCH PROCEDURE IS NOT
5	NECESSARILY COVERED AT NO COST TO THE PATIENT.
6	SO THERE ARE CONCERNS ABOUT PAYING TOO
7	LITTLE AS WELL AS PAYING TOO MUCH. MY SENSE IS THAT
8	THIS IS NOT SOMETHING WE SHOULD TRY AND DECIDE
9	TODAY. WE SHOULD PROBABLY CARVE OUT A NARROW
10	EXCEPTION. WE SHOULD HIGHLIGHT THIS, PARTICULARLY
11	THE LIVER BIOPSY ISSUE BEING A PROBLEM, AND LOOK AT
12	THE SCIENCE, THE ETHICS, AND THE LAW BECAUSE I THINK
13	IT MAY WELL BE THAT THE CONCERNS THAT, I AGREE WITH
14	JEFF SHEEHY, THAT THE UNDERLYING CONCERNS THAT DROVE
15	PROP 71 WAS THE IDEA OF PAYING PEOPLE FOR
16	REPRODUCTIVE MATERIALS.
17	IT WASN'T JUST THE NOTION OF UNDUE
18	INDUCEMENT TO HAVE WOMEN UNDERGO UNACCEPTABLE RISKS
19	BECAUSE OF THE MONEY, BUT ALSO THERE WAS A NOTION
20	THAT YOU SHOULDN'T HAVE COMMERCIAL TRANSACTIONS
21	INVOLVING REPRODUCTIVE MATERIALS BECAUSE SOMEHOW
22	THAT WAS COMMODIFYING SOMETHING THAT SHOULDN'T BE
23	COMMODIFIED.
24	NOW, WE CAN ARGUE ABOUT WHETHER THAT'S AN
25	APPROPRIATE PHILOSOPHICAL POSITION, BUT I THINK THAT

1	WAS PART OF WHAT DROVE THIS. I'M NOT SURE THERE ARE
2	CONCERNS ABOUT COMMODIFYING SKIN CELLS AND LIVER
3	CELLS. I THINK THE ISSUE'S REALLY SORT OF A PAYMENT
4	TO RESEARCH SUBJECTS, IS THAT AN UNDUE INDUCEMENT?
5	BUT THAT RUNS THROUGHOUT ALL RESEARCH. SO I WOULD
6	SUGGEST WE NOT TRY AND SOLVE THIS, BUT JUST TODAY
7	SEE IF WE AGREE ON THE GRANDFATHERING CLAUSE.
8	AND LET ME JUST POINT OUT THAT WE HAD A
9	DIFFERENT CRITERIA FOR THE CUTOFF DATE WHEN THE ICOC
10	ACTUALLY GRANDFATHERED IN EMBRYOS CREATED IN AN IVF
11	CONTEXT, NOW FROZEN AND DONATED TO RESEARCH, AS AN
12	ALTERNATIVE TO BEING THAWED AND DESTROYED. WE SET
13	THE CUTOFF DATE, NOT THE PASSAGE OF PROP 71, BUT THE
14	CUTOFF DATE FOR THE ACTION OF THE ICOC.
15	SO DOROTHY MAY WANT TO COMMENT ON THIS AS
16	A LEGAL EXPERT, LEGAL SCHOLAR. OBVIOUSLY WE HAVE
17	COUNSEL HERE WE HAVE TO CONSULT, BUT THERE'S THAT
18	TIME PERIOD BETWEEN THE PASSAGE OF PROP 71 AND WHERE
19	WE'RE ALLOWING FROZEN EMBRYOS WITH PAID OOCYTES IN
20	IVF TO BE USED AS GRANDFATHERED IN. WHETHER LEGALLY
21	AS A MATTER OF LAW POLICY THAT'S ACCEPTABLE OR NOT
22	IS SOMETHING WE WOULD CERTAINLY WELCOME YOUR
23	THOUGHTS ON. IT HASN'T COME UP BEFORE TODAY.
24	PROFESSOR ROBERTS: WELL, BUT THAT'S
25	ALREADY HAPPENED, RIGHT? THAT'S

1	CHAIRMAN LO: ICOC ACTED BACK IN AUGUST,
2	WAS IT?
3	DR. LOMAX: CORRECT. BUT WE ARE
4	REVISITING THAT TODAY.
5	PROFESSOR ROBERTS: THAT'S TRUE, BUT NOT
6	THAT DATE, ARE WE?
7	CHAIRMAN LO: WELL, THAT'S COMING UP NEXT.
8	ARE WE GLAD YOU'RE HERE.
9	PROFESSOR ROBERTS: I'LL DO MY BEST.
LO	DR. KIESSLING: THE NEW ENGLAND JOURNAL
L1	HAD AN ARTICLE TWO OR THREE YEARS AGO THAT REVIEWED
L2	ALL OF THE MODELS FOR COMPENSATING HUMAN SUBJECTS
L3	FOR RESEARCH. AND SO IT MIGHT BE REALLY HELPFUL IF
L4	THAT WERE DISTRIBUTED TO THE COMMITTEE JUST SO THAT
L5	THEY CAN SEE THE THINKING THAT'S GONE INTO THIS IN
L6	THE PAST.
L7	CHAIRMAN LO: THERE'S AN EXTENSIVE
L8	LITERATURE ON THAT. ACTUALLY IT'S CHRISTINE GRADY
L9	AND COLLEAGUES AT NIH. SINCE THEN, THEY'VE DONE
20	FURTHER WORK ON THAT. I CAN SORT OF GET THEIR
21	LATEST THINKING. THIS IS SOMETHING THAT HAS
22	PERPLEXED SCIENTISTS, IRB'S, AND ETHICISTS WORKING
23	IN THE RESEARCH AREA, SORT OF WHAT AMOUNT OF PAYMENT
24	IS THE APPROPRIATE AMOUNT TO PAY A RESEARCH SUBJECT
25	WHO UNDERGOES RISKS IN ORDER TO BENEFIT SCIENCE AND
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SOCIETY. IT'S A TOUGH ISSUE. YOU'RE RIGHT. SO WE
CAN CERTAINLY GET THOSE ARTICLES.
DR. PRIETO: I WOULD CERTAINLY APPRECIATE
THOSE.
PROFESSOR ROBERTS: IS THERE ANYTHING THAT
COULD HELP US ON THIS PROBLEM OF THE LANGUAGE OF
PROPOSITION 71? I REALLY UNDERSTAND THE ARGUMENT,
THAT THE VOTERS AND THE DRAFTERS WEREN'T THINKING OF
SOMATIC CELLS AT THE TIME, BUT THE LANGUAGE COVERS
SOMATIC CELL, IT COVERS ALL DONATIONS.
CHAIRMAN LO: IT'S BROAD LANGUAGE,
ABSOLUTELY.
DR. TAYLOR: I WOULD ARGUE THAT ONCE WE
GET THAT THROUGH, THEN I WOULD THINK IT'S COMPLETELY
UNETHICAL NOT TO OFFER WOMEN \$500 OR WHATEVER WE SET
AS OUR MAXIMUM FOR THE RISK OF UNDERGOING OOCYTE
DONATION.
PROFESSOR ROBERTS: SO THAT'S ANOTHER
ISSUE, THAT EVEN IF WE THOUGHT THAT IT WAS OKAY TO
ALLOW FOR THIS, FOR PAYMENT FOR SOMATIC CELL
DONATION, BECAUSE THAT'S NOT WHAT PROPOSITION 71
REALLY REFERS TO, IT'S GOING TO HAVE AN IMPACT ON
WHAT WE KNOW PROPOSITION 71 REALLY REFERS TO, OOCYTE
DONATION. SO
DR. TAYLOR: EXACTLY. IF I CAN MAKE A
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1	PLEA, BERNIE, EVERY OTHER MEETING WE GO THROUGH THIS
2	THING OVER AND OVER AGAIN. I AM PERSONALLY IN FAVOR
3	OF PAYING EVERYBODY. I ALSO KIND OF GET NERVOUS NOT
4	BEING A LEGAL PERSON. WHEN SOMETHING IS WRITTEN AS
5	LAW, I TEND TO TAKE IT RELATIVELY SERIOUSLY.
6	PROFESSOR ROBERTS: THANK YOU. SO DO I.
7	I THINK IT'S A REAL I DON'T THINK WE CAN JUST SAY
8	THAT'S NOT WHAT PROPOSITION 71 MEANT.
9	DR. TAYLOR: CAN'T SOMEBODY ACTUALLY JUST
10	KIND OF GO AFTER THE LAW, NOT OUR COMMITTEE, BUT
11	SOMEBODY WHO REALLY DOES THAT SORT OF THING AND JUST
12	TRY TO CHANGE IT AND MAKE IT REASONABLE BECAUSE IT
13	IS UNREASONABLE, BUT I DON'T KNOW HOW WE'RE GOING TO
14	GET AROUND IT.
15	DR. TROUNSON: BERNIE, THERE'S A BIG
16	PROBLEM IN CHANGING, YOU KNOW, THOSE RULES BECAUSE
17	IT IS IN PROPOSITION 71. IT TAKES TWO-THIRDS VOTE
18	FROM BOTH HOUSES TO DO THAT. IT'S MOST UNLIKELY
19	THAT YOU WOULD EVER GET THAT TO HAPPEN.
20	I THINK THE BROAD STRUCTURE OF THE WAY
21	IT'S WRITTEN WOULDN'T ALLOW THE AGENCY TO IN ANY WAY
22	COMPENSATE PATIENTS FOR ANY DONATED MATERIAL BECAUSE
23	THE LEGAL SITUATION IS PRETTY CLEAR, THAT IT'S NOT
24	CONFINED, DESPITE WHAT GEOFF SAID, IT'S NOT CONFINED
25	TO SIMPLY OOCYTES OR EVEN EMBRYOS. WE HAVE A BIG

1	PROBLEM ABOUT CHANGING THAT LAW, AND I THINK IT'S
2	MOST UNLIKELY THAT IT'S GOING TO HAPPEN.
3	DR. TAYLOR: WILL WE BE ABLE TO COME UP
4	WITH GUIDELINES OURSELVES, THOUGH, THAT WILL GET
5	AROUND IT?
6	PROFESSOR ROBERTS: I WOULD NOT ADVISE
7	THAT.
8	MS. LANSING: THAT WOULD BE TERRIBLE
9	GUIDANCE.
10	PROFESSOR ROBERTS: I THINK WE HAVE TO
11	ABIDE BY WHAT THE PROPOSITION SAYS, WHICH IS NO
12	PAYMENT FOR DONATION.
13	CHAIRMAN LO: IF THAT'S THE CASE AND
14	THAT'S WHERE WE ARE NOW, DOROTHY, I'LL CONTACT YOU
15	OFF LINE AND ASK YOU TO HELP US THINK THIS THROUGH
16	AT THE NEXT MEETING. THEN WE HAVE A REAL PROBLEM IN
17	THAT IF IT, IN FACT, IS THE CASE THAT OUR SCIENTIFIC
18	ADVANTAGES TO TRYING TO REPROGRAM LIVER CELLS OR
19	OTHER CELLS THAT ONE HAS TO OBTAIN WITH A MORE
20	INVASIVE PROCEDURE THAN A SKIN BIOPSY, AND WE WANT
21	CIRM SCIENTISTS TO BE ABLE TO USE THOSE CELLS
22	BECAUSE OF THE SCIENTIFIC VALUE, THEN ARE WE GOING
23	TO PERMIT CIRM-FUNDED RESEARCHERS TO USE THOSE CELLS
24	THAT SOMEONE ELSE PAID THE LIVER DONOR FOR? THAT'S
25	ONE QUESTION.

1	IF THE CELLS IF SOMEONE DID IT TOTALLY
2	INDEPENDENTLY AND NOW A CIRM RESEARCHER WANTS TO USE
3	IT, THERE'S NO CONNECTION BEFORE THE DERIVATION OF
4	CELLS. OR ALTERNATIVELY I CAN IMAGINE A CIRM
5	RESEARCHER SAYING, LOOK, I WANT TO DO THIS. I CAN'T
6	DO IT WITH CIRM FUNDS, BUT I'M GOING TO SORT OF GET
7	OUTSIDE FUNDS FROM WHATEVER SOURCE TO PAY LIVER
8	DONORS TO GET THE TISSUE TO DERIVE THE CELL LINE,
9	AND THEN APPLY FOR CIRM FUNDS TO, IN A SENSE,
10	ALTHOUGH IT'S NOT USING CIRM FUNDING, IT'S REALLY
11	PART AND PARCEL OF THE CIRM RESEARCH GRANT AND MAY
12	BE ACTUALLY PART OF THE DISEASE TEAM HYPOTHETICALLY.
13	SO I THINK WE NEED TO THINK THROUGH EVEN
14	IF WE DON'T PAY, WHAT CONDITIONS, IF ANY, ARE WE
15	GOING TO SET ON THE USE OF CIRM RESEARCHERS USING
16	LINES DERIVED BY OTHERS WHERE THEY PAID DONORS.
17	DR. PRIETO: MAYBE YOU ADDRESSED THIS
18	EARLIER AND I JUST DIDN'T HEAR, BUT WHERE ARE OTHER
19	BODIES LIKE THE NATIONAL ACADEMIES AND, FOR THAT
20	MATTER, INTERNATIONAL BODIES COMING DOWN ON THIS
21	ISSUE?
22	CHAIRMAN LO: WELL, NATIONAL ACADEMY,
23	AGAIN, THEY TOOK A MUCH NARROWER APPROACH. THEIR
24	GUIDELINES OPPOSE PAYMENT FOR OOCYTES. THEY DID NOT
25	HAVE AS SWEEPING A BAN ON RESEARCH DONORS OR

1	PARTICIPANTS AS WE HAVE. SO THEY DON'T HAVE A
2	PROBLEM. THEY CARVED OUT OOCYTES AS BEING A
3	SPECIAL NOW, THERE ARE OTHER ISSUES WITH EQUITY
4	BETWEEN LIVER DONORS AND OOCYTE DONORS, SO THAT'S
5	NOT AN ISSUE ELSEWHERE. IT'S SOMETHING THAT WE HAVE
6	BECAUSE OF PROP 71. SO, YEAH, IT'S A PROBLEM.
7	MR. SHEEHY: THIS MAY BE A QUESTION FOR
8	THE LAWYERS. BUT HOW WOULD THIS BE IMPACTED IF THE
9	DONATION WAS PAID WITH FEDERAL DOLLARS? WHAT KIND
10	OF FRANKLY, WE HAVE A BETTER CHANCE OF GETTING
11	FEDERAL PREEMPTION. IF WE COULD SUCCEED IN THE
12	LEGISLATURE, WE'D HAVE A BUDGET. THE SAME PEOPLE
13	WHO ARE STONEWALLING, NO NEW TAXES ALSO SAID THE
14	SAME SORT OF
15	DR. PRIETO: THEY'RE NOT GOING TO COME ON
16	BOARD.
17	MR. SHEEHY: THEY'RE NOT GOING TO COME ON
18	BOARD. BUT, YOU KNOW, DOES SOMETHING CHANGE WHEN IT
19	BECOMES IF THIS IS FEDERALIZED GIVEN THAT MANY
20	THINGS, WHAT HAPPENS AT A STATE LEVEL IS PREEMPTED
21	BY FEDERAL ACTION. IF SOMEONE WAS FUNDED BY THE
22	NIH, FOR INSTANCE, TO OBTAIN THESE CELLS
23	COMPENSATED, HOW WOULD THAT DO WE HAVE ANY SENSE
24	OF WHETHER THAT WOULD MATERIALLY CHANGE THIS?
25	CHAIRMAN LO: I WOULD SUGGEST THAT WE TRY
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1	AND SEPARATE OUT THE ETHICS FROM THE POLITICS. I
2	THINK IT WOULD BE VERY USEFUL, I THINK, FOR US TO
3	DECIDE AND GIVE A RATIONALE FOR WHY WE THINK IT IS
4	APPROPRIATE, FOR EXAMPLE, LIVER BIOPSY DONORS TO BE
5	PAID A REASONABLE AMOUNT THAT'S NOT AN UNDUE
6	INFLUENCE. AND THEN NOTE THAT THERE'S A CONFLICT
7	BETWEEN THAT AND PROP 71, AND THEN SORT OF SAY,
8	OKAY, HOW CAN THAT BE ADDRESSED?
9	I WOULD NOT START BY SAYING WE WANT TO DO
10	A WORKAROUND WITHOUT HAVING ESTABLISHED WHY WE THINK
11	IT'S ETHICALLY APPROPRIATE TO PAY LIVER DONORS OR
12	OTHER DONORS IN THAT SITUATION. ONCE THAT FOLLOWS,
13	THEN I THINK IT'S MORE OF A TECHNICAL ISSUE OF
14	WHETHER THE LANGUAGE ALLOWS US TO USE LINES DERIVED
15	BUT FROM PAYMENT THAT DOESN'T HAVE A CIRM CHECK
16	BEHIND IT. I WOULD HOPE WE COULD ESTABLISH AND GET
17	WIDE ACCEPTANCE ON THE RATIONALE FOR ALLOWING THESE
18	PAYMENTS RATHER THAN JUST SAY WE'RE GOING TO LOOK
19	FOR AN EXCEPTION.
20	MR. SHEEHY: CAN I ASK WHAT NOVEL ISSUES
21	DO WE HAVE TO CONSIDER THAT MAKES THIS DIFFERENT
22	FROM ACCEPTED PRACTICE OF PAYING FOR THESE DONATIONS
23	ALREADY? HOW MUCH NEW STUFF HOW MUCH NEW WHAT
24	IS DIFFERENT ABOUT USING SOMATIC CELLS TO CREATE
25	PLURIPOTENT CELLS THAT DISTINGUISHES THAT FROM THESE

