

BEFORE THE
SCIENTIFIC AND MEDICAL ACCOUNTABILITY
STANDARDS WORKING GROUP OF THE
INDEPENDENT CITIZENS' OVERSIGHT COMMITTEE
TO THE
CALIFORNIA INSTITUTE FOR REGENERATIVE MEDICINE
ORGANIZED PURSUANT TO THE
CALIFORNIA STEM CELL RESEARCH AND CURES ACT
ANNUAL MEETING

LOCATION: HOTEL PALOMAR LOS ANGELES-WESTWOOD
10740 WILSHIRE BOULEVARD
LOS ANGELES, CALIFORNIA

DATE: FRIDAY, APRIL 29, 2011
9:45 A.M.

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

BRS FILE NO.: 89404

BARRISTERS' REPORTING SERVICE

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BARRISTERS' REPORTING SERVICE

1 LOS ANGELES, CALIFORNIA; FRIDAY, APRIL 29, 2011

2 09:54 A.M.

3
4 CHAIRMAN LO: GOOD MORNING. SO I'D LIKE
5 TO FORMALLY CALL TO ORDER THE MEETING OF THE CIRM
6 STANDARDS WORKING GROUP. I WANT TO WITH THAT
7 WONDERFUL, INSPIRING PRESENTATION BY CHRIS HEMPEL, I
8 THINK WE REALLY HAVE A LOT OF IMPORTANT AND GNARLY,
9 TO USE CHRIS' WORD, ISSUES TO TRY AND ADDRESS.

10 FIRST THING I WANT TO DO IS TO WELCOME OUR
11 NEWEST MEMBER, TIM KAMP FROM THE UNIVERSITY OF
12 WISCONSIN MADISON, IS A PROFESSOR OF MEDICINE, AND
13 HE'S AN EXPERT IN CARDIAC DISEASE, HEART FAILURE,
14 ARRHYTHMIAS, EXTREMELY ACTIVE AREA OF STEM CELL
15 RESEARCH, AND ONE WHERE WE'RE BEGINNING TO SEE THE
16 VALUE OF IPS MODELS AS A WAY TO SORT OF PUSH FORWARD
17 OUR UNDERSTANDING OF DISEASES AND ALSO ACTUAL
18 TRANSPLANTATION THERAPIES IN CARDIAC DISEASE. SO,
19 TIM, WELCOME VERY MUCH. AT SOME POINT WE WILL SORT
20 OF GRAB YOU AT LUNCH AND HEAR ABOUT WHAT'S REALLY
21 GOING ON IN MADISON, WISCONSIN.

22 DR. KAMP: I'M NOT SURE I CAN ANSWER THAT,
23 NOT BECAUSE I DON'T WANT TO. I'M NOT SURE I KNOW.

24 CHAIRMAN LO: GEOFF WANTS TO DO A FORMAL
25 ROLL FOR THE RECORD.

BARRISTERS' REPORTING SERVICE

1 DR. LOMAX: THANK YOU, DR. LO. YES, FOR
2 THE RECORD, TO ACKNOWLEDGE THE WORKING GROUP MEMBERS
3 THAT ARE HERE: PAT TAYLOR, DOROTHY ROBERTS, JEFF
4 SHEEHY, ANN KIESSLING, BERNARD LO, SHERRY LANSING,
5 ROBERT TAYLOR, MARCY FEIT, AND TIMOTHY KAMP.

6 CHAIRMAN LO: GREAT. IS THERE ANYONE
7 WHO'S GOING TO BE CALLING IN, OR THIS IS -- I WANTED
8 TO TRY AT THE ONSET TO JUST KIND OF FRAME WHAT THIS
9 MEETING HOPES TO ACCOMPLISH. AND TOGETHER WITH
10 GEOFF AND STAFF, WE WANT TO REALLY SEEK THE GUIDANCE
11 OF THE SWG FOR A PROPOSAL THAT CIRM IS PUTTING
12 TOGETHER TO BE INVOLVED WITH IPS BANKING, PRIMARILY
13 I THINK AT THIS POINT FOR TOOLS FOR RESEARCH, BUT
14 NOT CLOSING OFF THE POSSIBILITY THAT SOME OF THESE
15 LINES MIGHT IN THE FUTURE BE USEFUL FOR THERAPY FOR
16 TRANSPLANTATION.

17 I WANT TO TRY AND PUT WHAT WE'RE GOING TO
18 DO TODAY IN CONTEXT. WE'RE NOT HERE TO WRITE
19 REGULATIONS, UNLIKE WHAT WE'VE DONE PREVIOUSLY AT
20 OTHER MEETINGS. WE'RE REALLY TRYING TO RECOMMEND
21 GUIDANCE THAT CIRM CAN USE FOR REQUESTS FOR
22 APPLICATIONS FOR FUNDING, FOR CONTRACTS AND GRANTS
23 THAT THEY MAKE, AND FOR GRANTEES APPLYING FOR CIRM
24 FUNDING TO KNOW WHAT THEY NEED TO DO TO BE ELIGIBLE.
25 AND I THINK AT THIS MEETING WHAT I'D LIKE TO DO IS,

BARRISTERS' REPORTING SERVICE

1 FIRST OF ALL, MAKE SURE WE'VE IDENTIFIED REALLY
2 IMPORTANT ETHICAL ISSUES SO THAT THEY ARE TAKEN INTO
3 CONSIDERATION AS CIRM MOVES FORWARD IN THIS PLANNING
4 PROCESS.

5 ALSO I THINK THERE ARE SOME AREAS OF
6 CONSENSUS, AND WHERE WE CAN IDENTIFY THOSE AND POINT
7 THE WAY TO HOW MORE SPECIFIC GUIDANCE MAY BE
8 FORTHCOMING, I THINK THAT WOULD BE USEFUL TO THE
9 ICOC AND CIRM STAFF. AND I THINK WE ARE GOING TO
10 IDENTIFY AREAS WHERE WE DON'T HAVE AGREEMENT YET,
11 WHERE THESE ARE DIFFICULT, GNARLY ISSUES, BUT NEED
12 FURTHER DISCUSSION. AND I THINK AT LEAST WE CAN TRY
13 AND DEFINE THE PARAMETERS OF CONSIDERATIONS THAT
14 THAT DISCUSSION IS GOING TO NEED TO INVOLVE.

15 WE HAVE OVER THE YEARS ACTUALLY DEVELOPED
16 AN APPROACH, IF YOU WILL, A PHILOSOPHY OF OVERSIGHT.
17 I JUST WANTED TO REMIND US OF WHAT WE'VE DONE IN THE
18 PAST, WHICH I THINK IS A GOOD MODEL. ONE IS THAT
19 WHAT WE PUT FORTH, WHETHER IT'S REGULATIONS AS WE'VE
20 DONE IN THE PAST, OR GUIDANCE, WE WANT TO BE
21 COMPATIBLE WITH OTHER STANDARDS, WITH FEDERAL
22 STANDARDS, WHETHER IT'S REGULATION LIKE THE COMMON
23 RULE OR NIH GUIDELINES.

24 NOW, COMPATIBLE DOESN'T MEAN IDENTICAL.
25 THERE MAY WELL BE TIMES WHERE CIRM MAY WANT TO GO

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1 BEYOND WHAT OTHER STANDARDS ARE. AND WE'VE
2 CERTAINLY DONE THAT, FOR EXAMPLE, WITH INFORMED
3 CONSENT FOR OOCYTE DONATION AND COMPENSATION FOR
4 RESEARCH INJURIES AFTER OOCYTE DONATION. I WANT TO
5 MAKE SURE THAT A CIRM GRANTEE CAN FULFILL BOTH OUR
6 STANDARDS AND, SAY, FEDERAL STANDARDS FROM OHRP OR
7 FOR NIH. WE DON'T WANT OUR RESEARCH GRANTEES TO BE
8 CAUGHT IN A DOUBLE BIND.

9 WE HAVE TAKEN A RIGOROUS, BUT I THINK
10 FLEXIBLE APPROACH TO OVERSIGHT, AND IT'S BEEN
11 FLEXIBLE IN SEVERAL WAYS. WE'VE REALLY BEEN
12 COMMITTED TO REVISITING OUR OVERSIGHT AS THE SCIENCE
13 CHANGES. AND SHERRY HAS SAID OVER AND OVER AGAIN WE
14 NEED TO, AS THE SCIENCE PROGRESSES, RETHINK WHETHER
15 THE ETHICS HAS CHANGED AND WHETHER THE REGULATIONS
16 SHOULD CHANGE. WE'VE ALSO BEEN FLEXIBLE LOOKING
17 BACKWARDS, THAT THERE ARE MATERIALS, AND WE'LL SEE
18 THIS PARTICULARLY WITH BIOBANKING, MATERIALS DONATED
19 A NUMBER OF YEARS AGO --

20 THIS MAY BE JOHN WAGNER.

21 -- MATERIALS DONATED A NUMBER OF YEARS AGO
22 WHERE THE STANDARD OF CONSENT WAS NOT WHAT IT IS
23 TODAY. AND WE HAVE NEVER WANTED TO WAIVE THE IDEA
24 OF CONSENT, BUT THE SORT OF SPECIFICS OF WHAT
25 CONSTITUTES A VALID CONSENT, THAT MAY CHANGE OVER

BARRISTERS' REPORTING SERVICE

1 TIME. SO THE TERMS IN THE CONSENT PROCESS MAY BE
2 CHANGING.

3 WE'VE ALSO ALLOWED INSTITUTIONAL
4 VARIATION. WE HAVE TRIED TO SHY AWAY FROM
5 PRESCRIBING EXACTLY WHAT INSTITUTIONS MUST DO TO BE
6 IN COMPLIANCE. I THINK THIS GETS AT WHAT CHRIS
7 HEMPEL WAS SUGGESTING WHERE REGULATIONS CAN DETER
8 VALUABLE AND ETHICAL RESEARCH RATHER THAN PROTECT
9 SUBJECTS. AND I THINK THE FEEDBACK WE'VE GOTTEN
10 FROM THE INSTITUTIONAL GRANTEEES IS THAT THEY
11 APPRECIATE OUR WILLINGNESS TO ALLOW INSTITUTIONS TO
12 FIGURE OUT HOW BEST TO MEET THE CIRM POLICY AND
13 ETHICS STANDARDS.

14 WE'VE ALSO REALIZED THAT STEM CELL
15 RESEARCH INTERSECTS WITH A LOT OF OTHER RESEARCH.
16 AND I THINK THE EXAMPLE OF WHOLE GENOME SEQUENCING
17 IS GOING TO COME UP A LOT AS THIS MOVES FORWARD AS
18 THAT TECHNOLOGY BECOMES MORE FEASIBLE AND
19 AFFORDABLE. WE HAVE STRUGGLED WITH HOW TO MAKE STEM
20 CELL RESEARCH COMPARABLE TO OTHER CELL AND TISSUE
21 RESEARCH. WE HAVE NOT BEEN WILLING TO SAY THERE'S
22 SOMETHING SO SPECIAL ABOUT STEM CELLS JUST BECAUSE
23 THEY'RE STEM CELLS. THAT MEANS WE HAVE TO HAVE A
24 TOTALLY DIFFERENT SYSTEM OR VERY STRICTER SYSTEM.

25 SO MANY OF THE THINGS WE DO WITH STEM

BARRISTERS' REPORTING SERVICE

1 CELLS, WE IMMORTALIZE THEM SO THEY'RE KEPT ALIVE AT
2 CORIELL. WE'RE GOING TO DO WHOLE GENOME SEQUENCING.
3 THEY'RE DONE BY SCIENTISTS STUDYING THINGS WITHOUT
4 STEM CELLS. AND WE WANT TO BE CONSISTENT WITH, ONE,
5 THE SAME TECHNOLOGY IN DIFFERENT SCIENTIFIC
6 CONCEPTS.

7 A PARTICULAR ISSUE THAT WE'RE GOING TO BE
8 ADDRESSING THIS MEETING AND AS THIS BIOBANK IDEA
9 MOVES FORWARD IS THE USE OF DEIDENTIFIED EXISTING
10 MATERIALS WITHOUT SPECIFIC CONSENT FOR IPS
11 DERIVATION, FOR EXAMPLE, OR WHOLE GENOME SEQUENCING.
12 AND WE'LL SEE LATER HOW THE CURRENT FEDERAL
13 REGULATIONS, WHICH ACTUALLY WERE PROMULGATED IN 1974
14 AND 1975, ALMOST 40 YEARS AGO, REALLY COULD NOT HAVE
15 ANTICIPATED THAT WHOLE GENOME SEQUENCING MAY
16 ACTUALLY RENDER DEIDENTIFIED MATERIALS, WE STRIPPED
17 OFF ALL THE IDENTIFIERS, MAKE IT IDENTIFIABLE
18 BECAUSE THE WHOLE GENOME SEQUENCE IS A UNIQUE
19 BIOLOGICAL MARKER, WHICH NOW INCREASINGLY WE MAY BE
20 ABLE TO WORK BACK TO THE ACTUAL IDENTITY OF THE
21 PERSON.

22 SO THAT'S NOTHING. THAT'S JUST TO REMIND
23 ME THAT I'M DONE.

24 SO WITH THAT, I WANT TO SORT OF GO AHEAD
25 WITH THE MAIN PART OF OUR MEETING. AND FIRST, I'M

BARRISTERS' REPORTING SERVICE

1 GOING TO CALL ON SOHEL TALIB TO GIVE US AN UPDATE
2 AND REPORT ON THE SCIENTIFIC RECOMMENDATIONS FOR A
3 CIRM IPSC RESEARCH REPOSITORY.

4 DR. TALIB: THANK YOU, DR. LO. WHAT I
5 THOUGHT I WOULD DO TODAY FOR NEXT FEW MINUTES IS TO
6 GIVE YOU AN OVERVIEW OF A WORKSHOP, A SCIENTIFIC
7 WORKSHOP, THAT WAS HELD IN SAN FRANCISCO IN NOVEMBER
8 TO SPECIFICALLY ADDRESS THE ISSUE OF IPS INITIATIVE
9 THAT CIRM IS PROPOSING.

10 AND THE PURPOSE OF THIS WORKSHOP WAS TO
11 GET INPUT FROM THE THOUGHT LEADERS IN THE FIELD OF
12 STEM CELL RESEARCH AND REGENERATIVE MEDICINE ON THIS
13 SPECIFIC PROPOSAL. AND THE PURPOSE OR THE FOCUS OF
14 THIS INITIATIVE IS TO INCREASE THE NUMBER OF IPS
15 LINES AS WELL AS THE QUALITY OF IPS LINES FOR A
16 NUMBER OF DISEASES. AND SPECIFICALLY FOR THE
17 PURPOSE OF DISEASE MODELING AS WELL AS FOR DRUG
18 SCREENING.

19 I SHOULD POINT OUT THAT IN THE LAST COUPLE
20 OF YEARS THERE HAS BEEN A LOT OF INTEREST IN THIS
21 PARTICULAR AREA, BUT I THINK IT WILL BE FAIR TO SAY
22 THAT MOST OF THESE EFFORTS ARE KIND OF FRAGMENTED
23 SPECIFICALLY AS IT RELATES TO THE QUALITY AND
24 STANDARDS BOTH ON THE SIDE OF THE PROCUREMENT OF THE
25 MATERIAL WHICH IS USED FOR IPS GENERATION AS WELL AS

BARRISTERS' REPORTING SERVICE

1 THE PRODUCT WHICH IS BEING GENERATED IN TERMS OF THE
2 QUALITY. SO THE PURPOSE OF THIS INITIATIVE IS TO
3 CHANGE THAT.

4 AND WHAT CIRM WOULD LIKE TO DO BY PUTTING
5 THIS INITIATIVE FORWARD IS BOTH TO ENABLE THE
6 PRODUCTION AND AVAILABILITY OF IPS CELL LINES FROM A
7 NUMBER OF DISEASES SO THAT THEY CAN BE UTILIZED AND
8 HAS ALL THE INFORMATION WHICH IS NEEDED AND THAT CAN
9 BE UTILIZED FOR THE PURPOSE OF DISEASE MODELING AND
10 FOR DRUG SCREENING. AT THIS STAGE CIRM IS NOT
11 PROPOSING THAT THESE CELL LINES TO BE USED FOR CELL
12 THERAPY PURPOSES.

13 SO WITH THAT THINGS IN MIND, THIS
14 PARTICULAR WORKSHOP ACTUALLY FOCUSED ON A NUMBER OF
15 SPECIFIC TOPICS; FOR EXAMPLE, THE GLOBAL EFFORTS.
16 SO A NUMBER OF COUNTRIES HAVE ALREADY STARTED
17 ACTIVITIES IN IPS BANKING, AND THESE COUNTRIES
18 INCLUDE JAPAN, CANADA, SPAIN, UK, AND, IN FACT, NIH
19 ITSELF. SO THE REPRESENTATIVES FROM THE
20 INSTITUTIONS, FROM THESE COUNTRIES, THEY PROVIDED
21 THEIR EXPERIENCE IN STARTING THESE INITIATIVES AND
22 SOME OF THE CHALLENGES THEY ARE FACING. AND I
23 SHOULD POINT OUT THE WHOLE IDEA IS THAT WE SHOULD
24 NOT BE DUPLICATING WHAT HAS ALREADY BEEN GOING ON IN
25 DIFFERENT PLACES.

BARRISTERS' REPORTING SERVICE

1 IN THAT DIRECTION WE ARE ALREADY -- AT
2 THIS TIME CIRM IS CONSIDERING TO WORK WITH NIH,
3 NINDS, AND TO PARTICIPATE IN THEIR CONSORTIUM ON
4 NEURODEGENERATIVE DISEASES SO THAT WE DO NOT REALLY
5 DUPLICATE SOME OF THE WORK WHICH IS ALREADY GOING
6 ON.

7 SECONDLY, THERE WAS A WHOLE DISCUSSION
8 ABOUT THE SCIENTIFIC AND TECHNICAL CONSIDERATIONS.
9 AS YOU KNOW, THERE'S A LOT OF DISCUSSIONS AND A LOT
10 OF NEW METHODS HAVE BEEN DEVELOPED. SO THE EXPERTS
11 IN THE FIELD, THEY DISCUSS ABOUT THE NEW METHODS OF
12 IPS GENERATION AND ALSO IN TERMS OF TECHNICAL
13 CONSIDERATION OF THE CHARACTERIZATION OF THESE IPS
14 LINES. AND IT WAS RECOMMENDED THAT EACH AND EVERY
15 CELL LINE SHOULD HAVE A VERY SPECIFIC SCORECARD
16 WHICH WILL PROVIDE ALL THE INFORMATION IN TERMS OF
17 THE PHENOTYPE, THE GENOTYPES, THE VIABILITY, ALL
18 ISSUES, WHICH IS ALL THE INFORMATION WHICH IS NEEDED
19 FOR THE PURPOSE OF USING THESE IPS LINES FOR DISEASE
20 MODELING AS WELL AS FOR DRUG SCREENING.

21 CLINICAL CONSIDERATIONS WERE DISCUSSED. A
22 NUMBER OF THE CLINICIANS, PHYSICIAN/SCIENTIST, THEY
23 TALKED ABOUT WHICH PARTICULAR DISEASES TO TARGET AND
24 WHAT IS THE ADVANTAGES OR DISADVANTAGE OF USING A
25 MONOGENIC DISEASES VERSUS POLYGENIC DISEASES AND

BARRISTERS' REPORTING SERVICE

1 WHAT KIND OF INFORMATION WE NEED TO HAVE, WHAT KIND
2 OF PATIENT INFORMATION IS NEEDED, WHAT KIND OF
3 FAMILY HISTORY IS NEEDED IN ORDER THAT THESE CELL
4 LINES, WHEN THEY ARE GENERATED, THEY CAN BE UTILIZED
5 FOR THE PURPOSE THEY'RE INTENDED TO.

6 THERE WAS DISCUSSION ABOUT THE GENOMIC AND
7 EPIGENOMIC CONSIDERATIONS IN MAKING THESE IPS LINES
8 AND THEIR IMPORTANCE IN DISEASE MODELING. AND SOME
9 OF THE WORK, WHICH WAS, IN FACT, DISCUSSED ABOUT THE
10 GENOMIC AND EPIGENOMIC PART IN THIS MEETING, HAS
11 RECENTLY BEEN PUBLISHED BY THE SCIENTIST WHO
12 PARTICIPATED IN THIS MEETING FROM THE SALK INSTITUTE
13 FROM TORONTO AS WELL AS FROM UC SAN DIEGO.

14 OF COURSE, THERE WAS A WHOLE DISCUSSION
15 ABOUT THE CELL BANKING, DISTRIBUTION, AND DATA
16 MANAGEMENT WHICH ARE VERY PRACTICAL AND VERY
17 OPERATIONAL ISSUES IN CELL BANKING. AND SOME OF THE
18 EXPERTS WHO ARE MANAGING THESE CELL BANKS, FOR
19 EXAMPLE, UK STEM CELL BANK, UNIVERSITY OF WISCONSIN
20 STEM CELL BANK, AS WELL AS FROM TORONTO, THEY
21 PROVIDED SOME OF THE ISSUES AND SOME OF THE
22 CONSIDERATIONS IN MAKING AN IPS CELL BANK
23 OPERATIONAL AND ALSO IN TERMS OF THE DATA MANAGEMENT
24 BECAUSE A NUMBER OF INFORMATION WHICH WILL BE
25 GENERATED NEEDS TO HAVE INFORMATION WHICH CAN BE

BARRISTERS' REPORTING SERVICE

1 MANAGED.

2 AND, OF COURSE, AND BUT NOT LEAST, THERE
3 WAS A WHOLE DISCUSSION ABOUT THE ETHICS AND LEGAL
4 ISSUES WHICH, IN FACT, WAS IN THAT DISCUSSING
5 PREVIOUS WORKSHOP WHICH WAS DONE PREVIOUSLY BY CIRM.

6 SO IN TERMS OF THE OUTPUT OF THIS
7 PARTICULAR WORKSHOP, SPECIFICALLY THERE WERE TWO
8 RECOMMENDATIONS. AND THOSE RECOMMENDATIONS WERE,
9 FIRST OF ALL, AN IPS CELL REPOSITORY FOR EXISTING
10 CELL LINES. SO A NUMBER OF CELL LINES HAVE ALREADY
11 BEEN GENERATED BY THE INVESTIGATORS FROM THE CIRM
12 RFA WHICH HAVE BEEN ISSUED PREVIOUSLY, AND WOULD
13 LIKE TO HAVE -- THOSE INVESTIGATORS WOULD LIKE TO
14 HAVE THOSE CELL LINES DEPOSITED IN AN IPS
15 REPOSITORY, WHICH CIRM WILL PROVIDE MONEY FOR AND
16 BECAUSE SOME OF THESE CELL LINES HAVE BEEN
17 GENERATED, BUT THE INVESTIGATOR DON'T HAVE MEANS TO
18 EITHER STORE THEM OR FOR THE DISTRIBUTION.

19 SECOND RECOMMENDATION IS THE GENERATION OF
20 NEW IPS LINES FOR TARGETED DISEASES FOR DISEASE
21 MODELING AND IN VITRO SCREENING AND FOR PREDICTIVE
22 TOXICOLOGY. SO THOSE ARE THE TWO RECOMMENDATIONS
23 WHICH THIS WORKSHOP PUT FORWARD.

24 NOW LET ME DESCRIBE TO YOU THE ISSUES
25 WHICH ARE MORE RELATED TO THE CELL SOURCE AND DONOR

BARRISTERS' REPORTING SERVICE

1 INFORMATION AND THAT GEOFF WILL GO MORE INTO DETAIL
2 ABOUT THIS SPECIFIC ASPECT OF IT.

3 NOW, IN TERMS OF THE CELL BANKING,
4 BASICALLY IT'S A THREE-STEP PROCESS. THAT IS CELL
5 PROCUREMENT, IPS DERIVATION/CHARACTERIZATION, AND
6 THE BANKING AND DISTRIBUTION, AND THE DATA
7 MANAGEMENT. SO THE FRONT END, THAT IS, CELL
8 PROCUREMENT AREA, IS VERY IMPORTANT IN TERMS OF CELL
9 SOURCE AND DONOR INFORMATION. THOSE ISSUES WERE
10 VERY HEAVILY DISCUSSED AND RECOMMENDATIONS WERE
11 MADE.

12 SINCE THE IDEA IS TO GENERATE IPS LINES
13 FROM A NUMBER OF DISEASES WITH DIVERSE POPULATION IN
14 CALIFORNIA, THE ISSUES WHICH SHOULD BE TAKEN INTO
15 CONSIDERATION, AND THEY ARE VERY OBVIOUS, BUT THEY
16 ARE VERY IMPORTANT; THAT IS, THE AGE, GENDER, RACE,
17 ETHNICITY OF THE POPULATION FROM WHICH THE DONORS
18 ARE PROVIDING THE SAMPLES, GENOTYPE AND HLA
19 HAPLOTYPE WHICH WILL BE VERY IMPORTANT IF ONE HAS TO
20 REALLY CORRELATE THE DISEASE MODELING TO THE SAMPLE
21 FROM WHICH THEY ARRIVED FROM, THE DONOR THEY ARRIVED
22 FROM. MEDICAL HISTORY OF THE PATIENT AND FAMILY WAS
23 CONSIDERED TO BE EXTREMELY IMPORTANT BECAUSE THAT
24 PROVIDES, AGAIN, A DATABASE FROM WHICH ONE CAN MAKE
25 CORRELATIONS WITH AND WOULD BE EXTREMELY IMPORTANT

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1 FOR DISEASE MODELING AS WELL AS FOR DRUG SCREENING.

2 SINCE SOME OF THIS INFORMATION IN TERMS OF
3 THE GENOMICS WILL BE AVAILABLE, SO THERE'S A
4 POSSIBLE NEED TO RECONTACT THE DONORS NEEDS TO BE
5 CONSIDERED AND AS WELL AS THE LEGAL AND INTELLECTUAL
6 PROPERTY ISSUES NEED TO BE CONSIDERED. LEGAL ISSUES
7 IN TERMS OF THE DONOR CONSENT. INTELLECTUAL
8 PROPERTY AND MTA, SOME OF THE ISSUES, WHICH WERE
9 DISCUSSED THIS MORNING BY MS. HEMPEL ALSO.

10 SO IN TERMS OF THERE ARE TWO THINGS THAT
11 WE POINTED OUT, THAT ONE IS THE EXISTING CELL LINES;
12 THAT IS, SOME OF THE INFORMATION FROM THE DONOR
13 ALREADY IS AVAILABLE FROM THE EXISTING IPS CELL
14 LINES BECAUSE THESE LINES IN CALIFORNIA HAS BEEN
15 GENERATED BY USING A SCRO, GUIDELINES FROM CIRM, BUT
16 SOME MORE INFORMATION MAY BE NEEDED. FOR THE NEW
17 COLLECTION, THERE'S NEW CELL LINES WHICH WILL BE
18 DEVELOPED FOR THE TARGETED DISEASES AND ALSO FOR THE
19 CONTROLS.

20 I SHOULD POINT OUT THAT ONE OF THE THINGS
21 WHICH WERE EXTREMELY EMPHASIZED, AND IT IS REALLY
22 IMPORTANT, IS THE COLLECTION OF CONTROL SAMPLES.
23 AND THAT IS CONTROL SAMPLES FROM THE NONAFFECTED
24 FAMILY INDIVIDUALS, CONTROL SAMPLES FROM MATCH
25 CONTROLS AS WELL, SO THAT WOULD BE NEEDED. SO IT IS

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1 IMPORTANT THAT THE DATA IS COLLECTED, BUT THE
2 INFORMATION IS THERE FROM THE DONORS WHICH ARE
3 AFFECTED BY THE DISEASE AS WELL AS FROM THE FAMILY
4 MEMBER DONORS. SO THEIR INFORMATION IS NEEDED BOTH
5 IN TERMS OF THE DONOR AND AS WELL AS ALSO IN TERMS
6 OF THE IPS CELL LINES WHICH WILL BE DERIVED.

7 SO THOSE INFORMATION WOULD NEED TO BE
8 COLLECTED, AND THEY NEED TO BE PUT IN THE REGISTRY
9 AND INTO THE DATABASE FOR THAT SO THAT THOSE
10 INFORMATION WILL BE AVAILABLE WHEN THESE SAMPLES ARE
11 UTILIZED FOR THEIR INTENDED USE; THAT IS, FOR
12 DISEASE MODELING AND DRUG SCREENING.

13 I THINK AT THIS STAGE, I WILL HAND IT OVER
14 TO GEOFF, WHO WILL GO MORE INTO THE DETAILS ABOUT
15 THE ETHICAL ISSUES.

16 CHAIRMAN LO: BEFORE THAT, WHY DON'T I
17 JUST ASK ALAN OR ELLEN IF YOU HAVE ANY UPDATES OR
18 ANYTHING YOU WANTED TO ADD.

19 DR. TROUNSON: WELL, I THINK THIS FIELD IS
20 MOVING VERY QUICKLY, OF COURSE. THERE ARE ISSUES
21 AROUND -- THERE ARE SOME ISSUES AROUND THE INTEGRITY
22 OF IPS CELLS, WHICH THE BASIC SCIENTISTS ARE WORKING
23 HARD ON. AND I IMAGINE THAT THEY'RE GOING TO
24 DEVELOP PERHAPS BETTER METHODS TO RETAIN THE
25 INTEGRITY -- THE GENOMIC INTEGRITY OF THE CELLS, BUT

BARRISTERS' REPORTING SERVICE

1 THERE ARE MORE AND MORE MODELS APPEARING. THESE ARE
2 DISEASE-IN-A-DISH MODELS, IF YOU LIKE. AND SO
3 THERE'S MORE AND MORE ENCOURAGEMENT IN THIS AREA,
4 MORE AND MORE SCIENTISTS MOVING INTO IT, BERNIE.

5 AND SO IT IS GOING TO BE A HUGE FORCE OF
6 RESEARCH, I THINK, OVER THE NEXT COUPLE OF DECADES
7 AT THE VERY LEAST TO FIND OUT HOW WELL THESE CELLS
8 WILL PERFORM IN THE DISCOVERY PROCESS, DISCOVERY
9 ABOUT THE NATURE OF THE DISEASE AND ALSO ABOUT
10 WHETHER YOU CAN ACTUALLY FIND SMALL MOLECULES,
11 BIOLOGICS, OR OTHER TREATMENTS USING THOSE CELLS.

12 PERHAPS MORE IMPORTANTLY, I THINK THEY MAY
13 END UP OR LIKELY TO END UP AS A REPLACEMENT FOR THE
14 BIG PHENOMICS STUDIES THAT ARE DONE ON MOUSE MODELS
15 BECAUSE A MOUSE MODEL OF A HUMAN DISEASE IS A MOUSE
16 MODEL OF A HUMAN DISEASE. IT IS NOT THE HUMAN
17 DISEASE. SO THIS IS -- YOU WILL BE ABLE TO PLUMB,
18 IF YOU LIKE, THE HETEROGENEITY OF A HUMAN DISEASE.
19 MOST OF THE HUMAN DISEASES ARE COMPLEX BECAUSE THEY
20 HAVE AT LEAST VARIOUS GENETIC CONTRIBUTIONS EVEN IF
21 THERE IS A MAIN MUTATION. PATIENTS WITH A MUTATION
22 WERE VARIABLE IN THEIR RESPONSE, AND THAT'S USUALLY
23 BECAUSE THEY'RE EITHER SUBJECT TO ENVIRONMENTAL
24 DIFFERENCES OR THERE ARE OTHER GENES PLAYING INTO
25 THE EFFECTOR OF THE PHENOTYPE, THE APPEARANCE OF THE

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1 DISEASE PHENOTYPE IN THE PATIENT.

2 SO IT'S A HUGE AREA OF BASIC SCIENCE
3 DISCOVERY, AND I THINK WE SHOULD LEAVE A FOOTPRINT
4 OVER THIS. SO I'M VERY, VERY STRONGLY SUPPORTIVE,
5 AS YOU KNOW, OF ESTABLISHING BANKING.

6 AND MAYBE I COULD JUST PASS QUICKLY TO
7 ELLEN FEIGAL BECAUSE WE'VE ACTUALLY GOT AN
8 ARRANGEMENT OVER SOME OF THE NEURODEGENERATION
9 DISORDERS WITH THE NIH, SO WE'RE JOINING TOGETHER
10 WITH THE NATIONAL INSTITUTES OF HEALTH FOUNDATION TO
11 DO SOMETHING FOR SOME OF THE NEURODEGENERATIVE
12 DISEASES. IT DOESN'T COVER EVERYTHING, BUT IT
13 COVERS SOME IMPORTANT AREAS IN NEURODEGENERATIVE
14 DISEASES.

15 DR. FEIGAL: MAYBE I CAN JUST SAY A FEW
16 WORDS ABOUT THAT. SO WE'RE WORKING IN A
17 PUBLIC/PRIVATE PARTNERSHIP WITH THE NATIONAL
18 INSTITUTE OF NEUROLOGIC DISORDERS AND STROKE. WE'LL
19 ACTUALLY BE PRESENTING IT TO OUR ICOC BOARD NEXT
20 WEEK, BUT WE PRESENTED IT TO OUR SCIENCE COMMITTEE
21 AND TO THE GRANTS WORKING GROUP PART OF CIRM TO
22 ACTUALLY BE PART OF A PUBLIC/PRIVATE PARTNERSHIP
23 WITH PATIENT ADVOCACY FOUNDATIONS, ACTUALLY WITH
24 COMPANIES, AND WITH THE NATIONAL INSTITUTE -- WELL,
25 WITH NINDS TO ACTUALLY DEVELOP REALLY NEW CELL LINES

BARRISTERS' REPORTING SERVICE

1 AND A SUSTAINABLE RESOURCE FOR RESEARCHERS AND ALSO
2 FOR COMPANIES TO HAVE ACCESS TO THESE TYPE OF CELL
3 LINES FOR DISEASE MODELING, BUT AT THE END OF THE
4 DAY, TO REALLY DEVELOP TREATMENTS.

5 SO THE IN VITRO SCREENING IS REALLY IN A
6 CLINICALLY APPLICABLE WAY TO TRY AND DEVELOP SOME
7 NEW THERAPIES. SO WE'LL BE PRESENTING THAT NEXT
8 WEEK, AND HOPEFULLY WE'LL BE ABLE TO MOVE FORWARD
9 WITH THAT INITIATIVE.

10 CHAIRMAN LO: QUESTIONS OR COMMENTS FROM
11 ANY MEMBERS OF THE SWG? DO YOU WANT TO -- WHY DON'T
12 WE AT LEAST ASK A FEW QUESTIONS. WE WANT TO NOT GET
13 INTO THE DETAILS OF THE SPECIFIC PARTNERSHIP AS MUCH
14 AS THE BIG PICTURE OF WHAT ARE THE ETHICAL POLICY
15 CONSIDERATIONS THAT SHOULD GUIDE ANY CIRM
16 INVOLVEMENT. MAYBE YOU COULD SAY A FEW MORE WORDS
17 ABOUT THIS PARTNERSHIP.

18 DR. KIESSLING: PART OF IT WAS BECAUSE OF
19 WHAT OUR SPEAKER TOLD US ABOUT THE LOGISTICS OF
20 TRYING TO GET CELLS BACK FROM NIH. SO WHAT IS THE
21 NATURE OF THE PARTNERSHIP WITH NINDS? WHY DO YOU
22 EVEN HAVE IT?

23 DR. FEIGAL: THIS IS REALLY PART OF WHAT
24 SOLEL WAS TALKING ABOUT, THAT CIRM HAS BEEN WORKING
25 ON ACTUALLY DEVELOPING THIS TYPE OF RESEARCH

BARRISTERS' REPORTING SERVICE

1 RESOURCE. AND SO THE DETAILS OF SOME OF THE ISSUES
2 THAT WERE BROUGHT UP TODAY, THESE CAN BE BROUGHT UP
3 IN FURTHER DISCUSSIONS WITH THE PARTNERS FOR THIS
4 PROGRAM. BUT BASICALLY IT'S REALLY TO JUMP-START
5 THE THINGS THAT WE'RE INTERESTED IN LOOKING AT.
6 THIS IS SPECIFICALLY FOCUSED ON NEURODEGENERATIVE
7 DISEASES. IT WILL BE LOOKING AT PARKINSON'S
8 DISEASE, HUNTINGTON'S DISEASE, AND ALS.