1	SAME TYPES OF DONATIONS THAT SEEM TO GO ON RATHER
2	ROUTINELY NOW IN SCIENCE? ISN'T THAT THE REAL CRUX
3	OF THE DIFFERENCE?
4	CHAIRMAN LO: I THINK PARTLY IT'S DID THEY
5	CONSENT TO THE SENSITIVE SO IT'S THE QUALITY OF
6	THE CONSENT PROCESS AND THE QUALITY OF THE
7	OVERSIGHT. WHAT YOU WOULD NOT WANT DONE, I DON'T
8	THINK, IS PEOPLE GOING TO, PICK A COUNTRY THAT'S IN
9	ECONOMIC FREEFALL, AND OFFERING, NOT \$500, BUT \$100
10	TO PEOPLE TO UNDERGO LIVER BIOPSY, AND HAVING A
11	RELATIVELY VAGUE CONSENT PROCESS AND NOT SORT OF
12	OUTLINING THE SENSITIVE KINDS OF RESEARCH WE TALKED
13	ABOUT EARLIER. THERE MIGHT BE SO I THINK THAT IF
14	IT WERE DONE WITH GOOD CONSENT AND GOOD OVERSIGHT
15	AND REALLY WASN'T AN UNDUE INDUCEMENT AND PEOPLE
16	REALLY KNEW THE RISKS AND WHAT WAS GOING TO HAPPEN
17	TO THEIR CELLS, I THINK IT'S NO DIFFERENT THAN ANY
18	OTHER RESEARCH.
19	SO IT'S REALLY FOR THAT IT'S REALLY A
20	QUESTION OF GOING OFFSHORE TO PLACES WHERE THE
21	FINANCIAL INDUCEMENTS BECOME MUCH MORE OF A PROBLEM.
22	SO I GUESS THE QUESTION IS SHALL WE JUST
23	ALLOW IT WITH OTHER FUNDS OR ALLOW IT PROVIDED THAT
24	THERE'S SOME ASSURANCE THAT THE CONSENT AND THE
25	OVERSIGHT FOR THE ORIGINAL DERIVATION WERE
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1	APPROPRIATE. LET ME JUST TELL YOU WHAT WE'VE TRIED
2	TO DO AT UCSF. IT GETS TO BE A MESS TRYING TO
3	SECOND-JUDGE A DONATION AND RESEARCH PROJECT CARRIED
4	OUT IN ANOTHER INSTITUTION AND IN A DIFFERENT
5	LANGUAGE. IT'S REALLY HARD TO KNOW WHAT HAPPENED.
6	WE ACTUALLY HAVE SEEN THAT WITH SOME OF THE OLDER
7	EMBRYONIC STEM CELL LINES THAT THE DEPARTMENT OF
8	PUBLIC HEALTH STEM CELL RESEARCH GROUP IN CALIFORNIA
9	IS STRUGGLING WITH KIND OF SOME OF THESE NIH LINES
10	WHERE THE CONSENT PROCESS TURNS OUT TO BE LESS THAN
11	WE THOUGHT.
12	BUT MY SUGGESTION WOULD BE WE TRY AND
13	CARVE OUT A NARROW EXCEPTION TODAY AND REALLY COME
14	BACK TO THAT AND REALLY GET DOROTHY'S INPUT AND GET
15	SOME MATERIALS ON THIS ISSUE OF UNDUE INDUCEMENT
16	FROM PAYMENT, AND ACTUALLY GET SOME IRB VIEWS ON
17	THIS AS WELL. BECAUSE I THINK MOST OF THE
18	INSTITUTIONS THAT, FOR EXAMPLE, ARE ACCREDITED BY
19	AHRPP WOULD HAVE A PRETTY, IT SEEMS TO ME, ROBUST
20	OVERSIGHT PROCESS OF PAYMENTS FOR THESE BASIC
21	PROCEDURES. IRB'S, I KNOW, HAVE STRUGGLED WITH THIS
22	A LOT AND ASK THEMSELVES IS THIS TOO MUCH? ARE WE
23	GOING TO GET PEOPLE COMING IN AND SORT OF CLOSING
24	THEIR EYES TO THE REAL RISKS OF THESE TYPES OF
25	RESEARCH?

1	SO LET ME JUST POINT OUT DID I ALREADY
2	SAY THAT WE TOOK A DIFFERENT GRANDFATHERING
3	THE ICOC TOOK A DIFFERENT GRANDFATHERING DATE FOR
4	THE I SAID THAT ALREADY.
5	TODAY IT SOUNDS LIKE I'M HEARING FROM OUR
6	COMMITTEE THAT WE'RE COMFORTABLE WITH THE CUTOFF
7	DATE BEFORE PROP 71. WE CAN'T IT'S UNFAIR TO
8	EXPECT PEOPLE TO HAVE GUESSED WHAT PROPOSITION 71
9	WAS GOING TO DO; BUT AFTER THAT, WE'RE NOT
10	COMFORTABLE WITH ANY PAYMENT, GRANDFATHERING IN ANY
11	PAYMENTS GIVEN THE LANGUAGE OF PROP 71. I THINK
12	THAT'S WHAT'S I HEARD EVERYBODY SAY.
13	DR. PETERS: WHY DO WE DISTINGUISH BETWEEN
14	BEGINNING PROP 71 AND THE DATE THE ICOC SET? DOES
15	IT MATTER WHICH DATE WE CHOOSE?
16	CHAIRMAN LO: NOT SURE. DOROTHY.
17	PROFESSOR ROBERTS: I HAVEN'T REALLY
18	THOUGHT ABOUT IT MUCH BECAUSE I DIDN'T ANTICIPATE
19	CHAIRMAN LO: WE DIDN'T EITHER. WE'RE
20	GLAD YOU'RE HERE.
21	PROFESSOR ROBERTS: THERE'S A COUPLE
22	THINGS THAT COME TO MIND. ONE IS IS THERE A VALUE
23	TO CONSISTENCY, JUST HAVING THE SAME GRANDFATHERING
24	DATE? PRESUMABLY IT'S IN THE SAME ISSUES, RIGHT,
25	WHETHER RESEARCHERS WOULD HAVE THOUGHT TO FOLLOW
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1	THESE GUIDELINES BEFORE THEY FOLLOWED WELL, TO
2	FOLLOW PROP 71 RULES BEFORE PROP 71 EXISTED.
3	MR. SHEEHY: THERE IS A DISTINCTION
4	BECAUSE THIS SPEAKS OF RESEARCH DONORS. WE WERE
5	TALKING ABOUT EMBRYOS THAT WERE CREATED FOR
6	REPRODUCTIVE PURPOSES. THOSE DONATIONS WERE NOT
7	PAID FOR FOR RESEARCH. THOSE WERE NOT RESEARCH
8	DONATIONS. THESE WERE ACTUALLY DONATIONS FOR
9	REPRODUCTIVE PURPOSES. THAT DOES ALLOW A DIFFERENT
10	STANDARD TO BE APPLIED.
11	PROFESSOR ROBERTS: HOW DID THE DATE
12	RELATE TO THAT DISTINCTION?
13	MR. SHEEHY: THE DATE I BELIEVE THE
14	THINKING, AND, AGAIN, I'M FUZZY TODAY, BUT I THOUGHT
15	THAT WE WERE MAKING A DATE MORE TO MAINTAIN THE
16	PURITY TO MAINTAINING THAT THESE OUR INTEREST
17	IN SETTING A DATE WAS TO CLEARLY INDICATE THAT THESE
18	DONATIONS WERE MADE FOR REPRODUCTIVE PURPOSES.
19	THAT'S WHY WE SET A DATE SO THAT THERE WOULD BE
20	NO WE WERE TRYING TO MAKE IT UNFEASIBLE FOR THOSE
21	DONATIONS TO HAVE BEEN MADE. IN OTHER WORDS, IT WAS
22	ILLEGAL FOR THOSE DONATIONS TO HAVE BEEN MADE WITH
23	THE IDEA THAT THOSE COULD BE USED FOR RESEARCH
24	PURPOSES BECAUSE THEY WERE CLEARLY NOT ABLE TO BE
25	MADE FOR RESEARCH PURPOSES.
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1	SO WE WERE TRYING TO MAKE SURE THAT AT NO
2	POINT IN THAT DECISION-MAKING PROCESS, AND PLEASE
3	CORRECT ME, BERNIE OR SOMEONE, IF I'M WRONG ON THIS,
4	BUT THAT THE IDEA OF DONATING FOR RESEARCH WAS IN NO
5	WAY PART OF THE INTERACTION THAT LED TO THE
6	DONATION. THAT WAS PURELY FOR REPRODUCTIVE
7	PURPOSES.
8	CHAIRMAN LO: I THINK THAT'S RIGHT, JEFF,
9	THAT THESE WERE IN A SENSE TISSUES THAT WERE
10	PROVIDED FOR A TOTALLY DIFFERENT PURPOSE, AND THE
11	PAYMENT WAS MADE IN THAT REPRODUCTIVE CONTEXT. AND
12	RATHER THAN DESTROYING THE MATERIALS AFTER THE WOMAN
13	OR COUPLE DECIDED NOT TO GIVE THEM TO SOMEONE ELSE
14	OR NOT TO GO FORWARD WITH FURTHER IVF, THAT THE IDEA
15	WAS THAT THEY WOULD BE ALLOWED. BUT BECAUSE THEY
16	WEREN'T ORIGINALLY THE PAYMENT WASN'T MADE WITH
17	ANY VIEW TOWARDS USING THEM FOR STEM CELL RESEARCH,
18	WE THOUGHT THERE WAS NO UNDUE INDUCEMENT IN THAT
19	SITUATION. I GUESS WE SORT OF THOUGHT THAT, WELL,
20	PROP 71 REALLY DIDN'T APPLY BECAUSE THEY WEREN'T
21	RESEARCH DONORS OR RESEARCH PARTICIPANTS AT THE TIME
22	THE COMPENSATION WAS MADE.
23	HERE FOR STEM CELLS I'M SORRY FOR
24	LIVER BIOPSIES FOR IPS CELLS, I THINK THESE ARE
25	RESEARCH SUBJECTS AND THEY'RE DONATING A LIVER
	105

1	BIOPSY.
2	PROFESSOR ROBERTS: RIGHT. SO THEN MAYBE
3	THE DATE OF THE PROP 71 PASSING DOES MAKE MORE SENSE
4	FOR THESE, THE GRANDFATHERING DATE.
5	CHAIRMAN LO: WELL, IN POINT OF YEAH.
6	MY OWN SENSE IS THE GRANDFATHERING IS NOT SO MUCH AN
7	ISSUE BECAUSE I THINK THE ISSUE IS GOING TO BE WHAT
8	ALAN RAISED, THAT IF SOMEONE WITHOUT CIRM FUNDING
9	DERIVES A STEM CELL LINE THAT NOW CIRM RESEARCHERS
10	WANT TO USE, WILL WE PERMIT THAT? I THINK THAT'S
11	SOMETHING WE NEED TO THINK ABOUT AND GET TO THINK
12	ABOUT AND SORT OF MAKE SOME PROPOSALS.
13	RIGHT NOW IT SEEMS TO BE VERY HARD I
14	GUESS THE SECOND QUESTION IS ARE WE GOING TO ALLOW
15	SORT OF COOPERATIVE ARRANGEMENTS WHERE SOME RESEARCH
16	SAYS I'D LIKE A PIECE OF YOUR LIVER, A LIVER BIOPSY,
17	I CAN'T PAY YOU, BUT WE HAVE TO MAKE ARRANGEMENTS TO
18	GET THE BIOPSY FRESH AND INTO THE RIGHT HANDS, AND
19	SO THERE'S GOING TO BE A LOT OF COORDINATION.
20	DR. TROUNSON: PRESUMABLY THE SOURCE OF
21	LIVER CELLS JUST STRAIGHT FOR RESEARCH WOULD BE FROM
22	CADAVERIC SAMPLES IF THE PERSON AGREED TO DONATE HIS
23	MATERIAL.
24	CHAIRMAN LO: WOULD THAT WORK FOR
25	DERIVATION OF IPS CELLS?
	106

1	DR. TROUNSON: WELL, IT WOULD BE FOR THE
2	RESEARCH PURPOSES. I IMAGINE THAT THAT'S PROBABLY
3	THE SOURCE, WILL BE THE PRIMARY SOURCE FOR THESE
4	CELLS, AND THAT WOULDN'T REQUIRE ANY PAYMENT.
5	CHAIRMAN LO: BUT THEN THOSE LINES, COULD
6	THEY BE USED FOR CLINICAL TRANSPLANTATION?
7	DR. TROUNSON: NO, I DON'T THINK SO
8	BECAUSE THE CELLS THAT ARE RELEVANT FOR THAT WOULD
9	COME FROM THE PATIENTS, YOU KNOW, WHO WOULD BE
10	PATIENT-SPECIFIC.
11	DR. TAYLOR: PATIENTS WOULDN'T NEED TO BE
12	COMPENSATED.
13	DR. TROUNSON: THAT'S RIGHT. BUT, YOU
14	KNOW, WHAT WAS CONCERNING ME A LITTLE BIT IS THAT
15	THEY WOULD BE THE ONLY PART OF THE POPULATION WHO
16	WOULD BE MOTIVATED TO DO THAT. AND SO YOU'RE ASKING
17	SOMETIMES RELATIVELY SICK PEOPLE TO MAKE DONATIONS
18	WHERE IT MAY I DON'T KNOW WHETHER THIS IS TRUE,
19	BUT MIGHT NOT BE IN THEIR
20	CHAIRMAN LO: WELL, THERE'S ANOTHER THING
21	THAT HAPPENS IN THE CLINICAL TRANSPLANTATION
22	CONTEXT, THAT IN A FAMILY WHERE THERE'S A VERY
23	STRONG FAMILY HISTORY OF ONE OF THESE DISEASES THAT
24	IT'S HOPED STEM CELL WILL TREAT, THE HEALTHY MEMBERS
25	OF THE FAMILY MAY FEEL ENORMOUS PRESSURE. WELL, WE
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1	CAN'T DONATE BECAUSE IT'S TOO RISKY FOR US. IF
2	SOMEONE LIKE YOU DOESN'T DONATE, THE RESEARCH WON'T
3	GET DONE, AND THE PERSON MAY NOT FEEL COMFORTABLE
4	SAYING, GEE, I'M NOT REALLY COMFORTABLE WITH THAT.
5	SO THIS GETS TRICKY.
6	I THINK WE NEED TO THINK THIS OUT. AND I
7	GUESS LET ME JUST SAY AT THE VERY LEAST, EVEN IF
8	WE END UP DECIDING IT'S FUTILE TO TRY AND CHANGE
9	PROP 71, I THINK WE DO NEED TO BE CLEAR IN GIVING A
10	PUBLIC RATIONALE FOR WHY WE'RE ALLOWING WHATEVER
11	KIND OF ARRANGEMENTS WE END UP SUGGESTING SO IT
12	DOESN'T LOOK LIKE WE'RE JUST TRYING TO SUBVERT THE
13	INTENTION OF THE VOTERS.
14	I GUESS ALSO I WOULD LIKE TO GET A BRIEF
15	FROM THE POLITICAL SORT OF CONSULTANTS WE HAVE.
16	SOMEONE ON THE PHONE WANTS TO SAY
17	SOMETHING.
18	DR. PRIETO: BERNIE, I THINK THAT SHERRY
19	AND JEFF CAN COMMENT ON THIS, BUT I JUST DON'T THINK
20	THAT'S A FEASIBLE OPTION.
21	MS. LANSING: I WOULD LIKE TO SECOND THAT.
22	I THINK AT THIS TIME IT WOULD BE ALMOST IMPOSSIBLE.
23	CHAIRMAN LO: OKAY. I NEVER SAID IT. I
24	NEVER SUGGESTED IT.
25	MS. LANSING: I THINK, YOU KNOW, WE'VE
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1	ALWAYS SAID WE'RE STILL AT THE EARLY STAGES. A LOT
2	OF THINGS WE'LL SEE, BUT I'M HOPEFUL WE'LL CHANGE
3	NATIONALLY, AND THEN IT MIGHT BE A DIFFERENT TIME.
4	CHAIRMAN LO: ALL RIGHT. SO DO I HAVE A
5	SENSE OF THE COMMITTEE, THEN, THAT WE'RE GOING TO
6	SUGGEST TO THE ICOC THAT WE MAKE A LIMITED EXCEPTION
7	TO OUR VERY STRICT OVERSIGHT, CONSENT, PAYMENT
8	STANDARDS, AND THE THINGS THAT WOULD BE ACCEPTED
9	WOULD BE DONATIONS OF SOMATIC CELLS, DERIVATION OF
10	IPS LINE, CHARACTERIZATION OF THAT LINE, PROOF OF
11	PLURIPOTENCY, DERIVATION OF SPECIALIZED LINES,
12	DERIVED LINES BUT NOT GAMETES, AND PROOF THAT THEY
13	ARE, IN FACT, OF THAT LINEAGE?
14	FOR THOSE THE LEVEL OF REVIEW WOULD BE
15	SCRO NOTIFICATION RATHER THAN FULL REVIEW. LEVEL OF
16	CONSENT THAT WOULD BE PERMITTED WOULD BE GENERAL
17	RESEARCH CONSENT, ALTHOUGH I THINK WE SHOULD SAY AS
18	A MATTER OF SUGGESTION THAT WE WOULD CERTAINLY BE
19	HAPPY TO SEE RESEARCHERS HAVE A MUCH MORE THOROUGH
20	CONSENT PROCESS. AND FOR PAYMENT WE WOULD ALLOW
21	GRANDFATHERING OF PAYMENTS WITH CELLS WHERE THE
22	PAYMENTS WERE MADE BEFORE THE PASSAGE OF PROP 71,
23	WHICH WAS FOUR YEARS AGO NOW.
24	IS THAT THE SENSE OF THE COMMITTEE? I
25	DON'T KNOW IF HEARING NO OBJECTION MEANS NO ONE

	BARRISTERS' REPORTING SERVICE
1	DR. PRIETO: I'M OKAY HERE.
2	CHAIRMAN LO: YOU WANT TO JUST DO A ROLL
3	CALL?
4	MR. SHEEHY: I THINK A ROLL CALL IS A GOOD
5	IDEA, BERNIE. WE MAY EVEN HAVE A QUORUM. I DON'T
6	KNOW.
7	DR. LOMAX: WE ARE SHORT ON A QUORUM, I
8	BELIEVE. SO I THINK BERNIE SUCCESSFULLY SUMMARIZED
9	THE FRAMEWORK.
10	SHERRY LANSING.
11	MS. LANSING: YES.
12	DR. LOMAX: JEFF SHEEHY.
13	MR. SHEEHY: YES.
14	DR. LOMAX: BERNARD LO.
15	CHAIRMAN LO: YES.
16	DR. LOMAX: TED PETERS.
17	DR. PETERS: YES.
18	DR. LOMAX: DOROTHY ROBERTS.
19	PROFESSOR ROBERTS: YES.
20	DR. LOMAX: JOSE CIBELLI.
21	DR. CIBELLI: YES.
22	DR. LOMAX: ANN KIESSLING.
23	DR. KIESSLING: YES.
24	DR. LOMAX: JAMES WILLERSON. ROB TAYLOR.
25	DR. TAYLOR: YES.
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	DARRISTERS REPORTING SERVICE
1	DR. LOMAX: FRANCISCO PRIETO.
2	DR. PRIETO: YES.
3	DR. LOMAX: DID I MISS ANYONE? THANK YOU.
4	CHAIRMAN LO: A BREAK. AND WHEN ARE WE
5	SCHEDULED TO GO TO, GEOFF?
6	DR. LOMAX: THE AGENDA SAYS 1 O'CLOCK.
7	CHAIRMAN LO: CAN WE TAKE A 15-MINUTE
8	BREAK? IS THAT OKAY? SO 15 MINUTES FROM NOW.
9	(A RECESS WAS TAKEN.)
10	CHAIRMAN LO: COULD WE TAKE A ROLL CALL
11	AND SEE WHO'S BACK FROM THE BREAK AND SEE IF WE HAVE
12	ENOUGH TO START. WE HAVE A GUEST THAT WE WANT TO
13	ACCOMMODATE AS WELL.
14	DR. LOMAX: SHERRY LANSING.
15	MS. LANSING: YES.
16	DR. LOMAX: JEFF'S IN. BERNIE. TED.
17	DOROTHY ROBERTS IS ON THE LINE. JOSE. WE MAY HAVE
18	LOST JOSE. I'LL SEND HIM ANOTHER E-MAIL. ANN.
19	DR. KIESSLING: YES.
20	DR. LOMAX: ROB TAYLOR AND FRANCISCO.
21	DR. TAYLOR: YES.
22	DR. ADAMSON: AND DAVID ADAMSON IS HERE
23	TOO.
24	CHAIRMAN LO: DO YOU WANT TO INTRODUCE
25	DAVID?
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	111