9 DR. KIESSLING: BUT THE BASIC QUESTION IS
10 IS THE NATURE OF THE PARTNERSHIP TO PROVIDE MORE
11 ROBUST TYPES OF CELLS, MORE TYPES OF CELLS? WHAT'S
12 THE NATURE OF THE PARTNERSHIP?

13 DR. FEIGAL: CORRECT. I MEAN IT'S TO
14 DEVELOP NEW CELL LINES.

15 DR. ROBERT TAYLOR: I GUESS WE'RE GOING TO
16 BE HEARING LATER FROM THE NICOLE, BUT I'M CURIOUS.
17 IS THIS GOING TO BE A ONE-BY-ONE INSTITUTE DECISION?
18 SOME INSTITUTES WILL KEEP BANKING INTERNAL. OTHERS
19 WILL PART IT OUT. I'M JUST KIND OF CURIOUS WHAT
20 SORT OF THE OVERALL THINKING IS ABOUT THAT.

21 DR. FEIGAL: ARE YOU ASKING ME OR ARE YOU
22 ASKING NICOLE?

23 DR. ROBERT TAYLOR: MAYBE BOTH.

24 DR. FEIGAL: ACTUALLY I WASN'T WORKING
25 WITH NICOLE ON THIS PROGRAM. IT'S ACTUALLY WITH A

BARRISTERS' REPORTING SERVICE

1 DIFFERENT INSTITUTE.

2 DR. ROBERT TAYLOR: EXACTLY. MAYBE WE
3 SHOULD WE WAIT TILL WE HEAR ABOUT THE NCI, BUT IT
4 SEEMS LIKE THIS IS GOING IN MULTIPLE DIRECTIONS.

5 DR. LOCKHART: I WOULD BET HONESTLY IT
6 WOULD BE INSTITUTE BY INSTITUTE, DEPENDING ON
7 WHETHER THERE WAS OVERLAPPING RESEARCH INTEREST. SO
8 WOULD THE NATIONAL CANCER INSTITUTE HAVE RESEARCH
9 RESOURCES THAT WOULD BE OF INTEREST? I THINK THAT
10 PROBABLY WOULD HAVE TO BE ON AN
11 INSTITUTE-BY-INSTITUTE BASIS.

12 I WOULD ALSO SAY IN REGARDS TO SOME OF THE
13 MATERIAL TRANSFER ISSUES THAT WERE DISCUSSED
14 EARLIER, I SPOKE WITH CHRIS KIND OF ON A SIDELINE.
15 AROUND THAT TIME SHE WAS HAVING DIFFICULTIES. THE
16 NIH WAS BEING INVESTIGATED AND REPRIMANDED BY
17 CONGRESS FOR SOME VIOLATIONS BASICALLY WHERE SAMPLES
18 LEFT THE NIH WITHOUT PROPER DOCUMENTATION AND WERE
19 GIVEN TO INDUSTRY RESEARCHERS. AND IT WAS BASICALLY
20 A BAD ACTOR. THE IMPLICATION WAS THAT SAMPLES WERE
21 BASICALLY OBTAINED WITH GOVERNMENT FUNDS AND THEN
22 SOLD TO INDUSTRY. SO THERE WAS A CRACKDOWN WITHIN
23 NIH. A LOT OF NEW POLICIES ARE BEING IMPLEMENTED.
24 THERE ARE A LOT OF NEW REQUIREMENTS AS TO TRACKING,
25 DOCUMENTATION, ANNUAL REPORTS TO CONGRESS.

BARRISTERS' REPORTING SERVICE

1 I THINK A LOT OF THAT SHOULD BE BETTER NOW
2 THAN WHEN THIS WAS ALL GOING ON. THERE WAS UPHEAVAL
3 ON CAMPUS, TRYING TO MAKE SURE THAT WE'RE MEETING
4 THESE CONGRESSIONAL -- THESE NEW CONGRESSIONAL
5 MANDATES. AS YOU DEVELOP YOUR PPP, I THINK IT WILL
6 BE IMPORTANT TO MAKE SURE ALL OF THAT IS CLEAR IN
7 TERMS OF WHO HAS ACCESS, HOW THAT WILL BE SHARED,
8 HOW IT WILL BE MANAGED AND CONTROLLED. AND YOU CAN
9 DO THAT WITHIN YOUR PUBLIC/PRIVATE PARTNERSHIP UP
10 FRONT.

11 DR. FEIGAL: THERE'S A STEERING COMMITTEE.
12 WE WON'T GET INTO TOO MANY DETAILS REALLY RIGHT NOW,
13 BUT THERE'S AN OVERSIGHT PART. AND YOU'RE BRINGING
14 UP SOME GOOD QUESTIONS. AND HOW THEY WILL BE
15 ADDRESSED AND ANSWERED, IT WILL BE VERY IMPORTANT.
16 I THINK THE IMPORTANT THING FOR THIS INITIATIVE IS
17 THAT CIRM WILL HAVE A SEAT AT THE TABLE.

18 DR. ROBERTS: I WAS WONDERING ABOUT THE
19 RELATIONSHIP BETWEEN THE LINES THAT WOULD BE DERIVED
20 IN THESE BANKS AND FUTURE TREATMENT OF PATIENTS IN A
21 COUPLE WAYS. SO THESE LINES ARE GOING TO BE USED TO
22 UNDERSTAND DISEASE BETTER AND TO DEVELOP TREATMENTS.
23 ARE THE LINES -- THE PEOPLE WHO DONATE TO DERIVE
24 THESE LINES, ARE THEY THE SAME PEOPLE WHO WILL
25 BENEFIT FROM THE TREATMENT? AND ARE THESE THE SAME

BARRISTERS' REPORTING SERVICE

1 LINES THAT WILL BE USED FOR THE ACTUAL TREATMENT, OR
2 WOULD THERE BE DIFFERENT LINES USED FOR THE ACTUAL
3 TREATMENT?

4 WHAT'S THE NEXT STEP, I GUESS, I'M ASKING,
5 AND WHAT'S THE RELATIONSHIP BETWEEN THESE LINES?
6 BECAUSE I WAS STRUCK BY CHRIS HEMPEL'S PRESENTATION.
7 THE LINES THAT ARE DERIVED FROM HER SAMPLES ARE
8 GOING TO BENEFIT HER CHILDREN. IS THAT ALWAYS THE
9 CASE?

10 DR. FEIGAL: NO. PARTLY I THINK I WANT TO
11 ASK BERNIE BECAUSE I KNOW THERE'S A SET OF ISSUES TO
12 DISCUSS AT THE MEETING TODAY, AND THESE ARE VERY
13 GOOD QUESTIONS. I JUST WANT TO FIND OUT --

14 DR. ROBERTS: THEY MIGHT COME LATER ON.

15 DR. FEIGAL: MAYBE WE COULD DO THIS AT A
16 DIFFERENT TIME.

17 DR. ROBERTS: THAT WOULD BE FINE.

18 CHAIRMAN LO: MY UNDERSTANDING IS THAT
19 RIGHT NOW THE REAL DRIVER FOR THESE BANKS IS THE
20 BASIC SCIENCE VALUE AS A RESEARCH TOOL. IF IT
21 SHOULD HAPPEN THAT THESE IPS CELLS ARE USEFUL FOR
22 THERAPY, THAT'S A BIG UNKNOWN. THERE ARE A LOT OF
23 SCIENTIFIC ISSUES THAT WOULD HAVE TO BE ADDRESSED,
24 GOOD MANUFACTURING PROCESS ISSUES. SO I THINK RIGHT
25 NOW WE NEED TO FOCUS ON THE BANK AS A REPOSITORY OF

BARRISTERS' REPORTING SERVICE

1 LINES FOR SCIENTISTS TO USE IN UNDERSTANDING THE
2 PATHOPHYSIOLOGY, DRUG DISCOVERY, AND SCREENING.

3 DR. FEIGAL: I JUST DO WANT TO SAY THERE'S
4 THREE DIFFERENT ISSUES ON THE TABLE. YOU KNOW, ONE
5 IS THIS BASIC SCIENCE AND THE DISEASE MODELING SO WE
6 UNDERSTAND THE DISEASE BETTER. THE SECOND IS AS A
7 DRUG DISCOVERY TOOL FOR A VARIETY OF AGENTS. AND
8 THEN A THIRD, WHICH I THINK IS A DIFFERENT,
9 SEPARATE, BUT IMPORTANT ISSUE, IS THE USE OF THE
10 LINES AS THERAPIES IN AND OF THEMSELVES.

11 RIGHT NOW WITH NINDS, THE FOCUS RIGHT NOW
12 IS ON THE FIRST TWO.

13 DR. ROBERTS: I GUESS I THINK WE HAVE TO
14 KEEP IN MIND THE THIRD STEP BECAUSE THAT'S RELEVANT
15 TO THE QUESTIONS ABOUT DEIDENTIFICATION AND
16 INFORMATION GIVEN TO PEOPLE WHO ARE DONATING THE
17 LINES, THE TISSUE FOR THE LINES.

18 CHAIRMAN LO: SO WE NEED TO KEEP THAT IN
19 MIND.

20 DR. ROBERTS: KEEP IT IN MIND EVEN THOUGH
21 WE'RE NOT DISCUSSING IT DIRECTLY NOW.

22 DR. PATRICK TAYLOR: JUST A FAST QUESTION.
23 IS THE THOUGHT AS PART OF THE COLLABORATION TO
24 DEVELOP A UNIFORM CONSENT? AND SO IF, WHAT
25 STANDARDS WILL GUIDE THAT FOR ACCESS TO THIS

BARRISTERS' REPORTING SERVICE

1 REPOSITORY?

2 DR. FEIGAL: AT THIS POINT I CAN'T GIVE
3 YOU A LOT OF DETAILS BECAUSE IT HASN'T EVEN GONE
4 OUT. THE APPLICATIONS HAVEN'T COME IN. SO I
5 IMAGINE WHETHER IT'S UNIFORM, SOME SORT OF BROAD
6 PRINCIPLES THAT ARE FOLLOWED. YOU KNOW, WE COULD
7 GET BACK TO YOU AS THE BOARD DEVELOPS, THE STEERING
8 COMMITTEE DEVELOPS. SO RIGHT NOW I CAN'T ANSWER THE
9 QUESTION WHETHER IT WILL BE ONE. I IMAGINE, SINCE
10 THIS GOES THROUGH A VARIETY OF DIFFERENT
11 INSTITUTIONS, THERE'LL SOME SORT OF TEMPLATE, BUT I
12 DON'T ENVISION THEY'LL BE IDENTICAL.

13 CHAIRMAN LO: THIS IS SOMETHING THAT WHEN
14 WE GET -- WE'VE SORT OF ORGANIZED THE REST OF THE
15 MEETING AROUND TOPICS. INFORMED CONSENT IS GOING TO
16 BE A BIG TOPIC. I THINK WE'RE GOING TO NEED TO TALK
17 ABOUT THIS. WHY DON'T WE MAKE SURE WE GET THAT
18 DISCUSSION IN.

19 OTHER COMMENTS? OKAY. SO WHY DON'T WE --
20 GEOFF, DID YOU WANT TO --

21 DR. LOMAX: JUST A COUPLE OF NOTES ON THE
22 PROCESS HERE JUST TO REMIND EVERYONE AND BRING
23 EVERYONE UP TO SPEED. I'D LIKE TO USE THE PARALLEL
24 TRACKS ANALOGY THAT AS AN ORGANIZATION WE'VE BEEN
25 THINKING SIMULTANEOUSLY ABOUT SCIENTIFIC NEEDS AND

BARRISTERS' REPORTING SERVICE

1 THE ETHICS AND POLICY CONSIDERATIONS. AND AS A
2 REMINDER, ALMOST A YEAR AGO TODAY WE HAD A WORKSHOP
3 ON THE OTHER SIDE OF THE FREEWAY. AND I THINK WE
4 DID SORT OF CAPTURE -- THE REPORT FROM THAT
5 WORKSHOP, I THINK I'D LIKE TO SORT OF SUGGEST A
6 CONCLUSION AND SUGGEST THAT WE'RE ACTUALLY ON PRETTY
7 FIRM GROUND IN TERMS OF OUR EXISTING POLICIES WITH
8 REGARD TO THINGS LIKE CONSENT AND IP, AND THE
9 EXISTING POLICY FRAMEWORK WITHIN CIRM IS FIRM, BUT
10 CERTAINLY THERE'S VALUE IN IMPROVEMENT.

11 AND SO WE CAME OUT OF THAT EXPERIENCE
12 GOING INTO THE NOVEMBER WORKSHOP, WHICH SOHEL JUST
13 DESCRIBED TO YOU, AND NOW WE'RE BACK HERE IN APRIL.

14 AGAIN, THE END GAME IS A BANKING PROPOSAL;
15 BUT, AGAIN, AS YOU'VE HEARD, IT MIGHT BE A SET OF
16 DISTRIBUTED PROPOSALS THAT ARE WORKS IN PROCESS.
17 AGAIN, A VERY DYNAMIC ENVIRONMENT, BUT ONE I THINK
18 WE'RE EXTREMELY FAMILIAR WITH AS AN ORGANIZATION AND
19 HAVE A HISTORY OF SORT OF USING THESE PROCESSES AS
20 COMING BACK TO THE TABLE TO GET IT RIGHT. SO THAT'S
21 SORT OF THE HISTORY OF THIS CONVERSATION.

22 AND THIS WAS A REMINDER, IT WAS PART OF
23 YOUR BRIEFING MATERIALS, THAT WE'RE ONE ORGANIZATION
24 OR A VOICE IN A LARGER SET OF DISCUSSIONS THAT ARE
25 GOING ON NATIONALLY. AND WE'RE GOING TO HEAR ABOUT

BARRISTERS' REPORTING SERVICE

1 SOME OF THOSE DISCUSSIONS TODAY. BUT, AGAIN, A LOT
2 OF THE TOPICS THAT HAVE COME UP THIS MORNING ARE ON
3 THE SORT OF POLICY AGENDA AT THE NATIONAL LEVEL.
4 AGAIN, THAT'S REALLY REFLECTED IN YOUR BRIEFING
5 MATERIALS. AND AS ALWAYS, I THINK CIRM HAS ALWAYS
6 BEEN ABLE TO PLAY A PRODUCTIVE ROLE IN A RANGE OF
7 SCIENCE POLICY DISCUSSIONS. I WOULD HOPE WE WOULD
8 CONTINUE.

9 AS BERNIE INDICATED, BASED ON A REVIEW OF
10 BOTH OUR PREVIOUS DISCUSSIONS AND WHERE WE FELT WE
11 NEEDED TO COME BACK AND THE SORT OF CONVERSATIONS
12 GOING ON NATIONALLY AT THE POLICY LEVEL, WE'VE
13 ORGANIZED INTO FOUR TOPIC AREAS, WHICH I THINK WILL
14 CAPTURE THINGS. AND THE POWERPOINT SEEMS TO INSIST
15 WE HAVE TWO NO. 1S, BUT IT'S ACTUALLY FOUR TOPIC
16 AREAS.

17 WITH THAT SAID, I THINK THAT'S KIND OF THE
18 FRAMEWORK NOW WHICH WE WANT TO SORT OF INITIATE SORT
19 OF THE DELIBERATIONS WITH THE PRECEDING MATERIAL AS
20 BACKGROUND. I THINK FROM THERE, WE CAN MOVE ON WITH
21 ONE OF OUR GUEST SPEAKERS.

22 CHAIRMAN LO: OKAY. SO NEXT I'D LIKE TO
23 TURN TO DR. NICOLE LOCKHART FROM NCI. SHE IS THE
24 DIRECTOR OF ETHICAL AND REGULATORY AFFAIRS FOR AN
25 NCI-SPONSORED BIOBANKING INITIATIVE CALLED CAHUB.

BARRISTERS' REPORTING SERVICE

1 IS THAT THE WAY YOU PRONOUNCE --

2 DR. LOCKHART: THAT IS. IT'S CAHUB, NOT
3 CAHUB.

4 CHAIRMAN LO: SO SHE'S LEADING A TEAM
5 THAT'S REALLY RESPONSIBLE FOR THE DEVELOPMENT OF
6 CAHUB POLICIES, INCLUDING THE ISSUES THAT GEOFF JUST
7 SHOWED ON THE SLIDE, CONSENT, ACCESS TO DATA AND
8 SPECIMENS, AND MATERIAL TRANSFER AGREEMENTS. SO,
9 NICOLE, WE ARE GRATEFUL TO YOUR COMING HERE. WE
10 LOOK FORWARD TO YOUR COMMENTS AND TO ACTUALLY
11 WORKING CLOSELY WITH YOU, NCI, AND THE REST OF NIH
12 AS WELL.

13 DR. LOCKHART: THANK YOU VERY MUCH FOR
14 HAVING ME. I THINK THIS WILL BE A HAVING
15 INTERESTING DISCUSSION TODAY. FIRST OF ALL, I
16 FORGOT TO INCLUDE THE OFFICIAL DISCLAIMER, BUT FOR
17 THE RECORD, MY VIEWS TODAY ARE SOLELY MY OWN AND
18 SHOULD NOT BE CONSTRUED TO REPRESENT THE NATIONAL
19 CANCER INSTITUTE, THE NATIONAL INSTITUTES OF HEALTH,
20 OR THE DEPARTMENT OF HEALTH AND HUMAN SERVICES, OR
21 ANY OTHER FANCY GOVERNMENT BODY.

22 A LITTLE BACKGROUND ABOUT ME. I AM
23 TRAINED AS A PHYSIOLOGIST, BUT FOR THE PAST FIVE
24 YEARS I'VE BEEN AT THE NATIONAL CANCER INSTITUTE IN
25 THE OFFICE OF BIOREPOSITORIES AND BIOSPECIMEN

BARRISTERS' REPORTING SERVICE

1 RESEARCH. SO I'M REALLY COMING AT THIS MORE FROM A
2 BIOBANKING PERSPECTIVE. I DON'T HAVE AS MUCH
3 EXPERIENCE WITH STEM CELL RESEARCH, SO HOPEFULLY
4 I'LL BE ABLE TO PROVIDE RELEVANT, ALMOST AN
5 OUTSIDER'S PERSPECTIVE.

6 I DID TRY TO STICK TO JUST FOUR ISSUES.
7 SO FIRST, INFORMED CONSENT. I THINK ESPECIALLY WITH
8 BIOBANKING IT'S REALLY ALMOST A BALANCING ACT HERE.
9 WHAT DO PARTICIPANTS NEED TO KNOW IN ORDER TO BE
10 FULLY INFORMED AND PROVIDE MEANINGFUL CONSENT? AND
11 THERE'S A GREAT DEAL OF TENSION BETWEEN PROVIDING
12 DETAILED INFORMATION ABOUT HOW SPECIMENS WILL BE
13 USED VERSUS OVERWHELMING PARTICIPANTS BY PROVIDING
14 SO MUCH INFORMATION THAT THE CONSENT IS 12 PAGES
15 LONG AND THEY DON'T EVEN MAKE IT THROUGH, OR
16 LIMITING FUTURE USES BY BEING VERY, VERY EXPLICIT,
17 AND THEN NOT REALLY ALLOWING THAT FLEXIBILITY YOU
18 MIGHT NEED IN THE FUTURE.

19 SOME BIOBANKS HAVE ATTEMPTED TO ADDRESS
20 THIS ISSUE BY PROVIDING OPTIONS OR CHOICES FOR
21 CONSENT IN ORDER TO PROMOTE AUTONOMY, WHICH IS
22 SOMETIMES TERMS TIERED CONSENT. SO THOSE CHOICES
23 MIGHT INVOLVE EITHER SPECIFIC DISEASES. IT IS OKAY
24 TO USE MY SAMPLE FOR LUNG CANCER, ALL CANCER, ANY
25 FUTURE RESEARCH. THAT IS A POPULAR APPROACH. IT

BARRISTERS' REPORTING SERVICE

1 CAN LEAD TO DIFFICULTIES IN INTERPRETATION. SO WHEN
2 YOU HAVE A FEW YEARS DOWN THE LINE A PARTICULAR
3 RESEARCH PROJECT AND YOU'RE TRYING TO DETERMINE DOES
4 THIS CONSENT ALLOW THIS TYPE OF RESEARCH, IT CAN BE
5 DIFFICULT TO INTERPRET THOSE CHOICES. YOU NEED TO
6 BE VERY CAREFUL ABOUT HOW YOU WORD ANY CHOICES YOU
7 USE.

8 I ORIGINALLY WAS A BIG FAN OF TIERED
9 CONSENT WHEN I CAME TO THE NCI BECAUSE IT MAKES A
10 LOT OF INTRINSIC SENSE. I LATER BECAME INVOLVED IN
11 THE CANCER GENOME ATLAS, WHICH IS SOMETIMES CALLED
12 THE HUMAN GENOME PROJECT FOR CANCER, DOING DEEP
13 SEQUENCING OF VARIOUS CANCER TUMOR TYPES. AND THEY
14 WERE USING RETROSPECTIVE SAMPLES, SO SAMPLES THAT
15 WERE ALREADY COLLECTED AND WITHIN ACADEMIC
16 INSTITUTIONS. I WAS PART OF A TEAM THAT WAS
17 REVIEWING CONSENTS AND REVIEWING THESE RETROSPECTIVE
18 CONSENTS AND TRYING TO DETERMINE IF THEY WERE
19 APPROPRIATE FOR TCGA. IT WAS VERY DIFFICULT, AND
20 THE CHECK BOXES MADE IT WORSE, TRYING TO SAY WHAT
21 WOULD THE PERSON HAVE HAD TO CHECK IN ORDER TO ALLOW
22 THEIR SAMPLE TO BE USED. AND IN SOME CASES THEY'D
23 BE CONFLICTING. SO IF SOMEONE CHECKED ONE, BUT NOT
24 THREE, TRYING TO FIGURE OUT WHAT THE PERSON IS
25 REALLY OBJECTING TO, IT CAN BE DIFFICULT.

BARRISTERS' REPORTING SERVICE

1 AND THERE'S ALSO TRACKING IMPLICATIONS,
2 MAKING SURE THAT YOU HAVE A MEANS OF TRACKING ALL
3 THOSE CHOICES OVER TIME, MAKING SURE THAT WHATEVER
4 CONSENT OPTIONS DON'T VARY OVER TIME BECAUSE THEN
5 YOU MIGHT NEED TO TRACK DIFFERENT ITERATIONS.
6 BASICALLY IF YOU'RE GOING TO USE THIS OPTION, YOU
7 NEED TO BE ABLE TO FULFILL THE PROMISE YOU MAKE TO
8 PATIENTS. IT'S NOT AN AUTONOMOUS CHOICE IF THE BANK
9 IS UNABLE TO MEET THAT FULFILLMENT OF THE REQUEST.

10 THE ALTERNATIVE APPROACH IS TO USE BROAD
11 CONSENT FOR BROAD FUTURE USE. IN THIS CASE YOU CAN
12 DESCRIBE TYPES OF RESEARCH A SPECIMEN MAY BE USED
13 FOR, PARTICULARLY ANYTHING THAT MIGHT BE CONSIDERED
14 HIGHER RISK OR THAT PATIENTS MIGHT BE CONCERNED
15 ABOUT, AS WELL AS OVERSIGHT MECHANISMS IN PLACE. SO
16 IF YOU ARE GOING TO HAVE AN ACCESS COMMITTEE, WHO
17 MIGHT SIT ON THAT ACCESS COMMITTEE? JUST LETTING
18 PEOPLE KNOW THAT THERE IS A OVERSIGHT MECHANISM AND
19 HOW THAT PROCESS WORKS.

20 IT'S IMPORTANT TO NOTE THAT DIFFERENT
21 PEOPLE WILL BE CONCERNED ABOUT DIFFERENT ISSUES.
22 AND SO IT'S DIFFICULT TO WRITE A CONSENT THAT WILL
23 ADDRESS THE CONCERNS OF ALL POTENTIAL PARTICIPANTS.
24 AND THIS STATEMENT IS ALSO MEANT TO IMPLY IN MANY
25 CASES IT WOULD BE GOOD IF YOU KNEW SOMEONE,

BARRISTERS' REPORTING SERVICE

1 SOMETHING ABOUT WHAT THOSE PARTICIPANTS MIGHT BE
2 CONCERNED ABOUT. SO AS YOU MOVE FORWARD THINKING
3 ABOUT TARGETING DIFFERENT DISEASE TYPES, ANY CHANCE
4 WHERE YOU CAN DO COMMUNITY ENGAGEMENT WOULD BE
5 HELPFUL.

6 JUST AS A SIDE NOTE, WHAT PATIENTS CARE
7 ABOUT IS NOT NECESSARILY THE SAME AS WHAT IRB'S AND
8 RESEARCHERS THINK IS IMPORTANT. THIS IS A CITATION
9 FROM LAURA BESKOW WHO HAD A RECENT PAPER WHERE SHE
10 BASICALLY ASKED PATIENTS AND RESEARCHERS AND IRB'S
11 TO HIGHLIGHT WHICH PORTIONS OF A CONSENT THEY
12 THOUGHT WERE MOST IMPORTANT. AND THEY WERE
13 DIFFERENT. THEY WERE REALLY DIFFERENT. SO THAT'S
14 JUST KIND OF A SIDE NOTE.

15 AND, AGAIN, THE CONSENT FORM IS JUST A
16 PIECE OF PAPER. YOU ALSO HAVE TO THINK A LOT ABOUT
17 THE PROCESS. HOW ARE PATIENTS APPROACHED? WHO WAS
18 DOING THE CONSENT, ETC.?

19 I TRIED TO STICK TO JUST KEY QUESTIONS AS
20 THERE'S OBVIOUSLY A LOT OF ISSUES HERE. SO IN TERMS
21 OF CONSENT FOR WHOLE GENOME SEQUENCING, THERE'S A
22 NEED TO MAKE SURE THAT PARTICIPANTS UNDERSTAND THESE
23 VERY COMPLEX CONCEPTS. WHAT EVEN IS A GENE? WHAT
24 IS WHOLE GENOME SEQUENCING? I INCLUDED A LINK. THE
25 NATIONAL HUMAN GENOME RESEARCH INSTITUTE HAS A LOT

BARRISTERS' REPORTING SERVICE

1 OF GOOD RESOURCES IN TERMS OF SAMPLE CONSENT
2 LANGUAGE THAT MIGHT BE USEFUL.

3 SOME OF THE RISKS THAT ARE ASSOCIATED WITH
4 WHOLE GENOME SEQUENCING, POTENTIAL CONFIDENTIALITY
5 LOST, PSYCHOLOGICAL OR SOCIAL RISKS, INCLUDING
6 POSSIBLE RECEIPT OF UNWANTED INFORMATION, POSSIBLE
7 DISCRIMINATION RELATED TO YOUR GENETIC HISTORY,
8 RISKS TO FAMILY SINCE THERE'S GENETIC RELATEDNESS,
9 AS WELL AS POPULATIONS OR GROUPS.

10 IF YOU'RE INCLUDING RISKS, YOU ALSO NEED
11 TO TRY AND INCLUDE ARE THERE PROTECTIONS IN PLACE?
12 IT'S BECOMING MORE AND MORE COMMON FOR CONSENT FORMS
13 TO DISCUSS THE GENETIC INFORMATION NONDISCRIMINATION
14 ACT, AT LEAST IN PART. AND THERE IS SOME SAMPLE
15 LANGUAGE FROM BOTH NHGRI AS WELL AS OHRP RELATED TO
16 GINA THAT COULD BE INCLUDED. IF THERE'S A
17 CERTIFICATE OF CONFIDENTIALITY IN PLACE, THAT COULD
18 ALSO BE DESCRIBED AS A POSSIBLE PROTECTION, AS WELL
19 AS WHATEVER DATA AND SECURITY PRACTICES YOU HAVE IN
20 PLACE. SO IS THE DATA GOING TO BE LIMITED ACCESS ON
21 A SECURE DATABASE? DESCRIBING THAT TO PATIENTS SO
22 THEY HAVE SOME IDEA OF HOW THEIR INFORMATION WILL BE
23 PROTECTED AS WELL AS ACCESS POLICIES. WHAT KINDS OF
24 PEOPLE WILL HAVE ACCESS TO MY DATA? WILL THERE BE
25 INTERNATIONAL RESEARCHERS? RESEARCHERS OUTSIDE MY

BARRISTERS' REPORTING SERVICE

1 INSTITUTION?

2 AND I THINK ONE CONCEPT THAT IS BECOMING
3 MORE IMPORTANT IS ENSURING THAT PARTICIPANTS
4 UNDERSTAND THAT WHOLE GENOME SEQUENCING WILL INCLUDE
5 STUDY OF GENES BEYOND THOSE DIRECTLY RELATED TO
6 THEIR DISEASE. I THINK THERE MIGHT BE A PERCEPTION
7 FOR PATIENTS THAT WHEN THEY CONTRIBUTE A SAMPLE,
8 RESEARCHERS, IF I HAVE BREAST CANCER, RESEARCHERS
9 ARE GOING TO LOOK AT BREAST CANCER BECAUSE WHAT ELSE
10 WOULD THEY BE LOOKING AT? AND I DON'T THINK
11 PATIENTS NECESSARILY REALIZE THAT IT'S THEIR WHOLE
12 GENOME. IT WILL BE FAR BEYOND WHATEVER THEIR
13 DISEASE OF INTEREST IS.

14 AND ALSO DESCRIBING MECHANISMS FOR DATA
15 SHARING, SUCH AS SUBMISSION TO DBGAP OR OTHER
16 DATABASES. PATIENTS CARE ABOUT DATA SHARING. THERE
17 WAS A RECENT STUDY BY LUDMAN, ET AL., WHICH
18 BASICALLY -- I CAN'T REMEMBER WHAT INSTITUTION. BUT
19 AN INSTITUTION WAS GOING TO SUBMIT TO DBGAP, AND
20 THEIR IRB REQUIRED RECONSENT FOR THAT. AND THEY
21 TACKED ON A STUDY TO ASK PATIENTS HOW THEY FELT
22 ABOUT BEING RECONTACTED. AND THE MAJORITY WERE
23 WILLING TO HAVE THEIR DATA SUBMITTED, BUT THEY WERE
24 VERY GLAD THEY WERE ASKED. AND THE TITLE OF THE
25 PAPER IS ACTUALLY "GLAD YOU ASKED." IT WAS

BARRISTERS' REPORTING SERVICE

1 SOMETHING LIKE MAYBE 70ISH PERCENT THOUGHT IT WAS
2 VERY IMPORTANT TO BE ASKED. SO I THINK THERE IS A
3 REAL INTEREST. PATIENTS ARE WILLING TO CONTRIBUTE
4 TO RESEARCH, BUT THEY LIKE TO HAVE A CHOICE IN HOW
5 THEIR DATA IS USED.

6 IN TERMS OF REPRODUCTIVE USE -- IF YOU
7 WANT TO STOP ME, YOU CAN, OR WE CAN JUST HOLD
8 QUESTIONS TO THE END.

9 IN TERMS OF REPRODUCTIVE USE OF MATERIALS,
10 IF REPRODUCTIVE USE WILL OR MAY OCCUR, I THINK
11 THERE'S A BURDEN TO MAKE SURE THAT IT'S
12 SCIENTIFICALLY JUSTIFIED, THAT THERE'S SOME REASON
13 TO BE USING MATERIALS IN THAT WAY. IT SHOULD BE
14 DISCLOSED TO PATIENTS. AND I THINK DURING THE
15 CONSENT PROCESS, THERE WILL NEED TO BE SIGNIFICANT
16 EFFORT TO DISPEL MISCONCEPTIONS. I THINK THE
17 SUBTLETIES OF STEM CELL RESEARCH ARE REALLY
18 DIFFICULT FOR THE PUBLIC TO GRAPPLE WITH. AND IT'S
19 NOT SOMETHING WHERE YOU COULD JUST HAVE A FEW LINES
20 IN A CONSENT FORM AND EXPECT PATIENTS TO UNDERSTAND.

21 JUST AN OFFHAND THOUGHT IS THAT THIS MIGHT
22 BE SOMETHING WHERE A BROCHURE OR SUPPLEMENTARY
23 INFORMATION MIGHT BE HELPFUL WHERE YOU CAN PROVIDE A
24 LITTLE BIT MORE INFORMATION TO PEOPLE WHO ARE EITHER
25 PARTICULARLY INTERESTED OR PARTICULARLY CONCERNED.

BARRISTERS' REPORTING SERVICE

1 YOU WOULD NEED TO DESCRIBE ANY PROTECTIONS IN PLACE,
2 SUCH AS OVERSIGHT MECHANISMS, TO LET PATIENTS KNOW
3 THIS IS HOW RESEARCHERS WILL GAIN ACCESS TO THESE
4 MATERIALS. THIS IS HOW WE WILL MAKE SURE THAT NO
5 PROHIBITED USES OCCUR. I THINK THIS WILL BE AN AREA
6 WHERE YOU REALLY ARE GOING TO NEED KNOWLEDGEABLE
7 CONSENSERS TO EXPLAIN THESE SCIENTIFIC CONCEPTS TO
8 MAKE SURE PATIENTS ARE CLEAR AS TO HOW THEIR SAMPLES
9 WILL BE USED.

10 IF REPRODUCTIVE USE WILL NOT OCCUR, I
11 WOULD SUGGEST THAT THAT NEEDS TO BE CLEARLY
12 DESCRIBED IN THE CONSENT. THIS SEEMS LIKE AN AREA
13 THAT PATIENTS WOULD BE CONCERNED ABOUT; AND IF THEIR
14 TISSUE WILL NOT BE USED IN THAT WAY, THEN THAT
15 SHOULD BE DISCLOSED. WHAT PROTECTIONS ARE IN PLACE
16 TO ENSURE THAT THIS PROHIBITED USE WILL NOT OCCUR SO
17 THAT PATIENTS UNDERSTAND IT'S NOT JUST THE
18 RESEARCHERS SAYING THIS. THERE'S A BODY IN PLACE
19 WHO'S GOING TO MAKE SURE THAT MY TISSUE IS NOT USED
20 IN THAT WAY, AND IT'S GOING TO BE WRITTEN INTO AN
21 AGREEMENT OR WHATEVER THE PROCESS IS.

22 IN TERMS OF PEDIATRIC RESEARCH AND WHETHER
23 CONSENT IS NEEDED AT THE AGE OF MAJORITY, THE
24 THINKING HERE IS THAT PEDIATRIC SAMPLES WOULD BE
25 COLLECTED UNDER PARENTAL PERMISSION. AND WHEN THE

BARRISTERS' REPORTING SERVICE

1 CHILD TURNS 18, THAT PERMISSION WOULD NO LONGER BE
2 VALID. OF COURSE, IF THE SAMPLES ARE FULLY
3 IDENTIFIABLE OR IF THERE'S ONGOING INTERACTION OR
4 INTERVENTION, SO IF YOU'RE CONTINUALLY GATHERING
5 MORE DATA OR TAKING MORE SAMPLES, YOU WOULD NEED TO
6 SEEK CONSENT, BUT A MAJORITY OF A LARGE PROPORTION
7 OF RESEARCH IS CONDUCTED WITH DEIDENTIFIED OR CODED
8 SAMPLES. SO THEY'RE CODED, YOU HAVE THE ABILITY TO
9 GO BACK AND SEEK CONSENT; BUT ALSO, DEPENDING ON HOW
10 IT'S STRUCTURED BECAUSE THEY'RE CODED, THEY COULD
11 ALSO POSSIBLY BE CONSIDERED NOT HUMAN SUBJECTS
12 RESEARCH.

13 SO HERE THERE'S BOTH KIND OF THE
14 REGULATORY REQUIREMENTS AS WELL AS ETHICAL
15 REQUIREMENTS. I VIEW THIS AS KIND OF A STRUGGLE
16 BETWEEN AUTONOMY AND PRIVACY. YOU CAN ARGUE THAT
17 THERE'S A STRONG CASE TO ASK FOR CONSENT BASED ON
18 AUTONOMY. THIS PERSON NEVER MADE A CHOICE. THEY
19 MAY NOT EVEN KNOW THAT THEIR SAMPLE IS INCLUDED IN
20 THIS BIOBANK. HOWEVER, THERE'S ALSO A STRONG
21 PRIVACY ARGUMENT. NOT EVERYBODY WOULD WANT TO BE
22 RECONTACTED. THEY MAY JUST WANT TO GO ON AND LIVE
23 THEIR LIFE.

24 AND THE SECOND BULLET ABOUT POTENTIAL HARM
25 BY CONTACTING FOR CONSENT, THIS IS SOMETHING I'VE

BARRISTERS' REPORTING SERVICE

1 THOUGHT A LOT ABOUT. AND I THINK THIS VARIES WIDELY
2 BASED ON DISEASE TYPE AND INDIVIDUALS AS WELL.
3 COULD THERE BE HARM IN CONTACTING SOMEONE? FOR
4 EXAMPLE, IF THE FORMER CHILD DID NOT KNOW THAT THEIR
5 SAMPLE WAS IN THE BIOBANK OR IF THEY DIDN'T KNOW
6 THAT THEY HAD THAT DISEASE. THERE ARE SOME
7 CHILDHOOD DISEASES, THERE ARE SOME TYPES OF CANCER
8 WHERE THEY MIGHT HAVE BEEN VERY, VERY YOUNG, MAYBE
9 THEY WERE NEVER TOLD. WOULD IT BE SHOCKING TO THEM
10 TO FIND THAT OUT?

11 AND I THINK IN SOME CASES YOU MIGHT ALSO
12 HAVE TO THINK ABOUT TRYING TO PREVENT HARM TO THE
13 FAMILY AS WELL. YOU WOULDN'T WANT TO BE CONTACTING
14 FAMILIES WHEN THEIR CHILD IS NO LONGER WITH THEM,
15 AND THEY'RE RECEIVING THESE CALLS FROM RESEARCHERS,
16 AND THAT COULD BE VERY TRAUMATIC. EVEN JUST
17 THINKING ABOUT WOULD THERE BE ANY HARM FROM THE
18 CONTACT ITSELF, AND THAT'S A VERY DIFFICULT
19 QUESTION.

20 JUST FROM A PRACTICAL PERSPECTIVE, THERE
21 CAN POTENTIALLY BE HUGE LOGISTICAL OBSTACLES. IS
22 THE CONTACT INFORMATION YOU HAVE ACCURATE? AT THE
23 AGE OF 18 MOST CHILDREN GO TO COLLEGE, AND THEY
24 AREN'T -- THEY WOULD NOT BE AT -- THE ADDRESS
25 INFORMATION AND PHONE INFORMATION YOU PROBABLY HAVE

BARRISTERS' REPORTING SERVICE

1 IS FOR THEIR PARENTS. THEY WOULDN'T BE THERE
2 ANYMORE.

3 AND IF YOU ARE PLANNING TO RECONTACT, THEN
4 YOU PROBABLY NEED TO TRY AND HAVE SOME ONGOING
5 RELATIONSHIP. YOU DON'T WANT TO CALL SOMEONE 16
6 YEARS AFTER A DONATION WHEN THEY MAYBE DON'T KNOW
7 WHAT YOU'RE TALKING ABOUT, THEY DON'T REMEMBER
8 DONATING. YOU WANT TO TRY AND HAVE SOME KIND OF
9 ONGOING RELATIONSHIP.

10 AND ESPECIALLY FOR THIS ISSUE, I THINK
11 COMMUNITY INPUT IS IMPORTANT. I PUT COMMUNITY IN
12 QUOTES NOT TO DECREASE THE IMPORTANCE OF THE
13 CONCEPT, BUT TO MAKE IT CLEAR THAT COMMUNITY CAN
14 MEAN A LOT OF DIFFERENT THINGS. I THINK A LOT OF
15 TIMES COMMUNITY ENGAGEMENT OFTEN REFERS TO MORE
16 REGIONAL, THE COMMUNITY WHERE THE RESEARCH TAKES
17 PLACE. AND I THINK IT'S VERY IMPORTANT TO ALSO
18 THINK ABOUT ARE THERE GOING TO BE PARTICULAR GROUPS
19 THAT ARE TARGETED, EITHER ETHNIC GROUPS OR RACIAL
20 GROUPS OR DISEASE GROUPS. I THINK THERE CAN BE A
21 LOT OF DIFFERENCES OF OPINION BASED ON THE DISEASE
22 GROUP ITSELF.

23 IN REGARDS TO THIS ISSUE, IT IS VERY
24 IMPORTANT TO PLAN AHEAD. HOW DO YOU PLAN TO
25 APPROACH THIS ISSUE? IF YOU PLAN ON SEEKING CONSENT

BARRISTERS' REPORTING SERVICE

1 AT AGE OF MAJORITY, YOU NEED TO HAVE THAT CONTACT
2 INFORMATION. YOU MIGHT WANT TO TRY AND HAVE AN
3 ONGOING RELATIONSHIP. AND TO DISCLOSE WHATEVER THE
4 APPROACH FOR AGE OF MAJORITY IS IN THE CONSENT AND
5 ASSENT DOCUMENT, IF APPROPRIATE.

6 I'VE HEARD STORIES FROM PEOPLE WHO ARE
7 INVOLVED IN VARIOUS BIOBANKS WHERE THEY DIDN'T THINK
8 ABOUT THIS ISSUE, AND THEN THEIR IRB ALL OF A SUDDEN
9 REALIZED THEY HAD SUBJECTS TURNING THE AGE OF 18 OR
10 THAT WERE OVER THE AGE OF 18, AND THINGS HAD TO STOP
11 WHILE THEY THOUGHT ABOUT WHAT ARE WE GOING TO DO
12 WITH THESE SAMPLES? YOU REALLY WANT TO TRY AND
13 PREVENT THAT, AND YOU NEED TO EVEN THINK AHEAD IN
14 TERMS OF WHAT IF WE DECIDE TO SEEK CONSENT AND WE
15 CAN'T FIND SOMEBODY? DO WE THEN SAY, OKAY, WELL, WE
16 TRIED, WE TRIED, AND WE WAIT 90 DAYS AND THEN WE USE
17 THE SAMPLE? OR WE COULDN'T GET CONSENT, SO THEN WE
18 DESTROY? WHAT IS GOING TO BE YOUR PROCESS THERE?
19 YOU DON'T WANT TO WAIT UNTIL YOU'RE IN THE SITUATION
20 AND THEN TRY AND FIGURE IT OUT.

21 GEOFF HAD ANOTHER QUESTION ABOUT DOES
22 ANONYMIZATION OF MATERIALS MATTER. IT REALLY
23 DEPENDS WHAT HARMS YOU'RE TRYING TO MINIMIZE. IF
24 YOU ARE TRYING TO PREVENT OR PRODUCE PRIVACY RISKS,
25 ANONYMIZATION HELPS WITH THAT. IF YOU ARE MORE

BARRISTERS' REPORTING SERVICE

1 CONCERNED ABOUT LOSS OF AUTONOMY, ANONYMIZATION DOES
2 NOT HELP. AND I THINK A LOT OF PEOPLE WOULD NOT
3 NECESSARILY WANT THEIR TISSUE ANONYMIZED FOR VARIOUS
4 REASONS. CHRIS WANTS THE RESEARCH TO HELP HER
5 CHILDREN. ANONYMOUS RESEARCH CANNOT. OTHER GROUPS
6 LIKE THE RECENT CASE WITH THE HAVASUPAI, IF THEIR
7 SAMPLES WERE ANONYMOUS, THEY WOULDN'T HAVE BEEN ABLE
8 TO HAVE THEM RETURNED, AND THEY WOULDN'T HAVE BEEN
9 ABLE TO BURY THEM AS THEY THOUGHT WERE APPROPRIATE.

10 AND I BELIEVE GEOFF IS GOING TO TALK A
11 LITTLE BIT MORE ABOUT THAT CASE, BUT THIS WAS A CASE
12 WHERE SAMPLES WERE TAKEN. THE TRIBE UNDERSTOOD THAT
13 THEY WERE GOING TO BE USED FOR DIABETES RESEARCH,
14 WHICH WAS A MAJOR PROBLEM WITHIN THEIR TRIBE. AND
15 THEN THEY WERE USED FOR SCHIZOPHRENIA AND MIGRATION
16 RESEARCH WHICH THE TRIBE REALLY DISAGREED WITH. AND
17 EVENTUALLY THE SAMPLES WERE RETURNED, AND THEY WERE
18 RETURNED TO FAMILY MEMBERS, AND THE FAMILY MEMBERS
19 THOUGHT IT WAS VERY IMPORTANT TO RESPECTFULLY BURY
20 THOSE SAMPLES. SO IN ANONYMOUS SITUATIONS, THINGS
21 CAN'T BE RETURNED.

22 IF YOU ARE PLANNING TO DO ANONYMIZATION, I
23 THINK THAT NEEDS TO BE DISCLOSED IN THE CONSENT
24 DOCUMENTS SO THAT PATIENTS KNOW THEY WON'T BE ABLE
25 TO WITHDRAW IN THE FUTURE, AND THAT THEY WON'T BE

BARRISTERS' REPORTING SERVICE

1 ABLE TO GET ANY RESEARCH RESULTS BACK.

2 IN TERMS OF WITHDRAWAL FROM PARTICIPATION
3 FROM RESEARCH, SOME OF THE KEY QUESTIONS ARE IS THE
4 WITHDRAWAL FULL OR PARTIAL? IN SOME CASES A PATIENT
5 MAY JUST WANT TO PARTIALLY WITHDRAW. THEY MAY SAY I
6 DON'T WANT ANY MORE INTERVENTIONS. I DON'T WANT TO
7 GIVE ANY MORE BLOOD SAMPLES. I DON'T WANT TO FILL
8 OUT ANY MORE SURVEYS. BUT WHATEVER YOU HAVE, YOU
9 CAN KEEP USING. SO THAT WOULD BE AN INSTANCE OF
10 PARTIAL WITHDRAWING. IT'S IMPORTANT TO FIGURE OUT
11 WHAT THE PATIENT IS LOOKING FOR. ARE THE MATERIALS
12 OR DATA IDENTIFIABLE? WHAT IS THE SCOPE OF ANALYSIS
13 AND THE IRB-APPROVED PROTOCOL? AND THAT IS RELATED
14 TO SOME OF OHRP'S CURRENT GUIDANCE. AND WHAT WAS
15 PROMISED TO THE RESEARCH PARTICIPANT IN THE CONSENT
16 DOCUMENT? OBVIOUSLY WHATEVER WAS PROMISED, YOU NEED
17 TO FOLLOW THROUGH ON.

18 THESE ARE SOME KEY RESOURCES. THERE IS A
19 FAIRLY RECENT OHRP GUIDANCE ON WITHDRAWAL OF
20 SUBJECTS FROM RESEARCH, DATA RETENTION, AND OTHER
21 RELATED ISSUES, AND THEN FDA GUIDANCE AS WELL.

22 SO THIS IS GOING TO BE A LITTLE -- I
23 THOUGHT GEOFF WAS GOING TO GO IN FRONT OF ME, SO I'M
24 RESPONDING TO SOME OF HIS RECOMMENDATIONS. HE
25 LISTED OUT A NUMBER OF POSSIBLE OPTIONS FOR

BARRISTERS' REPORTING SERVICE

1 WITHDRAWAL, AND THEN I ATTEMPTED TO KIND OF
2 CORRELATE THE OHRP GUIDANCE TO THAT, AND THEN ALSO
3 GIVE KIND OF MY OPINION AS TO WHAT I THOUGHT SHOULD
4 HAPPEN.

5 SO ONE WITHDRAWAL OPTION WOULD BE NO
6 FURTHER CONTACT BY THE REPOSITORY. THE OHRP
7 GUIDANCE IS THAT INTERACTION OR INTERVENTION WITH A
8 SUBJECT TO OBTAIN DATA MUST BE DISCONTINUED
9 FOLLOWING THE WITHDRAWAL UNLESS, OF COURSE, THE
10 ASTERISK SAYS, THE SUBJECT AGREES TO CONTINUED
11 CONTACT OR RESEARCH ACTIVITY IN THE CASE OF A
12 PARTIAL WITHDRAWAL. BUT IF IT'S A FULL WITHDRAWAL,
13 YOU WOULD NEED TO STOP INTERACTING OR INTERVENING
14 WITH THEM, SO IN MY MIND OPTION ONE SHOULD OCCUR.

15 OPTION 2 IS NO CONTACT AND NO FURTHER
16 COLLECTION OF DONOR MEDICAL INFORMATION. ACCORDING
17 TO THE OHRP GUIDANCE, OBTAINING ADDITIONAL
18 IDENTIFIABLE INFORMATION ABOUT THE SUBJECT FOR THE
19 RESEARCH STUDY MUST BE DISCONTINUED FOLLOWING
20 WITHDRAWAL UNLESS, OF COURSE, IT'S PARTIAL. SO IN
21 MY MIND OPTION 2 WOULD ALSO NEED TO OCCUR.

22 THEN IT BECOMES LESS CLEAR. WITHDRAWAL OF
23 HUMAN -- ANOTHER OPTION WOULD BE TO WITHDRAW THE
24 HUMAN SUBJECT STATUS OF THE MATERIAL, BASICALLY TO
25 REMOVE INDIVIDUAL IDENTIFIERS AND RENDER THE DATA

BARRISTERS' REPORTING SERVICE

1 AND SPECIMENS COMPLETELY ANONYMIZED. THE OHRP
2 GUIDANCE IS THAT RETENTION AND ANALYSIS OF ALREADY
3 COLLECTED IDENTIFIABLE DATA IS PERMITTED PROVIDING
4 SUCH ANALYSIS FALLS WITHIN THE SCOPE OF THE ANALYSIS
5 DESCRIBED IN THE IRB-APPROVED PROTOCOL. THE OHRP
6 GUIDANCE REALLY ONLY DEALS WITH DATA. THEY DON'T
7 CALL OUT SPECIMENS OR TRANSFORMED MATERIALS AT ALL.
8 SO IT'S SOMEWHAT UNCLEAR AS TO WHAT THE STATUS OF
9 CONTINUED USE OF COLLECTED SPECIMENS AND DERIVATIVES
10 WOULD BE.

11 IN MY MIND THE ACTION IN TERMS OF OPTION 3
12 IS A BIT UNCLEAR. I PERSONALLY THINK IT'S ETHICALLY
13 PROBLEMATIC TO REMOVE IDENTIFIERS IN ORDER TO
14 CONTINUE USE. I THINK THAT IS REALLY JUST GOING
15 AROUND THE PARTICIPANT'S REQUEST. THE REQUEST IS TO
16 STOP USING THE MATERIAL FOR RESEARCH. TO STRIP
17 IDENTIFIERS AFTER YOU RECEIVE THE REQUEST AND THEN
18 CONTINUE TO USE IT REALLY SEEMS TO BE JUST IGNORING
19 THEIR REQUEST.

20 IF YOU ALWAYS PLAN TO HAVE MATERIAL BE
21 ANONYMOUS OR THE MATERIAL WAS RENDERED ANONYMOUS
22 PREVIOUSLY, I THINK THAT'S A MUCH DIFFERENT CASE.
23 BUT TO RECEIVE THE REQUEST AND THEN STRIP
24 IDENTIFIERS, I THINK, IS REALLY NOT RESPECTING THE
25 PARTICIPANT. REGARDLESS, YOU MUST ADHERE TO THE

BARRISTERS' REPORTING SERVICE

1 CONSENT LANGUAGE IN WHATEVER YOU PROMISED. I THINK
2 IT'S IMPORTANT TO NOTE THAT YOU DO NEED TO TRY TO BE
3 EXPLICIT IN TERMS OF HOW YOU DESCRIBE THE ABILITY TO
4 WITHDRAW. THERE ARE SOME CONSENTS THAT SAY YOU CAN
5 WITHDRAW AT ANY TIME AND THEN DON'T SAY ANYTHING
6 ELSE, AND THAT'S NOT NECESSARILY TRUE.

7 OPTION 4, WITHDRAWAL OF PRIMARY
8 UNTRANSFORMED TISSUE SAMPLES. THE OHRP GUIDANCE
9 WOULD BE ABOUT THE SAME AS OPTION 3. CONTINUED USE
10 OF COLLECTED SPECIMENS AND DERIVATIVES ARE NOT
11 EXPLICITLY ADDRESSED. HERE I THINK THE ACTION IS
12 AGAIN NOT ENTIRELY CLEAR. FOR MOST BIOBANKS COMMON
13 PRACTICE IS TO STOP DISTRIBUTION OF SPECIMENS THAT
14 ARE WITHIN THE BANK AND EITHER OR SOMETIMES RETURN
15 IT TO THE INSTITUTION IF IT'S LIKE A TISSUE BLOCK
16 YOU MIGHT RETURN TO THE INSTITUTION BECAUSE THEY
17 MIGHT BE ABLE TO USE IT, BUT NOT TO ATTEMPT TO
18 RECALL SPECIMENS THAT ARE ALREADY IN USE. SO IF YOU
19 HAVE DISTRIBUTED SPECIMENS OUT TO THE RESEARCHERS,
20 MOST BANKS WILL NOT TRY TO RECALL THOSE.

21 THIS IS AN INSTANCE WHERE I THINK THE
22 PLANNED ACTION SHOULD BE DESCRIBED IN THE CONSENT
23 AND ADHERED TO. SO LET PEOPLE KNOW WE WILL DESTROY
24 WHATEVER IS IN THE BANK. WE MAY HAVE ALREADY GIVEN
25 THINGS OUT, AND YOU WON'T BE ABLE TO GET THOSE BACK.

BARRISTERS' REPORTING SERVICE

1 AND IF A PARTICIPANT IS NOT COMFORTABLE WITH THAT,
2 THEN THEY'LL KNOW AND THEY WILL NOT PARTICIPATE.

3 AND OPTION 5 IS NO FURTHER DISTRIBUTION OF
4 TRANSFORMED MATERIALS. AGAIN, IN TERMS OF OHRP
5 GUIDANCE, THERE'S NOTHING VERY CLEAR HERE. AND
6 ADDITIONALLY, THE OHRP GUIDANCE DOES NOT REALLY
7 ADDRESS TRANSFORMED MATERIALS. AND WHETHER THEY'RE
8 STILL SPECIMENS, MUCH OF THIS GUIDANCE WAS WRITTEN
9 AWHILE AGO. I THINK OHRP WAS REALLY TRYING TO
10 ADHERE AS MUCH TO THE FDA GUIDANCE. THEY WERE
11 TRYING TO MAKE SURE THEY WEREN'T IN CONFLICT. SO
12 THAT'S ONE REASON WHY I DON'T THINK OHRP REALLY
13 ADDRESSED SPECIMENS BECAUSE THEY WERE TRYING TO MAKE
14 SURE THAT THEIR GUIDANCE WAS HARMONIZED.

15 THE ACTION HERE, AGAIN, IS UNCLEAR. YOU
16 COULD APPLY KIND OF THE SAME COMMON BIOBANKING
17 PRACTICE OF DESTROYING WHAT'S IN THE BANK, BUT NOT
18 GOING AFTER WHAT'S BEEN RELEASED, OR YOU MAY DECIDE
19 THAT TRANSFORMED MATERIALS ARE DISTINCT AND NOT
20 QUITE THE SAMPLE AS A PRIMARY SPECIMEN. AGAIN, I
21 WOULD JUST SAY WHATEVER THE PLANNED ACTION IS SHOULD
22 BE DESCRIBED AND THEN ADHERED TO.

23 IN TERMS OF MATERIAL TRANSFER AND DATA USE
24 AGREEMENTS, THEY CAN BE PROBLEMATIC, OF COURSE. BUT
25 I THINK IN MANY CASES THEY ARE A USEFUL TOOL FOR

BARRISTERS' REPORTING SERVICE

1 DELINEATING THE RESPONSIBILITIES OF PROVIDERS AND
2 RECIPIENTS. SO WHO IS RESPONSIBLE FOR WHAT
3 BASICALLY?

4 AND HERE THERE CAN BE KIND OF TIERS OF
5 MTA'S. I THINK IT'S IMPORTANT TO UNDERSTAND AS WELL
6 THERE MIGHT BE, DEPENDING ON THE MODEL OF THE
7 BIOBANK, SO CIRM YOU MIGHT HAVE AN AGREEMENT BETWEEN
8 THE COLLECTION SITE WHO'S INTERACTING WITH THE
9 PATIENTS AND CIRM AND THEN ANOTHER AGREEMENT BETWEEN
10 CIRM AND END USERS. GENERALLY I'M REFERRING TO
11 PROVIDERS AS THE PEOPLE WITH THE MATERIAL AND
12 RECIPIENTS AS THE PEOPLE RECEIVING IT.

13 MTA'S CAN ALSO SERVE SOMETIMES TO MAKE
14 IRB'S MORE COMFORTABLE BECAUSE THEY THEN HAVE SOME
15 MEANS OF KNOWING WHAT THE END USER IS AGREEING TO
16 AND WHAT RESPONSIBILITIES ARE BEING PUT ON THE END
17 USER. COMMON TERMS OFTEN INCLUDE THINGS LIKE NO
18 FURTHER TRANSFER OF MATERIALS WITHOUT PRIOR
19 APPROVAL. THE RECIPIENT WILL NOT SEEK TO IDENTIFY
20 OR CONTACT DONORS OR FAMILIES. DESCRIPTION OF IP
21 RIGHTS OF BOTH PARTIES. OFTEN THAT THE PROVIDER
22 WILL NOT HAVE REACH-THROUGH RIGHTS TO THE
23 RECIPIENT'S IP.

24 IN MANY CASES MTA'S WILL ALSO REQUIRE THAT
25 END USERS ACKNOWLEDGE THE RESOURCE SO THAT THE

BARRISTERS' REPORTING SERVICE

1 RECIPIENTS MIGHT HAVE TO SAY I OBTAINED THESE CELLS
2 FROM CIRM UNDER GRANT XYZ, WHICH IS USEFUL FOR YOU
3 BASICALLY SO YOU CAN TRACK HOW YOUR SAMPLES ARE
4 BEING USED.

5 IF USING AN ACCESS OR APPROVAL PROCESS,
6 THE MTA COULD ALSO OBLIGATE RECIPIENT TO LIMIT USE
7 TO THE APPROVED RESEARCH PROTOCOL, WHICH I THINK
8 MIGHT BE VERY IMPORTANT TO YOU IF YOU'RE TRYING TO
9 HAVE PROCESSES TO LIMIT WHAT TYPES OF RESEARCH OR IF
10 YOU'VE MADE PROMISES TO THE PARTICIPANT ABOUT HOW
11 THEIR SAMPLE WILL BE USED. IT CAN BE A MECHANISM TO
12 OBLIGATE THE END USER. AND YOU CAN ALSO COMBINE
13 WITH A DATA USE AGREEMENT, IF NECESSARY, IF YOU'RE
14 TRANSFERRING A LIMITED DATASET UNDER HIPAA.

15 THE CHALLENGE IS ENFORCEMENT. IF SOMEONE
16 DOES VIOLATE THE MTA, WHAT ARE YOU GOING TO DO ABOUT
17 IT? YOU PROBABLY ARE NOT GOING TO SUE THEM. IF
18 THEY'RE A CIRM GRANT RECIPIENT, YOU MIGHT HAVE MORE
19 LEVERAGE, BUT BEING REALISTIC, THERE IS AN
20 ENFORCEMENT CHALLENGE.

21 IN TERMS OF RETURN OF INCIDENTAL FINDINGS
22 AND INDIVIDUAL RESEARCH RESULTS, I WOULD JUST SAY
23 THAT THIS IS A VERY HOT BUTTON ISSUE RIGHT NOW.
24 THERE'S A LOT OF WORK BEING DONE WITHIN NIH AND
25 OTHER GROUPS AROUND THIS ISSUE. I ATTEMPTED TO

BARRISTERS' REPORTING SERVICE

1 PROVIDE SOME AREAS OF GENERAL CONSENSUS AND THEN
2 SOME KIND OF REMAINING QUESTIONS.

3 IN TERMS OF CONSENSUS, MOST PEOPLE WOULD
4 AGREE THAT THERE'S A NEED TO PROVIDE AN OPT-IN OR
5 OPT-OUT OPPORTUNITY FOR PATIENTS SO THAT THEY ARE
6 STATING THEIR PREFERENCE AS TO WHETHER OR NOT THEY
7 WANT TO RECEIVE RESULTS. EVEN WITH THAT BEING SAID,
8 PROVIDING THAT OPT-IN OR OPT-OUT IS MORE DIFFICULT
9 IN A REPOSITORY SETTING BECAUSE YOU MAY NOT KNOW HOW
10 THE SPECIMENS WILL BE USED. SO IT'S DIFFICULT TO
11 DESCRIBE TO THE PARTICIPANT WHAT KINDS OF RESULTS
12 THEY COULD EXPECT TO GET. PATIENTS MAY HAVE
13 PREFERENCES FOR RECEIVING ONE TYPE OF INFORMATION
14 AND NOT ANOTHER. IN A BROAD FUTURE USE KIND OF
15 CONSENT, YOU CAN'T REALLY DESCRIBE TO THEM HOW THAT
16 WILL WORK.

17 THERE ARE ALSO -- SOME WOULD ARGUE THAT
18 THERE ARE INSTANCES WHERE PATIENTS SHOULD BE TOLD
19 THEIR RESULTS REGARDLESS OF THEIR CHOICE. THIS IS A
20 VERY CONTROVERSIAL CONCEPT, BUT SOME WOULD ARGUE
21 THAT THERE IS A DUTY TO RESCUE. AND SO IF YOU KNOW
22 THAT THERE IS A VERY SERIOUS CLINICAL IMPLICATION
23 RESULT THAT IS ACTIONABLE, THERE MIGHT BE SOME DUTY
24 TO RESCUE AND INFORM THE PATIENT. SO THAT'S
25 SOMETHING VERY CONTROVERSIAL, AND I CITED A PAPER.

BARRISTERS' REPORTING SERVICE

1 YOU CAN GO READ ABOUT THAT.

2 MOST PEOPLE WOULD ALSO AGREE THERE'S A
3 NEED FOR ESTABLISHED ANALYTICAL VALIDITY BEFORE
4 RETURNING, AND THAT THERE'S A NEED FOR RESULTS TO BE
5 CLINICALLY SIGNIFICANT AND/OR ACTIONABLE. THERE'S
6 DISAGREEMENT AS TO WHETHER CLINICALLY SIGNIFICANT IS
7 ENOUGH OR WHETHER IT MUST ALSO BE ACTIONABLE. AND
8 THE REAL DIFFICULTY HERE IS TO DEFINE ALL THOSE
9 CRITERIA. WHAT IS CLINICALLY SIGNIFICANT? WHAT IS
10 CLINICALLY ACTIONABLE? HOW DO YOU APPLY THOSE TO
11 INDIVIDUAL STUDIES?

12 ALSO THERE'S A LOT OF DISAGREEMENT ABOUT
13 WHETHER CLIA IS APPLICABLE. MY IMPRESSION IS THAT
14 CMS WOULD SAY YES. IF YOU ARE RETURNING ANALYSIS
15 FOR PATIENT CARE, IT'S APPLICABLE. AND SO IF ONE OF
16 YOUR CRITERIA IS CLINICALLY SIGNIFICANT OR
17 ACTIONABLE, IT'S HARD TO ARGUE THAT YOU'RE NOT
18 RETURNING IT FOR PATIENT CARE.

19 NOW, I THINK THERE ARE OTHER STUDIES WHERE
20 THEY ARE -- ONE OF THEIR STUDY AIMS IS AROUND RETURN
21 OF RESEARCH RESULTS, AND THEY'RE RETURNING
22 EVERYTHING. IF YOU'RE RETURNING EVERYTHING, YOU
23 REALLY AREN'T RETURNING IT FOR PATIENT CARE
24 NECESSARILY. BUT THIS IS A VERY KIND OF OPEN ISSUE.
25 THERE ARE SOME PEOPLE WHO ARGUE THAT IF YOU RETURN

BARRISTERS' REPORTING SERVICE

1 THE RESULTS AND CLEARLY STATE THEY ARE RESEARCH
2 RESULTS THAT SHOULD NOT BE USED FOR CLINICAL CARE
3 UNTIL REPLICATED IN A CLIA-APPROVED LAB, THAT THAT'S
4 OKAY. BUT THIS IS REALLY KIND OF AN OPEN QUESTION.

5 IF CLIA IS FOUND TO APPLY, THERE'S A LOT
6 OF DOWNSTREAM QUESTIONS. DO YOU NEED TO REPLICATE
7 IN A CLIA-APPROVED LAB? WHO'S GOING TO PAY FOR THAT
8 TO HAPPEN? WHAT IF YOU DON'T HAVE A SAMPLE TO
9 REPLICATE? ESPECIALLY IN CASE OF TISSUE, SHOULD
10 BANKS HOLD ONE ALIQUOT IN CASE THEY EVER NEED TO
11 REPEAT? AND THEN WHAT IF THERE ISN'T A
12 CLIA-APPROVED LAB FOR WHATEVER TEST?

13 AND THEN ANOTHER OUTSTANDING QUESTION IS
14 WHAT ABOUT RESULTS WITH REPRODUCTIVE SIGNIFICANCE OR
15 PERSONAL MEANING? SHOULD THOSE BE RETURNED? AND
16 HOW DO YOU DEFINE THOSE TERMS?

17 A FEW RESOURCES. MY OFFICE SPONSORED A
18 WORKSHOP LAST SUMMER ON THIS TOPIC THAT WAS CONFINED
19 SPECIFICALLY TO RETURN OF RESEARCH RESULTS FOR
20 PARTICIPANTS IN BIOSPECIMEN STUDIES, SO IT'S MORE
21 SPECIFIC TO BIOBANKING, WHICH MIGHT BE OF INTEREST.
22 AND THERE'S ALSO AN NHLBI GROUP THAT HAS A RECENT
23 PUBLICATION. THEY WERE FOCUSING ON RETURN OF
24 GENETIC RESEARCH RESULTS. YOU'LL BE GLAD TO KNOW
25 THE TWO ARE FAIRLY HARMONIZED THOUGH THEY HAVE KIND

BARRISTERS' REPORTING SERVICE

1 OF A DIFFERENT FOCUS, BUT THE BASIC PRINCIPLES ARE
2 VERY SIMILAR.

3 AND SUSAN WOLF, WHO'S AT UNIVERSITY OF
4 MINNESOTA, HAS A CURRENT NHGRI GRANT ENTITLED
5 "MANAGING INCIDENTAL FINDINGS AND RESEARCH RESULTS
6 IN GENOMIC BIOBANKS AND ARCHIVES." SHE IS
7 SPONSORING AN UPCOMING MEETING IN DC ON THE 19TH
8 AROUND THIS ISSUE.

9 I DO THINK THERE ARE SOME SPECIFIC
10 CHALLENGES TO RETURN OF INCIDENTAL FINDINGS AND
11 INDIVIDUAL RESEARCH RESULTS FOR BIOBANKS.
12 BIOSPECIMENS, AS I SAID, ARE OFTEN COLLECTED WITH
13 BROAD CONSENT FOR FUTURE RESEARCH USE, AND IT'S
14 THEREFORE VERY DIFFICULT TO PREDICT WHAT TYPES OF
15 RESULTS YOU MIGHT FIND AND TO INFORM PATIENTS.

16 IF TIERED CONSENT IS USED, THE CONSENT
17 CATEGORIES ARE USUALLY VERY BROAD. AND I THINK IT
18 WOULD BE UNCLEAR TO A PARTICIPANT HOW THEIR CHOICES
19 MAY AFFECT WHAT KINDS OF RESEARCH RESULTS THEY
20 RECEIVED BACK. EVEN IF THE BIOSPECIMEN IS
21 ORIGINALLY COLLECTED FOR A SPECIFIC PROJECT, IT
22 COULD BE USED IN FUTURE RESEARCH. AND, AGAIN, THEN
23 THE PATIENT MAY NOT HAVE BEEN INFORMED ABOUT THOSE
24 KINDS OF RESULTS. AND WE HAVE TO ACKNOWLEDGE THAT.
25 REMNANT BIOSPECIMENS NOT NEEDED FOR CLINICAL

BARRISTERS' REPORTING SERVICE

1 PURPOSES MAY ALSO BE USED FOR RESEARCH IF DETERMINED
2 THE USE DOES NOT CONSTITUTE HUMAN SUBJECTS RESEARCH
3 OR IF A WAIVER OF CONSENT IS GRANTED.

4 THOSE PEOPLE MAY BE TOTALLY UNAWARE THAT
5 THAT RESEARCH WAS HAPPENING AND WOULD BE SURPRISED
6 OR SHOCKED IF SOMEONE CALLED THEM UP WITH RESEARCH
7 FINDINGS. AND THAT PARTICIPANT WOULD HAVE BEEN
8 UNABLE TO OPT OUT OF RECEIVING UNWANTED INFORMATION.

9 TO FURTHER KIND OF HIGHLIGHT THIS POINT, I
10 JUST MADE A LITTLE SCHEMATIC OF HOW THIS COULD WORK
11 IN ONE COMMON BIOREPOSITORY MODEL. SO HERE IN THE
12 CENTER WE HAVE OUR BIOREPOSITORY. AND IN SOME CASES
13 THE BIOREPOSITORY MAY BE HOUSED WITHIN ONE ACADEMIC
14 CENTER, FOR EXAMPLE, RECEIVING SPECIMENS FROM ONLY
15 ONE CENTER. IN MANY CASES THE REPOSITORY RECEIVES
16 SAMPLES FROM A VARIETY OF INSTITUTIONS, FROM A
17 VARIETY OF COLLECTION SITES. AND THEN THERE'S
18 THROUGH SOME KIND OF APPROVAL PROCESS, THE SPECIMENS
19 GO OUT TO VARIOUS RESEARCHERS FOR APPROVED PROJECTS.

20 SO WHAT IF THEN WE HAVE RESEARCHER ONE HAS
21 SOME RESEARCH RESULTS THAT MEETS WHATEVER CRITERIA
22 FOR RETURN? THAT SAMPLE COULD HAVE COME FROM
23 COLLECTION SITE TWO, OR IT COULD HAVE COME FROM
24 THREE DIFFERENT COLLECTION SITES DEPENDING ON
25 WHETHER IS IT JUST A RESULT THAT APPLIES TO ONE

BARRISTERS' REPORTING SERVICE

1 PARTICIPANT OR MAYBE IT'S A SUBCLASS. YOU KNOW,
2 THEY HAVE THIS RESEARCH FINDING THAT SOME PROPORTION
3 OF THEIR SUBJECTS HAVE MUTATION X. AND SO THE
4 SPECIMENS MAY HAVE COME FROM A NUMBER OF COLLECTION
5 SITES.

6 WHAT DO WE DO? WHO MAKES THE DECISION TO
7 RETURN? IN MANY CASES THE REPOSITORY DOES NOT HAVE
8 THE IDENTIFIERS. THAT'S VERY DEPENDENT ON THE
9 MODEL, BUT THAT'S A COMMON MODEL IS THAT THE
10 REPOSITORY DID NOT HAVE IDENTIFIERS. THEY'RE HOUSED
11 WITHIN THE COLLECTION SITES. SO THE BANK CAN'T
12 RETURN, BUT THE BANK IS KIND OF IN THE MIDDLE. WHAT
13 IF SITES 2, 3, AND 4 DISAGREE ABOUT WHAT TO DO? I
14 THINK THIS COULD BE A VERY COMMON OCCURRENCE. IS IT
15 OKAY THAT DIFFERENT PARTICIPANTS WILL BE RECEIVING
16 DIFFERENT LEVELS OF INFORMATION BASED ON WHERE THEY
17 HAPPENED TO PARTICIPATE? IS THAT OKAY? DO WE WANT
18 THAT TO BE MORE STANDARDIZED? AND WHAT IF THE
19 CONSENTS DIFFER AT SITES 2, 3, AND 4?