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1	DR. LOMAX: WE HAVE DR. DAVID ADAMSON ON
2	THE LINE. WE ASKED HIM TO PARTICIPATE. HE WAS
3	THE NEXT DISCUSSION WILL CONSIDER OUR INTERIM
4	REGULATION CONCERNING THE USE OF EMBRYOS CONTAINING
5	GAMETES FOR WHICH A DONOR MAY HAVE BEEN PAID. AND
6	ONE OF THE PERSPECTIVES OR ONE OF THE ISSUES THAT WE
7	WOULD ASK HIM TO SPEAK TO IS THE ROLE OF THE IVF
8	PHYSICIAN AND THE PROCESS FOR WHICH THERE'S AN
9	INTERACTION BETWEEN THE GAMETE DONOR AND THE COUPLE
10	IN IVF TREATMENT.
11	IN OUR LAST DISCUSSION, A NUMBER OF ISSUES
12	WERE RAISED ABOUT POSSIBLE CONFLICTS, ROLES,
13	RESPONSIBILITY, WHAT HAVE YOU. SO WE WERE ASKED TO
14	SORT OF IDENTIFY SOMEONE WHO COULD SPEAK TO THE
15	CLINICAL SIDE OF THINGS, AND HE'S PREPARED SOME
16	COMMENTS, WHICH, AS WE MOVE THROUGH THE DISCUSSION,
17	BERNIE CAN INVITE HIM IN.
18	CHAIRMAN LO: SO WE'RE NOW SORT OF
19	TACKLING 4(B) ON THE AGENDA, WHICH IS USE OF IVF
20	EMBRYOS FOR WHICH THE GAMETE DONORS WERE PAID, BUT
21	PAID IN A REPRODUCTIVE CONTEXT. AND THIS, AGAIN, IS
22	COMPLICATED AND DIFFICULT.
23	I'M GOING TO ASK GEOFF TO START, AND WE
24	ARE GOING TO, AGAIN, GO BACK TO THAT PDF WITH THE
25	SLIDES. AND NOW THE FOURTH SLIDE ON PAGE 2, BOTTOM
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1	OF PAGE 2, KIND OF JUST TO REVIEW WHAT THE CURRENT
2	REGULATIONS ARE FOR NBO DERIVATION, AND THEN
3	PROPOSED CHANGES.
4	DR. LOMAX: THANK YOU, BERNIE. THE
5	STANDARD THE FIRST SLIDE, THE ONE WITH THE ARROW,
6	I BELIEVE IT'S SLIDE NO. 4, IT'S TRYING TO
7	ILLUSTRATE OR ATTEMPTING TO ILLUSTRATE THE CURRENT
8	STANDARDS FOR CIRM FOR USE OF EMBRYOS IN CIRM-FUNDED
9	RESEARCH, AND SPECIFICALLY EMBRYOS THAT WERE CREATED
10	IN IVF CONTEXT AND FOR WHICH THE GAMETE DONOR MAY
11	HAVE BEEN PAID IN THE CREATION OF THAT EMBRYO.
12	NOW, WHAT I'VE DONE IS SORT OF ILLUSTRATE
13	REALLY TWO THINGS ON THAT SLIDE. IT'S A BIT MORE
14	COMPLICATED THAN THE ISSUE AT HAND. THE LAST SET OF
15	RECOMMENDATIONS PUT FORWARD BY THE WORKING GROUP WAS
16	THAT PRIOR TO $11/22/06$ , WHICH IS THE EFFECTIVE DATE
17	OF THE REGULATIONS, THERE IS A WILLINGNESS BOTH TO
18	USE EMBRYOS FOR WHICH IT'S ACCEPTABLE TO USE
19	EMBRYOS FOR WHICH A GAMETE DONOR WAS PAID AND IT'S
20	ACCEPTABLE AS LONG AS THERE WAS SOME TYPE OF
21	EXPLICIT CONSENT FOR USE OF THE EMBRYO IN RESEARCH.
22	AGAIN, THAT FOLLOWS THE RATIONALE WE'VE
23	ALLUDED TO A NUMBER OF TIMES TODAY, WHICH IS WE
24	DON'T WANT TO RETROSPECTIVELY APPLY A CONSENT
25	STANDARD ON MATERIALS WHERE THEY DIDN'T KNOW THE

1	STANDARD EXISTS PRIOR TO THAT DATE.
2	CHAIRMAN LO: GEOFF, IF I MAY INTERRUPT
3	FOR A SECOND. JUST TO BE SPECIFIC, THAT'S CONSENT
4	FROM THE OOCYTE DONOR IN IVF, THAT SHE NEEDED TO
5	GIVE SOME GENERAL CONSENT FOR RESEARCH, BUT NOT
6	SPECIFICALLY FOR DERIVATION OF STEM CELL LINES,
7	WHICH WOULD BE REQUIRED AFTER THE EFFECTIVE DATE OF
8	THE REGULATION; IS THAT RIGHT?
9	DR. LOMAX: THAT'S CORRECT. AND THEN FROM
LO	THE POINT BETWEEN 11/22/06 AND 8/13/08, THAT'S WHEN
L1	THE NEW WELL, NEW CONSENT STANDARD APPLIES ALL
L2	THE TIME, BUT FOR THOSE THERE'S A WINDOW OF
L3	OPPORTUNITY, IF YOU WILL, THERE TO USE IVF EMBRYOS
L4	FOR WHICH THE DONOR WAS PAID, BUT YOU'D ALSO HAVE TO
L5	CONFORM TO THE SORT OF PROSPECTIVE CONSENT STANDARD,
L6	IF YOU WILL, OR THE CIRM CONSENT STANDARD.
L7	NOW, THE 8/13/08 IS A SORT OF CUTOFF DATE
L8	FOR WHICH GOING FORWARD EMBRYOS WITH GAMETES WHICH
L9	THE DONORS WERE PAID ARE NO LONGER ALLOWED FOR USE
20	IN CIRM-FUNDED RESEARCH. THAT WAS PRESENTED THAT
21	WAS THE RECOMMENDATION OF THIS WORKING GROUP. IT
22	WAS THEN PRESENTED TO THE ICOC. AND DURING THAT
23	PRESENTATION, THERE WERE COMMENTS RECEIVED THAT
24	PERHAPS THERE SHOULD BE CONSIDERED A STANDARD THAT
25	WOULD BE FLEXIBLE TO ALLOW USE OF MATERIALS GOING

1	FORWARD.
2	WHAT WAS THEN PROPOSED IN THE NEXT SLIDE
3	OR WHAT IS SUGGESTED AS AN OPTION IS A STANDARD THAT
4	WOULD CREATE A PERIOD OF TIME FOR WHICH EMBRYOS WITH
5	PAID GAMETES COULD NOT BE USED. THE IDEA, I THINK,
6	RELATES TO THE THOUGHTS OF THE WORKING GROUP THAT
7	YOU DON'T WANT TO CREATE A SITUATION WHERE THERE'S
8	AN INDUCEMENT TO CREATE EMBRYOS UNDER THE SORT OF
9	GUISE OF IVF, IF YOU WILL, BUT THEY'RE REALLY
10	INTENDED FOR RESEARCH. SO THE CONCEPT OF A WAITING
11	PERIOD IS TO AVOID ANY SITUATION WHERE YOU'RE
12	CREATING EMBRYOS WITH PAID DONORS WITH THE INTENT
13	SOMEHOW OR THE INTENT OF DEVELOPING THEM FOR
14	RESEARCH, BUT RATHER THAN A FIXED DATE IN TIME, YOU
15	HAVE SOME ROLLING PERIOD OF TIME.
16	SO IN A SENSE YOU'RE CREATING A WAITING
17	PERIOD, IF YOU WILL, TO ENSURE THAT DURING THAT
18	PERIOD OF TIME, THE COUPLE HAVE ADDRESSED THEIR
19	REPRODUCTIVE NEEDS OR THERE'S SORT OF OTHERWISE NO
20	COERCION OR INDUCEMENT TO GET THOSE MATERIALS INTO
21	RESEARCH. THAT'S SORT OF THE CONTOURS OF THE INTENT
22	THERE. I HAVEN'T EXPLAINED THAT VERY WELL, BUT I'M
23	SURE, BERNIE, YOU CAN KIND OF NOW CLARIFY IT.
24	CHAIRMAN LO: LET ME TRY AND SORT THIS
25	THROUGH, AND PARTICULARLY TO HELP ORIENT DOROTHY.

1	SO WE'RE REALLY FOCUSING HERE ON THE PAYMENT ISSUE
2	RATHER THAN THE CONSENT ISSUE. AND, AGAIN, THE
3	STARTING POINT IS WHAT WE JUST LOOKED AT IN PROP 71
4	BEFORE THE BREAK, THE PROHIBITION ON PAYMENT BEYOND
5	OUT-OF-POCKET EXPENSES TO RESEARCH DONORS OR
6	PARTICIPANTS.
7	AND WHAT WE DID WHAT THE ICOC DID AT
8	ITS MEETING IN AUGUST 2008 WAS TO CARVE TO ALLOW
9	AN EXCEPTION FOR EMBRYOS FROM OOCYTE DONORS WHO WERE
10	PAID, BUT PAID IN THE IVF CONTEXT. AND THAT
11	EXCEPTION WAS A GRANDFATHERING TO SAY THAT BEFORE
12	THAT DATE OF THAT MEETING THAT WOULD BE PERMITTED.
13	AND I THINK IMPLICITLY WAS THE INTERPRETATION OF
14	PROP 71 THAT THESE WERE NOT REALLY RESEARCH DONORS
15	BECAUSE THEY WERE DONORS FOR CLINICAL IVF, AND THEN
16	THERE WAS EXCESS MATERIAL THAT WASN'T NEEDED FOR THE
17	ORIGINAL REPRODUCTIVE INTENT.
18	SO THAT WAS, I THINK, THE RATIONALE FOR
19	THE GRANDFATHERING. THERE CAN BE NO UNDUE
20	INDUCEMENT GOING BACKWARDS, AND THAT WHATEVER THE
21	RISKS THE OOCYTE DONOR UNDERWENT HAD ALREADY BEEN
22	FACED. THERE'S NO ADDITIONAL RISK TO HER OF
23	ALLOWING THE EMBRYOS TO BE USED FOR RESEARCH RATHER
24	THAN BEING DESTROYED AT THE REQUEST OF THE RATHER
25	THAN BEING DESTROYED.

1	SO NOW THE QUESTION WAS RAISED AT THE
2	MEETING AND WE WERE ASKED TO CONSIDER WAS IS THAT
3	AUGUST '08 CUTOFF DATE GOING TO BE FIRM BECAUSE, AS
4	WE GO FORWARD IN TIME, THERE WILL BE EMBRYOS CREATED
5	AFTER THAT DATE WHICH MAY WELL TURN OUT TO BE EXCESS
6	AFTER THE WOMAN AND COUPLE IN IVF HAVE COMPLETED
7	THEIR FERTILITY TREATMENT. SO THE PROPOSAL THAT WAS
8	RAISED WAS SHOULD WE ALLOW FOR A DIFFERENT CUTOFF
9	DATE OR A MOVING CUTOFF DATE. IS THAT FAIR, GEOFF?
10	DR. LOMAX: YES. I THINK THAT'S A HELPFUL
11	CLARIFICATION.
12	CHAIRMAN LO: YOU WANT TO SAY A LITTLE BIT
13	MORE ABOUT THE RATIONALE FOR WANTING TO GO TO THIS
14	ROLLING DEADLINE OR ROLLING CUTOFF DATE, IF I CAN
15	CALL IT THAT, IN TERMS OF THE NEED FOR MORE EMBRYOS
16	TO DERIVE STEM CELL LINES?
17	DR. LOMAX: I'LL SPEAK TO TWO ISSUES THAT
18	HAVE COME UP, AND THEN PERHAPS, DR. TROUNSON, THERE
19	MAY BE SOME SCIENTIFIC POINTS THAT COULD BE RAISED
20	AS WELL. THE TWO ISSUES THAT HAVE COME SORT OF
21	THROUGH MY INTERACTION BOTH WITH RESEARCHERS AND THE
22	PUBLIC IS, ONE, THAT THERE ARE INDIVIDUALS WHO, AS
23	PART OF THEIR SORT OF PLANNING PROCESS WHO ARE IN
24	IVF TREATMENT, SO IVF PATIENTS, THE IDEA OF THE
25	FINAL DISPOSITION BEING RESEARCH IS ATTRACTIVE AND A

1	SENSE THAT THEY WOULD LIKE TO HAVE THE OPTION OF
2	RESEARCH DONATION OPEN TO THEM. AND SO THAT
3	OBVIOUSLY WOULD APPLY TO PATIENTS SORT OF MOVING
4	FORWARD OF THE EXISTING CUTOFF DATE.
5	THE OTHER COMMENT COMING, NOT FROM THE
6	PATIENT SIDE, BUT FROM THE INSTITUTION SIDE, IS THAT
7	THEY FEEL THAT FROM THE STANDPOINT OF CONSENT, THERE
8	IS AN OPPORTUNITY, IF THEY KNOW MOVING FORWARD THERE
9	MAY BE A POTENTIAL TO USE MATERIALS FROM THESE
10	DONORS, THAT THEY CAN IT GIVES A VERY STRONG
11	INCENTIVE TO DO VERY COMPREHENSIVE CONSENT AT THE
12	FRONT END WHEN THE DONOR IS AVAILABLE AT THE CLINIC
13	BECAUSE FROM THAT POINT FORWARD, THE ABILITY TO
14	CONSENT THE DONOR IS VERY LIMITED. IT'S VERY
15	DIFFICULT TO GET BACK TO A DONOR. SO IT GIVES A
16	VERY POWERFUL OR VERY STRONG INCENTIVE OR A CLEAR
17	INCENTIVE THAT THE CONSENT IS WORTH DOING AT THAT
18	TIME BECAUSE AT SOME POINT IN THE FUTURE, THE
19	MATERIALS MAY BE AVAILABLE FOR RESEARCH.
20	WITH THE CURRENT CUTOFF, THAT INCENTIVE
21	DOES NOT EXIST. SO CERTAINLY ON THE DONOR SIDE AND
22	THE CONSENT SIDE, THERE WERE POINTS THAT WERE RAISED
23	THAT SEEMED REASONABLE AND WORTHY OF CONSIDERATION
24	OF THIS GROUP.
25	THE OTHER QUESTION THAT HAS COME UP A
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1	NUMBER OF TIMES IS THE QUESTION OF SCIENTIFIC
2	UTILITY. IF I MAY, DR. TROUNSON, PERHAPS DEFER TO
3	YOU TO COMMENT ON GIVEN THAT THESE EMBRYOS REPRESENT
4	A SMALL SUBSET, APPROXIMATELY 10 TO 12 PERCENT OF
5	ALL EMBRYOS THAT TEND TO BE IN FREEZERS, IS THERE
6	SOMETHING UNIQUE SORT OF SCIENTIFICALLY ABOUT THEM
7	THAT MAKES THEM YOU KNOW, WHAT'S THE VALUE?
8	DR. TROUNSON: WELL, GENERALLY THE EMBRYOS
9	THAT ARE CREATED BY DONOR EGGS, USUALLY THE EGG
10	DONOR IS A YOUNG WOMAN, A RELATIVELY YOUNG WOMAN.
11	WHEREAS, A LOT OF THE IVF PATIENTS TEND TO BE IN
12	THEIR LATER 30S AND EARLY 40S. SO IT'S MUCH EASIER
13	TO DERIVE EMBRYONIC STEM CELL LINES FROM EMBRYOS
14	DERIVED FROM YOUNGER EGGS. AND THAT'S KIND OF
15	RECOGNIZED WORLDWIDE JUST AS MUCH EASIER TO DO.
16	SO FOR THAT REASON, THERE IS SOME INTEREST
17	IN BEING ABLE TO ACCESS THESE PARTICULAR EMBRYOS.
18	CHAIRMAN LO: ALAN, COULD YOU SAY
19	SOMETHING ABOUT THE SCIENTIFIC VALUE OF HAVING
20	EMBRYOS CREATED AFTER 8/13/08, WHICH WAS THE CUTOFF
21	DATE THAT THE ICOC SET AT ITS LAST MEETING, SO
22	WANTING TO MOVE THAT FORWARD IN TIME.
23	DR. TROUNSON: I THINK IT'S STILL THE SAME
24	ISSUE, BERNIE, THAT IT'S THE EMBRYOS THERE ARE
25	USUALLY DERIVED FROM YOUNGER PATIENTS. SO THEY HAVE

1	A HIGHER VITALITY, IF YOU LIKE, AND THEY'RE EASIER
2	TO DERIVE EMBRYONIC STEM CELLS. THOSE CELLS BEHAVE
3	BETTER THAN THOSE FROM OLDER PATIENTS. SO
4	CHAIRMAN LO: I DIDN'T PHRASE MY QUESTION
5	RIGHT. IS THERE A NEED FOR MORE EMBRYOS TO DERIVE
6	NEW EMBRYONIC STEM CELL LINES THAN WOULD BE
7	AVAILABLE USING THE 8/08 CUTOFF POINT FOR USING PAID
8	OOCYTE DONORS?
9	DR. TROUNSON: THERE MAY BE. I THINK, FOR
10	EXAMPLE, THE NEED TO DERIVE GMP COMPATIBLE EMBRYONIC
11	STEM CELL LINES FROM VERY HIGH QUALITY MATERIAL IS A
12	RECOGNIZED NEED. AND SO I THINK THAT THAT'S REALLY
13	THE PRIMARY ARGUMENT FOR THOSE ACCESSING THAT
14	MATERIAL.
15	CHAIRMAN LO: BUT THAT NEED COULD NOT BE
16	MET BY EMBRYOS CREATED BEFORE THE CUTOFF DATE.
17	DR. TROUNSON: IT MAY NOT BE BECAUSE,
18	AGAIN, THEY'RE LOOKING FOR THE HIGH QUALITY EMBRYOS
19	FROM YOUNG PATIENTS, AGAIN, IN ORDER TO PRODUCE CELL
20	LINES WITH HIGH VITALITY.
21	CHAIRMAN LO: OKAY. ANY QUESTIONS FROM
22	THE COMMITTEE ON THIS ISSUE? AND THEN I'M GOING TO
23	TURN TO DR. ADAMSON TO HELP US. COMMITTEE?
24	PROFESSOR ROBERTS: I WOULD LIKE SOME MORE
25	CLARIFICATION ABOUT THE TWO YEARS, THE REASON FOR

1	THE TWO-YEAR PERIOD. I ASSUMED, WHEN I SAW THIS,
2	THAT IT WAS IT HAD TO DO WITH THE COUPLES HAVING
3	ACHIEVED WHATEVER REPRODUCTIVE OUTCOMES THEY WANTED
4	WITH THE EGGS; AND, THEREFORE, THIS WOULD TAKE CARE
5	OF CONCERN ABOUT THEIR INTERESTS. BUT IT SOUNDS
6	LIKE IT HAS SOMETHING TO DO WITH ACTUALLY ADDRESSING
7	THE INDUCEMENT TO USE THE EGGS FOR RESEARCH.
8	ARE THOSE TWO COMBINED? I DON'T
9	UNDERSTAND WHAT HOW THE TWO-YEAR PERIOD PROTECTS
10	THE INTEREST OF THE EGG DONOR AS OPPOSED TO THE
11	RECIPIENT. SO COULD SOMEONE EXPLAIN THAT TO ME?
12	DR. LOMAX: I THINK IT'S SORT OF FLEXIBLE.
13	THE COMMENT INVOLVES A LITTLE BIT OF DECIPHERING THE
14	MINUTES OF THE LAST MEETING. I THINK THERE'S
15	NOTHING MAGIC ABOUT TWO YEARS. IT COULD BE TWO
16	YEARS. IT COULD BE SOME OTHER TIMEFRAME, BUT THE
17	IDEA WAS THAT THERE'S SOME TYPE OF INTERVAL IN TIME
18	WHERE THERE WASN'T AN ABILITY TO SORT OF RAPIDLY
19	DIRECT MATERIALS INTO RESEARCH FOR SOME, WANT OF A
20	BETTER TERM, CLANDESTINE PURPOSE.
21	SO I THINK THE TWO YEARS REALLY CAME ABOUT
22	FROM INTERVIEWS WITH FOLKS WHO DEAL WITH WHO ARE
23	LOOKING OUT FOR THE INTERESTS OF THE PATIENT, THAT
24	YOU WOULD ALMOST NEVER SEE MATERIALS EVEN BECOME
25	AVAILABLE FOR RESEARCH TILL AFTER A TWO-YEAR PERIOD.