20 SO THESE ARE ALL KIND OF OPERATIONAL
21 ISSUES THAT MAKE IT MORE PROBLEMATIC WHEN YOU HAVE
22 THIS BIOBANKING MODEL AS OPPOSED TO SOMETHING WHERE
23 YOU THE RESEARCHER HAS A DIRECT RELATIONSHIP WITH
24 THE PATIENT. AND I WOULD ALSO SAY THAT I'VE HEARD
25 FROM IRB CHAIRS WITHIN INSTITUTIONS THAT THEY ARE

BARRISTERS' REPORTING SERVICE

1 SOMEWHAT UNCOMFORTABLE IN THIS SITUATION BECAUSE
2 THEY DON'T HAVE ANY CONTROL OR KNOWLEDGE ABOUT
3 RESEARCHER ONE. IS HE DOING HIS RESEARCH CORRECTLY?
4 IS THIS SOMETHING THAT SHOULD BE CONTROLLED? IS
5 THIS SOMETHING THAT SHOULD BE RETURNED? THEY DON'T
6 HAVE ANY DIRECT INTERACTION WITH THAT PERSON. DO
7 THEY WANT TO TAKE ON THE ONUS OF RETURNING THIS DATA
8 THAT THEY ARE NOT AT ALL INVOLVED IN?

9 AND MY FINAL UNSOLICITED OPINION IS THAT I
10 THINK THERE'S A REAL NEED FOR MORE EMPIRICAL
11 RESEARCH ON ETHICAL, LEGAL, AND SOCIAL ISSUES. IN
12 MY MIND AN IPS CELL REPOSITORY WOULD BE AT THE
13 INTERSECTION OF A LOT OF NEW SCIENTIFIC AND ETHICAL
14 CHALLENGES. AND THERE'S A LOT OF GREAT VALUE IN
15 KNOWING WHAT RESEARCH PARTICIPANTS ACTUALLY
16 UNDERSTAND ABOUT RESEARCH AND WHAT THEIR PREFERENCES
17 ARE. I THINK IN MANY CASES IT'S VERY EASY TO BE
18 PATERNALISTIC AND THINK WE SHOULD DO X. WE SHOULD
19 DO X, PATIENTS WANT Y, BUT OUR PERCEPTIONS MAY NOT
20 REALLY BE ACCURATE. I THINK THERE MIGHT BE A LOT OF
21 OPPORTUNITIES TO FORM COLLABORATIONS WITH ETHICAL
22 RESEARCHERS TO TRY AND ANSWER SOME OF THESE
23 QUESTIONS AS YOU'RE GIVING GRANTS OR CONTRACTS TO
24 COLLECT SAMPLES OR DO ADD-ON STUDIES.

25 THERE'S BEEN -- IT'S BECOME MORE COMMON

BARRISTERS' REPORTING SERVICE

1 TO, WHEN CONDUCTING A RESEARCH STUDY, ADD ON A
2 SMALLER STUDY WHERE YOU ASK PARTICIPANTS WHAT DID
3 YOU UNDERSTAND ABOUT THAT CONSENT THAT YOU SIGNED?
4 HOW COMFORTABLE WERE YOU? THINGS LIKE THAT. I
5 THINK THAT CAN BE OF REAL VALUE. AND IF IT'S NOT
6 THEN DONE, IT'S HARDER TO DO DOWN THE ROAD. AND I
7 THINK A LOT OF THESE QUESTIONS, IF YOU ADDRESS THEM
8 IN A HYPOTHETICAL MANNER, ARE NOT REALLY THE SAME AS
9 WHEN YOU'RE ASKING ACTUAL PARTICIPANTS WHAT THEIR
10 FEELINGS ARE.

11 THAT'S ALL I HAVE. I'D BE HAPPY TO TAKE
12 QUESTIONS OR IF YOU WANT TO DO THAT LATER.

13 CHAIRMAN LO: NICOLE, THANKS VERY MUCH FOR
14 A VERY, VERY THOROUGH AND STIMULATING PRESENTATION.
15 WE'RE GOING TO GO BACK AND DISCUSS EACH OF THESE
16 SPECIFIC TOPICS: CONSENT, RETURN RESULTS, ETC. SO
17 I'M GOING TO SUGGEST THAT ON SPECIFIC SUBSTANTIVE
18 ISSUES WE HOLD AND HAVE THAT FOLDED IN AS PART OF
19 OUR GENERAL DISCUSSION, WHICH IS COMING UP. NOW IF
20 THERE ARE EITHER CLARIFICATION QUESTIONS AS TO WHAT
21 NICOLE SAID OR QUESTIONS ABOUT WHAT CAHUB OR NCI OR
22 NIH IS DOING, WHY DON'T WE COVER THAT NOW, BUT NOT
23 GET INTO SPECIFIC POINTS ABOUT THE SUBSTANCE.

24 DR. KIESSLING: I HAVE A QUESTION ABOUT
25 THE TERM "BIOBANKS." IS THERE ANYWHERE A LIST OF,

BARRISTERS' REPORTING SERVICE

1 IS THERE A BIOBANK REGISTRY, IS THERE A GENERAL LIST
2 OF WHAT IS A BIOBANK AND WHERE ARE THEY AND WHO ARE
3 THEY?

4 DR. LOCKHART: THE SHORT ANSWER IS NO NOT
5 REALLY. AND IT ALSO DEPENDS WHAT YOU WOULD CALL A
6 BIOBANK. AND I WILL ALSO SAY THAT THERE'S A LOT OF
7 DIFFERENT TERMS USED, BIOBANK, BIOREPOSITORY. THE
8 NCI HAS ADOPTED BIOSPECIMEN RESOURCE. SO A LOT OF
9 DIFFERENT TERMS. THEY ALL PRETTY MUCH MEAN THE SAME
10 THING.

11 BUT MANY, INCLUDING THE NCI, WOULD THINK
12 OF A BIOBANK AS INCLUDING A FREEZER OF SPECIMENS IN
13 SOMEONE'S LAB. SO FROM THAT PERSPECTIVE, THAT'S A
14 COLLECTION OF SPECIMENS THAT ARE BEING USED FOR
15 RESEARCH. IS THAT A BIOBANK? IF SO, THERE'S NOT A
16 BIG LIST. MOST OF THE LARGER BIOBANKS ARE INVOLVED
17 IN GROUPS LIKE THE INTERNATIONAL SOCIETY FOR
18 BIOLOGICAL AND ENVIRONMENTAL REPOSITORIES, ISBER.
19 IN TERMS OF LARGE BIOBANKS, YOU CAN PROBABLY FIND
20 THEM. BUT IT DEPENDS ON IF YOU WANT TO EXTEND THAT
21 TO EITHER INDIVIDUAL RESEARCHERS OR EVEN
22 INSTITUTIONAL BIOBANKS.

23 A LOT OF ACADEMIC CENTERS HAVE SMALL
24 BIOBANKS THAT ARE MAINLY JUST USED FOR THEIR OWN
25 RESEARCH. AND IN SOME CASES THEY HAVE KIND OF A

BARRISTERS' REPORTING SERVICE

1 LUNG BIOBANK THAT MAYBE A LUNG CANCER SURGEON SET
2 UP, AND THERE MIGHT BE ANOTHER BREAST CANCER BIOBANK
3 THAT THE BREAST SURGEON SET UP. SO THERE CAN BE
4 EVEN WITHIN AN INSTITUTION SEVERAL SMALL BIOBANKS
5 THAT MAY SHARE SAMPLES IF YOU DO A COLLABORATION.
6 IT'S NOT TERRIBLY WELL DEFINED.

7 THIS IS A LARGE PART OF THE PROBLEM IS IF
8 YOU'RE A RESEARCHER, HOW DO YOU FIGURE OUT WHERE TO
9 GET SAMPLES? SOMETIMES YOU HAVE TO KNOW SOMEONE.
10 AND QUALITY CONTROL. ARE ALL THESE PEOPLE, HOW ARE
11 THEY PROCESSING THEIR SAMPLES? HOW ARE THEY
12 PRESERVING THEIR SAMPLES? DO THEY HAVE ANY IDEA
13 WHAT THE QUALITY OF THOSE SAMPLES ARE AND HOW THAT
14 WILL AFFECT DOWNSTREAM RESEARCH? WHEN YOU HAVE SO
15 MANY PEOPLE WORKING IN SILOS OR ISOLATION, IT'S VERY
16 HARD TO HAVE STANDARDS AND TO HAVE QUALITY.

17 MS. LANSING: I WANT TO JUST MAKE SURE I'M
18 CLEAR ON THIS AND VERY MINDFUL OF WHAT CHRIS BROUGHT
19 UP. IN ALL OF THE GOVERNMENT AGENCIES THAT YOU'RE
20 REPRESENTING --

21 DR. LOCKHART: THAT I'M NOT REPRESENTING,
22 BUT THAT I'M AWARE OF.

23 MS. LANSING: THAT YOU'RE DESCRIBING. I
24 KNOW YOU'RE NOT REPRESENTING THEIR POINT OF VIEW,
25 BUT I JUST WANT TO MAKE SURE I UNDERSTAND THIS. IN

BARRISTERS' REPORTING SERVICE

1 ALL OF THE GOVERNMENT AGENCIES, THE PATIENT DOES NOT
2 HAVE THE RIGHT TO ACCESS THEIR OWN MATERIAL?

3 DR. LOCKHART: DO YOU MEAN IN TERMS OF
4 WITHDRAWAL OR IN TERMS OF RESEARCH RESULTS?

5 MS. LANSING: RESEARCH RESULTS.

6 DR. LOCKHART: I WOULD NOT PUT IT THAT
7 STRONGLY, THAT THEY DO NOT HAVE THE RIGHT. I WOULD
8 SAY IT'S NOT GENERALLY COMMON PRACTICE.

9 MS. LANSING: IT'S MOSTLY ANONYMOUS.

10 DR. LOCKHART: IT'S NOT USUALLY ANONYMOUS,
11 BUT OFTEN CODED.

12 MS. LANSING: WHAT CHRIS WAS BRINGING UP,
13 WHICH I THINK IS SUCH A VITAL POINT, WHICH IS I'M
14 GOING TO ADDRESS WHAT, I THINK, LATER, BUT I JUST
15 WANT TO BE SURE THAT IF YOU WERE TO GIVE TISSUE OR
16 CELLS INTO A BANK IN ALL OF THESE VARIOUS REGULATED
17 AGENCIES, YOU WOULD NOT BE ABLE TO KNOW, AS A COMMON
18 PRACTICE, BE ABLE TO KNOW WHAT WAS GOING ON BECAUSE
19 IT WOULD BE ANONYMIZED. IS THAT A GENERAL THING.

20 UNIDENTIFIED SPEAKER: AT LEAST BLINDED.

21 CHAIRMAN LO: EVEN IF IT'S NOT ANONYMIZED,
22 YOU WOULDN'T KNOW WHO GOT THE MATERIALS.

23 MS. LANSING: THAT'S WHAT I'M TALKING
24 ABOUT. AND IS THAT TRUE IN PRIVATE ONES THAT AREN'T
25 GOVERNMENT REGULATED? I GUESS IT WOULDN'T BE, WOULD

BARRISTERS' REPORTING SERVICE

1 IT?

2 DR. LOCKHART: I THINK THE SAME PRACTICE
3 GENERALLY HOLDS. IN MY LIMITED EXPERIENCE, RETURN
4 OF INDIVIDUAL RESEARCH RESULTS IS GENERALLY RARE
5 CURRENTLY. I THINK THERE IS GOING TO BE A GREATER
6 MOVEMENT TOWARDS THAT ESPECIALLY AS MORE AND MORE
7 DATA IS GENERATED. THERE ARE SOME LOGISTICAL
8 DIFFICULTIES I TALKED ABOUT SOMEWHAT. THE
9 INDIVIDUAL RESEARCHER PROBABLY DOES NOT HAVE THE
10 CODE, FOR THE MOST PART, IN TERMS OF IT'S POSSIBLE
11 TO LINK BACK TO THE PATIENT, BUT THE END RESEARCHER
12 USUALLY CAN'T. AND THERE'S A LOT OF SENSE IN HAVING
13 IT SET UP THAT WAY. WOULD YOU REALLY WANT
14 RESEARCHER X JUST CALLING PEOPLE UP?

15 MS. LANSING: NO, I WOULDN'T. THAT'S
16 ACTUALLY -- THESE ARE THE ISSUES THAT WE'RE GOING TO
17 GET INTO. AND I THINK WITHOUT -- I LISTENED
18 CAREFULLY TO WHAT YOU'RE SAYING, AND YOU WERE
19 TERRIFIC IN EXPLAINING IT ALL. AND THE COMBINATION
20 OF WHAT YOU WERE SAYING AND WHAT CHRIS SAID HAS GOT
21 MY MIND THINKING OF WAYS TO SOLVE SOME OF THESE
22 PROBLEMS.

23 DR. LOCKHART: I THINK THERE IS MOVEMENT
24 TOWARDS THINKING ABOUT HOW TO RETURN MORE RESULTS.
25 AND I THINK WE HAVE TO MAKE A DISTINCTION BETWEEN

BARRISTERS' REPORTING SERVICE

1 AGGREGATE AND INDIVIDUAL. THERE COULD BE A LOT OF
2 BENEFIT, AND I THINK A LOT OF THE RESEARCH
3 PARTICIPANTS WOULD BE HAPPY WITH RETURN OF AGGREGATE
4 RESULTS, THAT THEY KNEW THEIR SAMPLE WAS USED IN
5 THIS PAPER. AND MAYBE THEY CAN ACCESS A LAY SUMMARY
6 OF IT, AND THEY KNOW THAT THEIR DONATION BENEFITED
7 SCIENCE. SOME PEOPLE WILL BE HAPPY WITH THAT ALONE.
8 IT DEPENDS. IT DEPENDS WHETHER YOU'RE A HEALTHY
9 VOLUNTEER OR IF YOU ARE A PATIENT WITH A DISEASE.
10 IS IT A COMMON DISEASE? IS IT A RARE DISEASE? IS
11 IT A LETHAL DISEASE? THERE'S A LOT OF DIFFERENT
12 QUESTIONS HERE, AND I THINK THAT'S WHY GETTING
13 COMMUNITY MORE INVOLVED WILL HELP ANSWER SOME OF
14 THESE.

15 THERE ARE SOME ONGOING STUDIES. ONE OF
16 THEM IS AT THE NIH THROUGH THE NHGRI. LES BESEKER
17 IS DOING A VERY DETAILED SEQUENCE ANALYSIS. AND AS
18 PART OF HIS STUDY, HE'S RETURNING INDIVIDUAL
19 RESEARCH RESULTS. AND ONE OF HIS RESEARCH QUESTIONS
20 IS THE RETURN OF RESULTS, HOW PATIENTS FEEL ABOUT
21 IT, WHAT DO THEY WANT, HOW DO THEY PROCESS IT. AND
22 SO PEOPLE ARE STARTING TO TRY AND ADDRESS THIS.

23 MS. LANSING: WITHOUT GETTING INTO THE
24 DETAILS, BECAUSE I KNOW WE'RE GOING TO GO THROUGH,
25 PATIENTS CAN HAVE A CHOICE TOO, WHICH IS SOMETHING

BARRISTERS' REPORTING SERVICE

1 THAT I THINK WE HAVE TO TALK ABOUT HERE. YOU DON'T
2 HAVE TO GET THE RESULTS. YOU CAN GET THE RESULTS.
3 THEY CAN BE AGGREGATED. THEY CANNOT BE AGGREGATED.
4 THEY CAN MAKE DECISIONS.

5 CHAIRMAN LO: SHERRY, JUST TO FOLLOW UP ON
6 THAT, MOST WRITING ON THIS SUGGESTS THAT IT'S THE
7 OFFER TO RETURN THE INDIVIDUAL RESULTS TO THE
8 PATIENT THAT'S THE KEY QUESTION, OR THE DONOR CAN
9 CHOOSE EITHER TO SAY, YES, I WANT THEM OR, NO, THANK
10 YOU. I CHANGED MY MIND OR DECIDED NOT TO.

11 OTHER QUESTIONS?

12 DR. ROBERT TAYLOR: I JUST HAVE A QUICK
13 CLARIFICATION QUESTION. ON YOUR FOURTH SLIDE YOU
14 DESCRIBED THE REPRODUCTIVE USE OF MATERIALS. AS
15 KIND OF A REPRODUCTIVE MEDICINE PERSON, I'M
16 WONDERING ARE WE REALLY TALKING ABOUT PROLIFERATION
17 OR REPLICATION OR PROMULGATION OF THE SAMPLE, OR ARE
18 WE TALKING ABOUT REAL REPRODUCTION THE WAY I THINK
19 ABOUT IT?

20 DR. LOCKHART: I'M NOT ENOUGH OF AN EXPERT
21 TO ANSWER. I THINK I WOULD JUST SAY THAT WHATEVER
22 YOU'RE DOING IN THAT REALM, YOU NEED TO BE CLEAR
23 ABOUT BECAUSE THE PATIENT IS NOT GOING TO UNDERSTAND
24 THOSE DISTINCTIONS THAT YOU'RE MAKING OR HOW ANY OF
25 THOSE THINGS ARE DIFFERENT. SO IF YOU ARE USING

BARRISTERS' REPORTING SERVICE

1 SAMPLES IN ANY WAY RELATED TO REPRODUCTION, I THINK
2 THAT'S SOMETHING PEOPLE WOULD BE SENSITIVE ABOUT.
3 AND THEY'RE GOING TO START WORRYING ARE YOU CLONING
4 ME? THEY'RE GOING WORRY ABOUT THAT. SO WHATEVER
5 YOU'RE DOING WOULD NEED TO BE CLEAR BECAUSE IF YOU
6 JUST INCLUDE A PHRASE, AND WE MAY ALSO USE YOUR
7 SAMPLES FOR REPRODUCTIVE RESEARCH, I DON'T THINK
8 THAT WOULD BE ENOUGH. PEOPLE WOULD PANIC, THAT
9 YOU'RE EITHER DOING RESEARCH THAT'S RELATED TO
10 ABORTION OR RELATED TO CLONING.

11 OR MY LARGER POINT IS THAT THESE ARE SO --
12 THESE QUESTIONS ARE SO COMPLEX, AND I THINK THAT'S
13 SOMETHING MOST PEOPLE ARE VERY WORRIED ABOUT, THAT
14 IT JUST WOULD NEED TO BE CLEAR WHAT PRECISELY YOU
15 WERE PLANNING ON DOING AND HOW THAT WOULD BE
16 CONTROLLED. SO WE ARE GOING TO DO THIS TYPE OF
17 REPRODUCTIVE RESEARCH, BUT IT WILL NEVER BE CLONING.
18 IF THAT'S TRUE, THEN THAT WILL GIVE PATIENTS SOME
19 LEVEL OF COMFORT. I WOULD PRESUME IT IS, BUT
20 PATIENTS DON'T -- THEY DON'T KNOW. THEY'VE NEVER
21 DONE THIS BEFORE. I WILL JUST SAY THAT'S WHERE THIS
22 PROCESS THING REALLY COMES INTO PLAY.

23 MY HUSBAND AND I WERE RECENTLY RECRUITED
24 FOR A STUDY AT A VERY WELL-RESPECTED ACADEMIC
25 INSTITUTION. HE HAS A CHRONIC DISEASE. WE ARE

BARRISTERS' REPORTING SERVICE

1 VISITING A SPECIALIST. WE WERE APPROACHED FOR A
2 GENETIC STUDY, HIM AS AN AFFECTED INDIVIDUAL AND ME
3 AS A NONAFFECTED. THE CONSENT WAS PRESENTED
4 SIGNATURE SIDE UP FOR US TO JUST SIGN. AND MY
5 HUSBAND KNEW THE GENETICIST, WAS SUPER EXCITED
6 BECAUSE HE HAS A BACKGROUND IN GENETICS. SO HE WAS
7 TALKING TO THE CLINICAL NURSE ABOUT, OH, ARE THEY
8 STUDYING VARIANT X OR VARIANT Y? AND JUST VERY
9 EXCITED. DIDN'T READ THE CONSENT AT ALL, NOT AT
10 ALL.

11 HE JUST WAITED UNTIL I TOLD HIM ABOUT IT
12 LATER OVER LUNCH, THAT, OH, OUR SAMPLES ARE GOING TO
13 BE IN THIS BIOBANK THAT WE BOTH KNOW. THEY'RE GOING
14 TO BE USED FOR ALL KINDS OF BROAD FUTURE USES. OH,
15 AND THEY MAY MAKE CELL LINES. HE DIDN'T READ IT AT
16 ALL. IT WAS PRESENTED -- I COULDN'T BELIEVE IT WAS
17 PRESENTED SIGNATURE SIDE UP FOR US TO JUST SIGN.
18 WE'RE BOTH SCIENTISTS. WE WERE OKAY WITH IT, BUT I
19 CAN'T IMAGINE THAT THAT PROCESS IS OPTIMAL.

20 CHAIRMAN LO: OTHER QUESTIONS?

21 MS. ISASI: I JUST WANTED TO FOLLOW UP
22 QUICKLY ON ANN'S POINT ABOUT WHAT IT MEANS A
23 BIOBANK. AND THE SAME PROBLEM WE HAVE IN THE STEM
24 CELL BANKING CONTEXT. INTERNATIONAL STEM CELL
25 BANKING INITIATIVE IS TRYING TO NOT ONLY ADDRESS THE

BARRISTERS' REPORTING SERVICE

1 TERMINOLOGY, BUT WE HAVE BEEN TRYING TO IDENTIFY
2 WHAT, QUOTE, UNQUOTE, A STEM CELL BANK EXIST. AND
3 THE ISSUE OF INDIVIDUAL LABS CALLING THEMSELVES
4 REPOSITORIES AROUND THE WORLD IS PREVALENT.

5 DR. KIESSLING: I THINK WHAT'S IMPORTANT
6 TO RECOGNIZE HERE IS THAT THIS IS NOT GOING TO BE A
7 ONE SIZE FITS ALL. SO A BANK OF BLOOD CELL LINE
8 SAMPLES IS GOING TO BE TOTALLY DIFFERENT FROM A BANK
9 OF TISSUE SAMPLES. I DON'T THINK WE'RE GOING TO BE
10 ABLE TO COME UP WITH GUIDELINES FOR ALL OF THEM.

11 CHAIRMAN LO: AGAIN, HERE I THINK WE'RE
12 REALLY TALKING ABOUT AN IPS CELL BANK. WE'RE NOT
13 TALKING ABOUT THE REPOSITORIES OF THE CELLS WHICH
14 PEOPLE MIGHT USE TO DERIVE IPS CELLS. OUR JOB IS A
15 LITTLE BIT SIMPLER THAN JOBS THAT HUGE BIOBANKS FACE
16 THAT HAVE DIVERSE TYPES OF DEPOSITS IN THEM.

17 DR. ROBERT TAYLOR: FROZEN SPERM BANKS.

18 CHAIRMAN LO: PAT AND JEFF, DID YOU HAVE
19 YOUR HAND UP?

20 MR. SHEEHY: YOU ARE GOING TO TAKE TISSUE
21 SAMPLES. SO IT'S NOT JUST THE LINES. THAT CAME OUT
22 IN THE WORKSHOP. YOU ARE GOING NEED THE RESOURCE
23 TISSUE AS WELL.

24 CHAIRMAN LO: IN THE CIRM BANK. CIRM IS
25 GOING TO BANK TISSUES FROM WHICH YOU WILL DERIVE

BARRISTERS' REPORTING SERVICE

1 LINES?

2 (MULTIPLE RESPONSES OF YES.)

3 CHAIRMAN LO: LET ME JUST PURSUE THIS.

4 DR. FEIGAL: SO DOES NIH.

5 CHAIRMAN LO: BUT FOR CIRM, AGAIN, LET'S
6 FOCUS ON CIRM. SO IS CIRM GOING TO ALLOW
7 RESEARCHERS TO WITHDRAW SPECIMENS FOR NON-IPS
8 RELATED RESEARCH?

9 DR. KIESSLING: WE'RE GOING TO ANSWER
10 THAT, I THINK.

11 DR. FEIGAL: THAT'S PART OF THE
12 UTILIZATION ISSUE. WHAT'S THE PURPOSE OF THIS BANK,
13 THAT'S PART OF THE ISSUE.

14 CHAIRMAN LO: ALL RIGHT.

15 DR. OLSON: I WOULD JUST HIGHLIGHT ONE
16 OTHER POINT TO KEEP IN MIND. AS YOU HEARD FROM WHAT
17 OUR OBJECTIVES ARE WITH THE BANK, IT'S NOT JUST
18 FUTURE. IT'S ALSO FOR SAMPLES THAT HAVE BEEN
19 DERIVED BY RESEARCHERS. SO YOU HAVE TO CONSIDER THE
20 CIRCUMSTANCES UNDER WHICH -- THERE IS A PREEXISTING.
21 NOW, THERE OBVIOUSLY ARE CIRM GUIDELINES FOR
22 DERIVATION OF LINES AND PRESUMABLY THAT COVERS IT.
23 IT'S BOTH FUTURE AND PAST.

24 CHAIRMAN LO: GREAT.

25 DR. PATRICK TAYLOR: SO WE ALL START WITH

BARRISTERS' REPORTING SERVICE

1 SIMPLICITY AND WE ALL CARE A LOT. AND THEN WE ALL
2 END UP EMBRACING COMPLEXITY. I'M THINKING VERY MUCH
3 OF THE OBSTACLES FACED BY DONORS AS WERE SO WELL
4 ARTICULATED THIS MORNING. SO WHAT DO YOU THINK WE
5 SHOULD DO TO BALANCE WHAT LOOKED LIKE VERY MUCH
6 COMPETING PRACTICAL CONCERNS AT THE IMPLEMENTATION
7 LEVEL WHEN WE CARE SO MUCH ABOUT TRYING TO DO THINGS
8 RIGHT BY EACH DONOR AND IN THE PROCESS CREATE A
9 SYSTEM OF SUCH PROLIXITY THAT IT BECOMES QUITE
10 CONTINGENT FOR SCIENTIFIC RESEARCHERS AND
11 POTENTIALLY QUITE BURDENSOME. NOT ONLY MANY
12 FACTORIAL, BUT WITH NO STANDARDS AS TO HOW TO
13 ACTUALLY ADDRESS AND WEIGH COMPETING CONCERNS. I
14 THINK THAT'S WHY STILL 200 YEARS, 100 YEARS AFTER
15 PEOPLE STARTED DOING SOME OF THESE THINGS WE'RE
16 STILL TALKING ABOUT CONSENT.

17 SO WHAT ARE YOUR OWN THOUGHTS ABOUT THAT?
18 HAVING HEARD A REALLY BRILLIANT ARTICULATION OF MANY
19 OF THESE CONCERNS, I'M LEFT WONDERING, OKAY, IF WE
20 PAY ATTENTION TO ALL OF THEM, WE'LL BE DOING
21 SOMETHING THAT EMBRACES A DILEMMA. SO WHAT ARE YOUR
22 THOUGHTS ABOUT DOING THE WHOLE THING RIGHT?

23 CHAIRMAN LO: RECOGNIZING YOU'RE NOT
24 SPEAKING FOR NCI, NIH, OR ANY PART OF THE FEDERAL
25 GOVERNMENT.

BARRISTERS' REPORTING SERVICE

1 DR. PATRICK TAYLOR: I'M NOT SHIFTING THE
2 PROBLEM TO YOU, ALTHOUGH THAT WOULD BE DELIGHTFUL.
3 IT'S REALLY HEARING SOME REAL THOUGHTS ABOUT HOW TO
4 GRAPPLE WITH THAT FUNDAMENTAL QUESTION.

5 DR. LOCKHART: I THINK MY ANSWER TO THAT
6 WOULD BE TO TRY AND ASSESS, THROUGH WHATEVER WAYS
7 YOU CAN, WHAT THE PARTICIPANTS REALLY WANT AND HONOR
8 WHAT THEY WANT. SO FOR CIRM, IF YOU'RE PLANNING TO
9 TARGET DEVELOPMENT OF IPS CELL LINES IN PARTICULAR
10 DISEASE AREAS, THAT'S A BIT MORE CONFINED. YOU
11 MIGHT BE ABLE TO WORK WITH THOSE ADVOCACY GROUPS,
12 FIGURE OUT WHAT THEY MAY WANT IN TERMS OF CONSENT,
13 WHAT THEY'RE COMFORTABLE WITH. DO THEY WANT
14 RESULTS?

15 IF YOU CAN, YOU CAN THINK ABOUT PROVIDING
16 CHOICES. I JUST -- I THINK YOU NEED TO MAKE SURE
17 THOSE CHOICES ARE REAL, THAT YOU CAN DO WHATEVER YOU
18 TELL PEOPLE YOU CAN DO. AND THAT YOU ARE FULLY
19 PREPARED TO HONOR THEM, WHATEVER PROMISES YOU MAKE.
20 SO IF YOU SAY YOU'RE GOING TO RETURN ALL INDIVIDUAL
21 RESEARCH RESULTS, YOU NEED TO BE ABLE TO DO THAT,
22 AND YOU NEED TO MAKE SURE THAT PEOPLE ARE IN
23 AGREEMENT WITH THAT AND SIGNED UP FOR THAT.

24 CHRIS IS A VERY, VERY EDUCATED PATIENT
25 ADVOCATE. NOT EVERYBODY CAN HANDLE INFORMATION THAT

BARRISTERS' REPORTING SERVICE

1 SHE'S VERY COMFORTABLE HANDLING. SOME PEOPLE MAY
2 NEED A GENETIC COUNSELOR TO HELP THEM WADE THROUGH
3 REAMS OF INFORMATION. SO IF YOU ARE PROMISING TO
4 RETURN THINGS, YOU NEED TO MAKE SURE IT'S DONE
5 RESPONSIBLY. BUT I THINK TRYING TO WORK WITH YOUR
6 PATIENT GROUPS WOULD BE IDEAL.

7 DR. PATRICK TAYLOR: SO THERE'S TWO
8 DIFFERENT THINGS. ONE IS MAKING SURE WHEN YOU MAKE
9 A PROMISE, YOU KEEP IT. THE OTHER IS MAKING SURE
10 THE CHOICES YOU ACTUALLY OFFER PEOPLE ARE ETHICAL
11 CHOICES AND TAKING INTO ACCOUNT SOME OF THE FACTORS
12 THAT PEOPLE HAVE REFERRED TO, INCLUDING ACTUAL
13 FEASIBILITY.

14 IT DOES STRIKE ME THAT WE TALK ABOUT
15 CONSENT AS A PROCESS, BUT WE OFTEN TREAT THE CONSENT
16 DEMANDS, QUOTE, UNQUOTE, AS STATIC. IT'S NOT
17 DYNAMIC, NOT SOMETHING THAT COULD CHANGE THROUGH A
18 PROCESS OF CONVERSATION AS IF WHEN WE TALK ABOUT
19 MEETING PATIENT OR DONOR DEMANDS, I'VE BEEN BOTH
20 MYSELF, IT'S SOMEHOW AS A GIVEN THAT WE TAKE AS
21 UNCHANGEABLE THROUGH THE PROCESS OF DIALOGUE. IT
22 MAKES ME WONDER WHETHER IF WE LISTEN MORE CAREFULLY
23 TO KIND OF THE INCLUSION THAT WE'RE TALKING ABOUT,
24 WE MIGHT ACTUALLY END UP WITH MORE REALISTIC AND
25 POSSIBLE CONSENT APPROACHES THAT REFLECT MUTUAL

BARRISTERS' REPORTING SERVICE

1 ADJUSTMENT RATHER THAN A STATIC SET OF DEMANDS.

2 CHAIRMAN LO: I'M GOING TO GIVE SHERRY THE
3 LAST COMMENT, AND THEN I WANT TO PUSH ON TO OUR FOUR
4 SPECIFIC TOPICS BECAUSE I THINK THAT'S WHERE IT'S
5 GOING TO GET REALLY -- WHERE THE RUBBER IS GOING TO
6 HIT THE ROAD.

7 MS. LANSING: I THINK THE RUBBER IS GOING
8 TO HIT THE ROAD THERE, BUT I GUESS I CAN'T HELP BUT
9 RESPOND TO YOUR QUESTION. AND TO ME I THINK THIS IS
10 ALL ABOUT THE PATIENT. OFTEN WHAT WE'RE DOING IS
11 ALL ABOUT THE SCIENTISTS, BUT TO ME THIS IS ALL
12 ABOUT THE PATIENT. AND I THINK WE'RE SO FORTUNATE
13 TO HAVE A HIGHLY INTELLIGENT AND ENGAGED PATIENT
14 ADVOCATE, AND I DO KNOW THAT NOT EVERYBODY WHO'S
15 FACING DECISIONS IS THE SAME. BUT TO ME I THINK
16 THAT WE WOULD BE ABLE TO COME UP WITH A LIST OF
17 CHOICES FOR A PATIENT TO MAKE A DECISION ABOUT DO
18 YOU WANT IT ANONYMIZED? DO YOU NOT WANT IT
19 ANONYMIZED? DO YOU WANT THE RESULTS? DO YOU NOT
20 WANT THE RESULTS? DO YOU WANT IT TO BE USED JUST
21 SPECIFICALLY FOR THIS DISEASE? DON'T YOU WANT IT TO
22 BE USED SPECIFICALLY FOR THIS DISEASE?

23 AND I THINK THAT WITH INFORMED CONSENT IT
24 IS POSSIBLE TO HAVE A MENU THAT ALLOWS THE PATIENT
25 TO PARTICIPATE IN A VERY PERSONAL WAY IN WHAT

BARRISTERS' REPORTING SERVICE

1 INFORMATION THEY WANT. AND I'M AFRAID OF MAKING IT
2 ADVOCACY GROUPS BECAUSE THAT'S ASSUMING EVERYBODY IN
3 AN ADVOCACY GROUP FEELS THE SAME AND THEY DON'T. I
4 REALLY THINK THIS IS LIKE A MENU OF CHOICES THAT
5 PEOPLE HAVE. AND THE THING THAT I THINK THAT YOU
6 SAID, WHICH WAS SO BRILLIANT, WHICH I'VE NEVER
7 THOUGHT ABOUT, WAS, OKAY, YOU CHECK OFF THE BOX AND
8 THAT'S IT.

9 BUT WHAT I THINK IS ALSO PART OF THIS IS
10 THAT THIS IS A PROCESS FIVE YEARS FROM NOW OR
11 TOMORROW YOU HAVE THE RIGHT TO SAY I CHANGE MY MIND.
12 I DO WANT THE INFORMATION OR I CHANGE MY MIND I
13 DON'T WANT THE INFORMATION.

14 AND I THINK IT'S ALL LEADING TO THIS
15 PERSONALIZED MEDICINE THAT IS SO TALKED ABOUT IN ALL
16 THE DISEASES AND GIVING PEOPLE THE RIGHT TO HAVE THE
17 INFORMATION THAT THEY DO OR DON'T WANT. AND THERE
18 ARE MANY PEOPLE THAT WON'T WANT IT. GIVING THE
19 CELL, GIVING THEM THE RIGHT TO DECIDE WHERE IT WILL
20 BE USED. I THINK WE CAN DEVISE A MENU, AND I THINK
21 THAT'S WHAT OUR RECOMMENDATIONS SHOULD DEAL WITH IS
22 WHAT KIND OF MENU IT SHOULD BE.