1	THAT'S JUST DEALING WITH ISSUES OF THE TIME IT TAKES
2	TO MAKE ANY KIND OF DETERMINATION THAT IVF HAS
3	EITHER BEEN SUCCESSFUL OR UNSUCCESSFUL. SO
4	PROFESSOR ROBERTS: RIGHT. THAT'S WHAT I
5	WAS SAYING. SO I UNDERSTAND THE PERIOD ADDRESSING
6	CONCERN FOR THE PATIENT. I DON'T UNDERSTAND HOW
7	THAT ADDRESSES THE CONCERN FOR THE GAMETE DONOR AND
8	THAT'S WHAT THE EGG DONOR. DOES IT? OR THAT'S
9	THE CONNECTION I DON'T SEE.
10	CHAIRMAN LO: DOROTHY, I THINK YOU'RE
11	RIGHT. THAT TWO-YEAR WAITING PERIOD IS REALLY TO
12	PROTECT THE REPRODUCTIVE INTERESTS OF THE WOMAN AND
13	COUPLE IN IVF.
14	PROFESSOR ROBERTS: SO THEN THERE ISN'T
15	ANYTHING IN THIS PROPOSAL THAT ADDRESSES THE
16	CONCERNS THAT EXISTED BEFORE FOR THE DONOR. IT'S
17	JUST A DECISION THAT THE CUTOFF, YOU KNOW, WAS WRONG
18	
10	THEN. IN OTHER WORDS, IT'S RECONSIDERING THE
19	THEN. IN OTHER WORDS, IT'S RECONSIDERING THE DECISION TO HAVE THE CUTOFF AT AUGUST '08 IN TERMS
19	DECISION TO HAVE THE CUTOFF AT AUGUST '08 IN TERMS
19 20	DECISION TO HAVE THE CUTOFF AT AUGUST '08 IN TERMS OF CONCERNS FOR THE DONOR.
19 20 21	DECISION TO HAVE THE CUTOFF AT AUGUST '08 IN TERMS  OF CONCERNS FOR THE DONOR.  CHAIRMAN LO: THAT'S RIGHT. ALTHOUGH I
19 20 21 22	DECISION TO HAVE THE CUTOFF AT AUGUST '08 IN TERMS  OF CONCERNS FOR THE DONOR.  CHAIRMAN LO: THAT'S RIGHT. ALTHOUGH I  THINK THERE IS THERE IS A CONCERN, BUT IT'S THE
19 20 21 22 23	DECISION TO HAVE THE CUTOFF AT AUGUST '08 IN TERMS  OF CONCERNS FOR THE DONOR.  CHAIRMAN LO: THAT'S RIGHT. ALTHOUGH I  THINK THERE IS THERE IS A CONCERN, BUT IT'S THE  OPPOSITE CONCERN, THAT IF WE SAY THAT WE'RE HAVING A

1	INCENTIVE ON EITHER IVF PHYSICIANS OR PATIENTS IN
2	IVF OR DONORS TO THOSE PATIENTS TO TRY AND INCREASE
3	THE YIELD OF OOCYTES IN ORDER TO HAVE A COUPLE
4	LEFT-OVER EMBRYOS THAT MIGHT THEN GO TO RESEARCHERS
5	IF THEY'RE NOT NEEDED IN IVF TREATMENT.
6	SO I THINK THERE'S A CONCERN THAT BY
7	ALLOWING FUTURE IVF CYCLES TO BE USED FOR RESEARCH,
8	THAT THE CONCERN MIGHT BE THAT IT WOULD AFFECT THE
9	PRACTICE OF IVF CARE, BUT NOTHING IN THIS
10	PROPOSITION WOULD IN THIS PROPOSAL WOULD INCREASE
11	PROTECTIONS FOR THE OOCYTE DONOR.
12	PROFESSOR ROBERTS: SO ANYONE WHO HAD
13	CONCERNS ABOUT THE OOCYTE DONOR, AND THOSE CONCERNS
14	WERE THE BASIS FOR WANTING THE 8/13/08 CUTOFF AND
15	NOTHING PROSPECTIVELY, NO PAID GAMETES
16	PROSPECTIVELY, NO EMBRYOS NO USE OF EMBRYOS
17	CREATED WITH PAID GAMETES PROSPECTIVELY, THERE'S
18	NOTHING IN THE TWO-YEAR WAITING PERIOD THAT
19	ADDRESSES THAT.
20	CHAIRMAN LO: YES, I THINK THAT'S RIGHT.
21	PROFESSOR ROBERTS: I JUST WANTED TO MAKE
22	SURE I UNDERSTOOD THE PROPOSAL, AND I THINK I DO.
23	SO REALLY THE QUESTION IS DO THE ISSUES THAT HAVE
24	COME UP SINCE THE 8/08 SINCE CREATING THAT
25	CUTOFF, WHETHER THOSE ISSUES THESE NEW ISSUES
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1	ANSWER ANY QUESTIONS TOO. BUT I HAVE NOT, OF
2	COURSE, BEEN INVOLVED IN THE PRIOR DISCUSSIONS, SO
3	FORGIVE ME IF I, YOU KNOW, MISS SOMETHING THAT
4	YOU'VE DEALT WITH THAT I'M NOT AWARE OF OR BRING UP
5	SOMETHING THAT YOU'VE ALREADY DEALT WITH.
6	BUT JUST WHEN I LEARNED ABOUT THE
7	SITUATION AND THE QUESTIONS THAT WERE BEING ASKED, I
8	FRANKLY THOUGHT IT WAS A LITTLE CURIOUS BECAUSE IT
9	WAS DIFFICULT FOR ME TO IDENTIFY THE POTENTIAL FOR
10	INDUCEMENT OR RISKS TO THE EGG DONORS IN ANY
11	LEGITIMATE TYPE OF MEDICAL SITUATION. AND I THINK
12	WE CAN ALL AGREE THAT THERE ARE SOME BAD PEOPLE IN
13	THE WORLD NOT CONFINED TO THE U.S. AND OTHER
14	COUNTRIES AND WHAT HAVE YOU. AND CERTAINLY THERE'S
15	ALWAYS A POTENTIAL FOR AN UNDUE INDUCEMENT OR RISK
16	IN ANY TYPE OF HUMAN BEHAVIOR. SO I WOULDN'T WANT
17	TO SOUND SO NAIVE THAT I THOUGHT THAT THAT WAS NEVER
18	A POSSIBILITY, BUT I THINK THE REALITY OF MEDICAL
19	PRACTICE, IVF PRACTICE, IN THE UNITED STATES TODAY
20	IS SUCH THAT SOME OF THE STORIES YOU READ OR THINGS
21	THAT PEOPLE BECOME CONCERNED ABOUT REALLY REPRESENT
22	A VERY EXAGGERATED TIP OF THE ICEBERG.
23	SO WHAT I WANTED TO DO IS JUST SORT OF
24	GIVE MY PERSPECTIVE ON WHAT IT'S LIKE ON A
25	DAY-TO-DAY BASIS ACTUALLY PRACTICING MEDICINE AND
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1	HOW, FROM MY PERSPECTIVE, THE DIFFERENT PARTIES
2	INVOLVED WOULD LOOK AT AND DO, IN FACT, LOOK AT,
3	BECAUSE THIS IS WHAT WE DO EVERY DAY, THE
4	REPRODUCTIVE PROCESS. AND SO WE COULD TRY TO
5	IDENTIFY AREAS WHERE THERE MAY BE LEGITIMATE
6	CONCERNS OVER RISK OR INDUCEMENT FOR ANY OF THE
7	PARTIES INVOLVED.
8	SO I MADE THESE SLIDES I ASSUME YOU HAVE
9	THERE, BUT JUST LOOKING AT THE INTEREST OF THE EGG
10	DONOR, THEY CLEARLY WANT TO GET THE EGGS REMOVED
11	FROM THEIR OVARIES WITH THE LEAST AMOUNT OF
12	INCONVENIENCE, DISCOMFORT, AND RISK, AND THEY ALSO
13	WANT TO AVOID ANY CYCLE CANCELLATION BECAUSE IN THE
14	VAST MAJORITY OF PROGRAMS, IF THE EGG DONOR DOES
15	NOT, IN FACT, HAVE AN EGG RETRIEVAL, THEN THE
16	REIMBURSEMENT THEY'RE PAYING FOR DISCOMFORT, TIME,
17	ETC., IS LESS. SO THEY DEFINITELY WANT TO GO
18	THROUGH WITH THE EGG RETRIEVAL ONCE THEY'VE STARTED
19	TAKING THE MEDICATION.
20	IF THE EGG DONOR HAS EXCESSIVE
21	STIMULATION, WHICH IS WHAT ONE WOULD HAVE TO DO IN
22	ORDER TO GET EXTRA EGGS, BY DEFINITION, APPROPRIATE
23	STIMULATION BEING WHAT WOULD OPTIMIZE THE OUTCOME
24	FOR THE RECIPIENT WHILE CLEARLY TAKING INTO ACCOUNT
25	THE HEALTH ISSUES FOR THE DONOR, THEN TRYING TO GET

	DARRISTERS REPORTING SERVICE
1	EXTRA EGGS SO THAT YOU CAN MAKE EXTRA EMBRYOS FOR
2	RESEARCH WOULD, BY DEFINITION, LEAD TO EXCESSIVE
3	STIMULATION. THIS WOULD CAUSE INCREASED DISCOMFORT
4	AND RISK IN THE DONOR, WHICH WOULD CAUSE HER TO
5	PROBABLY HAVE LESS DESIRE TO COME BACK AND DO
6	ANOTHER CYCLE.
7	AND SINCE THERE'S A LARGE INVESTMENT BY
8	THE PRACTICE IN IDENTIFYING EGG DONORS, FINDING
9	THEM, ADVERTISING FOR PEOPLE TO CALL YOU, AND THEN
10	ONCE THEY CALL YOU, GOING THROUGH ALL THE HISTORY
11	AND PHYSICAL AND GENETIC SCREENING AND INFECTIOUS
12	DISEASE SCREENING, THE PSYCHOLOGICAL COUNSELING WE
13	DO AND THE CONSENTING OF THEM TAKES A HUGE AMOUNT OF
14	TIME AND MONEY. AND SO THERE'S A LARGE SORT OF SUNK
15	INVESTMENT IN THE EGG DONOR. AND EXTRA STIMULATION
16	TO GET EXTRA EGGS FOR RESEARCH WOULD NOT MAKE SENSE.
17	AND SO THE EGG DONOR IS NOT GOING TO WANT
18	THE EXTRA STIMULATION, SHE'S NOT GOING TO WANT THE
19	CYCLE TO BE CANCELED. SO SHE'S NOT GOING TO HAVE
20	ANY MOTIVATION TO PROVIDE EXTRA EGGS. AND, OF
21	COURSE, EGG DONORS ARE NOT PAID FOR THE NUMBER OF
22	EGGS THEY GET, NOR FOR THE QUALITY OF THE EGGS THEY
23	GET. THEY'RE PAID A SET AMOUNT REGARDLESS. IF WE

GET NO EGGS, THEY STILL GET PAID THE FULL AMOUNT IF

THEY GO THROUGH AN EGG RETRIEVAL.

23

24

25

1	SO THEY'RE NEVER PAID FOR THE NUMBER OF
2	EGGS OR THE QUALITY OF EGGS. SO THERE'S ABSOLUTELY
3	NO MOTIVATION FROM A REIMBURSEMENT PERSPECTIVE, FROM
4	A PHYSICAL PERSPECTIVE FOR THEM TO WANT TO MAKE MORE
5	EGGS.
6	THE OTHER THING IS THAT IN ESSENTIALLY ALL
7	CASES, WHEN THE EGG DONOR HAS THE EGGS REMOVED FROM
8	HER BODY, SHE DONATES THOSE TO THE RECIPIENTS WHO AT
9	THAT POINT HAVE THE ABILITY TO CONSENT FOR
10	SUBSEQUENT USE OF THOSE EGGS ONCE FERTILIZED AND
11	BECOMING EMBRYOS. SO EVEN THOUGH WE WOULD CLEARLY
12	CONSENT THE EGG DONOR FOR RESEARCH JUST AS WE
13	CONSENT HER IN ADVANCE FOR WHAT TYPE OF SITUATION
14	SHE WANTS THE EGGS USED IN, IF SHE HAD CONSENTED FOR
15	RESEARCH IN GENERAL, ONCE THE EGGS ARE RETRIEVED,
16	SHE'D HAVE NO FURTHER AUTHORITY OVER THOSE EGGS. SO
17	THERE WOULD BE NO MOTIVATION FOR HER TO WANT TO TRY
18	TO EXTEND THAT.
19	SO MY PERSPECTIVE IS THAT THE EGG DONOR
20	WOULD HAVE NO MOTIVATION TO WANT TO PARTICIPATE IN A
21	CYCLE IN WHICH MORE EGGS ARE RETRIEVED BY EXCESSIVE
22	STIMULATION. IN TERMS OF THE RECIPIENT, IT'S VERY
23	CLEAR THAT THESE PEOPLE WHO ARE RECIPIENTS JUST WANT
24	A BABY. NOT ONLY HAVE THEY EXPERIENCED INFERTILITY
25	FOR A LONG TIME IN ALMOST ALL SITUATIONS, BUT A

1	LARGE PROPORTION OF WOMEN WHO GO THROUGH EGG DONOR
2	CYCLES HAVE ALREADY BEEN THROUGH UNSUCCESSFUL IVF
3	CYCLES WITH THEIR OWN EGGS, AND THAT'S WHY THEY'RE
4	USING DONOR EGGS. NOT EVERYBODY, BUT THE LARGE
5	MAJORITY. AND SO THEIR PRIMARY INTEREST IS
6	ABSOLUTELY REPRODUCTION, AND THEY NEVER WANT TO DO
7	ANYTHING THAT'S GOING TO POTENTIALLY LIMIT THAT.
8	SO THEY'RE NOT GOING TO BE PREPARED TO
9	TAKE SOME OF THEIR EMBRYOS AND GIVE THEM AWAY PRIOR
10	TO HAVING THE OPPORTUNITY FOR THEM TO FULFILL THEIR
11	COMPLETE OR MAXIMUM REPRODUCTIVE POTENTIAL. THEY'RE
12	NOT GOING TO WANT THE EGG DONOR TO GET EXTRA
13	STIMULATION BECAUSE IF THE CYCLE IS CANCELED, THEN
14	ALL THE PREPARATION THAT THE WOMAN RECIPIENT HAS
15	UNDERGONE IS GOING TO BE LOST, NOT TO MENTION ALL
16	THE MONEY THAT WILL HAVE BEEN SPENT BECAUSE THEY
17	STILL HAVE TO SPEND THE MONEY TO PAY PART OF THE EGG
18	DONOR CYCLE, OF COURSE, AND THEY HAVE TO PAY FOR
19	THEIR OWN TREATMENT, AND THIS WOULD ALL BE LOST
20	COMPENSATION, LOST TIME, AND LOST EFFORT. SO THEY
21	HAVE NO INTEREST IN GETTING THE DONOR STIMULATED SO
22	MUCH THAT SHE MIGHT BE CANCELED.
23	AND AS HAS BEEN POINTED OUT NOW ON THE
24	ISSUE OF TWO YEARS OR WHATEVER THE TIMEFRAME IS, THE
25	REALITY OF IT IS THAT ESSENTIALLY ALL THE PATIENTS

1	WHO GET FROZEN EMBRYOS EITHER USE THEM FOR A
2	SUBSEQUENT CYCLE IMMEDIATELY IF THEY DID NOT
3	CONCEIVE IN THE FRESH EMBRYO TRANSFER IN THE DONOR
4	CYCLE OR THEY SAVE THEM FOR SUBSEQUENT SIBLING, AND
5	IT USUALLY IS ONLY, YOU KNOW, A COUPLE YEARS OR
6	THREE YEARS OR WHATEVER AFTER THEY'VE DONE THE
7	INITIAL CYCLE THAT THE RECIPIENT COUPLES MAKE A
8	DECISION ON DISPOSITION OF THE EMBRYOS.
9	SO AT THE TIME THAT THEY'RE GOING THROUGH
10	THE CYCLE, THERE'S NO EMOTIONAL MOTIVATION OR
11	OTHERWISE TO CONSIDER THE RESEARCH ISSUE. THAT'S A
12	REALLY AFTER-THE-FACT CONSIDERATION. AT THE SAME
13	TIME, I THINK A LOT OF COUPLES WHO GO THROUGH THIS
14	FEEL THAT THEY MAY NOT WANT TO DONATE THESE EMBRYOS
15	TO ANOTHER COUPLE BECAUSE THAT COULD POTENTIALLY, OF
16	COURSE, RESULT IN SIBLING CHILDREN IN OTHER
17	FAMILIES.
18	I THINK MY PERSPECTIVE IS THAT MANY OF THE
19	PEOPLE WHO DO THIS WOULD BE VERY HAPPY TO DONATE
20	THESE EMBRYOS TO RESEARCH AFTER THEY HAD COMPLETED
21	THEIR FAMILY AND HAD ONE OR TWO OR THREE KIDS OR
22	WHATEVER THEY WANTED, AND THESE CHILDREN ARE WELL ON
23	THEIR WAY IN LIFE. THEN PEOPLE WOULD THINK OF
24	DONATING THESE EMBRYOS AS OPPOSED TO THE
25	ALTERNATIVE, WHICH IS EITHER PAYING TO KEEP THEM
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1	FROZEN, WHICH CAN BECOME EXPENSIVE, OR JUST
2	DISCARDING THEM, WHICH I THINK MANY PEOPLE WOULD
3	LIKE. THEY HAVE THE ALTRUISTIC ALTERNATIVE OF
4	DONATING TO RESEARCH. BUT I DON'T THINK THERE'S
5	GOING TO BE ANY MOTIVATION FOR AT LEAST SIGNIFICANT
6	TIME PERIOD AFTER THE CYCLE.
7	FINALLY, FROM THE PHYSICIAN, IT'S
8	UNFORTUNATE IT'S ALWAYS THE BAD PHYSICIANS WHO SEEM
9	TO MAKE THE NEWS, BUT I THINK THE REALITY OF IT IS
10	THE VAST MAJORITY OF PHYSICIANS WANT TO DO THE RIGHT
11	THINGS FOR THEIR PATIENTS AND TRY, AND THEY CLEARLY
12	HAVE A PROFESSIONAL AND LEGAL DUTY AND OBLIGATION TO
13	DO WHAT'S RIGHT FOR THE EGG DONOR. WE SEE THE EGG
14	DONOR AS OUR PATIENT, AND WE SEE THE RECIPIENTS AS
15	OUR PATIENTS, AND WE SEE OURSELVES AS PROFESSIONALS
16	WHO MUST ENSURE THAT THE BEST INTERESTS OF EACH AND
17	THE HEALTH OF EACH ARE ENSURED.
18	AND OUR CONSENT FORMS AND CONTRACTS AND
19	EVERYTHING ELSE REFLECT THAT WE WILL NOT PUT THE
20	HEALTH RISK OR THE MORAL OR OTHER INTERESTS OF
21	EITHER PARTY AT RISK. THAT'S WHY WE DO THE
22	EXTENSIVE CONSULTING AND COUNSELING, PSYCHOLOGICAL
23	COUNSELING AND SCREENING BEFOREHAND SO THAT
24	EVERYBODY KNOWS WHAT THE ARRANGEMENTS WILL BE.
25	OBVIOUSLY OUR GOAL IS TO OPTIMIZE THE
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1	PREGNANCY RATE FOR THE RECIPIENTS BECAUSE THAT'S
2	WHAT OUR PROFESSIONAL OBLIGATION IS, BUT ALSO WE ALL
3	WANT TO HAVE THE BEST POSSIBLE PREGNANCY RATE SO
4	THAT PEOPLE TELL THEIR FRIENDS AND COME BACK, SO
5	THAT WHEN THE CDC PUBLISHES THEM, THEY LOOK GOOD.
6	SO THE DOCTOR IS NOT GOING TO HAVE ANY INTEREST IN
7	LOWERING THE PREGNANCY RATE BY TAKING SOME EMBRYOS
8	AWAY.
9	THE CYCLE IS COUNTED AS A CYCLE ONCE THE
10	OVARIAN STIMULATION HAS STARTED. SO THAT IF WE
11	OVERSTIMULATE A DONOR AND THEN CANCEL THAT CYCLE AND
12	DON'T GO TO EGG RETRIEVAL, THAT STILL COUNTS AS AN
13	IVF CYCLE IN THE CDC RESULTS THAT GET REPORTED
14	NATIONALLY. SO THAT MEANS THAT YOU HAVE A NUMBER IN
15	THE DENOMINATOR, BUT YOU'RE GOING TO HAVE A ZERO IN
16	THE NUMERATOR BECAUSE YOU COULDN'T EVEN DO THE EGG
17	RETRIEVAL AND GET THE EMBRYOS. SO THE DOCTORS HAVE
18	NO MEDICAL INTEREST ON BEHALF OF EITHER THE PATIENT
19	OR THE RECIPIENT OR THEMSELVES TO HAVE TO DEAL WITH
20	A CANCELED CYCLE.
21	FURTHERMORE, IF THE PATIENT GETS
22	HYPERSTIMULATED, THEN WE HAVE TO TAKE CARE OF THEM,
23	AND THAT MEANS, YOU KNOW, IF IT'S A SERIOUS
24	CONDITION, WE HAVE TO CERTAINLY SEE THEM IN THE
25	OFFICE A LOT MORE AND MAYBE PUT THEM IN THE HOSPITAL

1	AND VISIT THEM IN THE HOSPITAL AND TAKE CARE OF THEM
2	THERE. BESIDES THE OBVIOUS FACT THAT NOBODY WANTS
3	COMPLICATIONS, YOU CERTAINLY DON'T WANT TO HAVE TO
4	DEAL WITH THOSE COMPLICATIONS AND POTENTIALLY DEAL
5	WITH MEDICAL-LEGAL RISKS FROM INAPPROPRIATE
6	TREATMENT OF THE PATIENT.
7	SO THERE ARE A NUMBER OF VERY MAJOR
8	MOTIVATORS FOR THE PHYSICIAN NOT TO OVERSTIMULATE
9	THE PATIENT. AND IT GOES WITHOUT SAYING THAT THE
10	PHYSICIANS HAVE NO ECONOMIC INTEREST IN GETTING
11	EXTRA EGGS OR EMBRYOS FOR RESEARCH BECAUSE THEY'RE
12	NOT COMPENSATED FOR IT.
13	IN ACTUAL FACT, DONATING, TALKING TO
14	PATIENTS, GOING THROUGH THE PROCESS OF DONATING THE
15	EMBRYOS IS A VERY ALTRUISTIC ACTIVITY FOR PHYSICIANS
16	BECAUSE WE GET NO MONEY FOR IT, AND IT TAKES A
17	MASSIVE AMOUNT OF TIME TO DEAL WITH ALL THE
18	CONSENTING AND DISCUSSION WITH PATIENTS AS WELL AS
19	THE PAPERWORK AND THE ACTUAL TRANSFER OF IT. SO
20	THERE'S ABSOLUTELY NO ECONOMIC BENEFIT OF TRYING TO
21	DO IT. AND IT'S ONLY DONE FROM AN ALTRUISTIC
22	PERSPECTIVE.
23	SO I GUESS JUST BEING SOMEONE WHO'S IN THE
24	TRENCHES EVERY DAY DOING THIS, WHILE RECOGNIZING
25	THAT THERE HAVE BEEN STORIES OUT THERE, AND

1	UNDOUBTEDLY THERE ARE SOME PEOPLE WHO HAVE TAKEN
2	ADVANTAGE OF EGG DONORS, FROM ANY NORMATIVE
3	PERSPECTIVE OF ANY OF THE PARTIES INVOLVED, I DON'T
4	SEE ANY MOTIVATION TO DO THE WRONG THING. AND
5	THERE'S A LOT OF MOTIVATION TO DO THE RIGHT THING.
6	SO I WOULD BE, FROM MY PERSPECTIVE, VERY SUPPORTIVE
7	OF NOT HAVING MORE LIMITATIONS THAN ARE NECESSARY.
8	CHAIRMAN LO: DR. ADAMSON, THANK YOU.
9	THAT WAS VERY LUCID AND VERY HELPFUL. QUESTIONS
10	FROM ANYONE ON THE COMMITTEE FOR DR. ADAMSON?
11	DR. TROUNSON: DAVID, DO YOU WANT TO
12	COMMENT ON THE CONSENT PROCESS FOR RESEARCH, AND HOW
13	WIDESPREAD THE GENERAL CONSENT IS FOR RESEARCH THAT
14	MIGHT BE RELEVANT TO EMBRYONIC STEM CELLS?
15	DR. ADAMSON: CERTAINLY. I'M TALKING TO A
16	GROUP OF EXPERTS ON THIS, SO I WOULDN'T WANT TO GET
17	INTO ANY OF THE TECHNICAL REALMS OF IT. BUT WHAT I
18	CAN SAY IS THAT WHEN WE TALK TO PATIENTS AND GIVE
19	THEM THE MAJOR CHOICES THEY HAVE OF DISPOSITION OF
20	EMBRYOS, CLEARLY THE FIRST ONE IS TO REPLACE THEM IN
21	THEIR OWN UTERUS IN AN ATTEMPT TO HAVE A BABY. AND
22	SECOND IS TO FREEZE THEM, WHICH WE CAN OFTEN DO WITH
23	EGG DONORS, SO THAT WE CAN HAVE THEM FOR SUBSEQUENT
24	CYCLES.
25	THE VAST MAJORITY OF PATIENTS CONSENT TO
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1	EMBRYO FREEZING. THERE ARE VERY, VERY FEW WHO
2	DON'T. I WOULD JUST ESTIMATE 1 OR 2 PERCENT AT THE
3	MAXIMUM WHO WOULD NOT AGREE TO EMBRYO FREEZING.
4	USUALLY ON RELIGIOUS OR MORAL GROUNDS, THEY DON'T
5	FEEL IT'S THE RIGHT THING TO DO, BUT CERTAINLY HERE
6	IN CALIFORNIA THAT WOULD BE, IN MY EXPERIENCE, AN
7	EXTREMELY SMALL PROPORTION OF PATIENTS. AND THEN
8	YOU GET INTO THE MORE DIFFICULT ONES, WHICH IS, YOU
9	KNOW, DISCARDING THE EMBRYOS, DONATING THEM TO
10	RESEARCH, OR DONATING THEM TO ANOTHER COUPLE.
11	IN MY PERSPECTIVE THE DONATION TO ANOTHER
12	COUPLE SOUNDS TO MOST OF THE PATIENTS FAIRLY DISTANT
13	BECAUSE THEY DON'T EVEN HAVE THEIR OWN CHILD, SO I
14	THINK THAT'S AN OPTION THAT THEY HAVE A DIFFICULT
15	TIME EMOTIONALLY UNDERSTANDING WHEN WE FIRST DISCUSS
16	IT. OF COURSE, AT A LATER TIME, WHEN THAT CONCEPT
17	COMES UP, THERE'S THE ISSUE THAT THE EMBRYOS THAT
18	COULD BE DONATED TO ANOTHER COUPLE, IN FACT, WOULD
19	BE SIBLING EMBRYOS TO THEIR OWN CHILDREN IF THEY
20	HAVE CHILDREN BECAUSE ALMOST NOBODY DONATES UNTIL
21	THEY'VE USED THEM ALL UP TO HAVE THEIR OWN CHILDREN,
22	SO THEIR FAMILIES ARE COMPLETED. SO THAT'S NOT A
23	VERY POPULAR OPTION FOR PEOPLE.
24	AND SO THEN WE'RE LEFT REALLY WITH THE TWO
25	OPTIONS OF EITHER DONATING TO RESEARCH OR ELSE

1	DISCARDING. AND IN MY EXPERIENCE, WHEN YOU TALK
2	ABOUT DONATING TO RESEARCH, THERE IS A GREAT DEAL OF
3	INTEREST IN DONATING TO ANY TYPE OF STEM CELL
4	RESEARCH BECAUSE, OF COURSE, PEOPLE ARE VERY EXCITED
5	ABOUT WHAT THEY SEE AS THE POSSIBILITY FOR
6	THERAPEUTIC INTERVENTION. AND I THINK ESSENTIALLY
7	EVERYONE HAS A VERY STRONG ALTRUISTIC SENSE WHEN IT
8	COMES TO THIS. THE INFERTILE PATIENTS WHO'VE GONE
9	THROUGH ALL THEIR INFERTILITY, ALL THEIR TREATMENT,
10	THEN END UP USING DONOR EGGS AND END UP HAVING A
11	BABY, I THINK, DO HAVE A REAL INCREDIBLE SENSE OF
12	GRATITUDE ABOUT WHERE THEY ARE. AND I THINK THAT
13	THEY'RE VERY MOTIVATED TO TRY TO DONATE. YOU KNOW,
14	IF THEY COULD DONATE TO RESEARCH, THEY WOULD.
15	AND I THINK THEY WOULD GENERALLY THE
16	DONATION TO RESEARCH WOULD SORT OF FALL INTO TWO
17	CATEGORIES. ARE YOU JUST GOING TO DO SOMETHING WITH
18	THE EMBRYO IN THE LAB THAT, FOR EXAMPLE, IN THE LAB
19	TO DO TESTING OF COMPOUNDS OR CHEMICALS OR SOMETHING
20	IN A STANDARD KIND OF WAY. AND SOME PEOPLE ARE VERY
21	COMFORTABLE WITH THAT, BUT THEY'RE MUCH MORE
22	COMFORTABLE WITH THE CONCEPT THAT THEY WILL BE USED
23	IN EXPERIMENTS THAT COULD POTENTIALLY LEAD TO REAL
24	BENEFIT TO HUMAN KIND.
25	AND SO I THINK A VERY GENERIC CONSENTING
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1	PROCESS OF THESE WILL BE USED IN STEM CELL RESEARCH
2	WITH A VERY RESPONSIBLE BODY. I MEAN THAT'S
3	SOMETHING THAT, FRANKLY, BECAUSE WE'RE HERE AND
4	HISTORICALLY WE'VE BEEN ABLE TO TALK ABOUT, YOU
5	KNOW, WE SENT OUR EMBRYOS TO UCSF, A FEW TIMES TO
6	STANFORD, AND CERTAINLY WITH THE CIRM, IF PEOPLE
7	KNOW THAT THERE'S A VERY, VERY LEGITIMATE BODY DOING
8	THE RESEARCH AND OVERSEEING THE RESEARCH, MY SENSE
9	IS THE PATIENTS, THE VAST MAJORITY OF PATIENTS, 95
10	PERCENT PLUS WOULD BE VERY COMFORTABLE WITH A VERY
11	GENERAL RESEARCH DIRECTIVE TO THAT TYPE OF
12	ORGANIZATION, TRUSTING IN THE SCIENTISTS AND THE
13	PHYSICIANS WHO TALK TO THEM THAT THE RIGHT THINGS
14	WILL BE DONE. AND I DON'T THINK A LOT OF
15	SPECIFICITY WOULD BE NECESSARY AT ALL.
16	AND EVEN WITH THE EGG DONORS, THAT'S
17	PROBABLY EVEN MORE SO BECAUSE YOU DON'T HAVE
18	EMBRYOS. YOU STILL HAVE EGGS. AND THE REALITY OF
19	IT IS, I'M SURE EVERYBODY ON THE COMMITTEE KNOWS,
20	BUT THE REALITY OF IT IS THE WAY OVARIAN STIMULATION
21	WORKS, WE ONLY STIMULATE EGGS THAT ARE POTENTIALLY
22	READY TO BE MATURED AT THAT POINT IN TIME. WE DO
23	NOT GO FORWARD AND TAKE EGGS OUT OF THE OVARY THAT
24	THE WOMAN WOULD HAVE FOR THE FUTURE. THERE'S NO
25	EVIDENCE AT ALL THAT WE DO THAT.

1	IN FACT, IN REALITY WHEN WE STIMULATE THE
2	EXTRA EGGS AND REMOVE THEM FROM THE BODY, WE'RE
3	SIMPLY TAKING EGGS THAT WOULD HAVE DIED DURING THAT
4	CYCLE ANYWAY. AND SO WE'RE NOT CREATING A
5	DELETERIOUS REPRODUCTIVE SITUATION FOR THE PATIENT
6	IN THE FUTURE. SO THERE'S IN A SENSE AN OPPORTUNITY
7	TO HAVE SOME RESEARCH VALUE COME FROM THOSE EGGS
8	THAT THE DONOR IS GIVING RATHER THAN HAVE THEM DIE
9	ON THEIR OWN DURING THAT CYCLE. WHEN WE EXPLAIN
10	THAT TO THE EGG DONOR IN TERMS OF CONSENTING,
11	THEY'RE VERY HAPPY TO THINK, WELL, THESE EGGS ARE
12	GOING TO DIE, OR THEY COULD POTENTIALLY HELP
13	SOMEBODY HAVE A FAMILY, AND THEY COULD POTENTIALLY
14	BE USED IN RESEARCH TO HELP HUMANKIND.
15	AND EVEN THOUGH THESE DONORS DO GET PAID,
16	MAKE NO MISTAKE, THERE'S A LOT OF ALTRUISM, AND THE
17	VAST MAJORITY, I MEAN, YOU CAN IDENTIFY SOMEONE WHO
18	SHOWS UP ONCE IN A WHILE, IT'S ABOUT THE MONEY.
19	MOST OF THEM DON'T MAKE IT THROUGH IT BECAUSE
20	THERE'S TOO MUCH TO DO. THERE'S TOO MUCH OF A
21	COMMITMENT ON THE EGG DONOR PART, THAT IF THEY DON'T
22	HAVE SOME SUBSTANTIAL DEGREE OF ALTRUISM, I THINK
23	HARDLY ANY OF THEM GO THROUGH IT UNLESS THEY ARE
24	FAIRLY HAVE A SUBSTANTIAL COMMITMENT ON THE
25	ALTRUISTIC SIDE OF IT.