23 DR. LOCKHART: I WOULD SAY THAT'S
24 CERTAINLY AN APPROACH, AND IT WILL HAVE A LOT OF
25 BENEFIT TO PATIENTS IF YOU CAN ALLOW THEM TO HAVE

BARRISTERS' REPORTING SERVICE

1 THAT CHOICE. I WOULD JUST THINK THROUGH THE
2 OPERATIONAL AND LOGISTIC CONSEQUENCES OF HAVING
3 THOSE MENUS AND BEING ABLE TO MAKE SURE YOU CAN
4 HONOR ALL THOSE CHOICES. EVEN THINGS ABOUT
5 STATISTICAL POWER. IF YOU HAVE ALL THESE DIFFERENT
6 MENUS, AND THEN DO YOU NOT HAVE ENOUGH SAMPLES YOU
7 CAN MAKE CELL LINES OUT OF, OR IS IT VERY, VERY
8 DIFFICULT FOR THE BANK TO FIGURE OUT WHAT SAMPLES
9 THEY CAN GIVE TO WHICH RESEARCHER BECAUSE THERE'S
10 ALL THESE CHOICES. I THINK IT CAN CERTAINLY BE
11 DONE. I JUST THINK YOU NEED TO THINK THROUGH BOTH
12 HOW YOU'RE GOING TO IMPLEMENT IT AND THEN --

13 MS. LANSING: THIS IS WHAT WE'RE GOING TO
14 TALK ABOUT, BUT THERE'S A MINIMUM LEVEL WHICH YOU
15 START. AND I THINK WE'VE ESTABLISHED THAT. NOW THE
16 QUESTION IS WE KNOW THAT THE MINIMUM LEVEL IS, YES,
17 IT CAN BE USED FOR THIS AND IT CAN'T BE USED FOR
18 THAT, AND WE KNOW THAT BECAUSE THAT'S THE GOVERNMENT
19 GUIDELINES. NOW THE QUESTION IS CAN IT BE USED FOR
20 MORE THAN THAT, AND WHAT IS THE PATIENT'S RIGHT TO
21 GET INFORMATION? THAT'S REALLY TO ME WHAT THE ISSUE
22 SEEMS TO BE.

23 DR. LOCKHART: AND I WOULD ALSO SAY IF
24 CIRM STARTS STRIKING NEW GROUND IN THIS AREA, I
25 WOULD REALLY ADVOCATE TRYING TO STUDY THAT PROCESS.

BARRISTERS' REPORTING SERVICE

1 I THINK THAT WILL BE REALLY USEFUL IS WHEN YOU MAKE
2 THESE STRIDES TO TRY AND INCLUDE PATIENTS AND
3 RESPECT THEIR CHOICES, DOES IT WORK OUT HOW YOU
4 THOUGHT IT WOULD? ARE THE PATIENTS HAPPY WITH THE
5 CHOICE THEY MADE? DID THEY UNDERSTAND WHEN THEY
6 MADE THAT CHOICE WHAT IT WOULD ENTAIL OR WHAT THEY
7 WOULD RECEIVE? A LOT OF THIS IS NEW GROUND, AND I
8 THINK KIND AS YOU MOVE FORWARD, THAT WILL BE A VERY
9 USEFUL EXERCISE SO THAT YOU CAN IMPROVE YOUR
10 PRACTICES AND ALSO LET OTHERS IN THE COMMUNITY KNOW
11 THIS REALLY WORKED, THIS DIDN'T.

12 MS. LANSING: AND BE FLEXIBLE IN YOUR
13 PRACTICES AS WELL.

14 CHAIRMAN LO: OKAY. WITH THAT, THANKS
15 VERY MUCH, NICOLE. WE REALLY APPRECIATE YOU'RE
16 HELPING US. GEOFF IS NOW GOING TO SORT OF GET US TO
17 THE TREADMILL HERE AND REALLY HIT THE SPECIFIC
18 ISSUES, STARTING WITH CONSENT.

19 DR. LOMAX: I'D REALLY LIKE TO REACH BACK
20 FIVE MINUTES IN THE CONVERSATION TO THE POINT PAT
21 OLSON JUST MADE ABOUT WE ACTUALLY DO HAVE STOCKS OF
22 MATERIALS THAT WE'RE DEALING WITH. AND SO LET ME
23 JUST GO BACK ONE SLIDE. I'VE TRIED TO SORT OF
24 SIMPLIFY, BUT GET A LITTLE MORE SPECIFIC. THIS IS
25 SPECIFICALLY ON THE RANGE OF CONSENTS FOR CELLS AND

BARRISTERS' REPORTING SERVICE

1 TISSUES WHICH WE KNOW ARE OUT THERE. AND I'VE TRIED
2 TO COME UP WITH SORT OF THREE SUBJECTIVE CATEGORIES.
3 ONE I'M CALLING -- ONE I'M SORT OF INDICATING
4 THERE'S OPTIMAL CONSENT. BY OPTIMAL IT MEANS THAT
5 THESE WOULD BE PROSPECTIVE COLLECTIONS FOR WHICH YOU
6 KNOW YOU'RE COLLECTING MATERIALS INTENDED TO GO INTO
7 THE FUTURE BANK.

8 SO, FOR EXAMPLE, IN SOHEL'S SLIDE, THE
9 EXAMPLE OF MAYBE A CASE CONTROL STUDY WHERE YOU'RE
10 WORKING WITH A DISEASE POPULATION. THAT'S A
11 FAIRLY -- AT LEAST A CASE CONTROL COLLECTION WHERE
12 YOU'RE WORKING WITH A PARTICULAR DISEASE. YOU CAN
13 REALLY GO, I THINK, IN AT THAT POINT AND REALLY GET
14 OPTIMAL CONSENT. I THINK THAT'S SORT OF THE LEAST
15 SORT OF CHALLENGING AREA FROM A PERSPECTIVE OF HOW
16 DO WE MOVE FORWARD BECAUSE THERE'S A FAIRLY CLEAR
17 PATHWAY THERE.

18 IN ADDITION, I THINK WHERE A LOT OF
19 MATERIALS EXIST NOW THAT ARE SORT OF RELEVANT TO
20 WHAT ELLEN DESCRIBED IN TERMS OF THE UPCOMING CIRM
21 COLLABORATION, WE HAVE VERY COMPREHENSIVE CONSENT
22 THAT'S CONSISTENT WITH OUR EXISTING REGULATIONS,
23 WHICH WE HAVE A VERY COMPREHENSIVE SET OF PROCEDURES
24 FOR COLLECTING THOSE MATERIALS. I WOULD LIKE TO
25 CLASSIFY THAT CONSENT AS VERY THOROUGH, BUT IT MAY

BARRISTERS' REPORTING SERVICE

1 NOT HAVE EVERY POSSIBLE USE. AND WHETHER THAT'S A
2 PROBLEM OR NOT I DON'T KNOW, BUT I'D LIKE TO PUT IT
3 IN THIS CATEGORY OF COMPREHENSIVE. I THINK AS AN
4 INSTITUTE WE'VE MADE SURE AND FOLLOWED UP THAT
5 MATERIALS ARE AT THAT LEVEL.

6 THEN I THINK I WOULD IMAGINE THIS IS
7 PROBABLY MORE THE EXCEPTIONAL CATEGORY. SO THE
8 CATEGORY THAT THERE MAY BE SOME NEED FOR, BUT
9 WOULDN'T BE SORT OF PREDOMINANT MATERIALS IN THE
10 BANK OR CELLS WHERE THERE MIGHT BE LIMITED CONSENT,
11 OR AS WE HEARD IN A PREVIOUS PRESENTATION, JUST
12 MATERIALS THAT COME THROUGH PATHWAYS WHERE YOU JUST
13 DON'T REALLY NECESSARILY GET CONSENT, FOR EXAMPLE,
14 MEDICAL WASTE, BUT THEY MAY HAVE EXTRAORDINARY
15 SCIENTIFIC SIGNIFICANCE AT LEAST AS A CONTROL
16 SAMPLE, OR HISTORICALLY THEY'VE JUST BEEN IN SCIENCE
17 SO LONG, THE WEALTH OF INFORMATION WHICH YOU DON'T
18 WANT TO TAKE OFF THE TABLE IF YOU'RE STUDYING A
19 PARTICULAR DISEASE.

20 AND WE WANTED TO EMPHASIZE THAT OUR
21 REGULATIONS DO AUTHORIZE THE USE OF SORT OF
22 ANONYMIZED CELLS THAT DON'T HAVE CONSENT. THE WAY
23 WE SET IT UP, AND, AGAIN, THIS GOES BACK TO BERNIE'S
24 POINT ABOUT TRYING TO RAISE THE BAR WHERE WE
25 TOUCH -- WHERE OUR FUNDS TOUCH THINGS VERSUS

BARRISTERS' REPORTING SERVICE

1 SUPPORTING THE SCIENCES. WE SAY IF YOU'RE DOING
2 THOSE COLLECTIONS UNDER A CIRM PROTOCOL WITH CIRM
3 FUNDING, YOU HAVE TO GET CONSENT, AND THIS IS SORT
4 OF THE LEVEL YOU NEED TO BE AT, BUT WE'RE NOT GOING
5 TO EXCLUDE THE USE OF MATERIALS THAT HAVE COME
6 THROUGH THESE OTHER PATHWAYS.

7 AND I THINK THAT'S THE BALANCE WE STRUCK
8 IN TERMS OF TRYING TO ACHIEVE A CERTAIN LEVEL WITH
9 OUR FUNDING, BUT NOT EXCLUDING MATERIALS FROM THE
10 RESEARCH STREAM. SO WITH THAT SAID, I'VE TRIED
11 TO -- I THINK IT WOULD BE PRODUCTIVE TO SORT OF
12 THINK THROUGH SOME OF THESE CATEGORIES AND SORT OF
13 USING KIND OF THE STOPLIGHT ANALOGY WHERE I THINK IT
14 WOULD BE KIND OF SMOOTH SAILING WITH FUTURE
15 COLLECTIONS. OUR COMPREHENSIVE CELLS THAT WE'RE
16 POTENTIALLY GOING TO BE SHIPPING OVER TO THIS
17 REPOSITORY IN THE NEAR FUTURE ARE PROBABLY ON SOLID
18 GROUND, BUT ARE THERE THINGS WE NEED TO THINK ABOUT.

19 AND, AGAIN, THE SORT OF MATERIALS THAT
20 COME OUT WITH MORE LIMITED CONSENT AND DISCLOSURE,
21 AGAIN, HOW DO WE WANT TO THINK ABOUT THOSE
22 MATERIALS? UNDER WHAT CONDITIONS WOULD WE BE
23 COMFORTABLE WITH THEM BEING SORT OF INCORPORATED
24 INTO SOME SORT OF CIRM-FUNDED REPOSITORY OR
25 DISTRIBUTION INITIATIVE?

BARRISTERS' REPORTING SERVICE

1 I THINK THAT WAS THE -- AGAIN, THIS IS
2 USING THE SAME SORT OF COLOR CODING. TRIED TO SORT
3 OF, AGAIN, EMPHASIZE THE STATUS OF THE MATERIALS,
4 SOME OF THE ETHICAL CONSIDERATIONS, AND THEN
5 THINKING ABOUT THE POLICY RECOMMENDATIONS. SO I
6 HOPE THAT'S A HELPFUL FRAMEWORK FOR MOVING THE
7 CONSENT DISCUSSION IN A MANNER THAT I THINK IS MOST
8 APPLICABLE TO THE CIRM SITUATION AND OBVIOUSLY THERE
9 COULD BE THINGS MISSING AS WELL.

10 CHAIRMAN LO: SO I WOULD SUGGEST, BECAUSE
11 THIS IS AN IMPORTANT AND COMPLICATED TOPIC, WE SORT
12 OF TRY AND TAKE IT IN CHUNKS OR PIECES. LET'S
13 ASSUME FOR THE MOMENT -- LET'S FIRST DECIDE DO WE
14 WANT TO FOLLOW GEOFF'S, MAYBE YOU COULD BACK UP ONE
15 SLIDE ON THIS, THREE DIFFERENT SITUATIONS OF
16 CONSENT. FIRST IS WHERE YOU'RE HAVING A NEW
17 COLLECTION OF MATERIALS SPECIFICALLY PLANNING TO
18 DERIVE AN IPSC LINE. AND SO YOU HAVE AN
19 OPPORTUNITY -- ACTUALLY YOU HAVE TO INTERACT WITH
20 THE DONOR TO GET THE SAMPLE AND HAVE AN OPPORTUNITY
21 TO TALK WITH THEM AS ONE SITUATION AND THEN THE
22 OTHER TWO.

23 AND MAYBE WE SHOULD TAKE THEM ONE AT A
24 TIME. I WOULD SUGGEST WE TALK ABOUT THE GREEN LEVEL
25 FIRST JUST SO WE CAN SAY IF WE COULD DO IT IN THE

BARRISTERS' REPORTING SERVICE

1 BEST WAY WE COULD, BECAUSE WE'VE IDENTIFIED THE
2 DONOR OR PATIENT, WE HAVE A CHANCE TO TALK TO THEM
3 BEFORE WE GET THAT SKIN BIOPSY, WHAT WOULD THAT
4 CONSENT PROCESS LOOK LIKE? AND THEN THE OTHER TWO
5 WE MAY NOT BE ABLE TO DO EVERYTHING WE WOULD WANT IN
6 THE GREEN SITUATION.

7 SO NOW, GEOFF, YOU CAN GO TO THE NEXT
8 SLIDE. AS I LOOK ACROSS THE TOP LINE, THE GREEN
9 LINE, SO WE CERTAINLY HAVE AN OPPORTUNITY TO TALK TO
10 THEM ABOUT WHAT BIOBANKING IS ALL ABOUT, WHAT IPS
11 DERIVATION IS ABOUT. WE HAVE A CHANCE TO TALK TO
12 THEM ABOUT THINGS THAT WE CAN EXPECT RESEARCHERS TO
13 DO, WHICH MAY NOT BE SOMETHING THAT A LOT OF PEOPLE
14 UNDERSTAND, SOME PEOPLE MAY NOT UNDERSTAND AND MAY
15 HAVE QUESTIONS, SUCH AS, FOR EXAMPLE, WHOLE GENOME
16 SEQUENCING. THAT'S SORT OF ONE SET OF ISSUES.

17 AND THEN WE ALSO HAVE THE OPPORTUNITY TO
18 ASK THEM A SERIES OF OTHER QUESTIONS LIKE IF IN THE
19 FUTURE SOMETHING COMES UP THAT WE HAVEN'T COVERED
20 BUT SEEMS REALLY CONTROVERSIAL AND DIFFICULT, DO WE
21 HAVE YOUR PERMISSION TO GET BACK TO TALK TO YOU
22 AGAIN. WE CAN ALSO THERE, FOLLOWING SHERRY'S
23 SUGGESTION, ASK QUESTIONS ABOUT PREFERENCES FOR
24 RETURN OF RESULTS, BUT WE SHOULD DEFER THAT TILL WE
25 DECIDE LATER ON TODAY.

BARRISTERS' REPORTING SERVICE

1 WHY DON'T WE START WITH THE GREEN LEVEL.
2 AND JUST WHAT DO PEOPLE THINK SHOULD BE IN THE
3 OPTIMAL CONSENT PROCESS WHERE THE DONOR'S SITTING
4 RIGHT IN FRONT OF US AND WE CAN TALK?

5 DR. FEIGAL: I DO THINK YOU NEED TO
6 DEFINE, EVEN THOUGH WE HAVE THOUGHTS ABOUT WHAT'S A
7 BIOBANK, WE NEED TO HAVE SOME DEFINITION. ARE WE
8 TALKING ABOUT A RESOURCE THAT'S GOING TO BE MADE
9 PUBLICLY AVAILABLE? ARE WE TALKING ABOUT SOMEBODY
10 SITTING IN A LAB? I THINK IT WOULD BE HELPFUL TO
11 GET SOME SENSE OF THAT.

12 CHAIRMAN LO: I WAS TRYING TO ADDRESS WHAT
13 I TOOK TO BE THE CHARGE FROM CIRM LEADERSHIP, WHICH
14 IS IN THE CIRM PROPOSAL FOR AN IPSC BIOBANK --

15 DR. FEIGAL: SO A PUBLICLY AVAILABLE
16 RESOURCE.

17 CHAIRMAN LO: GOD BLESS NIH, BUT WE'RE NOT
18 GOING TO SOLVE THEIR PROBLEMS TODAY.

19 DR. FEIGAL: I ALSO WANTED TO GET AROUND
20 SORT OF THE AD HOC THE RESEARCHER MAY BE DERIVING
21 THINGS.

22 CHAIRMAN LO: NO. THIS IS SOMETHING THAT
23 CIRM IS GOING TO BE FUNDING AND HAVING A BIG SAY.

24 DR. ROBERT TAYLOR: AND THIS IS PAST
25 TISSUE?

BARRISTERS' REPORTING SERVICE

1 CHAIRMAN LO: RIGHT NOW THE GREEN LINE IS
2 NEW TISSUE GOING FORWARD. THE OTHER TWO ARE THE
3 PREVIOUS TISSUE.

4 DR. ROBERT TAYLOR: I GUESS WHAT I'M
5 WONDERING IS WE CAN KIND OF INTELLECTUALLY THINK
6 ABOUT IT AS AN IPS BANK THAT DOESN'T STORE FRAGMENTS
7 OF SOMEBODY'S SKIN AND DOESN'T STORE -- IT'S ALL
8 KINDS OF POST FACTO ONCE THESE CELLS HAVE BEEN
9 GENERATED.

10 CHAIRMAN LO: NO. I STAND CORRECTED.

11 DR. ROBERT TAYLOR: YOU GUYS HAVE A BIGGER
12 VIEW THAN THAT. IT REALLY GETS INTO TISSUE BANKING
13 IN GENERAL.

14 CHAIRMAN LO: WELL, MY UNDERSTANDING --
15 THIS IS IMPORTANT TO BE CLEAR ON. IT'S TISSUE
16 BANKING SO THAT WE CAN GO BACK AND REDERIVE IPSC
17 LINES IF WE NEED TO. IT'S NOT NECESSARILY TISSUE
18 BANKING FOR A CANCER RESEARCHER TO SAY, HEY, I'VE
19 GOT THIS NEAT STUDY.

20 DR. ROBERT TAYLOR: IS THAT FOR SURE? IT
21 SOUNDS TO ME LIKE IT IS A TISSUE BANK, A TISSUE BANK
22 YOU CAN GO BACK TO FOR ANYTHING YOU WANTED TO DO
23 WITH TISSUE. AND IT WOULD BE NAIVE TO SORT OF THINK
24 LESS OF IT THAN THAT, I THINK.

25 DR. OLSON: I BELIEVE THE IDEA WOULD BE IT

BARRISTERS' REPORTING SERVICE

1 IS AN IPS BIOBANK WHICH WOULD INCLUDE THE TISSUE OF
2 ORIGIN FOR THE IPSC LINE, AND THEY WOULD BE LIMITED
3 PRESUMABLY TO THAT. I DON'T KNOW THAT WE'VE GOTTEN
4 INTO BLOOD SAMPLES. I DON'T THINK SO.

5 CHAIRMAN LO: YOU MAY BE ABLE TO DERIVE
6 IPS CELLS FROM BLOOD. I THINK LET'S TRY AND FOCUS
7 ON SOMETHING THAT LOOKS LIKE WHAT CIRM IS REALLY
8 INTERESTED IN. IF WE CAN'T SOLVE THAT, THEN IT DOES
9 NO GOOD TO TALK ABOUT ALL THESE OTHER THINGS. LET'S
10 TRY AND DO THAT AND SEE WHERE WE ARE.

11 MR. SHEEHY: I JUST HAD A QUESTION. SO
12 THIS ONLY APPLIES TO THIS BANKING PROPOSAL? WHAT IF
13 WE HAD PEOPLE CREATING LINES THROUGH RESEARCH? AND
14 PRESUMABLY ONE ASPECT OF THIS BANKING PLAN IS TO BE
15 KIND OF A BRING ALL OF OUR DIFFERENT CREATED LINES
16 TOGETHER. SO REALLY, YOU KNOW, I KNOW YOU WANT TO
17 MINIMIZE THE SCOPE TO THIS ONE SINGLE USE TO CREATE
18 A BANK, BUT ACTUALLY THIS WILL -- AND CERTAINLY IT
19 DOESN'T MAKE ANY SENSE TO SAY IF YOU CREATE A LINE
20 FOR OUR BANK, WE HAVE THESE RULES. BUT IF YOU
21 CREATE A LINE FOR RESEARCH, WE HAVE A DIFFERENT SET
22 OF RULES USING OUR MONEY.

23 AND I THINK AT THE END OF THE DAY, ALL
24 THESE ARE GOING TO BE PART OF ONE COLLECTIVE GROUP.
25 AS I READ THE PROPOSAL, PART OF IT IS SPECIFIC

BARRISTERS' REPORTING SERVICE

1 BANKING INITIATIVES AND THE OTHER, WHICH CAME OUT IN
2 THE WORKSHOP, IS TO COLLECT ALL THESE TOGETHER.

3 I DO THINK THE SOURCE TISSUE IS NOT A
4 SMALL PIECE OF THIS. PEOPLE WILL WANT TO DO STUFF
5 WITH THE SOURCE TISSUE, AND YOU HAVE TO BANK THE
6 SOURCE TISSUE BECAUSE THE LINES ARE NOT IMMORTAL.

7 CHAIRMAN LO: SO LET ME TRY --

8 MR. SHEEHY: I HATE TO MAKE IT MORE
9 COMPLICATED.

10 CHAIRMAN LO: LET'S TRY AND SOLVE A
11 SIMPLER PROBLEM FIRST, AND THEN WE CAN GET MORE
12 COMPLICATED. AND THE SIMPLE PROBLEM, THE FIRST
13 SIMPLE PROBLEM IS IF CIRM IS GOING TO PUT FORTH A
14 PROPOSAL TO ESTABLISH AN IPSC BIOBANK, INCLUDING
15 ORIGINAL SOMATIC CELL MATERIALS TO REDERIVE LINES,
16 IF NEED BE, WHAT WOULD WE SAY ABOUT -- AND WE'RE
17 GOING TO HAVE NEW MATERIALS COLLECTED FOR THAT
18 PURPOSE GOING TO THE BANK. WHAT WOULD WE WANT THE
19 CONSENT PROCESS TO LOOK LIKE? THAT'S, I TAKE IT,
20 GEOFF'S GREEN LINE.

21 THE YELLOW THING, GEOFF, IS YOUR SECOND
22 THING IS THERE ARE LINES THAT, FOR EXAMPLE, CIRM
23 RESEARCHERS HAVE ALREADY DERIVED WITH WHAT THE
24 STANDARDS WERE WHEN THEY DERIVED THE LINES. AND DO
25 WE HAVE ANY CONCERNS ABOUT THE FACT THAT THEY DIDN'T

BARRISTERS' REPORTING SERVICE

1 MENTION A BIOBANK, FOR EXAMPLE, IN THE ORIGINAL
2 CONSENT? DO WE HAVE ANY CONCERNS THEY DIDN'T
3 MENTION SOME DOWNSTREAM USES OF IPSC'S OR GENOMIC
4 SEQUENCING? SO THAT'S THE CONSENT WAS DONE IN THE
5 PAST, WE MAY NOT BE ABLE TO RECONTACT THE DONOR, THE
6 LINE IS ALREADY THERE, AND WE'D LIKE TO INCLUDE THEM
7 IN THE BANK, AND MAYBE SOME OF THE ORIGINAL TISSUE
8 IF THAT'S LYING AROUND.

9 DR. FEIGAL: I THINK THAT WILL GET AT
10 JEFF'S QUESTION.

11 CHAIRMAN LO: THAT WILL GET AT JEFF'S
12 QUESTION.

13 AND THE THIRD, I THINK, ARE LINES THAT,
14 AGAIN, ARE ALREADY IN EXISTENCE OR MAYBE WERE FUNDED
15 BY SOME OTHER MECHANISM, NEW LINES, WHERE THERE MAY
16 NOT HAVE BEEN ANY CONSENT AT ALL. FOR EXAMPLE, THEY
17 MAY HAVE BEEN DERIVED UNDER THE FEDERAL EXCEPTION
18 FOR DEIDENTIFIED MATERIALS NOT BEING RESEARCH, THAT
19 THEY JUST TOOK SAMPLES, DEIDENTIFIED THE EXISTING
20 LEFT-OVER CLINICAL SPECIMENS, DEIDENTIFIED THEM AND
21 SAID, HEY, WE CAN DERIVE. SO I JUST WANT TO TRY NOT
22 DO EVERYTHING AT ONCE BECAUSE I THINK THAT'S TOO
23 COMPLICATED. MY SENSE IS IT GETS MORE COMPLICATED
24 AS WE GO FROM GREEN TO YELLOW TO PINK.

25 DR. PATRICK TAYLOR: THIS IS INTENDED AS A

BARRISTERS' REPORTING SERVICE

1 HELPFUL QUESTION, AND ACTUALLY HOPEFULLY TO SUGGEST
2 THAT MAYBE, DESPITE THAT TREND, IN ONE WAY IT MIGHT
3 BE LESS COMPLICATED. IS IT ACCURATE THAT FOR THE
4 PINK AND THE YELLOW WE'RE NOT TALKING ABOUT
5 ASSOCIATED CLINICAL DATA TO THAT SAME DEGREE THAT
6 GREEN MAY INVOLVE? SO THAT THE PINK MAY REALLY JUST
7 BE SPECIMENS AND NOT IDENTIFIABLE TO PATIENT
8 INFORMATION IN ANY FORM. THOROUGHLY IDENTIFIED,
9 DEIDENTIFIED EXCEPT THEY SAID DNA WAS THE
10 IDENTIFIER. SAME PERHAPS FOR THE YELLOW.

11 DR. LOMAX: THAT IS -- THAT'S ACCURATE. I
12 WOULD AGREE WITH THAT. THE ONLY COMMENT, THE ONLY
13 QUOTE I WILL MAKE IS THAT I'VE HEARD THAT PEOPLE AT
14 TIMES SAY IF YOU INTEND TO DO WHOLE GENOME
15 SEQUENCING, THERE IS NO SUCH THING AS ANONYMITY. SO
16 TO WHAT EXTENT YOU BELIEVE THAT, THAT WOULD BE THE
17 ONLY CAVEAT.

18 DR. PATRICK TAYLOR: EVEN THE PIONEERS OF
19 SAYING EVERYTHING IS IDENTIFIABLE NEVER SAID THAT
20 EXCEPT THERE'S ALWAYS SOME ACCESS TO SOMETHING
21 THAT'S REQUIRED WHICH HAS THE DNA STUFF IN SOME
22 FORM. WHEREAS, THE GREEN MAY WELL INVOLVE SOME REAL
23 ATTENTION TO THE KIND OF THINGS OUR KIND DONOR SPOKE
24 ABOUT. HER EFFORTS TO KEEP THE MEDICAL RECORD OF
25 THE FAMILY CURRENT AND AVAILABLE MAY HAVE SOME

BARRISTERS' REPORTING SERVICE

1 COUNTERPART IN THE GREEN STUFF GOING FORWARD. I
2 HOPE THAT'S HELPFUL. WE MAY ACTUALLY HAVE SOME
3 REASON FOR THINKING THROUGH THE APPLICATION HERE OF
4 SOME OF THE THINGS YOU, BERNIE, AND OTHERS HAVE
5 PIONEERED WITH RESPECT TO PAST SPECIMENS SIMPLY
6 BECAUSE THEY DON'T RAISE THE SAME CONFIDENTIALITY
7 ISSUES AND SO ON. THANKS.

8 MS. HEMPEL: I WANTED TO MENTION JUST IN
9 LISTENING TO NICOLE AND THIS CONVERSATION ABOUT
10 CONSENT IS JUST HOW YOU PLAN TO GET THE CONSENT.
11 ARE YOU PLANNING TO SIT DOWN WITH PEOPLE IN PERSON
12 AND GO OVER THE CONSENTS? GENERALLY MY EXPERIENCE
13 WITH CONSENT FORMS, AND I'VE SIGNED LIKE HUNDREDS OF
14 THESE CONSENT FORMS NOW, IS THAT IT ENDS UP IN A
15 PIECE OF PAPER LIKE WHAT NICOLE WAS TALKING ABOUT.
16 AND THESE CONSENT FORMS ARE REALLY COMPLICATED, AND
17 IT GOES BACK TO WHAT SHERRY WAS TALKING ABOUT. THE
18 CONSENT FORMS ARE WRITTEN -- I CAN SEND YOU A BUNCH
19 OF THEM. THEY'RE WRITTEN BY LAWYERS AND PEOPLE DO
20 NOT UNDERSTAND THE CONSENT FORMS. I'VE GONE THROUGH
21 THE CONSENT FORMS. I DON'T UNDERSTAND THEM. I
22 DON'T THINK THE AVERAGE PERSON WHO'S GOING TO BE
23 PARTICIPATING IN THIS, I THINK THAT'S YOUR CHALLENGE
24 IS HOW DO YOU GET THE CONSENT FROM PEOPLE AND THEY
25 ACTUALLY KNOW WHAT THEY'RE CONSENTING TO.

BARRISTERS' REPORTING SERVICE

1 SO THAT WAS THIS QUESTION THAT I HAD WAS
2 JUST HOW YOU PLAN TO GET THE CONSENT. AND IF IT'S
3 GOING TO JUST BE A PIECE OF PAPER, I'M THINKING WHAT
4 MATERIALS COULD YOU PROVIDE TO PEOPLE SO THAT THEY
5 COULD UNDERSTAND THE LANGUAGE BEHIND ALL OF THE
6 COMPLICATIONS OF IPS CELLS BECAUSE I THINK THE
7 AVERAGE PERSON, THEY DON'T KNOW.

8 CHAIRMAN LO: LET ME AGAIN, I'M TRYING TO
9 STRUCTURE THE DISCUSSION SO WE CAN START KNOCKING
10 OFF SOME ISSUES. THAT'S A HUGE POINT IN MY OWN
11 VIEW, AND I THINK I SPEAK FOR A LOT ON THE
12 COMMITTEE. NO, CONSENT IS NOT A PIECE OF PAPER.
13 IT'S A DISCUSSION. IT'S A PROCESS.

14 WHAT I'D LIKE TO FOCUS ON FIRST IS WHAT DO
15 WE NEED TO DISCUSS? WHAT ARE THE TOPICS? WHAT ARE
16 THE ISSUES WE NEED TO DISCUSS AS PART OF THIS GREEN
17 LEVEL CONSENT? AND IS THERE AGREEMENT ON WHAT THOSE
18 THINGS SHOULD BE? AFTER WE SETTLE THAT, THEN WE CAN
19 TALK. I THINK THERE'S A WHOLE LOT OF WORK TO BE
20 DONE HOW TO MAKE THAT WORK IN PRACTICE IN TERMS OF
21 INFORMATION ON MATERIALS, WHO DOES THE CONSENT
22 PROCESS, HOW LONG IS IT GOING TO TAKE, DO YOU CHECK
23 FOR UNDERSTANDING, OPPORTUNITY TO ASK QUESTIONS, GO
24 HOME AND THINK ABOUT IT.

25 LET'S FIRST TALK ABOUT WHAT SHOULD THE

BARRISTERS' REPORTING SERVICE

1 TOPICS BE THAT WE ARE RECOMMENDING BE INCLUDED IN
2 THAT GREEN LEVEL?

3 DR. KIESSLING: THERE HAVE BEEN A COUPLE
4 OF THINGS THAT HAVEN'T BEEN MENTIONED YET THAT ARE
5 ABSOLUTELY KEY TO THIS. ONE IS THESE PEOPLE HAVE TO
6 BE CONSENTED FOR INFECTIOUS DISEASE TESTING. AND
7 THAT'S A PROCESS ALL BY ITSELF. THAT HAS TO BE LIKE
8 NO. 1. YOU'VE GOT TO DECIDE WITH THIS PERSON ARE
9 THEY WILLING TO HAVE A BROAD PANEL OF INFECTIOUS
10 DISEASE TESTING. THAT'S STEP ONE.

11 IN STEP TWO WE HAVE TO DECIDE DO WE WANT
12 THESE PEOPLE TO BE PSYCHOLOGICALLY TESTED.
13 STANDARDS FOR, FOR INSTANCE, EGG DONATION,
14 PARTICULARLY FOR THE HUMAN -- THE EGG DONATION
15 PROGRAM THAT WE WORKED OUT IS ALL THE DONORS WENT
16 THROUGH SOME KIND OF PSYCHOLOGICAL ASSESSMENT SO
17 THAT YOU CAN HAVE SOME IDEA AS TO WHAT THEY ACTUALLY
18 ARE GOING TO UNDERSTAND ABOUT WHAT YOU TALK ABOUT.
19 AND THIS CAN BE A VERY SHORT PROCESS. THERE'S SOME
20 VERY STANDARDIZED TESTS THAT CAN BE DONE.

21 I THINK WHAT WE KNOW ABOUT THE INDIVIDUAL
22 HAS TO START AT THE VERY BEGINNING, AND THEN YOU CAN
23 DECIDE WHAT EXACTLY YOU WANT THE INDIVIDUAL TO KNOW
24 ABOUT WHAT'S GOING TO HAPPEN WITH THEIR TISSUES.

25 CHAIRMAN LO: I'M GOING TO WORK DOWN THE

BARRISTERS' REPORTING SERVICE

1 RIGHT AND THEN WORK DOWN THE LEFT.

2 DR. ROBERTS: FOR ME A BIG ISSUE WAS ONE
3 THAT NICOLE MENTIONED, WHICH IS MAKING SURE THAT THE
4 DONORS UNDERSTAND WHETHER OR NOT THEIR TISSUE AND
5 DERIVED STEM CELL LINES WILL BE USED TO STUDY OTHER
6 THINGS, OTHER DISEASES. SO WHAT DISTINGUISHES, AND
7 I THINK THIS IS PART OF WHAT YOU WERE SAYING, WHAT
8 DISTINGUISHES THE TOP, WHICH MAY ACTUALLY MAKE IT
9 MORE COMPLICATED, THE GREEN LINE, THE CURRENT DONORS
10 BEING RECRUITED, IS THAT THESE THEN WILL -- SINCE
11 BEING RECRUITED BY DISEASE, THESE ARE PEOPLE WHO
12 HAVE THE DISEASE OR THEIR CHILDREN HAVE THE DISEASE
13 AND THEY'RE PROBABLY PARTICIPATING BECAUSE THEY WANT
14 TO FIND A CURE FOR THEIR DISEASE. AND THEY MAY VIEW
15 THIS VERY DIFFERENTLY IF WHAT'S GOING TO HAPPEN IS
16 THEIR TISSUE IS BEING USED TO CURE SOME OTHER
17 DISEASE.

18 DR. KIESSLING: YOU THINK THEY NEED TO BE
19 PSYCHOLOGICALLY ASSESSED?

20 DR. ROBERTS: WELL, I'D LIKE WANT TO KNOW
21 EXACTLY WHAT THAT MEANS FOR THE PSYCHOLOGICAL
22 ASSESSMENT.

23 DR. KIESSLING: THERE'S SOME STANDARDS.

24 DR. ROBERTS: I THINK IT IS IMPORTANT TO
25 MAKE SURE THAT THEY UNDERSTAND WHAT IS IN THE

BARRISTERS' REPORTING SERVICE

1 CONSENT FORM.

2 DR. PATRICK TAYLOR: WORKING FROM SOME OF
3 THE THINGS THAT HAVE BEEN SAID THIS MORNING, I THINK
4 IT IS REALLY USEFUL, BERNIE, TO DO WHAT YOU WERE
5 FOCUSING ON, WHICH IS, FIRST OF ALL, TO DISTINGUISH
6 INTERVENTIONAL USES AND STUDIES. IN MY OWN
7 EXPERIENCE THE TIMES OF CONSENT REALLY SHOULD BE
8 LONG AND DETAILED, FOR EXAMPLE, WHEN IT SPELLS OUT A
9 PATHWAY OF OFFICE VISITS AND ADMINISTRATION OF TEST
10 DRUGS AND ALL KINDS OF THINGS, SO A FAMILY CAN GO
11 BACK AND SAY, OKAY, IS THIS WHAT'S GOING TO BE
12 HAPPENING TO MY CHILD. HERE'S WHAT IT ALL INVOLVES.
13 THAT SHOULD BE A LONG AND DETAILED CONSENT LIKE
14 WHAT'S REALLY GOING TO BE HAPPENING. BUT IF THIS IS
15 REALLY FOCUSED ON BASIC SCIENCE WORK, I THINK THAT
16 DOES SIMPLIFY MANY THINGS, AND IT'S AN IMPORTANT
17 FOCUS.

18 THE SECOND THING IS I THINK IT ALSO HELPS
19 ADDRESS ANN'S QUESTION BECAUSE WHILE IF A CONSENT IS
20 VERY, VERY COMPLEX OR INVOLVES A WHOLE LOT OF
21 UNFORESEEN DANGERS, I CAN SEE HOW THAT COMPREHENSIVE
22 TESTING MIGHT BE VERY IMPORTANT. HERE IT MIGHT END
23 UP FUNCTIONING AS AN OBSTACLE TO DONORS WHO ARE
24 REALLY JUST TRYING TO MAKE A BASIC SCIENCE DONATION.
25 SO I THINK YOUR FOCUS IS REALLY HELPFUL.