1	CHAIRMAN LO: OKAY. THANKS. ANY OTHER
2	QUESTIONS FROM THE COMMITTEE FOR DR. ADAMSON?
3	PROFESSOR ROBERTS: I HAVE A QUESTION.
4	DR. ADAMSON, THIS IS DOROTHY ROBERTS. I UNDERSTOOD
5	EVERYTHING YOU WERE SAYING ABOUT THE LOW TO NO
6	MOTIVATION ON THE PART OF EVERYBODY TO PRODUCE EGGS
7	FOR RESEARCH. BUT THAT SEEMED TO APPLY TO THE
8	SITUATION WHERE THE DOCTOR, LIKE YOURSELF, WAS NOT
9	CONNECTED TO RESEARCH AT ALL. ARE THERE SITUATIONS
10	WHERE THE FERTILITY DOCTOR MIGHT BE EITHER A
11	COLLEAGUE OF SOMEONE WHO IS DOING STEM CELL RESEARCH
12	WHERE THE MOTIVATION MIGHT CHANGE, MIGHT BE
13	DIFFERENT?
14	DR. ADAMSON: I THINK, YOU KNOW, EVERYBODY
15	IS HUMAN. AND SO THERE'S CERTAINLY MOTIVATION. I
16	THINK IT WOULD BE FAIR TO STATE, AND WE'VE CERTAINLY
17	SEEN A LOT OF EXAMPLES IN THE PAPERS RECENTLY, THAT
18	IF SOMEBODY HAD A SUBSTANTIAL FINANCIAL INTEREST IN
19	RESEARCH THAT WERE BEING DONE, THAT THAT WOULD
20	CLEARLY CREATE AN INDUCEMENT THAT SOME PEOPLE WOULD
21	FIND TOO GREAT TO IGNORE. AND SO I'M NOT SO NAIVE
22	AS TO THINK THAT IF SOME PHYSICIAN, YOU KNOW, WERE
23	IN SOME WAY SELLING EMBRYOS TO COUNTRY X, I DON'T
24	WANT TO NAME ONE SOMEWHERE ELSE, THAT THAT WOULD BE
25	PROBLEMATIC.
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1	SO I CERTAINLY DON'T THINK THERE SHOULD BE
2	FINANCIAL INDUCEMENTS THAT ARE AVAILABLE TO
3	PHYSICIANS WHO ARE DOING THAT BECAUSE I THINK THAT
4	COULD CREATE A PROBLEM. THAT DOESN'T MEAN I DON'T
5	THINK PHYSICIANS SHOULD GET COMPENSATED FOR A
6	LEGITIMATE AMOUNT OF WORK THAT'S DONE. THERE'S A
7	LOT OF WORK THAT'S REQUIRED TO CONSENT SOMEBODY AND
8	MOVE THEM. BUT THERE CERTAINLY SHOULDN'T BE ANY
9	TYPE OF MONEY THAT COULD BE CONSIDERED AN
10	INDUCEMENT.
11	NOW, WHETHER YOU JUST GIVE YOU
12	HYPEROVERSTIMULATE A PATIENT OR WHATEVER BECAUSE YOU
13	HAD A COLLEAGUE, I FRANKLY CAN'T IMAGINE THAT. WHY
14	WOULD A DOCTOR GO OUT AND PUT HIS NAME AND HIS
15	PRACTICE AND HIS REPUTATION AT RISK, NOT TO MENTION
16	PRACTICE BAD MEDICINE, BECAUSE SOMEBODY THEY KNEW
17	WAS DOING STEM CELL RESEARCH? FRANKLY, THAT DOESN'T
18	MAKE ANY SENSE TO ME AT ALL. NO, I DON'T SEE THAT.
19	I DO SEE A POTENTIAL HAZARD IF THERE'S A
20	SIGNIFICANT FINANCIAL INDUCEMENT. BUT TO THINK THAT
21	A DOCTOR, BECAUSE THEY'RE GOING TO GET PAID 250
22	BUCKS FOR THE WORK INVOLVED WITH TRANSFERRING
23	EMBRYOS FROM THEIR FACILITY TO A RESEARCH FACILITY,
24	IS GOING TO INDUCE SOMEBODY TO HYPERSTIMULATE A
25	PATIENT AND THEN THE NUMBER OF PHONE CALLS AND
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1	OFFICE VISITS AND TRIPS TO THE HOSPITAL AND WHATEVER
2	TO DEAL WITH THE SICK PATIENT, NO, I THINK THE
3	PROBABILITY OF THAT IS SO CLOSE TO ZERO AS NOT TO BE
4	IMPORTANT. WE'RE ALWAYS GOING TO HAVE PSYCHOPATHS,
5	SOCIOPATHS, AND FELONS. I DON'T THINK WE CAN GET
6	RID OF THEM IN ANY PROFESSION. BUT I THINK THAT THE
7	PROCESS OF LOOKING AT THIS SHOULD LOOK AT WHAT 99
8	PERCENT OF THE PEOPLE ARE GOING TO DO. I WOULDN'T
9	SEE ANY AVERAGE PHYSICIAN BEING INDUCED TO UNLESS
LO	THERE WERE SIGNIFICANT AMOUNTS OF FINANCIAL BENEFIT,
L1	WHICH I THINK CLEARLY SHOULD NOT BE POSSIBLE, SHOULD
L2	BE ILLEGAL TO DO THAT.
L3	CHAIRMAN LO: ANY OTHER QUESTIONS FROM THE
L4	COMMITTEE? DR. ADAMSON, WHILE WE HAVE YOU HERE, I'M
L5	GOING TO ASK IF THERE ARE ANY QUESTIONS FROM THE
L6	PUBLIC MEMBERS HERE IN DOWNTOWN SAN FRANCISCO.
L7	MS. FOGEL: I'M SUSAN FOGEL. I'M WITH THE
L8	PRO-CHOICE ALLIANCE FOR RESPONSIBLE RESEARCH. AND I
L9	GUESS THE QUESTION I WANT TO RAISE IS TO GO BACK TO
20	THIS QUESTION OF THE FACT THAT 88 PERCENT OF THE
21	EMBRYOS ARE CREATED WITH A WOMAN'S OWN EGGS. AND IT
22	WAS INTERESTING TO HEAR WHAT YOU HAD TO SAY, DR.
23	ADAMSON, ABOUT THE RESEARCH BECAUSE ABOUT THE
24	DESIRE TO CONTRIBUTE TO RESEARCH BECAUSE THERE IS A
25	NEW STUDY OUT OF DUKE UNIVERSITY SHOWING THAT 60

PERCENT OF COUPLES WHO'VE CREATED EMBRYOS IN
FERTILITY CONTEXT WOULD LIKE TO BE ABLE TO DONATE
THEM TO RESEARCH. THEY DON'T HAVE A GOOD MECHANISM,
AND STEM CELL RESEARCH IN PARTICULAR, THERE'S NOT A
GOOD MECHANISM TO HELP THEM DO THAT.
SO I FEEL THAT WE'VE DRAWN A LINE ABOUT
PAYMENT. AND SINCE WE'RE TALKING ONLY ABOUT 12
PERCENT, I REALLY WOULD LIKE TO HEAR A LOT MORE
ABOUT THE RESEARCH THAT SUGGESTS THAT THESE 12
PERCENT ARE SO IMPORTANT VERSUS THE REST OF THE 88
PERCENT WHEN YOU HAVE A REALLY WILLING GROUP OF
PEOPLE WHO WANT TO MAKE THEM AVAILABLE FOR RESEARCH.
DR. ADAMSON: THANK YOU, SUSAN. I WOULD
AGREE WITH YOUR COMMENTS. I THINK THAT DR. TROUNSON
MENTIONED SOME OF THE REASONS THAT I THINK WE REALLY
DO WANT TO BE ABLE TO OBTAIN THE EMBRYOS FROM
DONORS THAT HAVE BEEN CREATED THROUGH DONOR EGG
CYCLES THAT WERE THERAPEUTIC CYCLES IN WHICH THE EGG
DONOR WAS PAID BECAUSE THE EGGS DO COME FROM YOUNGER
PATIENTS, AND EVEN THOUGH IT'S A SMALLER IT'S A
SMALL PROPORTION OF THE PATIENTS. IT'S ONLY 12
PERCENT OF THE PATIENTS, BUT BECAUSE THEY'RE
YOUNGER, THEY WILL MAKE MORE EMBRYOS AND THE
PREGNANCY RATES ARE HIGHER.
AND SO PROPORTIONALLY I DON'T KNOW THE
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1	NUMBER, BUT I AM ABSOLUTELY CERTAIN THAT THEY WILL
2	PRODUCE OR HAVE STORED FROZEN SIGNIFICANTLY MORE
3	THAN 12 PERCENT OF THE EMBRYOS.
4	SO I THINK THE EGG DONOR SOURCE OF EMBRYOS
5	IS VERY IMPORTANT, BUT I AGREE COMPLETELY WITH YOU
6	ABOUT FACILITATING THE OPPORTUNITIES FOR INFERTILE
7	COUPLES WHO HAVE UTILIZED THEIR OWN GAMETES TO HAVE
8	A FAMILY AND WHO THEN HAVE FROZEN EMBRYOS THAT THEY
9	DO NOT WANT TO REPLACE IN THEIR OWN UTERUS BECAUSE
10	THEIR FAMILY IS COMPLETED TO BE ABLE TO DONATE THEM
11	MUCH MORE EASILY TO RESEARCH.
12	WE HAVE TRIED WHEN WE FIRST STARTED
13	DOING THIS, IT PROBABLY SOUNDS UNBELIEVABLE, BUT WE
14	SPENT TWO AND THREE YEARS TRYING TO GET THROUGH THE
15	CONSENT FORMING PROCESS WITH UCSF TO TRY TO GET SOME
16	EMBRYOS FROM THEM, WILLING PARTIES. EVERYBODY WAS A
17	WILLING PARTY. THE DOCTORS WERE A WILLING PARTY,
18	THE PATIENT WANTED TO DONATE, AND UCSF WANTED THEM,
19	AND TO GO THROUGH THE PROCESSES TOOK YEARS. AND,
20	FRANKLY, UNLESS THE PHYSICIAN AND THE PATIENTS HAVE
21	A LARGE COMMITMENT TO THIS, IT JUST DOESN'T HAPPEN
22	BECAUSE THE TIME AND EFFORT, AND THAT DOES TRANSLATE
23	INTO COST FOR EVERYBODY, BECOMES TOO GREAT.
24	SO I THINK IT'S IMPERATIVE THAT WE FIND,
25	IN MY VIEW, THAT WE FIND MUCH SIMPLER WAYS THAT

1	STILL TAKE INTO ACCOUNT THE NECESSARY CONSENTING,
2	COUNSELING FOR THE PATIENTS SO THAT THEY ARE
3	COMFORTABLE THAT THEY HAVE MADE THE RIGHT CHOICE FOR
4	THEMSELVES, AND THE APPROPRIATE PROTECTIONS CLEARLY
5	NEED TO BE IN PLACE, BUT I THINK IT IS IMPERATIVE
6	THAT WE SOLVE THIS ISSUE.
7	CHAIRMAN LO: THANK YOU. ANY OTHER
8	QUESTIONS, COMMENTS? ONE OTHER PUBLIC QUESTION FOR
9	YOU, DR. ADAMSON.
10	DR. DARNOVSKY: DR. ADAMSON, THIS IS MARCY
11	DARNOVSKY FROM THE CENTER FOR GENETICS AND SOCIETY.
12	YOU SAID THAT YOU THOUGHT YOU COULD POTENTIALLY SEE
13	A HAZARD IF THE DOCTOR WAS RECEIVING SOME KIND OF A
14	FINANCIAL RETURN, A SIGNIFICANT FINANCIAL RETURN
15	BEYOND, YOU KNOW, APPROPRIATE REIMBURSEMENT FOR HIS
16	OR HER TIME AND EFFORTS. SO I GUESS MY QUESTION IS
17	WOULD YOU ALSO SEE A HAZARD IF THE FERTILITY DOCTOR
18	WAS NOT RECEIVING MONEY, BUT WAS HIMSELF OR HERSELF
19	ENGAGED IN STEM CELL RESEARCH AS EVIDENCED BY PAPERS
20	PUBLISHED IN PEER REVIEW JOURNALS AND THINGS LIKE
21	THAT?
22	DR. ADAMSON: I THINK THAT THAT WHILE I
23	WOULDN'T SAY THAT ANY TIME THERE WAS A RELATIONSHIP
24	LIKE THAT THERE WAS DEFINITELY A HAZARD. I WOULD
25	ABSOLUTELY AGREE THAT IF A PHYSICIAN WERE INVOLVED

1	IN DOING DIRECTLY INVOLVED IN DOING STEM CELL
2	RESEARCH OR IN OTHER ACTIVITIES THAT CREATED
3	ECONOMIC BENEFIT FOR THEM, THAT IT WOULD CERTAINLY
4	BE POTENTIALLY PROBLEMATIC FOR THEM TO BE CREATING
5	EMBRYOS.
6	NOW, I WANT TO MAKE IT VERY CLEAR THAT I
7	USE POTENTIALLY BECAUSE I THINK IT'S INAPPROPRIATE
8	TO CONSIDER THAT EVERY PHYSICIAN WHO IS INVOLVED IN
9	AN ACTIVITY IS GOING TO TRY TO IDENTIFY A WAY TO,
10	YOU KNOW, ENSURE THAT THEIR SELF-INTEREST IS
11	OPTIMIZED POTENTIALLY AT THE EXPENSE OF OTHERS. I
12	THINK THAT'S A PEJORATIVE PERSPECTIVE ON PHYSICIANS
13	WITH WHICH I WOULD NOT AGREE.
14	HAVING SAID THAT, IT'S ABSOLUTELY CLEAR
15	THAT WHERE ECONOMIC FINANCIAL INDUCEMENTS OR
16	RELATIONSHIPS ARE SUCH THAT ONE COULD GAIN
17	SUBSTANTIALLY FROM AN ACTIVITY IN ONE SPHERE, GAIN
18	IN ANOTHER SPHERE, I THINK THAT ANY TYPE OF
19	SITUATION LIKE THAT WOULD HAVE TO BE EVALUATED
20	EXTREMELY CAREFULLY TO MAKE SURE THAT IT WAS A
21	LEGITIMATE RELATIONSHIP. AND IT MAY WELL BE THAT A
22	DECISION WAS MADE THAT MOST OF THE TIME OR ALL THE
23	TIME THEIR RELATIONSHIP, EVEN IF IT APPEARED TO GIVE
24	THE POTENTIAL OR HAZARD TO THE PATIENT, THAT IT
25	SHOULD NOT BE ALLOWED.
	SHOULD NOT BE ALLOWED.

1	AND I WOULDN'T I DON'T FEEL I'M IN A
2	POSITION TO PROVIDE DETAILS AND EVERYTHING RIGHT AT
3	THIS POINT, BUT, YES, I WOULD SHARE A CONCERN ABOUT
4	A PROBLEM. AND I THINK IF SUCH RELATIONSHIPS WERE
5	ALLOWED, THEY'D HAVE TO BE VERY, VERY CAREFULLY
6	STRUCTURED AND THAT WHATEVER WAS STRUCTURED NOT ONLY
7	BE LEGITIMATE AND APPROPRIATE FOR THAT INDIVIDUAL,
8	BUT SHOULD BE FOR THE PROCESS OVERALL AND SHOULD
9	APPEAR TO BE SO FOR THE PUBLIC CONFIDENCE IN THE
10	ENTIRE ARRANGEMENT FOR THE EMBRYO DONATION TO
11	RESEARCH.
12	I THINK CREATING A LEGITIMATE PROCESS WITH
13	INTEGRITY THAT THE PUBLIC HAS CONFIDENCE IN WOULD BE
14	THE BEST WAY TO OPTIMIZE THE UTILIZATION OF THESE
15	FROZEN EMBRYOS. AND I THINK THAT LIMITING CERTAIN
16	RELATIONSHIPS OR ECONOMIC RELATIONSHIPS IN ORDER TO
17	ACHIEVE THIS WOULD BE LEGITIMATE.
18	CHAIRMAN LO: OTHER QUESTIONS? DR.
19	ADAMSON, THIS IS BERNIE LO. COULD I ASK YOU A
20	COUPLE QUESTIONS? IT SOUNDS LIKE FROM WHAT YOU SAID
21	THAT IN THE U.S. AND PARTICULARLY FOR PHYSICIANS WHO
22	ARE MEMBERS OF SART, THERE ARE MANY INCENTIVES FOR
23	DOCTORS NOT TO PUT EITHER DONORS OR RECIPIENTS AT
24	RISK IN ORDER TO FURTHER STEM CELL RESEARCH. I
25	THOUGHT YOU LAID THAT OUT VERY NICELY.

1	I'M JUST WONDERING IF WE SHOULD HAVE
2	CONCERNS IN SITUATIONS OTHER THAN SORT OF THE ONE
3	YOU SKETCHED. I GUESS THE COUPLE OF QUESTIONS I
4	WOULD LIKE TO GET YOUR THOUGHTS ON, YOU MENTIONED
5	THAT HAVING TO REPORT OUTCOMES IN IVF CENTERS BASED
6	ON SUCCESS RATES WHICH INCLUDE CYCLES THAT HAVE
7	STARTED IS A BIG DISINCENTIVE TO TRYING TO
8	OVERSTIMULATE A PATIENT AND POTENTIALLY CANCEL A
9	CYCLE.
10	SO MY FIRST QUESTION IS SHOULD THERE BE A
11	PROVISION IN OUR DISCUSSION THAT THE EMBRYOS SHOULD
12	EITHER BE FROM SART MEMBER PROGRAMS OR THE PROGRAMS
13	THAT REPORT THEIR SUCCESS RATE TO THE SART CDC
14	DATABASE?
15	AND MY SECOND QUESTION REALLY HAS TO DO
16	WITH INTERNATIONAL CONTEXT BECAUSE THIS IS PERHAPS
17	AN INTERNATIONAL SITUATION. I'M JUST WONDERING IF
18	IN OTHER COUNTRIES THE PROTECTIONS YOU OUTLINE OR
19	THE INCENTIVES OUTLINED IN THE U.S. WOULDN'T HOLD,
20	AND THERE WOULD BE CONCERNS ABOUT OVERSTIMULATION.
21	DR. ADAMSON: I THINK THAT, YES, I WOULD
22	RESTRICT DONATION TO PROGRAMS THAT AGREED TO ADHERE
23	TO CERTAIN STANDARDS. I SINCERELY HAVE SOME BIAS IN
24	THINKING THAT SART WOULD BE A VERY APPROPRIATE
25	PLACE, ORGANIZATION WITH WHOM TO WORK TO ESTABLISH

1	ANY ADDITIONAL STANDARDS AND TO LOOK AT THE
2	STANDARDS THEY HAVE AND TO COMMUNICATE WITH SART AND
3	WITH ASRM ABOUT ANY ISSUES SO THAT THEY COULD BE
4	ADDRESSED AND MUTUALLY AGREEABLE GUIDELINES,
5	PRINCIPLES, ARRANGEMENTS COULD BE ESTABLISHED FOR
6	THAT. SO I THINK THAT WOULD BE VERY APPROPRIATE.
7	FROM AN INTERNATIONAL PERSPECTIVE, AND I
8	HAVE BEEN I'M ON THE BOARD OF THE INTERNATIONAL
9	COMMITTEE MONITORING ART, SO WE ACTUALLY PUBLISH THE
10	IVF RESULTS FROM ALL AROUND THE WORLD, THE WORLD
11	REPORT ON IVF RESULTS. SO I'VE HAD A LOT OF
12	EXPERIENCE WITH THE INTERNATIONAL COMMUNITY IN THE
13	PUBLISHING OF ART RESULTS THROUGH REGISTRIES AND
14	HAVE DONE SOME WORK WITH THE WHO ON THIS AS WELL.
15	I THINK THE INTERNATIONAL SITUATION IS
16	VERY VARIABLE. THERE ARE UNQUESTIONABLY SOME
17	COUNTRIES FROM WHICH I THINK WE COULD HAVE A LOT OF
18	CONFIDENCE THAT STANDARDS THAT WERE SIMILAR TO OURS
19	WOULD BE IN PLACE AND THAT WE POTENTIALLY HAVE
20	INTERNATIONAL ARRANGEMENTS. THERE ARE
21	UNQUESTIONABLY SOME COUNTRIES, WHICH I PREFER NOT TO
22	NAME AT THIS POINT, BUT WITH WHICH THERE MAY, IN
23	FACT, BE SOME REAL CONCERN ABOUT THE REGULATORY
24	FRAMEWORK AND THE ABILITY TO PROTECT ALL THE
25	INVOLVED PARTIES.