BARRISTERS' REPORTING SERVICE

1 THE SECOND THING, I GUESS, IS THERE'S BEEN
2 A REAL EMPHASIS ON EMPIRICAL THINGS. WHAT DO DONORS
3 REALLY CARE ABOUT? I THINK WHAT WE'VE HEARD AND
4 PROBABLY MANY OF US HAVE HEARD IS THAT THE
5 UNCERTAINTY OF KNOWLEDGE GENERATION IS NO BIG
6 SURPRISE TO DONORS WHO FACE THE UNCERTAINTY OF A
7 CHILD'S PROGRESS THROUGH LIFE. WE ALL ACTUALLY ARE
8 USED TO THAT. AND SO SAYING THAT PEOPLE HAVE TO
9 GRAPPLE WITH SPECIFIC CERTAINTIES ABOUT EVERYTHING
10 IN SCIENCE IS NOT REALLY WHERE IT'S AT. BUT FINDING
11 OUT EMPIRICALLY THE THINGS THEY WOULD OBJECT TO IS
12 REALLY IMPORTANT. SO THERE'S PROBABLY SOME WORK TO
13 BE DONE IN A SIMPLIFIED AND MORE UNIFORM CONSENT
14 THAT DOES SPOT ON SOME ISSUES. I THINK THAT IS A
15 USEFUL DIRECTION.

16 CHAIRMAN LO: LET ME GO THROUGH ONCE.

17 MR. SHEEHY: I HAD THE SAME POINT HE DID.
18 I THINK WHAT WE'RE REALLY TALKING ABOUT IS REDOING
19 CONSENT FOR IPS DONATION. WE MAY BE THINKING WE'RE
20 TALKING ABOUT A BANK, BUT THIS IS GOING TO HAVE
21 BROAD IMPACT. AND I NOTICE HOW MUCH EVERYONE'S
22 OPINIONS ABOUT THIS HAVE BEEN INFLUENCED BY HEARING
23 FROM SOMEONE WHO'S ACTUALLY PARTICIPATED IN THE
24 PROCESS. I THINK THERE'S A REAL NEED TO GETTING
25 SOME SORT OF EMPIRICAL DATA IN ORDER TO START

BARRISTERS' REPORTING SERVICE

1 TALKING ABOUT THIS. WE'RE KIND OF PULLING THINGS
2 OUT OF OUR HEAD AS WE'RE TRYING TO CONSIDER THIS
3 WITHOUT ACTUALLY HAVING GONE THROUGH THE EXPERIENCE
4 OF DOING A DONATION.

5 WE'VE HEARD FROM ONE INDIVIDUAL WHO'S
6 RAISED AN ENORMOUS NUMBER OF ISSUES. AND I THINK
7 THAT BEFORE WE START THINKING ABOUT IDEALLY WHAT
8 WE'D LIKE TO HAVE IN A CONSENT FORM, WE HAVE PEOPLE
9 WHO HAVE BEEN DONATING FOR THE LAST TWO, THREE, FOUR
10 YEARS FOR IPS. AND IS THERE SOME WAY -- AT LEAST
11 WITHIN CALIFORNIA, IT WOULD BE A USEFUL EXERCISE TO
12 COLLECT SOME DATA, ACTUALLY BOTH QUANTITATIVE AND
13 QUALITATIVE DATA, TO ACTUALLY FIND OUT ABOUT THEIR
14 EXPERIENCE. BEFORE WE START REALLY MAKING RULES OR
15 GIVING GUIDELINES IN THIS, WE SHOULD REALLY TRY TO
16 FIND OUT WHAT PEOPLE THINK. THAT WOULD BE MY
17 SUGGESTION. I KNOW THAT THAT IS NOT QUITE AS
18 SIMPLE.

19 DR. ROBERT TAYLOR: AND I WAS JUST GOING
20 TO MAKE THE COMMENT THAT I THINK WE OUGHT TO KNOW
21 WHAT WE'RE UP AGAINST TOO. NICOLE, MAYBE YOU CAN
22 ADDRESS THIS. I KNOW WITHIN MY OWN INSTITUTION,
23 THERE ARE KIND OF CANCER-ORIENTED COMPANIES -- I
24 COULD NAME A COUPLE IF IT WERE REQUESTED -- THAT ARE
25 COLLECTING TISSUE SAMPLES AS CLINICAL TEST SAMPLES,

BARRISTERS' REPORTING SERVICE

1 SAY, A CHUNK OF BREAST CANCER FOR STEROID RECEPTOR
2 MEASUREMENTS. THEY'RE BANKING THOSE TISSUES.
3 THEY'RE GENERATING CELL LINES, I WOULD IMAGINE, FROM
4 THOSE TISSUES. THEY'RE DOING ALL KINDS OF STUFF
5 THAT NEVER WAS CONSENTED. THIS ALL WENT UNDER THE
6 RADAR BECAUSE THESE WERE, QUOTE, CLINICAL SAMPLES
7 THAT ARE GOING TO THESE COMPANIES.

8 SO IN THE PRIVATE SECTOR THIS KIND OF
9 THING -- THERE ARE THESE TISSUE BANKS THAT ARE
10 HAPPENING. FRANKLY, I THINK PATIENTS ARE PAYING FOR
11 THE OPPORTUNITY TO CONTRIBUTE SAMPLES TO THOSE. SO
12 THAT'S HAPPENING AT KIND OF ONE LEVEL WITH REALLY NO
13 REGULATION WHATSOEVER, AND WE'RE TALKING ABOUT ALL
14 THESE LAYERS OF THINGS. SO I KIND OF AGREE WITH
15 JEFF THAT IT WOULD BE HELPFUL TO SORT OF STEP BACK
16 AND KIND OF ASSESS WHERE ARE WE TODAY. MAYBE YOU
17 KNOW MORE ABOUT THIS KIND OF THING THROUGH THE NCI,
18 BUT I THINK THAT THERE'S -- I DON'T KNOW. WE'RE
19 GOING TO HAVE, I THINK, A WHOLE SERIES OF DIFFERENT
20 STANDARDS IN THE FIELD THAT ARE GOING TO BE PRETTY
21 BIZARRE TO TRY TO DEAL WITH ETHICALLY.

22 MS. FEIT: I AGREE. IT SOUNDS LIKE A MINE
23 FIELD. YOU OPEN ONE DOOR AND TEN OTHERS OPEN. AND
24 I THINK WE'RE GOING TO BE BUTTING UP AGAINST A LOT
25 OF OTHER STANDARDS, SOME THAT MAY HAVE BEEN WRITTEN

BARRISTERS' REPORTING SERVICE

1 SO MANY YEARS AGO, THAT THEY REALLY DON'T APPLY.
2 AND THAT'S WHY UNDER THE RADAR BEHAVIOR STARTS WHEN
3 YOU DON'T HAVE CURRENT POLICIES AND STANDARDS TO
4 GUIDE PEOPLE IN THEIR PRACTICES AND WHAT THEY'RE
5 DOING WHEN PEOPLE MOVE AHEAD.

6 SO I THINK FOLLOWING JEFF'S RECOMMENDATION
7 MAY BE THE RIGHT WAY TO BEGIN DOWN THIS PATH BECAUSE
8 WE MAY, AGAIN -- AS AN INSTITUTE WE BLAZED TRAILS ON
9 NEW FRONTIERS OF STEM CELL RESEARCH AND SETTING
10 STANDARDS AND DOING THINGS, AND THIS MAY BE ANOTHER
11 AREA WHERE WE'RE GOING TO DO THAT. WE'RE GOING TO
12 BE REWRITING SOME NEW STANDARDS AND SOME NEW
13 DIRECTIONS FOR RESEARCH.

14 DR. KAMP: THANKS. I GUESS I HAVE A
15 COUPLE OF ISSUES THAT, FIRST OF ALL, THE RED,
16 YELLOW, GREEN, AND CALLING GREEN SORT OF OPTIMAL AND
17 IMPLYING THAT RECONSENT IS THE OPTIMAL APPROACH AND
18 A MORE COMPREHENSIVE APPROACH ISN'T OPTIMAL. I
19 THINK THAT PRESUMES THAT WE KNOW WHAT PATIENTS AND
20 DONORS WILL WANT. I THINK THERE ARE COMPELLING
21 REASONS THAT SOME PATIENTS WILL WANT TO BE INVOLVED
22 IN THE PROCESS, RECONSENTED, AND OTHERS REALLY WILL
23 WANT TO CONTRIBUTE TO THE RESEARCH, BUT BE ANONYMOUS
24 IN THE PROCESS.

25 SO I THINK WE HAVE TO BE A LITTLE CAREFUL

BARRISTERS' REPORTING SERVICE

1 IN WHAT WE DESCRIBE AS OPTIMAL. ISN'T IT MORE
2 FUTURE MOVING FORWARD CONSENT PROCESSES VERSUS
3 EXISTING? ARE WE PRESUMING THAT ALL EXISTING
4 CONSENT PROCESSES ARE POOR OR SUBOPTIMAL? I DON'T
5 KNOW THAT. I THINK WE NEED TO BE DATA DRIVEN, BUT
6 WE DON'T HAVE THAT ANSWER.

7 MS. LANSING: I KNOW I'M MISSING SOMETHING
8 IN ALL OF THIS BECAUSE USUALLY I'M THE MOST
9 CONSERVATIVE OF EVERYBODY HERE. AND HERE I FEEL
10 LIKE I'M -- IT WASN'T JUST BECAUSE OF WHAT CHRIS
11 SAID. I THINK IT'S JUST FROM THE YEARS OF BEING A
12 PATIENT ADVOCATE MYSELF IN THE CANCER COMMUNITY IN
13 PARTICULAR, BUT JUST WATCHING EVERYTHING. AND I
14 GUESS TO ME I'M SORT OF REPEATING WHAT I SAID
15 OPTIMAL. TO ME INFORMED CONSENT IS ALL ABOUT
16 EMPOWERING THE PATIENT TO MAKE INFORMED CHOICES.
17 AND I DO BELIEVE THAT THE CHOICES HAVE TO BE
18 DISCUSSED. I THINK WE HAD THAT INITIALLY IN OUR
19 INITIAL DISCUSSIONS. SO IT CAN'T JUST BE A LEGAL
20 DOCUMENT. THAT WOULD NOT BE RIGHT. IT CAN BE
21 SIMPLIFIED WITH THE DISCUSSION WHERE YOU CHECK BOXES
22 WHATEVER.

23 I'M AFRAID I DON'T BELIEVE IN A
24 PSYCHOLOGICAL EVALUATION BECAUSE I THINK THAT WILL
25 REALLY FRIGHTEN PEOPLE OFF. THAT'S LIKE SOMETHING

BARRISTERS' REPORTING SERVICE

1 THAT I THINK YOU WOULD SAY WHAT DOES THAT MEAN? YOU
2 ARE GOING TO TELL -- SO EVEN THOUGH IT'S VERY
3 REGIMENTED, I'M AFRAID THAT VERY WORD WOULD FRIGHTEN
4 PEOPLE.

5 TO ME, I'M REPEATING WHAT I SAID, TO HAVE
6 THE CHOICE THAT THE DATA REMAIN ANONYMOUS, THAT YOU
7 AND ONLY YOU HAVE THE ABILITY TO GET THE DATA IF YOU
8 WISH, OR THAT THE DATA CAN BECOME PUBLIC, THAT
9 DOESN'T REQUIRE, IN MY OPINION -- IT'S NOT SO HARD
10 TO UNDERSTAND.

11 SECOND, THAT YOUR TISSUE OR YOUR CELLS CAN
12 BE USED JUST FOR THE SPECIFIC NARROW RESEARCH THAT
13 YOU CARE ABOUT OR CAN BE USED IN ANY WAY THAT
14 SCIENCE DETERMINES FOR ALL DISEASES. WE KNOW IT
15 CAN'T BE USED FOR CLONING BECAUSE THAT'S AGAINST OUR
16 LAW.

17 AND THEN RECONTACT, TO ME, IS THAT THAT'S
18 YOUR RESPONSIBILITY. AND IF YOU CHOSE THAT IT'S
19 ANONYMIZED, THEY CAN'T FIND IT. SO I JUST -- I KNOW
20 I'M MISSING SOMETHING, AND I KNOW I'M JUST NOT
21 GETTING THIS, BUT IT DOESN'T SEEM LIKE A PANDORA'S
22 BOX. I KNOW I'M MISSING THIS. I'M JUST TELLING YOU
23 THIS. AND FROM A PERSON WHO HAD TROUBLE PRONOUNCING
24 PLURIPOTENT, IT'S NOT SURPRISING THAT I'M NOT
25 UNDERSTANDING SOME OF THIS. I JUST HAVE TO KNOW

BARRISTERS' REPORTING SERVICE

1 WHAT I'M MISSING BECAUSE IT SEEMS TO ME SO CLEAR,
2 AND I DON'T CONSIDER IT OPTIMAL, YELLOW, OR RED. I
3 JUST CONSIDER IT THAT YOU HAVE THESE CHOICES.

4 DR. LOMAX: CAN I MAKE JUST ONE
5 CLARIFICATION ON THE CATEGORIES? AND PLEASE DON'T
6 VIEW THIS AS SORT OF OPTIMAL WITH A CAPITAL O. IT
7 WASN'T INTENDED TO BE SORT OF THE METAPHYSICAL
8 IDEAL. THE ATTEMPT HERE WAS, AND IT WAS BASED ON
9 THE PREVIOUS PART OF THE PRESENTATION, AFTER REVIEW
10 OF THE MOST CONTEMPORARY GUIDELINES AND
11 RECOMMENDATIONS, IT WAS TRYING TO SORT OF SAY IF OUR
12 GOAL WERE AND WE BUY INTO THOSE, TO GET A HUNDRED
13 PERCENT FIT OR A PERFECT FIT, THEN THAT WAS THE
14 GREEN, AND THE YELLOW REALLY IS VERY GOOD.

15 AGAIN, THE BENCHMARK HERE WAS THE POLICY
16 GUIDANCE AND REGULATORY GUIDANCE THAT IS SORT OF UP
17 TO DATE. SO I JUST WANT TO MAKE SURE I'M NOT TRYING
18 TO SORT OF IMPOSE SOMETHING THAT IT WASN'T MEANT TO
19 BE. THIS IS MORE THE POLICY EVALUATION. AND I KNOW
20 THE COLORING THING IS A BIT CUTE AND PEOPLE CAN
21 REACT TO IT DIFFERENTLY, BUT THAT WAS THE ATTEMPT
22 THERE. THAT WAS THE BENCHMARK THROUGH WHICH THIS
23 EVALUATION WAS DEVELOPED.

24 CHAIRMAN LO: I WOULD SUGGEST -- I THINK
25 COLORS ARE OKAY. MY FAMILY ACCUSES ME OF HAVING NO

BARRISTERS' REPORTING SERVICE

1 COLOR SENSE, SO IT DOESN'T MATTER TO ME. PEOPLE ARE
2 SENSITIVE TO COLORS. I SUGGEST WE TALK ABOUT THE
3 FIRST ONE AS CONSENT GOING FORWARD, PROSPECTIVE.

4 DR. FEIGAL: DON'T THINK OF IT AS OPTIMAL.
5 JUST THINK OF IT'S AN OPPORTUNITY, IT'S PROSPECTIVE.
6 THE OTHER IS ALREADY EXISTING.

7 CHAIRMAN LO: SO LET ME TRY AND SAY
8 SOMETHING ABOUT WHAT I HEARD THE GROUP SAY. A
9 NUMBER OF YOU REALLY SAID WE REALLY HAVE TO
10 UNDERSTAND WHAT DONORS CARE ABOUT, AND THAT'S AN
11 EMPIRICAL QUESTION. AND WE OUGHT TO TAKE ADVANTAGE
12 OF THE CHANCE TO GATHER EMPIRICAL INFORMATION. AND
13 I WOULD JUST ADD TO THAT THAT THERE ACTUALLY HAVE
14 BEEN A LOT OF OTHER STUDIES, EMPIRICAL STUDIES, DONE
15 IN OTHER SETTINGS, PARTICULARLY IN GENETICS RESEARCH
16 SETTINGS. SOME OF THE THEMES THAT COME OUT ARE,
17 FIRST, DONORS REALLY WANT TO BE ASKED. EVEN IF THEY
18 WOULD AGREE TO YOU CAN DO WHATEVER YOU WANT TO THE
19 MATERIAL, THEY WANT TO BE ASKED FOR THE OPTION.
20 THAT'S CONSISTENT.

21 PEOPLE HAVE BEEN ASKED ABOUT THE VALUE OF
22 CHECK BOXES IN A SO-CALLED TIERED CONSENT FORM. SO
23 WILL YOU DONATE FOR THIS PARTICULAR STUDY ON
24 PARKINSON'S DISEASE? WILL YOU ALSO ALLOW IT TO BE
25 STUDIED FOR OTHER SERIOUS NEUROLOGICAL DISEASES,

BARRISTERS' REPORTING SERVICE

1 OTHER DISEASES?

2 THE BIG DIFFERENCE, IT SEEMS TO ME,
3 BETWEEN IPS CELLS AND OTHER TYPES OF REPOSITORIES IS
4 THAT IPS CELLS REPLENISH THEMSELVES. SO THAT IF I
5 GIVE SOMEONE AN ALIQUOT OF CELLS TO STUDY SOMETHING
6 TOTALLY DIFFERENT THAN PARKINSON'S DISEASE, IT
7 DOESN'T NECESSARILY COMPROMISE THE ABILITY OF
8 PARKINSON'S RESEARCHERS TO DO THE RESEARCH.
9 WHEREAS, IF I HAVE JUST A LIMITED AMOUNT OF TISSUE
10 OR BLOOD SAMPLE THAT'S FINE, EVERY TIME I GIVE SOME
11 OF IT AWAY, IT MEANS IN THE FUTURE I MAY NOT BE ABLE
12 TO USE IT.

13 AGAIN, WHERE PEOPLE HAVE BEEN ASKED, AND
14 AGAIN IT'S THE REAL QUESTION, IF YOU ASK, THEY MIGHT
15 TELL YOU SOMETHING DIFFERENT THAN IF YOU DO IT
16 WITHOUT ASKING. IF YOU ASK, THE VAST MAJORITY OF
17 PEOPLE SAY, OH, YEAH. IF IT CAN HELP SOMEONE WITH
18 ANOTHER DISEASE, ABSOLUTELY GO AHEAD. NOW, THEY
19 MAY -- I THINK IT'S QUITE LIKELY, BUT IT'S AN
20 EMPIRICAL QUESTION, GIVEN THAT THE RESEARCH ABILITY
21 TO STUDY THE DISEASE I WAS MOST CONCERNED WITH IS
22 NOT COMPROMISED BY GIVING IT TO OTHER PEOPLE TO
23 STUDY OTHER DISEASES.

24 MS. LANSING: THAT'S A WAY OF ASKING THE
25 QUESTION THOUGH. I'M SAYING THAT THE RESEARCH,

BARRISTERS' REPORTING SERVICE

1 THERE WILL BE ENOUGH CELLS TO STUDY, AND WHATEVER
2 WAY TO EXPLAIN IT TO A LAY PERSON, AND IF THERE ARE
3 EXTRA CELLS, RATHER THAN SAYING THAT THEY
4 MULTIPLY...

5 CHAIRMAN LO: AND THE OTHER THING I WOULD
6 SUGGEST IS THAT WE ALWAYS USE THE -- A LOT OF YOU
7 HAVE SAID THAT PEOPLE VARY. AND WE HEARD CHRIS,
8 WHO'S A VERY ARTICULATE, THOUGHTFUL PERSON WHO KNOWS
9 A LOT ABOUT THIS, THERE ARE OTHER DONORS WHO JUST
10 SAY, HERE, TAKE MY SPECIMEN. I DON'T REALLY WANT TO
11 BE INVOLVED ALL THE TIME. BUT I THINK IT'S OFFERING
12 OPTIONS. SO THAT IF YOU WANT THE OPTION OF BEING
13 IDENTIFIED, OF BEING RECONTACTED, IF YOU DECIDE
14 THAT'S SOMETHING YOU'RE AGREEING TO DO, WHICH YOU
15 MAY OR MAY NOT AS A RESEARCH INSTITUTION, OFFERING
16 THAT AS AN OPTION AND LEAVING IT UP TO PEOPLE TO
17 SAY, YES, I DO OR, NO, THANK YOU. THE GENERAL
18 TENDENCY IS AS LONG AS YOU DON'T OVERWHELM THEM WITH
19 TOO MANY OPTIONS AND YOU PRESENT OPTIONS IN A WAY
20 THAT PEOPLE UNDERSTAND, PEOPLE APPRECIATE THE
21 OPTION.

22 WE'VE DONE THIS AT UCSF, SAID TO PEOPLE
23 WOULD YOU LIKE THE OPTION OF BEING RECONTACTED IN
24 THE FUTURE ABOUT RESEARCH THAT WE CAN'T PREDICT NOW,
25 THAT WE CAN ANTICIPATE SOME RESEARCH SUBJECTS MIGHT

BARRISTERS' REPORTING SERVICE

1 HAVE CONCERNS ABOUT BEING INVOLVED WITH, PEOPLE ARE
2 SPLIT. SOME PEOPLE ARE WILLING. YOU TOLD ME
3 THERE'S SOME OTHER OVERSIGHT PROCESS WHICH IS NOT
4 ANYTHING GOES. I'M GOING TO HAVE TO TRUST YOU FOLKS
5 TO WORK IT OUT, THAT WHAT'S DONE IS REASONABLE AND
6 THAT'S FINE. OTHER PEOPLE SAY NO. IT'S, AGAIN,
7 ALLOWING FOR THE COMPLEXITY.

8 LET ME JUST GO BACK TO THE EMPIRICAL
9 THING. IS ONE OF THE THINGS, THE SENSE OF WHAT I
10 WAS HEARING, THAT WE WOULD LIKE THIS TO BE DATA
11 DRIVEN, EMPIRICALLY BASED, AND TO BOTH LOOK AT -- I
12 THINK WE COULD ASK GEOFF TO REVIEW THE LITERATURE ON
13 THIS, WHICH IS QUITE EXTENSIVE. THERE'S SOME NICE
14 REVIEWS. ALSO TO TAKE ADVANTAGE OF CIRM-FUNDED
15 RESEARCH TO DO -- MAYBE FUND SOME ADD-ON STUDIES ON
16 WHICH WE CAN BASE THIS.

17 AND I THINK THE OTHER THING IS WE NEED TO
18 TAKE PEOPLE AND SORT OF EXPLAIN IN DETAIL WHAT ALL
19 THIS MIGHT INVOLVE AND THEN ASK THEM, NOW THAT WE'VE
20 EXPLAINED IT TO YOU, WOULD YOU WANT TO BE ASKED
21 THIS, THIS, AND THAT.

22 DR. PATRICK TAYLOR: TO ME THERE'S A
23 PRINCIPLE THAT WE COULD STATE THAT WOULD HELP GUIDE
24 US TOWARDS SIMPLICITY AND UNIFORMITY. AND THAT'S TO
25 GIVE DONORS, ASSURE DONORS HAVE EMPOWERING CHOICES

BARRISTERS' REPORTING SERVICE

1 ABOUT THE THINGS THEY CARE ABOUT. AND SO THE
2 CATEGORIES OF CHOICE, REALLY EMPOWERING ONES VERSUS
3 THE OTHER ONES, ARE REALLY IMPORTANT.

4 SO ON THE POINT OF STUDIES, IT SEEMS TO ME
5 THAT HOW STUDIES ARE FRAMED, IT WOULD BE GREAT TO DO
6 STUDIES, BUT WE HAVE TO BE VERY CAREFUL IN FRAMING
7 THEM. FOR EXAMPLE, GOING BACK TO THE TERMS USED
8 THIS MORNING, IF WE ASK PEOPLE TO DO STUDIES ABOUT
9 WHAT DONORS THINK ABOUT ACTIONABILITY, WHICH REALLY
10 ISN'T A DONOR TERM, AND OBVIOUSLY, AS WE'VE SEEN,
11 CAN BE SOME ASTOUNDING THINGS, AND WE'LL END UP WITH
12 WEIRD RESULTS WHICH SIMPLY REFLECT THE PAST VIEWS OF
13 HOW CLINICIANS AND LAWYERS AND SCIENTISTS HAVE
14 CATEGORIZED THEM. SO THERE'S ALMOST SOME PREVIOUS
15 WORK IN UNDERSTANDING WHAT ARE THE CATEGORIES OF
16 CONSENT THE DONORS THEMSELVES CREATE. WHAT WOULD
17 THEY OBJECT TO? WHAT WOULD THEY WISH TO HAVE AS
18 EMPOWERING? AND MAKING THAT THE SUBJECT FOR
19 EMPIRICAL RESEARCH.

20 DR. ROBERTS: AFTER YOUR POINT, BERNIE,
21 ABOUT THE LINES BEING REGENERATING SO THAT IT'S NOT
22 AS IF YOU DONATE FOR ONE RESEARCH ON ONE DISEASE,
23 IT'S COMPROMISED IF THERE'S RESEARCH DONE ON ANOTHER
24 DISEASE. BUT I GUESS THAT I WANT TO REFRAME MY
25 CONCERN, WHICH IS THAT IN THE CONSENT FORM DONORS

BARRISTERS' REPORTING SERVICE

1 ARE TOLD REALISTICALLY WHAT IS LIKELY TO COME OUT OF
2 THIS RESEARCH. IN OTHER WORDS, I GUESS I STILL HAVE
3 THE SENSE THAT SINCE THE DONORS ARE GOING TO BE
4 SELECTED BY DISEASE, SO WHAT I'VE READ IS IT'S FIVE
5 DONORS PER DISEASE, FOR EXAMPLE, THAT THE
6 RECRUITMENT IS BASED ON A DISEASE. AND SO THEY MAY
7 BE DONATING BECAUSE THEY BELIEVE THAT THE RESEARCH
8 IS GOING TO LEAD TO A CURE FOR THIS DISEASE.

9 AND THAT JUST -- I THINK IT JUST HAS TO BE
10 CLEAR TO THE DONORS WHETHER THIS IS RESEARCH THAT'S
11 GOING TO BE DONE, BASIC SCIENCE RESEARCH THAT IS
12 GOING TO GENERALLY LOOK INTO AN UNDERSTANDING OF THE
13 DISEASE AS OPPOSED TO RESEARCH THAT IS GOING -- THAT
14 THEIR LINES ARE GOING TO BE USED TO CURE THEM. THAT
15 SEEMS LIKE A DIFFERENCE THAT WOULD MAKE A DIFFERENCE
16 TO THE DONOR. SO JUST THAT EXPLAINING --

17 CHAIRMAN LO: AND AGAIN --

18 DR. ROBERTS: -- CLEARLY WHAT IS GOING TO
19 BE DONE WITH THEIR TISSUE.

20 CHAIRMAN LO: AGAIN, I THINK WE HAVE TO GO
21 BACK TO THE SCIENTIFIC PROPOSAL. MY UNDERSTANDING
22 WAS THAT IT'S PRIMARILY TO UNDERSTAND THE
23 PATHOPHYSIOLOGY OF DISEASE, TO IDENTIFY NEW
24 THERAPEUTIC TARGETS, AND TO SCREEN POTENTIAL
25 THERAPIES, USUALLY SMALL MOLECULES, AND TO EVALUATE

BARRISTERS' REPORTING SERVICE

1 WHETHER CANDIDATE THERAPIES ARE EFFECTIVE OR NOT IN
2 THE LABORATORY MODEL. THAT'S, I THINK, THE PRIMARY
3 INTENT.

4 WHAT I HEARD IS THAT, YOU KNOW,
5 TRANSPLANTATION THERAPIES IS WHAT WE'RE HEADED FOR
6 IN A THE LONG RUN; BUT THAT THESE LINES, ALTHOUGH
7 WE'RE NOT CLOSING THAT OFF, WE'RE PRIMARILY TRYING
8 TO DERIVE THEM AND BANK THEM TO FACILITATE THE
9 PATHOPHYSIOLOGY, DRUG DISCOVERY, AND DRUG TESTING.
10 IS THAT ACCURATE? I THINK YOUR POINT'S TOTALLY
11 RIGHT. YOU CAN'T SORT OF GIVE A MIXED MESSAGE
12 THAT --

13 DR. ROBERTS: RIGHT. I THINK BOTH OF US
14 DIDN'T QUITE UNDERSTAND THAT, SO I'M THINKING THAT A
15 DONOR MAY NOT UNDERSTAND UNLESS IT'S EXPLAINED
16 CLEARLY.

17 DR. OLSON: I DO WANT TO MAKE ONE
18 CLARIFICATION. USING LINES FOR DRUG DISCOVERY HAS
19 THE POTENTIAL TO IDENTIFY COMPOUNDS WHICH
20 POTENTIALLY CAN BECOME THERAPEUTICS. SO THERE IS
21 THAT POSSIBILITY.

22 CHAIRMAN LO: IT'S NOT THAT THE LINES --
23 THAT THE CELLS I DONATE ARE --

24 DR. OLSON: THE LINES THEMSELVES WOULD NOT
25 GO INTO PEOPLE.

BARRISTERS' REPORTING SERVICE

1 DR. ROBERT TAYLOR: THEY COULD
2 POTENTIALLY. WHY NOT ADD THAT POTENTIAL?

3 MR. SHEEHY: JUST LIKE WE'VE SEEN WITH
4 SOME CANCER THERAPIES, IT MAY WORK FOR THAT DONOR,
5 DONOR X, BUT DONOR Y THAT SCREEN MAY NOT WORK. SO
6 WE KNOW THAT WITH CANCER THERAPIES, THAT CERTAIN
7 CANCER THERAPIES WORK ON PEOPLE THAT HAVE CERTAIN
8 GENETIC BACKGROUNDS. SO, YOU KNOW, HAVING THAT
9 INFORMATION IN A DRUG SCREENING CONTEXT COULD BE
10 VERY IMPORTANT TO KNOW THAT THIS PARTICULAR COMPOUND
11 HAD A HIT FOR YOU. RIGHT. IT MAY NOT HAVE A HIT
12 FOR EVERY SINGLE PATIENT. WHEN YOU TALK DRUG
13 DEVELOPMENT, WE'RE GOING TO SCREEN ALL THESE
14 COMPOUNDS AND COME UP WITH A SINGLE MOLECULE THAT
15 WORKS FOR EVERYBODY.

16 WHERE WE'RE GOING IN CANCER THERAPEUTICS
17 IS THAT WE'RE ACTUALLY TARGETING WITH MORE
18 PERSONALIZED. THAT INFORMATION FOR A DONOR COULD BE
19 VERY IMPORTANT, AND COMING BACK TO THEM WITH THAT
20 INFORMATION, I WOULD WANT TO KNOW IF --

21 CHAIRMAN LO: DOROTHY RAISED A REALLY
22 IMPORTANT QUESTION. WHAT IS LIKELY TO HAPPEN? SO I
23 THINK WE REALLY -- IT SOUNDS LIKE WE'RE NOT CLEAR ON
24 THE DIFFERENCE BETWEEN YOUR CELLS WILL LEAD TO
25 RESEARCH THAT MAY HELP IDENTIFY PROMISING TREATMENTS

BARRISTERS' REPORTING SERVICE

1 FOR YOUR CONDITION, BUT THE CELLS THEMSELVES, RIGHT
2 NOW WE DON'T THINK IT'S A PRIMARY GOAL OF THE
3 BANKING TO USE THOSE PARTICULAR CELLS AS THERAPY.
4 THEY MAY HELP IDENTIFY NEW CANDIDATE DRUGS, AS JEFF
5 SAID, MAY HELP IDENTIFY THE KINDS OF PEOPLE A GIVEN
6 THERAPY MAY WORK FOR AND NOT WORK FOR. BUT IN TERMS
7 OF THIS IDEA THAT MY CELLS WILL BECOME THE TREATMENT
8 FOR ME OR MY FAMILY, THAT'S REALLY WAY -- WE'D ALL
9 LIKE TO GET THERE, BUT I THINK IT WOULD PROBABLY NOT
10 BE ACCURATE TO HOLD THAT OUT TO PEOPLE AS A PRIMARY
11 REASON FOR DONATING.

12 DR. KAMP: COULD I SAY IT'S PROBABLY -- I
13 THINK IT'S ABSOLUTELY CORRECT. IT SHOULDN'T BE A
14 PRIMARY REASON FOR DONATING GIVEN THE CURRENT STATE
15 OF SCIENCE, BUT I ALSO THINK IT WOULD BE A
16 FUNDAMENTAL MISTAKE TO EXCLUDE THAT POSSIBILITY
17 BECAUSE THERE MAY BE CELL LINES THAT ARE DERIVED
18 WITH CURRENT TECHNOLOGIES THAT MAY SURPRISE US AND
19 MAY BE USED FOR THERAPY. AND PLUS YOU'RE GOING TO
20 BE ESTABLISHING A HIGH QUALITY, CONTROLLED BANK THAT
21 WILL HAVE THE RESOURCES TO BE SURE TO TEST THE
22 LINES. SO TO AUTOMATICALLY EXCLUDE THAT
23 POSSIBILITY, I THINK, IS A MISTAKE.

24 CHAIRMAN LO: WE FACE THIS IN OTHER TYPES
25 OF RESEARCH. AND HOW YOU FRAME IT IN THE DISCUSSION

BARRISTERS' REPORTING SERVICE

1 WITH THE DONOR IS CRUCIAL. IT SEEMS TO ME THERE'S A
2 PRIMARY GOAL, INTENTION OF WHAT YOU'RE PLANNING TO
3 DO WITH THE BANK. AND I THINK TIM SAID IT VERY
4 WELL. YOU DON'T WANT TO EXCLUDE THE POSSIBILITY.
5 SO I THINK YOU HAVE TO SAY WE HOPE THAT IN THE
6 FUTURE IT WILL BE POSSIBLE TO DEVELOP CELLULAR-BASED
7 THERAPIES. THERE IS A -- WE DON'T WANT TO EXCLUDE
8 THE POSSIBILITY THAT YOUR VERY CELLS MAY BE USED TO
9 HELP TREAT A PERSON, NOT JUST TO SCREEN DISEASE.
10 BUT ON THE OTHER HAND, THAT'S NOT THE PRIMARY REASON
11 WE'RE DOING THAT.

12 I THINK IT'S HOW YOU FRAME IT, AND I THINK
13 THAT'S A LOT OF WHAT WE'RE TALKING ABOUT. WHEN I
14 SAT ON THE RECOMBINANT DNA ADVISORY COMMITTEE, WE
15 SAW CONSENT FORM AFTER CONSENT FORM THAT REALLY
16 TALKED ABOUT PHASE I DOSE FINDING STUDIES AS CURES,
17 AS TREATMENT, WHEN REALLY THE GOAL WAS TO ASSESS
18 DOSAGE AND TOLERABILITY.

19 NOW, YOU CAN EXCLUDE THE POSSIBILITY THAT
20 THERE THEY MAY BE A THERAPY, BUT I THINK YOU DON'T
21 WANT TO OVERSELL THAT. SO I THINK CRAFTING THAT,
22 AND I THINK THIS -- TO GO BACK TO WHAT A NUMBER OF
23 YOU SAID BEFORE, I THINK IT WOULD REALLY BE
24 WONDERFUL TO SORT OF HAVE A LOT OF PATIENT AND
25 ADVOCACY GROUP DISCUSSIONS. THIS IS WHAT WE'RE

BARRISTERS' REPORTING SERVICE

1 TRYING TO COMMUNICATE. IF WE SAY IT THIS WAY, DOES
2 THAT MESSAGE GET ACROSS? WELL, IT MAY GET ACROSS TO
3 ME, BUT IT WOULDN'T GET ACROSS TO PEOPLE LIKE THIS
4 OTHER PERSON IN MY GROUP. BECAUSE I THINK FOR US TO
5 SIT AROUND AND TRY -- I THINK WE'RE CLEAR ON WHAT
6 WE'RE TRYING TO DO. I THINK ONE OF THE THINGS I'M
7 HEARING IS TO MAKE IT ACTUALLY WORK IN PRACTICE, WE
8 HAVE TO REALLY DO SOME EMPIRICAL WORK.

9 DR. TROUNSON: SO, BERNIE, I THINK FOR THE
10 POINT OF VIEW OF CELL THERAPIES, IT'S MOST UNLIKELY
11 THESE CELLS WOULD BE APPROPRIATE UNDER FDA. SO WE
12 WOULD PROBABLY WANT TO DERIVE CELLS IN A VERY
13 SPECIAL WAY. AND I THINK GOING FORWARD THERE WILL
14 BE DEVELOPMENTS THAT WILL GO BEYOND THIS RESEARCH IN
15 THE WAY YOU NEED TO DERIVE CELLS. THEY PROBABLY
16 HAVE TO COME FROM A SPECIAL SOURCE, AND THEY HAVE TO
17 DEMONSTRATE THAT THEY'RE NOT -- THEY DON'T HAVE
18 MAJOR MUTATIONS THAT YOU MIGHT GET IN SKIN CELLS ON
19 THE SURFACE AND SO ON. SO I THINK IT'S MOST
20 UNLIKELY THESE CELLS WOULD BE APPROPRIATE FOR CELL
21 THERAPIES. AND THEY WOULDN'T BE DERIVED IN A WAY
22 WHICH WOULD BE CONSISTENT WITH THE WAY THE FDA WOULD
23 REALLY WANT THEM TO BE USED.

24 CHAIRMAN LO: BECAUSE THEY'RE NOT GMP
25 QUALITY LINES.

BARRISTERS' REPORTING SERVICE

1 DR. TROUNSON: RIGHT.

2 DR. LOCKHART: I WOULD JUST REALLY ECHO A
3 LOT OF WHAT YOU JUST SAID, BERNIE. I THINK YOU'RE
4 GOING TO HAVE TO WALK A VERY FINE LINE AND TRY TO
5 AVOID THERAPEUTIC MISCONCEPTION, THAT PEOPLE WILL BE
6 PARTICIPATING BECAUSE THEY THINK THAT THIS MORE
7 REMOTE CHANCE -- THAT BASICALLY THEIR DONATION WILL
8 HELP THEM IN THE FUTURE. AND SO I AGREE THIS IS
9 GOING TO NEED TO BE A VERY CAREFULLY THOUGHT OUT
10 DESCRIPTION OF HOW THEIR CELLS MAY BE USED AND WHAT
11 BENEFIT THAT WILL BE TO THEM OR OTHERS WITH THEIR
12 DISEASE.

13 I WOULD ALSO ECHO THAT I THINK THIS MIGHT
14 BE AN INSTANCE WHERE FIELD TESTING THESE CONSENT
15 DOCUMENTS IN SOME WAY WILL HELP YOU GET A FEEL FOR
16 ARE THOSE FINE POINTS UNDERSTOOD, OR DO PATIENTS OR
17 ADVOCATES WHO READ THE FORM THINK, OH, NO. THIS IS
18 ABSOLUTELY GOING TO HELP ME, AND THIS IS GOING TO BE
19 MY CURE. AND IF I JUST WAIT A YEAR, THE CELLS WILL
20 BE READY. I THINK THEY CAN PROVIDE A LOT OF REALLY
21 IMPORTANT INPUT.

22 TO ONE OF DOROTHY'S EARLIER POINTS ABOUT
23 RECRUITMENT BY DISEASE, I THINK SOMETHING THAT NEEDS
24 TO BE THOUGHT OUT IN PARTICULAR HERE IS YOU DON'T
25 RUN THE RISK OF DEPLETION LIKE YOU DO WITH

BARRISTERS' REPORTING SERVICE

1 BIOSPECIMENS, THE CELLS WILL SELF-REPLICATE, YOU
2 ALSO HAVE THE ABILITY TO STUDY A WIDE RANGE OF
3 THINGS, AND THAT WILL BE IMPORTANT FOR PATIENTS TO
4 UNDERSTAND, THAT THERE MIGHT BE OTHER KINDS OF
5 OBJECTIONABLE TO INDIVIDUAL TYPES OF RESEARCH THAT A
6 PATIENT MAY NOT ANTICIPATE.

7 SO MAYBE SOMEONE WILL WANT TO TAKE THE
8 CELLS, DERIVE THEM INTO NEURONS, AND STUDY MENTAL
9 HEALTH DISORDERS. THE PATIENT WOULD NEVER THINK OF
10 THAT NECESSARILY IF THEY'RE A HEART DISEASE PATIENT
11 OR SOMETHING. THEY DON'T HAVE ANY KIND OF BRAIN
12 CONDITION. THEY MAYBE WOULDN'T EVEN THINK ABOUT
13 THAT POTENTIAL USE. SO JUST LETTING PEOPLE KNOW
14 THAT THERE'S A WIDE, WIDE RANGE OF POTENTIAL USES.
15 THEIR OBJECTION MAY NOT BE THAT IT WOULD HARM OR
16 TAKE AWAY FROM OR DETRACT RESEARCH IN THEIR OWN
17 DISEASE TYPE, BUT MORE THAT THERE'S A VERY BROAD
18 POSSIBILITY OF USES THAT COULD HAPPEN.

19 DR. KIESSLING: I'D LIKE TO MAKE A
20 SUGGESTION THAT WE GO ABOUT THIS A SLIGHTLY
21 DIFFERENT WAY. BECAUSE I THINK WHAT WE NEED TO DO
22 FOR THESE LONG-TERM LINES AND FOR THE BANK THAT
23 YOU'RE TRYING TO DEVELOP IS UNDERSTAND THAT
24 CONSENTING SOMEBODY TO DONATE TISSUE IS A PROCESS.
25 IT'S NOT A DOCUMENT. IT'S NOT LANGUAGE IN A PIECE

BARRISTERS' REPORTING SERVICE

1 OF PAPER. IT'S A PROCESS. AND I THINK IF WE
2 RECOGNIZE THAT THE PROCESS FOR RECRUITING NORMAL
3 HUMAN SUBJECTS INTO A WELL-DEFINED RESEARCH PROTOCOL
4 IS VERY DIFFERENT OR MAY BE VERY DIFFERENT FROM
5 INTERACTING WITH A GROUP PEOPLE WHO ARE SICK AND WHO
6 HAVE A DISEASE CONDITION THAT THEY'RE TRYING TO DEAL
7 WITH.

8 I DON'T THINK YOU WANT THE PROCESS TO BE
9 DIFFERENT, BUT I THINK YOU NEED TO REALIZE THAT
10 PEOPLE'S RESPONSES TO WHAT YOU ARE DOING IS
11 DIFFERENT IF YOU ARE A NORMAL HEALTHY SUBJECT VERSUS
12 HAVING SOME TERRIBLE DISEASE. I THINK WE NEED TO
13 COME UP WITH STEPS IN A PROCESS, WHAT'S GOING TO BE
14 STEP ONE, UNDERSTANDING THAT SOME PEOPLE ARE GOING
15 TO BE NORMAL AND SOME PEOPLE ARE GOING TO BE
16 DISEASED, AND THEN WHAT IS STEP TWO.

17 AND I KIND OF WANT TO CLARIFY THE THOUGHT
18 I HAD ABOUT THE PSYCHOLOGICAL ASSESSMENT BECAUSE THE
19 ONLY WAY TO UNDERSTAND THAT SOMEBODY REALLY
20 UNDERSTANDS THE PROCESS IS TO HAVE SOMEBODY WHO'S
21 NOT AN INTIMATE PART OF THE RESEARCH TEAM TALK TO
22 THIS PERSON FOR A FEW MINUTES. IS THIS PERSON
23 DONATING TISSUES BECAUSE THEY THINK IT'S THE ONLY
24 WAY THEY'RE GOING TO GET CARE. THERE'S SOME VERY
25 SCARY THINGS ABOUT SAYING NO TO A RESEARCHER WHO

BARRISTERS' REPORTING SERVICE

1 WANTS TO STUDY YOUR DISEASE. SO THE ONLY WAY TO
2 REALLY ASSESS THAT IS TO HAVE SOMEONE WHO IS
3 PSYCHOLOGICALLY TRAINED WHO'S NOT PART OF THE TEAM
4 TALK TO THIS PERSON, MAKE SURE THAT THEIR MOTIVES,
5 THAT THEY UNDERSTAND THEIR MOTIVES, AND THAT THEY
6 UNDERSTAND WHAT THEY'RE DOING.

7 BUT I THINK WHAT WE WANT TO DO HERE IS
8 WHAT IS STEP ONE OF THE PROCESS OF ORGANIZING
9 TISSUES FOR THIS BANK?

10 CHAIRMAN LO: I HEARD THAT ONE STEP PEOPLE
11 SAID IS TO GATHER EMPIRICAL INFORMATION ON WHAT'S
12 IMPORTANT TO PEOPLE. AND THAT INCLUDES, TO ME, I
13 WOULD SUGGEST, BOTH WHAT'S ALREADY BEEN PUBLISHED
14 BECAUSE PEOPLE HAVE DONE A LOT OF THIS, AND
15 OPPORTUNITIES TO ACTUALLY ASK MORE DIRECTED
16 QUESTIONS WITH REGARD TO IPS RESEARCH.

17 WE HAVE A LIST OF -- THERE'S ALWAYS THIS
18 INTERACTION. YOU SORT OF DON'T GO WITH A TOTALLY
19 BLANK SLATE. YOU WANT TO HEAR WHAT PEOPLE ARE
20 CONCERNED ABOUT AFTER THEY UNDERSTOOD WHAT THE
21 ENDEAVOR IS ALL ABOUT. YOU ALSO HAVE IDEAS, ISSUES
22 THAT HAVE POPPED UP WITH OTHER BIOBANKS WITH OTHER
23 RESEARCH AND IN THE LITERATURE. AND SOME OF THOSE
24 INCLUDE RECONTACT, STUDY OTHER DISEASES NOT JUST
25 YOUR OWN, WHOLE GENOME SEQUENCING, AND WE'LL GET TO

BARRISTERS' REPORTING SERVICE

1 SOME OTHERS LATER IN THE DISCUSSION.

2 SO I THINK AM I HEARING THAT THE
3 SUGGESTION SO FAR IS TO TRY AND IDENTIFY ON AN
4 EMPIRICAL BASIS HOW IMPORTANT THESE ISSUES ARE
5 LIKELY TO BE IN THIS IPSC CONTEXT. AND ALSO WHAT IS
6 KNOWN ABOUT WAYS OF PRESENTING INFORMATION AND
7 OPTIONS THAT WORKS AND DOESN'T?

8 DR. FEIGAL: I JUST WANT THE GROUP TO
9 THINK OF SOME OF THE BIG ISSUES THAT WE'RE GRAPPLING
10 WITH. WE ARE GOING TO HAVE THE OPPORTUNITY IN THE
11 VERY NEAR TERM IF WE -- FOR EXAMPLE, THE CIRM IS
12 PUTTING TOGETHER THE CONCEPT FOR THIS LARGE BANK
13 IDEA. BUT IN JUNE WE'RE GOING TO HAVE THE WINDOW OF
14 OPPORTUNITY IN WORKING WITH NINDS IF THE ICOC
15 APPROVES US MOVING FORWARD. SO COMING VERY QUICKLY
16 WE'RE GOING TO HAVE AN OPPORTUNITY TO WORK ON THIS
17 IPS CELL REPOSITORY IDEA. AND SO PART OF IT IS TO
18 GET OUR THOUGHTS CRYSTALLIZED, MAY NOT BE PERFECT,
19 BUT THINK ABOUT WHAT ARE THE BIG ISSUES THAT WE WANT
20 TO ASK BECAUSE YOU'RE TALKING ABOUT, JEFF, GOING
21 BACK AND GETTING QUANTITATIVE AND QUANTITATIVE
22 INFORMATION FROM PEOPLE WHO HAVE ALREADY DONATED.

23 I'M SORT OF QUESTIONING DO WE NEED CONSENT
24 TO DO THAT. BUT THE BIGGER ISSUE IS WHAT QUESTIONS
25 DO WE WANT TO ASK THEM? THEY'VE ALL RECEIVED

BARRISTERS' REPORTING SERVICE

1 PROBABLY A VARIETY OF DIFFERENT TYPES OF CONSENT
2 FORMS. SO I THINK THE METHODOLOGY IN TERMS OF WHAT
3 IS IT WE WANT TO ASK THEM IS GOING TO BE IMPORTANT,
4 AND IT PROBABLY DEPENDS ON WHAT PROCESS THEY WENT
5 THROUGH IN TERMS OF HOW THEY'RE GOING TO RESPOND TO
6 OUR QUESTIONS.

7 I JUST THINK WE NEED TO -- WE'RE GOING TO
8 HAVE SOME NEAR TERM OPPORTUNITIES. SO ON A
9 PRAGMATIC BASIS, NICOLE GAVE A VERY, I THINK,
10 ARTICULATE DESCRIPTION OF EXPERIENCE WITH
11 BIOSPECIMENS IN A RANGE OF THINGS, NOT SPECIFICALLY
12 IPS. HARDER IS THIS THING, ARE THERE THINGS WE HAVE
13 LEARNED ABOUT HOW THINGS HAVE BEEN DONE BEFORE, AND
14 IS THERE SOMETHING VERY UNIQUE ABOUT THE IPS
15 REPOSITORY THAT WILL REQUIRE SOME TAILORED TYPE OF
16 CONSENT? BECAUSE I THINK AT THE END OF THE DAY, WE
17 ALL WANT INFORMED CONSENT TO BE DIFFERENT. WE ALL
18 SEE THAT THERE'S PROBLEMS WITH THE WAY IT'S DONE
19 RIGHT NOW.

20 BUT I'M TRYING TO THINK PRAGMATICALLY IN
21 TERMS OF IN A COUPLE OF MONTHS, WE'RE GOING TO HAVE
22 AN OPPORTUNITY TO MOVE FORWARD. WHAT DOES THIS
23 GROUP THINK IS THE RIGHT WAY TO CRYSTALLIZE THEIR
24 THOUGHTS AROUND THE ISSUE?

25 CHAIRMAN LO: AGAIN, I THINK SOME OF IT IS

BARRISTERS' REPORTING SERVICE

1 SCOPE. I THINK THAT THIS PANEL PROBABLY IS BEST
2 SUITED TO THINK ABOUT IPSC REPOSITORIES RATHER THAN
3 REPOSITORIES IN GENERAL. AS I'VE HEARD THE
4 DISCUSSION TODAY, A LOT OF WHAT WE'RE SAYING IS
5 NEGATIVE, THAT WE THINK A LOT OF CONSENT NOW IS JUST
6 BEING OFFERED A CONSENT FORM, NOT REALLY
7 UNDERSTANDING, NOT HAVING A CHANCE TO HAVE IT
8 EXPLAINED TO YOU, AND THAT WE THINK WHAT IS KNOWN
9 ABOUT OR WHAT IS EASILY KNOWABLE. WELL, WHAT'S
10 IMPORTANT TO PEOPLE SHOULD DRIVE REDESIGN OF THE
11 CONSENT PROCESS.

12 IT STRIKES ME IF WE'VE HAD PROBLEMS ON
13 THIS BOARD UNDERSTANDING SOME OF THE ISSUES, WE
14 OUGHT TO AT LEAST SUGGEST THAT MAYBE THIS IS
15 SOMETHING THAT DESERVES SPECIAL ATTENTION. SO THE
16 PURPOSE OF THE IPSC DERIVATION AND THE BANKING, THE
17 ISSUE OF DONORS' UNDERSTANDING OF BOTH THE BENEFIT
18 OF ALLOWING YOUR RESEARCH TO BE -- YOUR CELLS TO BE
19 USED FOR OTHER TYPES OF RESEARCH RATHER THAN JUST
20 RESTRICTING IT. WE HAVEN'T YET TALKED A WHOLE LOT
21 ABOUT WHOLE GENOME SEQUENCING, BUT I KNOW NIH AND
22 OTHERS ARE STRUGGLING WITH WHAT IS APPROPRIATE
23 CONSENT FOR WHOLE GENOME SEQUENCING WHERE YOU GET
24 EVERY BASE PAIR IN YOUR BODY VERSUS GENOMEWIDE
25 ASSOCIATION STUDIES WHERE YOU GET 500,000 SNPS

BARRISTERS' REPORTING SERVICE

1 VERSUS TARGETED GENETIC SEQUENCING OF AN AREA OF
2 INTEREST OR LOOKING FOR A SPECIFIC GENE.

3 BECAUSE I THINK THE CONCERN IS THAT THE
4 WHOLE GENOME SEQUENCING RENDERS THAT SAMPLE
5 IDENTIFIABLE, AT LEAST IN THEORY, IN A WAY THAT
6 THOSE OTHER TYPES OF ANALYSIS MAY NOT. SO THE WHOLE
7 REGULATORY EDIFICE OF DEIDENTIFIED SAMPLES BEING
8 SINGLED OUT UNDER THE COMMON RULE MAY COLLAPSE IF
9 WHOLE GENOME SEQUENCING RENDERS AN ANONYMIZED SAMPLE
10 IDENTIFIABLE.

11 AND THEN I THINK THIS RECONTACT ISSUE, AND
12 I THINK THE OTHER THING IS ALLOWING FOR, WHAT I'VE
13 HEARD, ALLOWING FOR THE VARIATION IN PEOPLE'S BOTH
14 DESIRE TO HAVE INFORMATION AND THE DEGREE OF
15 INTERACTION THEY WANT.

16 DR. TROUNSON: WE'RE ENTERING A TOTALLY
17 NEW AGE OF COMMUNICATION. AND I WONDER IF WE OUGHT
18 TO THINK ABOUT THAT A LITTLE MORE. I LIKE THE IDEA
19 THAT PATRICK BROUGHT UP, THAT YOU HAVE CHOICES.
20 WE'RE IN A TIME WHERE THIS COULD BE IN REAL-TIME.
21 IF THERE WAS SOME NEW DEVELOPMENT WHERE YOU THOUGHT
22 MAYBE YOUR CELLS COULD BE USEFUL, WHY WOULDN'T YOU
23 WANT TO NECESSARILY BE ABLE TO CHANGE IT? THESE
24 DAYS THESE COMMUNICATION SYSTEMS ALLOW YOU TO DO
25 THAT, AND MAYBE YOU OUGHT TO BE CONTACTED ON A

BARRISTERS' REPORTING SERVICE

1 REGULAR BASIS TO GET THE FEEL FOR WHAT'S HAPPENING
2 WITH YOUR MATERIAL.

3 IT'S NOT THAT DIFFICULT. THESE
4 COMMUNICATIONS CAN HAPPEN RELATIVELY EASILY, AND
5 MAYBE THEY SHOULD BE PART OF THE STRUCTURE OF THE
6 BANK, THAT IT DOES DO THE VERY BEST IT CAN TO KEEP
7 IN TOUCH WITH PEOPLE AND ALLOW PEOPLE TO SORT OF PUT
8 COMMENTS IN A WAY INTO THEIR FILE THAT COULD BE
9 ACTUALLY CHANGED IN TIME. BECAUSE WE'RE IN A TIME
10 THAT CHANGE IS HAPPENING SO RAPIDLY, AND IT'S
11 TOTALLY UNPREDICTABLE WHERE THINGS MIGHT GO, SO YOU
12 MAY CHANGE YOUR MIND AND YOU MAY FEEL THAT YOU WANT
13 TO HAVE MUCH MORE INFORMATION WHERE YOU DIDN'T WANT
14 BEFORE AND SO ON. WHY NOT HAVE THAT IN THIS DAY AND
15 AGE? WHY NOT GIVE PEOPLE THAT OPPORTUNITY IN
16 REAL-TIME TO BE MORE ENGAGED? IF THEY DON'T WANT TO
17 BE, THEN THAT'S FINE. IF THEY DO, THEN I THINK
18 THERE'S SOME MERIT IN THINKING ABOUT IT.

19 DR. PATRICK TAYLOR: I JUST WANT TO SAY I
20 THINK THAT'S A GREAT COMMENT. IT JUST OCCURRED TO
21 ME WE ALL REALIZE THAT ON A BASIC HUMAN LEVEL, WE
22 HAVE TO WORK WITH RELATIONSHIPS AND MAKE THEM
23 TRUSTING ONES. SOMETIMES WE SORT OF FORGET THAT,
24 AND IT'S EASY TO THINK THAT MAYBE PEOPLE WHO JUST
25 GIVE THEIR SAMPLES DON'T REQUIRE THAT INVESTMENT.

BARRISTERS' REPORTING SERVICE

1 SO I THINK YOU'VE JUST EXPRESSED IN VERY PRACTICAL,
2 SIMPLE, CONCRETE, DOABLE TERMS HOW TO MAINTAIN A
3 RELATIONSHIP WITH DONORS IN A WAY THAT WOULD
4 PROBABLY MAKE CIRM A COMPLETE LEADER.

5 CHAIRMAN LO: OFFER TO MAINTAIN A
6 RELATIONSHIP WITH THOSE DONORS.

7 DR. PATRICK TAYLOR: VERY SIMPLE.

8 DR. LOCKHART: I DON'T KNOW IF YOU'RE
9 GOING TO HAVE AN ANSWER FOR THIS. I DON'T KNOW HOW
10 FAR YOU ARE IN YOUR PLANNING. DOES CIRM PLAN ON
11 HOLDING IDENTIFIERS FOR THESE PATIENTS?

12 DR. LOMAX: CIRM WOULDN'T NECESSARILY BE
13 THE ENTITY THAT WOULD EVEN BE EQUIPPED. WE DON'T
14 HAVE THE ABILITY TO BE A -- WHAT WOULD BE REQUIRED,
15 WE WOULDN'T DO THAT. IT WOULD BE A DELEGATED
16 AUTHORITY.

17 CHAIRMAN LO: AS YOU KNOW, THERE ARE A LOT
18 OF MODELS IN BIOBANKS WHERE THE BIOBANK ITSELF IS,
19 WHATEVER YOU WANT TO CALL IT, THE TRUSTED
20 INTERMEDIARY, THE GUARDIAN, THE STEWARD WHERE THEY
21 HAVE ACCESS, THE BIOBANK HAS ACCESS TO THE
22 IDENTIFIERS. SO, FOR EXAMPLE, THEY CAN MATCH NEW
23 CLINICAL DATA AND NEW FINDINGS FROM ONE RESEARCH LAB
24 AND ANNOTATE THE LINE. BUT THEY PRESUMABLY WOULD BE
25 GIVING OUT THOSE LINES IN A DEIDENTIFIED FORMAT IN

BARRISTERS' REPORTING SERVICE

1 THE OLD HIPAA SENSE TO RESEARCHERS.

2 NOW, CHRIS RAISED THE QUESTION OF HOW
3 ABOUT INDIVIDUAL DONORS WHO WANT TO BE IDENTIFIED TO
4 EVERYBODY? SHOULD WE OFFER THAT OPTION? BUT BY AND
5 LARGE THE IDEA HAS BEEN, PARTLY BECAUSE IT JUST
6 MAKES EASIER TO DO THE RESEARCH, THAT THE EXTENT
7 THAT IRB'S AND HIPAA PRIVACY BOARDS ARE FOLLOWING A
8 DEFINITION OF AN OVERSIGHT FRAMEWORK THAT ALLOWS
9 DEIDENTIFIED RESEARCH TO BE APPROVED MUCH FASTER.
10 THERE ARE ADVANTAGES IN TERMS OF NOT HOLDING BACK
11 RESEARCH TO NOT GIVING RESEARCHERS IDENTIFIABLE
12 INFORMATION BECAUSE THEN EACH IRB HAS TO REVIEW IT
13 AS A FULL PROPOSAL.

14 DR. LOCKHART: SO MY POINT HERE WAS THAT,
15 TO ALAN'S POINT, IF YOU ARE GOING TO DO THAT LEVEL
16 OF CONTACT AND RETURN OF INFORMATION AND HAVE A MUCH
17 MORE INTERACTIVE PROCESS, THEN THE BANK MAYBE WOULD
18 NEED TO HAVE ACCESS TO IDENTIFIERS, WHICH A LOT OF
19 BANKS DON'T OR THEY DON'T WANT THEM BECAUSE THEY
20 DON'T WANT THAT REGULATORY BURDEN. AND IT'S VERY
21 MUCH SOMETHING YOU ARE GOING TO HAVE TO THINK ABOUT
22 HOW IS IT GOING TO BE RUN. IT HAS TO BE IN THE
23 BUDGET. JUST REALLY LOGISTICAL OPERATIONAL THINGS
24 BECAUSE IT IS A NEW MODEL. I WOULD RECOMMEND YOU
25 LOOK AT OR TALK TO ISAAC KOHANE OUT OF MIT.

BARRISTERS' REPORTING SERVICE

1 CHAIRMAN LO: BETH ISRAEL CHILDREN'S.

2 DR. PATRICK TAYLOR: I'M A COAUTHOR ON
3 THOSE PAPERS. ACTUALLY YOU DON'T NEED IDENTIFIERS;
4 YOU NEED LINKS. UNDER ONE OF OUR MODELS WE ACTUALLY
5 USED DNA TO TELL US THE LINK.

6 CHAIRMAN LO: BUT YOU NEED HIGH SECURITY.
7 SO WE ARE -- WE'VE SPENT A VERY LIVELY AND, I THINK,
8 HELPFUL, PRODUCTIVE MORNING. LUNCH IS SCHEDULED
9 LIKE ALMOST RIGHT NOW IN A COUPLE OF MINUTES. BUT
10 WE SHOULD PAUSE FOR A MINUTE AND ASK FOR PUBLIC
11 COMMENT FROM THE PEOPLE WHO HAVE BEEN IN THE
12 AUDIENCE, WHETHER ANY OF YOU WOULD LIKE TO MAKE A
13 PUBLIC COMMENT. STEVE. AND FOR THE PURPOSE, OF THE
14 RECORD, JUST IDENTIFY YOURSELF.

15 DR. PECKMAN: I'M STEVE PECKMAN FROM UCLA.
16 AND I REALLY APPRECIATE THIS VERY INTELLIGENT AND
17 DYNAMIC DISCUSSION. I'D LIKE TO START OFF WITH A
18 QUESTION TO THE GROUP THOUGH, WHICH IS A QUESTION
19 THAT SHOULD INFORM AND BE IN THE BACKGROUND OF
20 EVERYTHING THAT'S DISCUSSED ABOUT THIS TOPIC, WHICH
21 IS WHAT MAKES AN IPSC BANK DIFFERENT THAN ANY OTHER
22 TISSUE BANK, OR ARE WE ENGAGED IN STEM CELL
23 EXCEPTIONALISM AGAIN? WHICH IS SOMETHING THAT THIS
24 GROUP AND THAT CIRM AS AN ENTITY HAS TRIED TO AVOID.
25 AND THAT IF THERE IS NO DIFFERENCE, THEN

BARRISTERS' REPORTING SERVICE

1 IS THERE A REASON TO GO BACK AND REHASH THE
2 REQUIREMENTS FOR INFORMED CONSENT AND REGULATORY
3 OVERSIGHT OVER THIS TYPE OF BANK AS OPPOSED TO ANY
4 OTHER BANK? SO I THINK THAT SHOULD BE A FUNDAMENTAL
5 QUESTION THAT CONSTANTLY INFORMS YOUR DISCUSSION AND
6 ANY IDEAS FOR IMPLEMENTING GUIDANCE OR REGULATION.

7 I THINK IT'S VERY IMPORTANT THAT IF WE
8 WANT TO HAVE EVIDENCE-BASED RESEARCH, THAT IT NEEDS
9 TO BE GUIDED BY EVIDENCE-BASED POLICY. AND SO I
10 WOULD TOTALLY ENDORSE THE IDEA OF A LITERATURE
11 REVIEW OF THE POLICYMAKING THAT HAS GONE ON BEFORE
12 AND THE RESEARCH ON DONORS THAT HAS GONE ON BEFORE
13 WHICH, AS BERNIE SAID, IS QUITE EXTENSIVE IN THE
14 LITERATURE AND LET THAT INFORM YOUR DISCUSSION
15 MOVING FORWARD.

16 I THINK IT'S ALSO IMPORTANT TO UNDERSTAND
17 AND TO KEEP IN THE FOREFRONT OF YOUR MIND WILL YOU
18 BE CREATING GUIDANCE OR RULES FOR THE CREATION --
19 FOR THE DONATION OF PRIMARY CELLS THAT WOULD BE USED
20 TO CREATE IPS CELLS THAT OBSTRUCTS THE DONOR AND
21 OBSTRUCTS RESEARCH? THAT IS NOT CONSISTENT WITH OUR
22 CURRENT STANDARDS AND WITH THE STANDARDS THAT HAVE
23 BEEN DEVELOPED OVER TIME TO PROTECT THE RIGHTS AND
24 WELFARE OF DONORS NO MATTER HOW IMPERFECT THOSE MAY
25 BE.

BARRISTERS' REPORTING SERVICE

1 ANOTHER POINT I THINK THAT NEEDS TO BE
2 THOUGHT THROUGH AND NEEDS TO BE THOUGHTFUL IS THAT
3 IN THE SCOPE OF THE PROPOSED CIRM BANK, NOT ALL
4 DONORS ARE PATIENTS. THERE'S A WHOLE CATEGORY OF
5 CONTROLLED DONORS THAT ARE GOING TO BE INVOLVED THAT
6 WILL NOT HAVE A DISEASE THAT THEY KNOW ABOUT OR ANY
7 DISEASE AT ALL. AND THERE MAY BE DIFFERENT ISSUES
8 IMPACTING THEIR DONATION AS SOMEONE WHO HAS A
9 DISEASE.

10 AND FINALLY, I'D LIKE TO TOUCH ON A POINT
11 THAT'S GOING TO BE VERY COMPLICATED AND SHOULD NOT
12 BE OVERSIMPLIFIED, HAS TRIED TO BE TACKLED BY MANY
13 COMMITTEES, INCLUDING THE NATIONAL BIOETHICS
14 ADVISORY COMMISSION THAT BERNIE WAS A VERY IMPORTANT
15 MEMBER OF, WHICH IS WHAT TO DO WITH RESEARCH
16 FINDINGS. I WANT TO REMIND YOU ALL, BECAUSE I KNOW
17 YOU'RE ALL VERY KNOWLEDGEABLE ABOUT THIS, THAT
18 RESEARCH DATA ARE NOT CLINICAL DATA. THERE'S A
19 REASON WHY IT'S RESEARCH DATA. WE DON'T KNOW WHAT
20 IT MEANS. AND TO SAY THAT WE HAVE AN OBLIGATION TO
21 PROVIDE PATIENTS OR CONTROLLED DONORS WITH DATA THAT
22 WE CAN'T CONFIRM, THAT WE DO NOT UNDERSTAND, AND WE
23 DON'T KNOW THE IMPLICATIONS OF CAN CREATE FAR
24 GREATER RISKS THAN NOT GIVING THEM THE DATA.

25 AND THIS IS A VERY SERIOUS ETHICAL ISSUE,

BARRISTERS' REPORTING SERVICE

1 THAT IF YOU ARE GOING TO THINK ABOUT REVISING
2 BANKING AND DISTRIBUTING GUIDELINES AND REGULATIONS
3 THAT IS FUNDAMENTAL, AND I'LL GIVE YOU AN EXAMPLE.
4 WHEN THE BRCA1 GENE WAS FIRST DISCOVERED, THERE WAS
5 GREAT FEAR AMONG WOMEN, ESPECIALLY ASHKENAZI JEWS
6 FOR WHICH THE ORIGINAL GENETIC IDEAS WERE -- DONOR
7 CELLS CAME FROM, OF PREDISPOSITION TO BREAST CANCER.
8 NOW, THERE ARE A COUPLE OF WAYS TO TRY TO ADDRESS A
9 PREDISPOSITION TO BREAST CANCER, AND ONE IS
10 PROPHYLACTIC MASTECTOMY AND THE OTHER IS
11 PROPHYLACTIC CHEMOTHERAPY.

12 I CAN TELL YOU THAT AS A MEMBER OF AN IRB
13 AT THE TIME THAT WE SAW MANY RESEARCH PROJECTS UPON
14 THE FIRST PUBLICATION OF THE IDENTIFICATION OF THE
15 BRCA1 GENE TO GO INTO BREAST CANCER COMMUNITIES AND
16 START TO GET WOMEN TO ENROLL IN RESEARCH THAT
17 OFFERED THEM THE OPTION OF PROPHYLACTIC MASTECTOMY.

18 WHAT A LOT OF PEOPLE HAVE FORGOTTEN IS
19 THAT THERE'S A LOT OF FALSE POSITIVE AND FALSE
20 NEGATIVE IN THESE GENETIC TESTINGS. DO WE WANT
21 WOMEN TO BE CARVING UP THEIR BODIES BASED ON AN
22 UNCONFIRMED GENETIC ANALYSIS OF A POTENTIAL DISEASE
23 THAT THEY MAY NOT EVER GET? AND SO WHEN WE TALK
24 ABOUT A RIGHT OF A PATIENT TO DATA, I THINK WE NEED
25 TO BE CONCERNED AS PEOPLE WHO ARE INTERESTED IN

BARRISTERS' REPORTING SERVICE

1 ETHICS AND MAKING RULES THAT WE IDENTIFY WHAT THOSE
2 DATA ARE AND THAT WE'RE VERY SENSITIVE TO THE LEVEL
3 OF DATA THAT CAN CAUSE HARM TO A PERSON WITHOUT ANY
4 POTENTIAL BENEFIT GIVEN TO THEM OUT OF CONTEXT AND
5 WITHOUT CONFIRMATION.

6 SO I STRONGLY URGE YOU TO CONSIDER TWO
7 CONCEPTS. THE CLINICAL VALIDITY OF THE DATA AND THE
8 CLINICAL UTILITY OF THE DATA BEFORE WE START
9 MANDATING RETURN OF UNCONFIRMED RESEARCH RESULTS,
10 THESE ARE NOT CLINICALLY VALIDATED DATA, TO PEOPLE
11 WHO ARE GRAPPLING WITH DISEASE EITHER INDIVIDUALLY
12 OR WITHIN THEIR FAMILIES. THANK YOU.

13 CHAIRMAN LO: THANKS, STEVE. ANY OTHER
14 COMMENTS FROM MEMBERS OF THE PUBLIC? DO WE KNOW
15 THAT LUNCH IS ACTUALLY HERE? SO I'M GOING TO LET US
16 GO TO LUNCH BECAUSE WE DESERVE IT. WE NEED A BREAK
17 AFTER THIS VERY LIVELY MORNING.

18 I WANT TO SORT OF JUST ANTICIPATE, PUT IN
19 YOUR SORT OF SUBCONSCIOUS WHILE YOU'RE EATING, TWO
20 ISSUES THAT WE HAVEN'T DEALT WITH OR SEVERAL ISSUES.
21 ONE IS THE ISSUE OF RECONSENT FROM CHILDREN WHOSE
22 SPECIMENS WERE OBTAINED UNDER PARENTAL PERMISSION
23 WHO NOW ARE TURNING 18, ISSUE OF TRYING TO RECONTACT
24 THEM AND CONSENT THEM.

25 SECOND ISSUE, STEVE RAISED THE QUESTION OF

BARRISTERS' REPORTING SERVICE

1 WHAT'S DIFFERENT ABOUT STEM CELL RESEARCH. ANOTHER
2 ISSUE IS WHAT'S DIFFERENT ABOUT WHOLE GENOME
3 SEQUENCING AND SHOULD THAT BE HIGHLIGHTED AS
4 SOMETHING TO REALLY CONSIDER HAVING AN EXTENSIVE
5 DISCUSSION.