AND SO I THINK THAT RELATIONSHIPS COULD BE
ESTABLISHED, BUT IT WOULD BE IMPORTANT TO HAVE A
GUIDELINE/REGULATORY FRAMEWORK UNDER WHICH THAT
COULD BE DONE. AND EACH ONE WOULD HAVE TO BE
ASSESSED INDIVIDUALLY.
CHAIRMAN LO: ANY FURTHER QUESTIONS FROM
THE COMMITTEE FOR DR. ADAMSON? I WANT TO
ACTUALLY WE ARE SCHEDULED TO END AT 1 O'CLOCK.
AND SO I WOULD LIKE TO SORT OF GET US BACK TO THE
SUGGESTION, THE PROPOSAL TO CHANGE THE CUTOFF DATE.
AND I WANTED TO SEE IF, AFTER DR. ADAMSON'S
PRESENTATION, DISCUSSION, ANYONE WANTS TO SUGGEST
ANY CHANGES OR MAKE ANY COMMENTS ON THE PROPOSAL TO
HAVE WHAT GEOFF HAS CALLED A ROLLING STANDARD FOR
USE OF EMBRYOS? OKAY. PUBLIC COMMENT ON THE
PROPOSAL?
MS. FOGEL: THIS IS SUSAN FOGEL AGAIN. I
GUESS WE THE PRO-CHOICE ALLIANCE FOR RESPONSIBLE
RESEARCH WOULD NOT LIKE TO SEE THE CUTOFF DATE
CHANGED. WE DON'T THINK THERE'S YET BEEN SUFFICIENT
EVIDENCE. I RESPECT OBVIOUSLY YOUR EXPERTISE, DR.
TROUNSON, BUT I THINK THAT THE WORKING GROUP REALLY
OUGHT TO LOOK MUCH MORE CAREFULLY AT THE EVIDENCE
THAT THERE'S A NEED TO CHANGE IT.
WE'VE ALREADY HEARD ABOUT HOW THERE ARE
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1	PEOPLE WHO WANT TO DONATE THEIR EMBRYOS, WHO HAVEN'T
2	BEEN ABLE TO. APPARENTLY IT'S ALL YOUR FAULT,
3	BERNIE, BUT I THINK THAT OTHER AVENUES OUGHT TO BE
4	INVESTIGATED BEFORE WE CROSS THE LINE. WE ARE
5	CROSSING A LINE ABOUT PAYMENT, AND I THINK WE HAVE
6	TO BE REALLY CONSCIOUS AND CLEAR ABOUT THE FACT THAT
7	WE ARE CROSSING A PAYMENT LINE, AND THAT THERE NEEDS
8	TO BE MORE AND BETTER INFORMATION BEFORE THE WORKING
9	GROUP BEFORE THEY RECOMMEND THAT THAT LINE BE
10	CROSSED.
11	PROFESSOR ROBERTS: I JUST WANT TO ADD TO
12	WHAT SUSAN IS SAYING. WHAT I FIND LACKING OR I'D
13	LIKE TO SEE MORE ABOUT IS NOT JUST WHETHER THERE ARE
14	WAYS SO THAT PEOPLE WHO CREATED EMBRYOS WITH THEIR
15	OWN GAMETES AND THERE ARE NO PAID GAMETES INVOLVED
16	COULD DONATE, BUT ALSO, THEN, THE QUESTION OF
17	WHETHER THEIR EMBRYOS ARE OF LESS QUALITY FOR STEM
18	CELL RESEARCH PURPOSES THAN THOSE OF PAID DONORS.
19	AND A COUPLE PEOPLE HAVE STATED THAT. AND MAYBE I
20	JUST DON'T HAVE ALL THE INFORMATION THAT OTHERS
21	HAVE, BUT I JUST I WONDER IS THAT SOMETHING THAT
22	HAS BEEN SHOWN IN EVIDENCE-BASED RESEARCH, OR IS IT
23	A GENERAL SENSE THAT LOGICALLY THE YOUNGER DONORS,
24	THAT THEIR EMBRYOS WOULD BE OF HIGHER QUALITY AND
25	VITALITY? WHAT IS THE SCIENTIFIC BASIS FOR THAT?

AND ALSO, DO WE KNOW WHAT IMPACT THAT ACTUALLY HAS
ON STEM CELL RESEARCH?
SO IS THERE EVIDENCE THAT LACKS A SUPPLY
OF EMBRYOS CREATED WITH YOUNGER WOMEN'S EGGS IS
HAVING A DETRIMENTAL IMPACT ON STEM CELL RESEARCH?
DR. ADAMSON: COULD I JUST ANSWER THAT?
THIS IS DR. ADAMSON, AND I AM NOT GOING TO ANSWER
THIS WITH RESPECT TO STEM CELLS BECAUSE DR. TROUNSON
CAN CERTAINLY DO THAT. BUT I JUST, YOU KNOW, NEED
TO MENTION THAT FROM A CLINICAL PERSPECTIVE, WE WORK
WITH PATIENTS OF ALL AGES, OF COURSE, FROM EARLY
TWENTIES UP THROUGH MID-FORTIES. AND FROM A
BIOLOGIC PERSPECTIVE, THERE ARE LITERALLY THOUSANDS,
IF NOT TENS OF THOUSANDS, OF PAPERS IN THE
LITERATURE WHICH DEMONSTRATE THAT AS A WOMAN GETS
OLDER, THE EGG QUALITY AS EVIDENCED BY ITS
CHROMOSOMAL CONTENT AND EVIDENCED BY ITS ABILITY TO
MAKE AN EMBRYO THAT WILL IMPLANT AND GROW INTO A
BABY, NOT TO MENTION THE FACT THAT THE CHROMOSOMAL
ABNORMALITIES GO UP AS THE EMBRYOS GET OLDER, THAT
THERE IS JUST ABSOLUTELY OVERWHELMING EVIDENCE THAT
THE BIOLOGIC VIABILITY AND REPRODUCTIVE POTENTIAL OF
THE OLDER EMBRYO IN THE CLINICAL SITUATION IS
DRAMATICALLY LESS THAN THAT OF THE YOUNGER EGG DONOR
WHO COMES FROM A, QUOTE, NORMAL, QUOTE, POPULATION,
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1	NOT AN INFERTILE POPULATION.
2	SO I'M NOT TRYING TO SPEAK TO THE STEM
3	CELL, BUT THE BIOLOGIC REALITY AND PLAUSIBILITY THAT
4	A STEM CELL WOULD BE AFFECTED IS CLEARLY
5	OVERWHELMING, I THINK.
6	PROFESSOR ROBERTS: IS THERE THAT
7	CONNECTION BECAUSE YOU'RE SPEAKING OF THE POTENTIAL
8	FOR CREATING AN EMBRYO, BUT WE'RE TALKING ABOUT
9	EMBRYOS THAT ALREADY HAVE BEEN CREATED AND EXIST FOR
10	STEM CELL RESEARCH. AND MAYBE I'M WRONG. ARE WE
11	CONCERNED NOW WITH THE REPRODUCTIVE CAPACITY? ISN'T
12	THAT DIFFERENT FROM USE FOR STEM CELL RESEARCH?
13	DR. ADAMSON: I'D LET DR. TROUNSON
14	RESPOND. WE ARE TALKING ABOUT CELL POTENTIAL. AND
15	CERTAINLY YOU HAVE AN EMBRYO FROM A 42-YEAR-OLD AND
16	AN EMBRYO FROM A 23-YEAR-OLD, AND THEY'RE BOTH
17	EMBRYOS, AND THEY CAN ACTUALLY LOOK THE SAME, BUT
18	THEIR REPRODUCTIVE POTENTIAL IS COMPLETELY
19	DIFFERENT. BUT I DON'T WANT TO GET PAST MY AREA,
20	WHICH IS CLINICAL EMBRYOS AND IMPLANTATION RATES AND
21	WHAT HAVE YOU. BUT CERTAINLY THERE'S ABSOLUTELY NO
22	QUESTION ABOUT THAT DIFFERENTIAL, WHICH IS VERY
23	LARGE.
24	PROFESSOR ROBERTS: I DON'T MEAN TO
25	BELABOR THE POINT, BUT IS THAT REPRODUCTIVE
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1	POTENTIAL THE SAME POTENTIAL THAT'S IMPORTANT FOR
2	STEM CELL RESEARCH?
3	CHAIRMAN LO: I WOULD ASK ALAN TO COMMENT
4	ON THAT.
5	DR. TROUNSON: WELL, IT IS BECAUSE THE
6	DEGREE IN WHICH THE EMBRYO IS CABLE OF MULTIPLYING
7	IN VIVO IS ALSO HIGHLY CORRELATED TO WHETHER THEY
8	GROW IN THE LABORATORY AND FORM STEM CELLS. WE
9	WOULD HAVE TO GET OUT THE LITERATURE FOR THAT, AND I
10	DON'T KNOW HOW MUCH OF IT IS ANECDOTAL AND HOW MUCH
11	OF IT IS REALLY PRESENT IN CAREFULLY DEFINED
12	EXPERIMENTS. BUT TO MY KNOWLEDGE, AT LEAST WHEN I
13	WAS MAKING EMBRYONIC STEM CELLS, THE VAST MAJORITY
14	CAME FROM YOUNG WOMEN, AND VERY FEW CAME FROM WOMEN
15	OVER THE AGE OF 35.
16	SO YET THE VAST MAJORITY OF EMBRYOS IN THE
17	FREEZER, DAVID, WOULD COME FROM PATIENTS WHO ARE
18	OVER THE AGE OF 35. SO WE COULD LOOK UP THAT
19	INFORMATION AND PROVIDE THAT TO YOU AS BEST WE CAN.
20	I CAN ASK GEOFF TO SCAN THE LITERATURE AND PROVIDE
21	THAT.
22	MR. SHEEHY: COULD I ASK A QUESTION,
23	BERNIE?
24	CHAIRMAN LO: YES, PLEASE, JEFF.
25	MR. SHEEHY: YOU KNOW WHAT WOULD REALLY
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1072 BRISTOL STREET, COSTA MESA, CALIFORNIA 92626 1-800-622-6092 1-714-444-4100 EMAIL: DEPO@DEPO1.COM

1	HELP ME IS IF MAYBE IF THERE WAS SOME SORT OF
2	SUMMATION, MAYBE YOU OR GEOFF. I'M REALLY TRYING TO
3	UNDERSTAND THE RISK-BENEFIT KIND OF BALANCING THAT
4	WE'RE DOING HERE. WHAT ARE THE REAL RISKS OF SOME
5	NEGATIVE CONSEQUENCE TO A DONOR IF WE MAKE THIS
6	CHANGE? AND HOW IMPORTANT IS THE TWO YEARS? DOES
7	IT NEED TO BE TWO YEARS? IS IT JUST SIMPLY WELL,
8	I'M HAVING A LOT OF TROUBLE TODAY. MY COLD IS
9	MUDDLING MY THOUGHTS.
10	WHAT ARE WE WHY ARE WE PROPOSING THIS
11	CHANGE? IS THERE A BENEFIT TO THE PARENTS BEING
12	ABLE TO KNOW THAT THEIR DONATION IS PART OF THIS
13	PROCESS WHEN THEY'RE DOING IT? WHAT'S GOING ON WITH
14	THE RECIPIENT, YOU KNOW, THE PEOPLE WHO ARE ACTUALLY
15	HAVING THE KIDS AND HAVE THE CUSTODY OF THE EMBRYOS?
16	YOU KNOW WHAT I MEAN? WHAT AM I BALANCING HERE?
17	AND THEN HOW DOES THAT TIMEFRAME IMPACT THAT? IS
18	THE TIMEFRAME FAIRLY ARBITRARY? JUST TRYING TO GET
19	A LAY OF ALL THAT. DOES THAT MAKE SENSE, OR IS THAT
20	TOO MUDDY?
21	DR. TROUNSON: I DON'T KNOW WHETHER DAVID
22	ADAMSON WOULD CARE TO COMMENT ON THAT. IT WAS A
23	LITTLE DIFFICULT TO FOLLOW THE THREADS.
24	MR. SHEEHY: IT SEEMS LIKE THAT WHAT OUR
25	REAL BALANCE HERE IS THE REAL OR PERCEIVED RISK TO

1	THE DONOR OF THE EGGS. AND IT SEEMS TO ME THAT THE
2	ONLY REASON TO CHANGE IT IS TO SOMEHOW WHY WOULD
3	WE CHANGE IT, MAYBE CONVENIENCE? IS THERE SOME
4	BENEFIT THAT ACCRUES TO THE PARENTS BY US CHANGING
5	THIS? DOES IT HELP THEM IN THEIR DECISION-MAKING
6	PROCESS, OR IS THAT IRRELEVANT?
7	CHAIRMAN LO: JEFF, LET ME TAKE A STAB AT
8	THIS, AND OTHERS CAN CERTAINLY CORRECT ME OR
9	SUPPLEMENT. I THINK THE RATIONALE FOR DOING THIS,
10	AS I UNDERSTAND IT, IS, FIRST, THE ARGUMENT THAT THE
11	PAID DONORS ARE YOUNGER AND EMBRYOS FORMED FROM
12	THEIR OOCYTES MAY BE BETTER FOR STEM CELL RESEARCH
13	AS THEY ARE FOR CLINICAL PURPOSES. THAT'S BEEN
14	DISCUSSED, AND ALAN TRIED TO ANSWER THAT.
15	I THINK THE OTHER RATIONALE STRIKES ME
16	WOULD BE THAT ONCE A WOMAN HAS MADE OR A COUPLE IN
17	IVF IS THE RECIPIENTS NOW HAVE MADE THE DECISION NOT
18	TO CONTINUE TO USE THESE FROZEN EMBRYOS FOR THEIR
19	OWN REPRODUCTION AND NOT TO DONATE THEM TO ANOTHER
20	COUPLE FOR REPRODUCTION, THIS DECISION BETWEEN
21	EITHER LEAVING THEM IN STORAGE INDEFINITELY OR
22	THAWING THEM AND DISCARDING THEM OR GIVING TO
23	RESEARCH IS DIFFICULT. AND ALLOWING THAT DECISION
24	FOR RESEARCH TO BE MADE FOR EMBRYOS THAT WERE MADE
25	FROM PAID OOCYTE DONORS AFTER 8/08 MAY BE A BENEFIT

1	TO SOME WOMEN AND COUPLES. I THINK THAT WOULD BE
2	THE ARGUMENT.
3	IN TERMS OF THE WHY WOULD THEY NOT WANT TO
4	DO IT, I THINK THE ARGUMENTS I'VE HEARD IN THE
5	DISCUSSION ARE THAT THERE ARE EVIDENTLY IT
6	SOUNDED LIKE THERE WERE STILL CONCERNS ABOUT ANY
7	PAYMENT FOR REPRODUCTIVE MATERIALS IN A RESEARCH
8	CONTEXT EVEN THOUGH THEY ORIGINALLY WERE MEANT FOR
9	CLINICAL PURPOSES.
10	I THINK THE SECOND THING WOULD BE DR.
11	ADAMSON, I THINK, GAVE US A LOT OF INFORMATION TO
12	ADDRESS THE CONCERN THAT SOMEHOW ALLOWING DONOR-PAID
13	OOCYTE-DERIVED EMBRYOS TO BE USED FOR RESEARCH WOULD
14	SOMEHOW PUT THE OOCYTE DONORS AT RISK. I THINK DR.
15	ADAMSON PRESENTED ARGUMENTS THAT THE INCENTIVES
16	WOULD NOT WORK THAT WAY AT ALL. ANOTHER CONCERN HAD
17	BEEN RAISED FOR PROTECTION OF THE OOCYTE DONORS.
18	JEFF SHEEHY ALSO ASKED A QUESTION OF WHY
19	TWO YEARS RATHER THAN THREE YEARS. I'M NOT SURE
20	THERE'S AN EVIDENCE-BASED RATIONALE FOR THAT. SO I
21	THINK THAT WAS SORT OF A FIGURE THAT WAS JUST
22	SUGGESTED.
23	MR. SHEEHY: WE COULD ACHIEVE THE SAME
24	THING I MEAN PRESUMABLY WE'VE OPENED UP A WHOLE
25	NUMBER OF PAID-DONOR EMBRYOS WITH OUR PREVIOUS
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1	SHIFT, HAVEN'T WE? IF WE JUST WAIT A YEAR, WE OPEN
2	UP ANOTHER. I'M NOT SURE I'M HAVING TROUBLE
3	UNDERSTANDING I'M REALLY HAVING TROUBLE
4	UNDERSTANDING THE RATIONALE FOR THE CHANGE GIVEN
5	THAT EVERYBODY WHO DONATED BEFORE AUGUST, THAT WE
6	HAVE THIS WHOLE WE HAVE A WHOLE BUNCH OF
7	MATERIALS THAT WERE NOT AVAILABLE FOR RESEARCH THAT
8	WERE SUDDENLY MADE AVAILABLE FOR RESEARCH,
9	PRESUMABLY, OR SOME NUMBER OF MATERIALS.
10	CHAIRMAN LO: JEFF, YOU'RE CERTAINLY
11	RIGHT, IF I UNDERSTAND THE NUMBERS RIGHT, THAT WE'RE
12	TALKING ABOUT A TWO-YEAR SORT OF WAITING PERIOD. SO
13	YOU COULD NOT USE ANY EMBRYO CREATED ON 8/14/08
14	UNTIL 8/14/10, SO WE DON'T HAVE TO MAKE A DECISION
15	TODAY OR HAVE THE ICOC DO IT RIGHT NOW. SO THIS IS
16	NOT AN URGENT MATTER. THERE'S BEEN SEVERAL PEOPLE
17	THAT HAVE ASKED FOR MORE INFORMATION, AND WE CAN
18	CERTAINLY COME BACK TO THAT. I THINK YOU'RE
19	CERTAINLY RIGHT, THAT WE CAN WAIT AND SEE WHAT
20	HAPPENS WITH THE CHANGE THAT WAS MADE LAST AUGUST.
21	MR. SHEEHY: BECAUSE WE CAN JUST AT SOME
22	ARBITRARY POINT IN THE FUTURE MOVE THAT LINE.
23	CHAIRMAN LO: YES.
24	MR. SHEEHY: WE WILL HAVE KNOWN WE WILL
25	STILL HAVE THAT ASSURANCE THAT THOSE EMBRYOS WERE
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	LJ/

1	NOT CREATED WITH RESEARCH IN MIND BECAUSE THAT WOULD
2	NOT HAVE BEEN POSSIBLE. AS LONG AS NO ONE
3	ANTICIPATES US MOVING THAT LINE OR WE DECLARE THAT
4	WE ARE GOING TO MOVE THAT LINE, THERE'S NOT ENOUGH
5	ASSURANCE FOR ANYONE TO DO THAT, ESPECIALLY IF THEY
6	DON'T KNOW WHEN THAT LINE IS GOING TO BE MOVED,
7	RIGHT?
8	CHAIRMAN LO: LET ME JUST SAY, THOUGH, DR.
9	ADAMSON, IF HE'S STILL ON THE LINE CAN ADDRESS THIS.
10	GEOFF LOMAX RAISED THE CONCERN EARLIER THAT FROM THE
11	POINT OF VIEW OF THE IVF CLINIC, TO GO THROUGH THE
12	CIRM CONSENT PROCESS FOR OOCYTE DONORS WHOSE EMBRYOS
13	IS A BIG DEAL. SO TO THE EXTENT THAT WE WANT THE
14	WOMEN WHO ARE PAID OOCYTE DONORS FOR IVF, WHEN THEY
15	GIVE BECAUSE NOW THEY'RE GOING TO HAVE TO CONSENT
16	FOR STEM CELL RESEARCH, NOT JUST GENERAL CONSENT FOR
17	RESEARCH IN GENERAL BECAUSE WE CHANGE THAT DEADLINE.
18	WE WOULD WANT THAT TO BE A PRETTY DETAILED
19	DISCUSSION. AND DR. ADAMSON ALREADY SAID, AS I
20	UNDERSTAND IT, THAT'S NOT COMPENSATED. IT TAKES
21	TIME TO DO WELL, AND THERE'S NOT THERE WOULD BE
22	EVEN LESS INCENTIVE TO HAVE THAT DISCUSSION IF
23	PEOPLE THOUGHT THAT THE OOCYTES THE EMBRYOS
24	RESULTING FROM THOSE PAID DONORS WOULDN'T BE USED
25	FOR RESEARCH. SO TO SIGNAL SOMEHOW THAT THERE'S
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	1

1	THAT POSSIBILITY AND SO, THEREFORE, THAT THE IVF
2	PRACTICES SHOULD PUT REAL EFFORT INTO SORT OF MAKING
3	THAT CONSENT FOR RESEARCH BY THE OOCYTE DONOR TO BE
4	THOROUGH MIGHT BE A FACTOR TO CONSIDER.
5	DR. ADAMSON, WOULD YOU LIKE TO COMMENT ON
6	THAT POSSIBILITY?
7	DR. ADAMSON: I REALLY BELIEVE THAT THE
8	BENEFITS OF HAVING THE EMBRYOS POTENTIALLY AVAILABLE
9	FOR DONATION FOR RESEARCH SO GREATLY OUTWEIGH ANY
10	THEORETICAL RISKS, IN THE ABSENCE OF FELONIOUS OR
11	PSYCHOPATHIC BEHAVIOR, WHICH CLEARLY OCCURS, BUT NOT
12	OFTEN, THAT A GUIDELINE THAT WOULD OPTIMIZE OUR
13	ABILITY TO CONSENT PATIENTS AHEAD OF TIME AND TO
14	FACILITATE THE EMBRYO DONATION WOULD BE HELPFUL.
15	AND SO I THINK THE CONCEPT OF A ROLLING TIMELINE
16	LOOKS VERY ATTRACTIVE TO ME. I THINK IT PROVIDES
17	EVEN ADDED PROTECTION INTO THE SYSTEM. AND
18	CERTAINLY IF THAT WERE DONE IN CONJUNCTION WITH A
19	LIST OF REQUIREMENTS THAT HAD TO BE FOLLOWED OR
20	GUIDELINES, ETC., I THINK WOULD REALLY REPRESENT A
21	PROTECTION TO THE INTEREST OF THOSE INVOLVED.
22	I'M NOT SURE IF EVERYONE IS AWARE OF THE
23	FACT THAT EGG DONORS HAVE EXTENSIVE SCREENING
24	ALREADY. HISTORY AND PHYSICAL EXAMINATION, THEY
25	HAVE GENETIC IN OUR PRACTICE THEY HAVE GENETIC
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1	QUESTIONNAIRES, THEY HAVE GENETIC COUNSELING WITH A
2	GENETICIST AND GENETIC SCREENING, THEY HAVE
3	INFECTIOUS DISEASE SCREENING. IN OUR PRACTICE, NOT
4	NECESSARILY ALL OF THEM, THEY GO THROUGH DRUG AND
5	ALCOHOL SCREENING. THEY HAVE PSYCHOLOGICAL
6	QUESTIONNAIRES AND FORMAL ASSESSMENT AND FORMAL
7	COUNSELING IN A SESSION WITH A MENTAL HEALTH
8	PROFESSIONAL.
9	AND SO THERE'S A LOT THAT'S DONE, AND THE
10	ADDITION OF, YOU KNOW, ANOTHER CONSENTING GUIDELINE
11	OR TWO THAT WOULD ENABLE THEM TO DONATE THEIR
12	EMBRYOS IN A VERY ETHICAL AND ALTRUISTIC WAY, I
13	THINK, WOULD BE EXTREMELY HELPFUL. BUT AT SOME
14	POINT, THIS IS CLEARLY AN EVOLUTIONARY ISSUE, BUT I
15	THINK TO THE DEGREE THAT MORE CERTITUDE CAN BE
16	BROUGHT TO THE PROCESS, THE MORE MOTIVATION THERE'S
17	GOING TO BE FOR PHYSICIANS, EGG DONORS, AND THE
18	RECIPIENTS TO PARTICIPATE IN IT. NOBODY WANTS TO
19	SPEND HUGE AMOUNTS OF TIME, ENERGY, AND EFFORT
20	DISCUSSING OPPORTUNITIES THAT MAY NEVER COME TO
21	FRUITION.
22	CHAIRMAN LO: ONE OTHER PUBLIC COMMENT.
23	MS. SMITH-CROWLEY: SHANNON SMITH-CROWLEY
24	ALSO REPRESENTING AMERICAN SOCIETY FOR REPRODUCTIVE
25	MEDICINE. ONE COMMENT, ONE QUESTION.
	100

1	THE COMMENT IS IN ORDER TO GET THE
2	REGULATION WHERE IT IS RIGHT NOW, YOU'VE ALREADY
3	SAID THAT WOMEN WHO ARE PAID TO DONATE FOR IVF ARE
4	OUTSIDE OF PROP 71. YOU'VE ALREADY SAID IT'S
5	OUTSIDE, AND WHY SHOULD WE NOT GO AHEAD AND CONTINUE
6	THIS. AND AS DR. ADAMSON SAID, THE TWO-YEAR ROLLING
7	TIME WOULD ALSO GIVE TIME IF THERE WERE FOUND IN
8	THAT TIME PERIOD TO BE NEFARIOUS ACTIVITY, THAT THAT
9	WOULD HAVE PROBABLY SHOWN UP WITHIN THOSE TWO YEARS.
10	THE OTHER QUESTION IS, MAYBE DR. TROUNSON
11	CAN SAY, IS ARE THERE SITUATIONS WHERE EMBRYOS THAT
12	WOULD GO THROUGH PREIMPLANTATION GENETIC DIAGNOSIS
13	THAT WOULD BE IMMEDIATELY DISCARDED, WOULD NOT BE
14	CONSIDERED FOR USE FOR IVF, WOULD THOSE BE SOMETHING
15	THAT WOULD BE USEFUL IN STEM CELL LINES? AND WOULD
16	THAT BE ANY REASON TO WAIVE A TWO-YEAR REQUIREMENT?
17	DR. TROUNSON: WELL, I THINK IN THOSE
18	CASES, THOSE EMBRYOS ARE NOT THERE'S NO DONOR
19	INVOLVED. IT'S REALLY DIRECTLY FROM THE PATIENT WHO
20	IS AT RISK FOR THAT GENETIC DISEASE. SO I'LL HAVE
21	TO JUST ASK GEOFF. YOU'RE SAYING COULD WE USE THEM
22	WITHOUT FREEZING, WHICH HAS CERTAINLY BEEN DESIRABLE
23	BY THE STEM CELL NETWORKS BECAUSE YOU GET A MUCH
24	BETTER OUTCOME IF YOU DON'T HAVE TO FREEZE AS WELL.
25	BUT WHAT'S OUR RULING ON THAT? IT WOULD BE
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1	DIFFERENT TO WHAT WE'RE TALKING ABOUT.
2	DR. LOMAX: THERE'S NOTHING EXCEPTIONAL
3	ABOUT PGD EMBRYO, BUT YOU EFFECTIVELY HIT THE NAIL
4	ON THE HEAD. IN PRACTICE, THEY ARE COMING FROM
5	NONPAID DONOR SITUATIONS, SO THEY REALLY FALL
6	OUTSIDE SORT OF THE SET OF ISSUES THAT WE HAVE ON
7	THE TABLE.
8	MS. SMITH-CROWLEY: SO PGD WOULD NEVER BE
9	DONE WHEN YOU'VE GOT A DONOR EGG? IT'S LESS LIKELY
10	BECAUSE SHE'S YOUNGER. DR. ADAMSON, MAYBE YOU WOULD
11	BE IN THE BEST POSITION TO SAY. IS THAT TYPICAL OR
12	VERY UNUSUAL THAT WHEN USING A DONOR EGG FOR IVF,
13	THAT YOU WOULD ALSO GO THROUGH PREIMPLANTATION
14	GENETIC DIAGNOSIS?
15	DR. ADAMSON: IT WOULD BE VERY COMMON. I
16	SUPPOSE YOU COULD HAVE THE MALE EGG DONOR WITH A
17	MALE WITH POTENTIALLY HUNTINGTON'S, SAY, THAT YOU'D
18	DO PGD. SO I THINK YOU COULD IDENTIFY SITUATIONS.
19	IT WOULD BE VERY UNUSUAL.
20	MS. SMITH-CROWLEY: BUT VALUABLE.
21	DR. ADAMSON: BUT I WOULDN'T SAY NEVER.
22	MS. SMITH-CROWLEY: SO SHOULD THERE BE AN
23	EXCEPTION MADE FOR SOMETHING LIKE THAT WHERE THERE
24	IS ABSOLUTELY NO WAY THAT THE EMBRYO IS GOING TO BE
25	USED FOR IVF?
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1	DR. ADAMSON: I GUESS MY GENERAL SENSE IS
2	THAT AS LONG IF ALL THE PARTIES ARE FULLY
3	INFORMED AND FULLY CONSENTED AND ARE ENABLED TO
4	DONATE A RESULTANT EMBRYO, THEN I THINK IT WOULD BE
5	APPROPRIATE TO HAVE THE REGULATORY FRAMEWORK SUCH
6	THAT THAT'S POSSIBLE. SO THAT'S A LONG WAY TO SAY
7	YES. BUT, YOU KNOW, IT'S A BALANCING OF THE
8	LANGUAGE. BUT, YES, YOU WOULD WANT TO BE ABLE TO
9	MAKE THAT POSSIBLE IF IT WOULD BE DESIRED BY THE
LO	PARTIES.
L1	MS. SMITH-CROWLEY: BECAUSE YOU COULD
L2	DOCUMENT WHY THIS IS NOT JUST A GENERIC EMBRYO, THAT
L3	THIS IS WHY WE'RE NOT USING IT.
L4	MR. SHEEHY: I'M WONDERING IF THE PROCESS
L5	THAT WE'RE ON NOW IS LESS ONE OF COMING TO A
L6	DECISION POINT TODAY AS MAYBE AS RATHER ONE WHERE
L7	WE'RE IDENTIFYING ISSUES THAT NEED THIS IS,
L8	AGAIN, ANOTHER ISSUE THAT WE HAVEN'T I HAVEN'T
L9	EVEN REALLY THOUGHT ABOUT. IT'S NOT REALLY INCLUDED
20	IN THE MATERIALS THAT HAVE COME BEFORE US. I'M
21	WONDERING IF WE WANT TO KICK THIS ONE DOWN THE ROAD
22	A LITTLE BIT AND MAYBE GET SOME ADDITIONAL
23	INFORMATION AND MAYBE SPEND THE REST OF OUR TIME
24	TRYING TO IDENTIFY WHAT WE REALLY NEED TO KNOW
25	BEFORE WE CAN COME TO A DECISION.

1	CHAIRMAN LO: I CERTAINLY, SINCE WE'VE
2	ALREADY LOST JOSE CIBELLI, AND I THINK WE'RE
3	ACTUALLY PAST THE CUTOFF TIME FOR THE MEETING, I
4	WOULD BE VERY GLAD TO ENTERTAIN A MOTION TO TABLE
5	THIS WITH THE UNDERSTANDING THAT WE WOULD POLL
6	I'M NOT SURE, GEOFF, WE COULD EVEN DO IT TODAY, BUT
7	TO SORT OF POLL THE COMMITTEE OFFLINE AS TO WHAT
8	FURTHER INFORMATION WE NEED TO PRESENT FOR ANOTHER
9	DISCUSSION AT A LATER MEETING. I'M HEARING
10	MS. LANSING: THIS IS SHERRY. I WOULD
11	LIKE TO SECOND THAT, THAT WE ALL E-MAIL YOU OR
12	WHATEVER WE HAVE TO DO TO TELL YOU WHAT OTHER ISSUES
13	WE WANT TO DISCUSS TO MAKE AN INFORMED DECISION.
14	MR. SHEEHY: ONE THING I WOULD LIKE TO
15	ACKNOWLEDGE IS DR. ADAMSON. I AM SO GRATEFUL. HE
16	HAS BEEN SO HELPFUL. AND THIS IS IT'S VERY HARD
17	FOR MANY OF US TO UNDERSTAND WHAT'S ACTUALLY GOING
18	ON, AS YOU SAY, IN THE TRENCHES. AND YOUR TIME AND
19	YOUR SERVICE HERE HAS BEEN INVALUABLE.
20	MS. LANSING: YES. I SECOND THAT.
21	CHAIRMAN LO: I THINK WE, DR. ADAMSON, I
22	THINK WE ALL ARE VERY GRATEFUL. YOU WERE JUST SO
23	CLEAR AND UNDERSTANDABLE ON SORT OF THE ISSUES LAID
24	OUT, WHICH HAS REALLY HELPED US A GREAT DEAL. AND
25	WE MAY ACTUALLY CALL ON YOU AGAIN.
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1	DR. ADAMSON: THANK YOU. I'D BE HAPPY TO
2	GIVE YOU MY THOUGHTS IF I CAN BE HELPFUL.
3	CHAIRMAN LO: MY SENSE FROM THE COMMITTEE
4	IS THAT WE SHOULD THINK MORE ABOUT THIS, GET
5	INFORMATION FIRST, THINK MORE ABOUT THIS, AND
6	THERE'S NO URGENCY TO DECIDE THIS TODAY. I THINK WE
7	DO WANT TO GET THIS RIGHT.
8	GEOFF, IS THERE ANYTHING ELSE WE NEED TO
9	ADDRESS HERE? I THINK WE'VE LOST THE QUORUM, SO I
10	DON'T THINK
11	DR. LOMAX: WE WERE QUORUM LIMITED ALL
12	DAY. THIS IS HELPFUL. WE'RE AT A REASONABLE
13	STOPPING POINT. WE UNDERSTAND WHY WE'RE STOPPING.
14	THE SENSE OF THE COMMITTEE REGARDING THE SOMATIC
15	CELL ISSUES WAS EXTREMELY HELPFUL. IT GIVES US AN
16	OPPORTUNITY TO MOVE FORWARD IN SOME AREAS THAT I
17	THINK WILL BE VERY HELPFUL TO THE RESEARCH
18	COMMUNITY. AND I THINK WHAT IT MEANS AT THIS POINT
19	IS WE SIMPLY MOVE FORWARD WITH THE EXISTING RULE
20	THAT WAS APPROVED BY THE ICOC IN AUGUST, AND WE'LL
21	JUST START THE PROCESS OF FINALIZING THAT ONE. IT
22	GIVES US SOMETHING THAT ADDRESSES THIS ISSUE IN THE
23	NEAR TERM ANYWAY.
24	CHAIRMAN LO: SO WITH THAT, I WANT TO
25	THANK YOU ALL FOR YOUR PARTICIPATION. I THINK WE
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ACTUALLY DID SOME VERY GOOD WORK TODAY.
AND ALSO I WANT TO AGAIN REMIND YOU THAT
WE'RE GOING TO MEET FEBRUARY 17TH, 18TH IN LOS
ANGELES. AND HOPEFULLY THE AIRLINES WILL STILL BE
FLYING THEN SO WE CAN GET THERE, AND WE LOOK
FORWARD.
MS. FOGEL: THE PROBLEM IS GOING TO BE
DRIVING. THEY'LL BE MAKING NO CARS.
CHAIRMAN LO: THEY'LL BE MAKING GASOLINE.
SHERRY, I TAKE IT YOU'VE PROMISED US GORGEOUS
SOUTHERN CALIFORNIA WEATHER.
MS. LANSING: ABSOLUTELY.
CHAIRMAN LO: THANK YOU VERY MUCH.
EVERYBODY HAVE A GREAT, GREAT HOLIDAY SEASON.
(THE MEETING WAS THEN CONCLUDED AT
01:14 P.M.)
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### REPORTER'S CERTIFICATE

I, BETH C. DRAIN, A CERTIFIED SHORTHAND REPORTER IN AND FOR THE STATE OF CALIFORNIA, HEREBY CERTIFY THAT THE FOREGOING TRANSCRIPT OF THE PROCEEDINGS BEFORE THE SCIENTIFIC AND MEDICAL ACCOUNTABILITY STANDARDS WORKING GROUP OF THE CALIFORNIA INSTITUTE FOR REGENERATIVE MEDICINE IN THE MATTER OF ITS REGULAR MEETING HELD AT THE LOCATION INDICATED BELOW

210 KING STREET
3D FLOOR
SAN FRANCISCO, CALIFORNIA
ON
DECEMBER 12, 2008

WAS HELD AS HEREIN APPEARS AND THAT THIS IS THE ORIGINAL TRANSCRIPT THEREOF AND THAT THE STATEMENTS THAT APPEAR IN THIS TRANSCRIPT WERE REPORTED STENOGRAPHICALLY BY ME AND TRANSCRIBED BY ME. I ALSO CERTIFY THAT THIS TRANSCRIPT IS A TRUE AND ACCURATE RECORD OF THE PROCEEDING.

BETH C. DRAIN, CSR 7152 BARRISTER'S REPORTING SERVICE 1072 BRISTOL STREET SUITE 100 COSTA MESA, CALIFORNIA (714) 444-4100