6 FINALLY, I WANT TO POSE A QUESTION. IF
7 WE'RE STUDYING DISEASES AND WE'RE ASKING FOR FIVE
8 DONORS TO DONATE MATERIALS FOR CELLS, DONATING FOR
9 IPS RESEARCH, UNLESS IT'S AN EXTREMELY, EXTREMELY
10 RARE DISEASE, THERE WILL BE A LOT MORE DONORS FOR
11 IPS DERIVATION THAN FOR HUMAN EMBRYONIC STEM CELL
12 DERIVATION, AND CERTAINLY THAN WOMEN DONATING
13 OOCYTES FOR RESEARCH PURPOSES WITHOUT ANY
14 COMPENSATION BEYOND OUT-OF-POCKET EXPENSES. WHY NOT
15 SIMPLY ENCOURAGE RESEARCHERS TO SELECT DONORS WHO
16 ARE ELIGIBLE IN TERMS OF DISEASE OR CONTROL WHO
17 AGREE TO RESEARCH ON OTHER DISEASES AND CONDITIONS?
18 DOESN'T MEAN ALL RESEARCH, BUT WHO DON'T WANT TO
19 RESTRICT IT ONLY TO THEIR CONDITION OR TO THEIR
20 ORGAN SYSTEM. THAT WOULD MAXIMIZE THE SCIENTIFIC
21 USEFULNESS OF THE LINES, AND YOU WOULD STILL MAKE
22 SURE THAT THEY UNDERSTOOD WHAT THEIR SAMPLES MIGHT
23 BE USED FOR, HOW THEY WOULD BE SHARED, AND SO FORTH,
24 AND WHAT MIGHT BE OFFERED. THOSE ARE THINGS TO
25 THINK ABOUT.

BARRISTERS' REPORTING SERVICE

1 OTHERWISE, I THINK WE DESERVE A BREAK AND
2 LUNCH. THOSE OF YOU WHO WANT TO GO OUTSIDE, IT
3 TURNS OUT IF YOU GO BACK, THERE'S A SWIMMING POOL
4 WITH A LITTLE SORT OF OUTDOORS LOUNGE, WHICH IS A
5 LOT BETTER. THE OTHER PLACE THEY DIRECTED US TO IS
6 A SMOKING AREA RIGHT IN FRONT OF THE HOTEL ON
7 WILSHIRE AVENUE.

8 (A RECESS WAS TAKEN.)

9 CHAIRMAN LO: OKAY. WHY DON'T WE TRY AND
10 RECONVENE. WE HAVE A LOT OF OTHER THINGS WE WANTED
11 TO TALK ABOUT. I'M GOING TO SUGGEST THAT, BECAUSE
12 WE HAD FOUR BIG TOPICS OF WHICH CONSENT WAS ONLY
13 ONE, THAT WE NOT TRY AND RESOLVE EVERY ISSUE ABOUT
14 CONSENT. BUT LET ME TRY TO SUMMARIZE WHAT I HEARD
15 AND WHERE I THINK WE ACTUALLY HAVE A FAIR AMOUNT OF
16 AGREEMENT. THERE'S THINGS THAT WE'RE JUST GOING TO
17 HAVE TO CARRY OVER. AND I'M GOING TO, AS I ALWAYS
18 DO, RELY HEAVILY ON GEOFF TO KIND OF DO FOLLOW-UP
19 AND PUT THIS THING TO SPECIFIC LANGUAGE.

20 SO I THINK WE ALL AGREE THAT CONSENT, IT'S
21 NOT A DOCUMENT, IT'S NOT A SIGNATURE ON A FORM, BUT
22 WE NEED TO FOCUS ON WHAT PEOPLE, DONORS, NEED TO
23 KNOW TO MAKE INFORMED VOLUNTARY DECISIONS. I THINK
24 WE WANT TO MAKE THIS EVIDENCE BASED. I THINK
25 THERE'S A CLEAR IDEA THAT I'M GOING TO ASK GEOFF TO

BARRISTERS' REPORTING SERVICE

1 DO A CRITICAL LITERATURE REVIEW ON WHAT'S KNOWN
2 ABOUT WHAT DONORS THINK OF THE CONSENT PROCESS, WHAT
3 THEY WANT TO DISCUSS, WHAT THEY CARE ABOUT. AND WE
4 MAY WANT TO THINK OF DOING ADDITIONAL EMPIRICAL
5 STUDIES BASED ON THE CIRM EXPERIENCE WITH WHAT WE
6 FUNDED. I DON'T KNOW IF THAT'S FEASIBLE, THERE'S
7 FUNDING, AND SO FORTH.

8 MS. LANSING: JUST AS A CIRM MEMBER, SO MY
9 OPINION IS ON THE RECORD, I THINK THERE'S ENOUGH
10 LITERATURE OUT THERE FOR US TO GET THE INFORMATION
11 THAT WE NEED. THE BRCA GENE HAS TONS OF STUFF THAT
12 IT'S BEEN DOING ON A LOT OF THIS. I JUST DON'T
13 THINK WE HAVE THE MONEY, NOR SHOULD WE USE THE MONEY
14 TO DO MORE STUDIES. THAT'S JUST MY OPINION. I'M
15 NOT REPRESENTING CIRM.

16 CHAIRMAN LO: WE'LL PUT A QUESTION MARK.
17 AND WE WANT TO FOCUS ON GIVING DONORS OPTIONS
18 BECAUSE WE UNDERSTAND THERE'S GOING TO BE A RANGE OF
19 DESIRES, PREFERENCES, CHOICES THAT PEOPLE MAKE. SO
20 ON THE NEXT SLIDE, I JUST WANT TO REMIND US THAT
21 WE'VE ACTUALLY DONE A FAIR AMOUNT ON INFORMED
22 CONSENT. WE ACTUALLY HAVE REGULATIONS ON STANDARDS
23 OF CONSENT FOR DONORS WHO FOR FRESH PROCUREMENT, NEW
24 PROCUREMENT FOR IPSC, AND BASICALLY IT'S THEY HAVE
25 TO CONSENT SPECIFICALLY FOR THE DERIVATION. AND SO

BARRISTERS' REPORTING SERVICE

1 I GUESS IT WOULD BE CONSISTENT WITH THAT TO SAY THEY
2 SHOULD ALSO CONSENT FOR INCLUSION IN THE BANK.

3 AND WE ALSO HAVE STANDARDS FOR CONSENT FOR
4 DONORS THAT ALLOW USE OF DEIDENTIFYING EXISTING
5 MATERIALS TO DERIVE NEW IPS CELL LINES. ANN RAISED
6 AN INTERESTING POINT ABOUT SHOULD WE BE TRYING TO
7 EVALUATE WHAT DO THE DONORS COMPREHEND? WE HAVE A
8 PRECEDENT THAT IN OUR CONSENT FOR OOCYTE DONATION,
9 WHICH IS MUCH MORE COMPLICATED, MUCH MORE CONCERNS
10 ABOUT MISUNDERSTANDING, WE HAD SOME REQUIREMENT
11 THERE BE SOME ASSESSMENT, BUT NOT A PROSCRIPTIVE
12 ONE. SO THAT'S SOMETHING THAT'S A PRECEDENT.

13 SO IN THE NEXT SLIDE, REAL QUESTIONS, I
14 THINK WE HAVEN'T REALLY GOTTEN TO, BUT WHICH I THINK
15 WILL PERHAPS COME OF THE LITERATURE REVIEW, WHAT
16 TOPICS SHOULD BE ADDRESSED? WHAT OPTIONS SHOULD WE
17 OFFER DONORS? FIRST, IT SEEMS TO ME WE HAVE TO
18 EXPLAIN THE NATURE OF THE BIOBANK. WE PROBABLY
19 SHOULD EXPLAIN WHOLE GENOME SEQUENCING. I SHOULD
20 PUT IN THERE AND DIDN'T PERMISSION TO USE THE LINES
21 FOR RESEARCH ON OTHER CONDITIONS THAN THE ONE THEY
22 WERE ORIGINALLY RECRUITED OR SELECTED FOR. DO THEY
23 WANT AN ONGOING IDENTIFIED RELATIONSHIP WITH THE
24 RESEARCHER WHO DERIVED THE LINE OR THE BANK?

25 WE DID NOT DISCUSS RECONSENT FOR MINORS.

BARRISTERS' REPORTING SERVICE

1 I THINK IN THE INTEREST OF TIME, WE'LL HAVE TO TRY
2 AND COME BACK TO THAT LATER. AND RESULTS TO DONORS
3 WE ARE GOING TO GET TO A LITTLE BIT FURTHER DOWN THE
4 AGENDA.

5 SO I THINK WE ACTUALLY HAD A LOT OF
6 DISCUSSION. I THINK I'M GOING TO REALLY ASK GEOFF
7 TO WORK WITH US TO SORT OF DRAW TOGETHER A
8 LITERATURE REVIEW THAT LET'S US KNOW WHAT THE STATE
9 OF THE EMPIRICAL STUDIES ARE ON THE TYPES OF ISSUES
10 THAT SHOULD BE DISCUSSED.

11 MS. ISASI: AN ISSUE THAT WE HAVE NOT
12 ADDRESSED, YOU HAVE NOT ADDRESSED IS THE
13 INTERNATIONAL SHARING OF THE LINES. AND HOW THIS
14 COULD BE AN ISSUE OF CONCERN OR NOT FROM DONORS IN
15 TERMS OF CONTROL. SOME EMPIRICAL STUDIES DONE IN
16 THE UK AND OTHER COUNTRIES AND ONE THAT WE JUST DID
17 WITH GEOFF ON NURSES WHO SEEK CONSENT, IT WAS IN THE
18 CONTEXT OF EMBRYONIC STEM CELL RESEARCH, BUT IT'S
19 APPLICABLE IS THAT DONORS WERE CONCERNED ABOUT WHO
20 WILL GET THEIR MATERIALS OUTSIDE THEIR JURISDICTION
21 AND THAT RELATED TO THE LEVEL OF OVERSIGHT,
22 SECONDARY USES, INCLUDING`REPRODUCTIVE USES.

23 SO JUST ANOTHER DIMENSION THAT WE CAN ADD,
24 AND YOU HAVE POLICIES IN PLACE AND STANDARDS IN
25 PLACE TO ASSESS LINES OF FOREIGN ORIGIN; BUT IN THE

BARRISTERS' REPORTING SERVICE

1 CONTEXT OF INFORMED CONSENT, THE POTENTIAL FOR A
2 BIOBANK TO DISTRIBUTE OUTSIDE YOUR OWN JURISDICTION
3 SHOULD BE TAKEN INTO ACCOUNT.

4 CHAIRMAN LO: RIGHT. THERE'S A WHOLE SET
5 OF ISSUES. SO I GUESS AS I THINK ABOUT THIS, IT
6 STRIKES ME IF YOU ARE GOING TO -- IF CIRM IS GOING
7 TO INVEST IN A BIOBANK, WHICH IS A HUGE INVESTMENT,
8 AS I WOULD UNDERSTAND IT, THE LINES SHOULD BE
9 MAXIMALLY SCIENTIFICALLY USEFUL, SHOULD HAVE MAXIMUM
10 SCIENTIFIC USEFULNESS. IT JUST STRIKES ME THAT YOU
11 SHOULD RECRUIT FIVE DONORS WHO GIVE INFORMED
12 VOLUNTARY CONSENT TO ALLOW THEIR LINES TO HAVE
13 MAXIMAL SCIENTIFIC UTILITY, WHICH WOULD MEAN WHOLE
14 GENOME SEQUENCING, ALLOWING IT TO BE USED FOR
15 RESEARCH ON OTHER TOPICS, TO BE SHARED BROADLY WITH
16 OTHER RESEARCHERS, AND ALSO, I THINK, BE SHARED WITH
17 FOR-PROFIT COMPANIES WHO MAY BE TRYING TO DEVELOP A
18 PRODUCT THAT'S ORIENTED TOWARDS NEW TESTING AND NEW
19 THERAPIES.

20 IT JUST STRIKES ME THAT IF PEOPLE DON'T
21 WANT TO AGREE TO ALL THAT AFTER BEING INFORMED,
22 THAT'S THEIR RIGHT. THAT'S FINE. BUT I THINK IT
23 MAY NOT BE THE MOST PRUDENT USE OF CIRM RESOURCES TO
24 PUT THE MONEY INTO DERIVING LINES FROM THEM WITH ALL
25 THE RESTRICTIONS.

BARRISTERS' REPORTING SERVICE

1 DR. KIESSLING: ONE OF THE THINGS YOU
2 HAVEN'T TALKED ABOUT ARE EXCLUSION CRITERIA.

3 CHAIRMAN LO: FOR?

4 DR. KIESSLING: WHO WOULD BE PEOPLE THAT
5 YOU WOULD NOT ACCEPT TISSUES FROM, AND YOU JUST
6 TOUCHED ON THAT.

7 CHAIRMAN LO: WELL, I THINK ONE CLEARLY IS
8 PEOPLE WHO AREN'T ABLE TO GIVE INFORMED AND
9 VOLUNTARY CONSENT OR WHOSE PARENTS, I GUESS, AREN'T
10 GOING TO GIVE PERMISSION. BUT I THINK -- SO THIS IS
11 NOT AN ETHICAL -- WELL, MAYBE IT IS ETHICAL. IT'S
12 PRUDENCE. I THINK WE NEED TO SORT OF ASK GEOFF TO
13 THINK ABOUT AS HE WRITES THIS UP WHETHER THIS IS
14 SOMETHING THAT WE SHOULD AT LEAST RAISE FOR CIRM.

15 DR. ROBERT TAYLOR: IF YOU'RE GOING TO GO
16 THAT FAR AND REALLY IDEALIZE, OPTIMIZE THE SOURCE OF
17 THOSE CELLS, WHY NOT ASK THAT THEY BE GMP DERIVED?
18 AT THIS POINT IF YOU ARE GOING TO REALLY TUNE IT,
19 WHY GO THREE-QUARTERS OF THE WAY DOWN THE FIELD WHEN
20 YOU CAN GO ALL THE WAY DOWN THE FIELD AS WE
21 UNDERSTAND IT TODAY?

22 CHAIRMAN LO: I DON'T KNOW HOW EXPENSIVE
23 IT WOULD BE TO DERIVE GMP LINES AS OPPOSED TO LAB
24 QUALITY RESEARCH LINES. MY UNDERSTANDING IS IT'S A
25 BIG -- TIM, HAVE YOU DONE GMP LINES?

BARRISTERS' REPORTING SERVICE

1 DR. KAMP: I'M JUST WONDERING IF WE'RE --
2 IF WE REALLY NEED TO THINK ABOUT THIS RIGHT NOW
3 BECAUSE THOSE ARE -- I'M NOT SURE WE'RE THE RIGHT
4 PEOPLE TO DECIDE WHAT WILL BE IN THE BANK. YOU
5 COULD MAKE ANOTHER ARGUMENT THAT YOU DON'T WANT TO
6 HAVE FIVE LINES FOR EACH DISEASE ONLY, BUT YOU WANT
7 TO REALLY GET DIVERSITY OF LINES. SO HAVING A
8 BROADER SAMPLE IN THE BANK TO ACCESS MAY BE VALUABLE
9 TOO. I DON'T KNOW IF WE NEED TO DO THAT.

10 CHAIRMAN LO: THAT'S NOT THE PURVIEW OF
11 THIS COMMITTEE. I THINK THE SCIENCE ADVISORY
12 COMMITTEE. MY ONLY THOUGHT WAS THAT WHATEVER GOES
13 IN THERE SHOULD HAVE THE FEWEST RESTRICTIONS ON
14 OTHER RESEARCH USES TO MAKE THEM MAXIMALLY USEFUL TO
15 WHOEVER MIGHT BE ABLE TO BENEFIT.

16 DR. LOMAX: BERNIE, I WOULD ADD THAT THAT
17 IS ACTUALLY CONSISTENT WITH OUR ESTABLISHED POLICY,
18 THAT WE GET AT THAT IN A RELATED WAY, WHICH IS WE
19 INDICATE THAT THE RESEARCH THAT A DONOR MAY OFFER --
20 MAY INDICATE CERTAIN RESTRICTIONS ON THE USE OF
21 DONATED MATERIALS, BUT THEN THE INVESTIGATOR OR THE
22 DERIVER IS NOT OBLIGATED TO TAKE THOSE MATERIALS.
23 SO WE'VE SENT A CLEAR SIGNAL THAT WE RECOGNIZE THE
24 VALUE OF A FLEXIBLE SORT OF CONSENT AND DON'T WANT
25 TO BOX PEOPLE IN TO HAVING TO THEN MANAGE

BARRISTERS' REPORTING SERVICE

1 RESTRICTIONS BECAUSE THAT'S SOMETHING THAT'S ALMOST
2 IMPOSSIBLE TO DO FOR SOME OF THESE GRANTEES.

3 CHAIRMAN LO: I THINK WE WANT TO RESPECT
4 THE VARIABILITY DONORS HAVE IN TERMS OF WHAT'S
5 IMPORTANT TO THEM AND WHAT THEY VALUE AND WHAT THEY
6 ARE OBJECTING TO. BUT I DON'T THINK WE SHOULD SAY
7 THAT A DONOR HAS KIND OF A RIGHT TO BE A CIRM-FUNDED
8 RESEARCH SUBJECT SUBJECT TO THEIR OWN CONDITIONS. I
9 THINK CIRM AND CIRM RESEARCHERS MAY SAY THERE ARE
10 OTHER CONSIDERATIONS AS TO SELECTION CRITERIA FOR
11 WHAT WE WANT PEOPLE TO AGREE TO.

12 SO LET ME SUGGEST I WOULD LIKE TO MOVE ON
13 TO THE SECOND OF OUR FOUR TOPICS, WHICH IS
14 WITHDRAWAL OF SUBJECTS FROM RESEARCH. WHILE GEOFF
15 IS LINING UP HIS SLIDES, LET ME JUST SAY IN THE
16 COMMON RULE WHICH GOVERNS HUMAN SUBJECTS RESEARCH,
17 RESEARCH PARTICIPANTS HAVE THE RIGHT TO WITHDRAW
18 FROM RESEARCH AT ANY TIME IF IT'S FEASIBLE WITHOUT
19 PREJUDICE TO THEIR ONGOING MEDICAL CARE. SO WE HAVE
20 TO, AS A MATTER OF RESPECTING PATIENT PREFERENCES,
21 PATIENT AUTONOMY, SAY THAT EVEN THOUGH YOU DONATED,
22 YOU CAN CHANGE YOUR MIND AND SAY. BUT WHAT THAT
23 ACTUALLY MEANS IN THE CONTEXT OF AN IPS BANK,
24 PARTICULARLY WHEN NOT JUST OTHER RESEARCHERS WILL BE
25 USING THOSE CELLS, BUT THEY WILL BE TAKING THOSE

BARRISTERS' REPORTING SERVICE

1 CELL LINES AND DRIVING THEM TO SPECIALIZED -- FROM
2 PLURIPOTENT LINES TO MORE SPECIALIZED LINES.

3 I WAS TALKING TO TIM OVER LUNCH, AND TIM
4 IS VERY, VERY -- TIM'S LAB IS DOING A LOT OF CUTTING
5 EDGE RESEARCH ON DERIVING CARDIOMYOCYTES FOR DRUG
6 SCREENING, FOR EXAMPLE. AND, YOU KNOW, ONCE THE
7 LINE THAT WAS DONATED TO DERIVE AN IPS LINE IS THEN
8 USED TO DERIVE A SPECIALIZED CELL LINE BEING USED BY
9 OTHER RESEARCHERS, IF I AS A DONOR WITHDRAW FROM
10 RESEARCH, DOES THAT MEAN THAT THOSE SPECIALIZED
11 LINES NEED TO BE WITHDRAWN? THAT'S WHAT I THINK
12 GEOFF IS GOING TO HELP TEE UP OUR DISCUSSION.

13 DR. LOMAX: WHAT I'LL DO IS RUN THROUGH A
14 SET OF CARTOONS THAT ARE ANALOGOUS OR THAT ARE
15 IDENTICAL TO THE TABLE YOU HEARD IN THE MORNING
16 PRESENTATION.

17 CHAIRMAN LO: THIS IS ON PAGE 6 OF OUR
18 HANDOUT.

19 DR. LOMAX: I'M JUST TRYING TO, AGAIN,
20 ESTABLISH A SET OF CATEGORIES OR BINS. AND ALSO TO
21 REMIND YOU IN YOUR FOLDER THERE'S SORT OF A
22 NARRATIVE TWO-PAGE FOR EACH OF THESE CATEGORIES AS
23 WELL, JUST TO SORT OF KEEP CLEAR THE CATEGORIES.

24 SO THE IDEA HERE IS THAT YOU HAVE A DONOR,
25 AND THIS IS REALLY TAKING OFF OF WHAT SOLEL

BARRISTERS' REPORTING SERVICE

1 DESCRIBED AS SORT OF THE VISION WOULD BE YOU HAVE
2 THE INDIVIDUAL, SOME LINKAGE TO MEDICAL INFORMATION,
3 WHICH MAY BE INDIRECT, I.E., MEDICAL RECORDS BEING
4 PINGED BY SOME SORT OF BANKING AUTHORITY OR
5 RESOURCE, SO THE MEDICAL INFORMATION REALLY IS A
6 SORT OF SEPARATE CATEGORY. YOU HAVE THE DONOR. AND
7 UNDER THE HYPOTHESIS THAT THAT INFORMATION WILL ALL
8 GO INTO BOTH A CELL AND DATA REPOSITORY BECAUSE
9 WE'RE NOW TALKING BOTH BIOLOGICAL INFORMATION AND
10 NONBIOGRAPHICAL INFORMATION. WE'VE LEFT A LITTLE
11 DNA PIECE IN THERE TO REMIND US OF THE GENOME
12 SEQUENCING ISSUES THAT KEEP EMERGING.

13 THAT SORT OF LAYS OUT THE RELATIONSHIP.
14 EVERYTHING ON THE LEFT SIDE OF THAT BOX IN THE
15 MIDDLE LAYS OUT THE RELATIONSHIP WITH EITHER THE
16 DONOR OR INFORMATION ABOUT THE DONOR, WHICH IS ALL
17 VERY RELEVANT UNDER THE COMMON RULE. THE RIGHT SIDE
18 IS LOOKING, THEN, AT THE DISTRIBUTION OR DISTRIBUTED
19 CELLS, POINTING OUT SAMPLES THAT COULD BE
20 ANONYMOUSLY DISTRIBUTED, WHAT HAVE YOU. YOU MIGHT
21 HAVE A DISTRIBUTION -- AND I'VE ALSO SORT OF TRIED
22 TO SET THE EXAMPLE YOU COULD HAVE A PRIMARY
23 DISTRIBUTION TO A LAB THAT IS USING THE CELLS TO DO
24 SOME ADDITIONAL WORK. THEY TRANSFORM THEM AND
25 SUBSEQUENTLY DISTRIBUTE THEM AGAIN. SO THE IDEA IS

BARRISTERS' REPORTING SERVICE

1 THAT DISTRIBUTION COULD BE A PROCESS THAT INVOLVES
2 MULTIPLE PARTIES.

3 AGAIN, JUST TO KIND OF GIVE US A PICTORIAL
4 FRAMEWORK, WE WANT TO -- AGAIN, THIS IS SORT OF TO
5 REHASH WHAT WE ALREADY HEARD IS THAT, FIRST OF ALL,
6 AN INDIVIDUAL ALWAYS HAS THE RIGHT TO STOP CONTACT.
7 WITHDRAW OPTION 1 WAS SORT OF RECOMMENDED. IT'S
8 JUST A REQUIREMENT OF LAW. IF SOMEONE NO LONGER
9 ONCE WANTS TO BE ENGAGED BY A RESEARCHER UNDER THE
10 COMMON RULE, AND WE OPERATE UNDER THE COMMON RULE,
11 THEN THAT NEEDS TO CEASE.

12 IN ADDITION, THE TRANSMISSION OF THEIR
13 IDENTIFIABLE INFORMATION TO ANY SORT OF DATA SOURCE,
14 THEY HAVE THE OPTION. THEY CAN SAY, WELL, DON'T
15 CONTACT ME, BUT MY DATA CAN FLOW. BUT THEY ALSO CAN
16 SAY I DON'T WANT ANY CONTACT OR ANY OF MY MEDICAL
17 INFORMATION MOVING FORWARD INTO THE REPOSITORY.
18 AGAIN, THAT'S AN ESTABLISHED LEGAL RIGHT. SO
19 INDIVIDUALS COULD BE INFORMED THAT THAT'S AN OPTION,
20 AND THAT'S THE RIGHT THING TO DO.

21 AND FINALLY, THE OTHER OPTION THAT THE
22 INDIVIDUAL HAS IS THEY CAN SORT OF DISAPPEAR FROM
23 THE PICTURE COMPLETELY BECAUSE EVEN IN THIS
24 CONTINGENCY, YOU COULD HAVE INFORMATION ABOUT THE
25 DONOR. YOU'RE STOPPING THE NEW FLOW OF INFORMATION

BARRISTERS' REPORTING SERVICE

1 INTO THE REPOSITORY, BUT YOU STILL HAVE EXISTING
2 INFORMATION WHICH IS ASSOCIATED WITH THE INDIVIDUAL.
3 AND THE INDIVIDUAL STILL HAS THE RIGHT TO SAY I WANT
4 TO DISAPPEAR FROM THE PICTURE. DOES THAT MAKE
5 SENSE?

6 SO THAT'S SORT OF DEFAULT CONDITIONS.
7 OBVIOUSLY, AGAIN, THE WAY YOU SORT OF ADDRESS THIS
8 IS IN THE INITIAL CONSENT, YOU REALLY WANT TO TRY TO
9 USE THE CONSENT PROCESS AS THE WAY OF CAPTURING
10 PEOPLE THAT HOPEFULLY WOULDN'T END UP IN THIS
11 CIRCUMSTANCE BASED ON THE VISION OF THE BANK.

12 THE AREA WHERE WE HEARD -- WHERE THERE'S
13 SOME DISCUSSION AND UNCERTAINTY IS ONCE YOU'VE GOT
14 MATERIALS THAT HAVE BEEN IN THE BANK, AND JUST LET'S
15 ASSUME THESE MATERIALS HAVE THEN BEEN TRANSFORMED,
16 SO IT'S NOT MY SKIN CELL ANYMORE. IT'S AN IPS CELL
17 THAT'S UNDERGONE SOME TRANSFORMATION. WHILE MY
18 MATERIAL WAS SORT OF THE BUILDING BLOCK FOR IT, IT'S
19 ARGUABLY SOMETHING DIFFERENT THAN PRIMARY MATERIAL
20 FROM ME. WHERE I THINK THE DEBATE BECOMES IS, FIRST
21 OF ALL, WOULD THE REPOSITORY HAVE TO THEN STOP
22 STORING THAT MATERIAL, WOULD HAVE TO SORT OF GET RID
23 OF IT? AND WOULD THE REPOSITORY HAVE TO STOP
24 DISTRIBUTING THE MATERIAL? OR I GUESS AN EXTREME
25 CASE, I HAVEN'T EVEN PUT IT ON HERE YET, AND THEN

BARRISTERS' REPORTING SERVICE

1 BEYOND THAT IT'S ALMOST IMPOSSIBLE ONCE THE MATERIAL
2 IS OUT THERE IN SOME PRIMARY PLACE, SOME OTHER
3 RESEARCHER -- YOU CAN'T SORT OF DRAW THAT STUFF BACK
4 IN, SO AT A CERTAIN LEVEL THAT MATERIAL IS OUT
5 THERE.

6 AN INTERESTING QUESTION FOR US IS AT THE
7 POINT SOMEONE WITHDRAWS, WOULD WE BE COMFORTABLE OR
8 NOT WITH THESE CONDITIONS, WHICH, AGAIN, WERE, I
9 THINK, WE HEARD THIS MORNING THERE'S DEBATE AND IT'S
10 UNSETTLED IS, FIRST OF ALL, WOULD IT ACCEPTABLE TO
11 TELL THE REPOSITORY SOMEONE CAN WITHDRAW, BUT YOU
12 CAN CONTINUE TO DISTRIBUTE THE IPS CELLS. YOU MAY
13 WANT TO STOP -- YOU SHOULD STOP DISTRIBUTING --
14 USING THEIR TISSUE, BUT ANYTHING THAT'S BEEN
15 TRANSFORMED AND IMMORTALIZED CAN CONTINUE. OR IS
16 THERE SOME COMPELLING REASON TO SAY, NO, NO FURTHER
17 DISTRIBUTION?

18 SO ONE ARGUMENT, FOR EXAMPLE, OR ONE SORT
19 OF POINT THAT WAS RAISED, WHAT IF THAT INDIVIDUAL
20 COULD MAKE THE CASE, IN MY SPECIFIC CASE, IT'S SUCH
21 AN UNUSUAL CIRCUMSTANCE, BY CONTINUING TO DISTRIBUTE
22 MY MATERIAL, THERE MAY BE SOME HARM TO ME OR MY
23 FAMILY BECAUSE OF SOME GENETIC CONDITION.

24 YOU CAN ALSO THINK OF IT IN TERMS OF IN
25 GENERAL THERE WOULD BE A CONTINUED DISTRIBUTION OF

BARRISTERS' REPORTING SERVICE

1 MATERIAL UNLESS THERE WAS SOME EXTRAORDINARY
2 CIRCUMSTANCE IN WHICH YOU WOULD -- I'M TRYING TO
3 SORT OF SUGGEST THERE'S A RANGE OF OPTIONS. THESE
4 ARE THE AREAS WHERE THERE IS, I THINK, BOTH IN TERMS
5 OF PUBLIC POLICY AND THE LITERATURE, THINGS ARE
6 UNSETTLED. IT'S SPECIFICALLY THE TRANSFORMED
7 MATERIALS. SO THAT'S WHERE I THOUGHT IT WAS, AGAIN,
8 USEFUL TO GET SOME THINKING AND SOME DISCUSSION
9 GOING WITH THE GROUP THAT'S SORT OF CHARGED WITH
10 THINKING ABOUT THESE SORTS OF THINGS.

11 CHAIRMAN LO: GEOFF, IF I COULD ASK YOU TO
12 BACK UP JUST A MINUTE. I WANT TO MAKE SURE I
13 CLARIFY HERE. SO THE WITHDRAWAL OF SPECIMENS, IT
14 SEEMS TO ME THERE'S REALLY -- ARE THERE NOT TWO
15 CASES? THERE'S FOUR WITHDRAWAL OF THE PRIMARY
16 SPECIMENS. I DON'T KNOW WHAT THAT MEANS, THE FROZEN
17 SEGMENT OF MY SKIN BIOPSY AS OPPOSED TO THE
18 FIBROBLASTS THAT WERE DERIVED FROM IT AS OPPOSED TO
19 THE IPS LINE THAT WAS DEPOSITED IN THE CELL BANK?

20 DR. LOMAX: AS I UNDERSTAND THE
21 DISCUSSION, AND, STEVE, I'D BE HAPPY TO CHIME IN
22 HERE BECAUSE PART OF THIS COMES OUT OF DISCUSSIONS
23 WITH FOLKS LIKE STEVE WHO HAVE A BIT MORE OF A
24 DIRECT TOUCH WITH THIS, IS THAT THERE'S CERTAIN
25 MATERIALS THAT ARE IN A SORT OF NATURAL STATE FROM

BARRISTERS' REPORTING SERVICE

1 THE DONOR, WHICH ARE THE BLOOD, THE PHYSICAL SKIN.
2 SO THOSE SPECIMENS, MY SENSE IS THERE'S A STRONG
3 VIEW THAT THOSE CAN BE -- THAT DONORS COULD HAVE THE
4 OPPORTUNITY TO SORT OF SAY STOP USING THOSE
5 MATERIALS. BUT THEN ONCE THEY'VE GONE THROUGH SOME
6 PROCESS, SOME TRANSFORMATIVE PROCESS WHERE THEY'RE
7 NO LONGER -- I'M NOT IN THE POSITION WHERE I'VE SORT
8 OF BEEN DRAWING THOSE LINES, BUT THERE IS A SENSE
9 THAT THERE'S SOME LINE THERE. I DON'T KNOW HOW
10 BRIGHT THAT LINE IS.

11 DR. FEIGAL: TO ME THAT SEEMS LIKE THE
12 UNIQUE PART OF THE IPS REPOSITORY AS OPPOSED TO THE
13 STATIC I DONATED A TISSUE, I DONATED BLOOD SAMPLE.
14 THAT MIGHT BE SOMETHING FOR THE COMMITTEE TO TAKE
15 INTO ACCOUNT AS YOU'RE THINKING ABOUT WITHDRAWING
16 AND INFORMED CONSENTS AND THOSE UNIQUE ASPECTS.

17 CHAIRMAN LO: BUT THERE ARE OTHER TISSUE
18 SAMPLES THAT ARE DONATED AND THEN THEY'RE
19 MANIPULATED IN THE SENSE THEY'RE IMMORTALIZED TO A
20 CANCER CELL, FOR EXAMPLE. YOU COULD MAKE THE
21 ARGUMENT, WELL, IT'S NO LONGER WHAT CAME OUT OF THE
22 DONOR. IT'S SOMETHING THAT A RESEARCHER IN GOOD
23 FAITH PUT A LOT OF EFFORT INTO TRANSFORMING. AND
24 NOW TO SORT OF TAKE AWAY ALL THAT MAY OR MAY NOT BE
25 ETHICALLY DIFFERENT THAN TAKING AWAY WHAT'S

BARRISTERS' REPORTING SERVICE

1 REMAINING OF THE ORIGINAL BIOPSY.

2 DR. FEIGAL: NO. I WAS JUST REFERRING TO
3 THE STATIC TISSUE WHERE THEY'RE NOT BEING MADE INTO
4 CELL LINES.

5 CHAIRMAN LO: JUST IT'S FROZEN IN LIQUID
6 NITROGEN.

7 GEOFF, IF YOU GO TO YOUR NEXT SLIDE,
8 THERE'S YET ANOTHER EXTREME, I GUESS, OPTION 6,
9 WHICH IS TO TRY AND ERADICATE ALL THE MATERIALS
10 DERIVED FROM THE ORIGINAL DONATION SITTING IN ALL
11 THE LABS AROUND THE COUNTRY.

12 DR. LOMAX: IF YOU LOOK AT POLICIES ON
13 BIOBANKING, ALMOST EVERYTHING WE LOOKED AT THAT'S
14 NOT AN OPTION. PEOPLE, THEY INDICATE IN THE CONSENT
15 AS PART OF THE CONSENT WHEN THEY GO THROUGH THOSE
16 STAGES OF WITHDRAWAL THAT IT SIMPLY WON'T BE AN
17 OPTION TO RECOLLECT. I SORT OF PUT IT OUT THERE TO
18 ILLUSTRATE ALL THE EXAMPLES. IF YOU TAKE LIKE THE
19 BIOBANK -- THERE'S A BIG PROJECT IN THE UK WHERE
20 THEY DID THAT, AND THEY WERE VERY EXPLICIT THAT THEY
21 CANNOT BRING BACK DISTRIBUTED SAMPLES.

22 CHAIRMAN LO: YOU ALSO OBVIOUSLY CANNOT
23 ERADICATE ANYTHING THAT'S BEEN ANONYMIZED BECAUSE
24 YOU DON'T KNOW WHERE IT IS OR WHO HAS IT.

25 DR. LOMAX: CORRECT.

BARRISTERS' REPORTING SERVICE

1 DR. PATRICK TAYLOR: JUST A COUPLE FAST
2 THINGS. THIS ISN'T THE ONLY PLACE THIS ISSUE OF
3 DIFFERENTIATION AND DERIVATIVES AND SO ON COMES UP.
4 ONE, OF COURSE, IS IN SCRO JURISDICTION, THE EXTENT
5 TO WHICH IT HAS TO BE ASSERTED OVER DERIVATIVES.
6 ANOTHER IS IN INTELLECTUAL PROPERTY WHERE IT'S
7 COMMON TO ACTUALLY DISTINGUISH BETWEEN THINGS THAT
8 SIMPLY ARE THE SAME THING AND MODIFICATIONS OF THOSE
9 DERIVATIVES. THAT'S IMPORTANT BECAUSE TO THE EXTENT
10 THAT PEOPLE ARE TRANSFERRING THINGS FOR RESEARCH
11 SPONSORED BY OTHERS, THE ABILITY TO RECAPTURE IS
12 GOING TO BE LIMITED BY THOSE INVESTMENTS.

13 ANOTHER PLACE IT COMES UP IS WHETHER THAT
14 AFFECTS ME ENOUGH. MY POINT IS THERE HAS TO BE, I
15 THINK, SOME ALIGNMENT BETWEEN THESE VARIOUS VIEWS
16 AND WHATEVER RECAPTURE OBLIGATION ANY BANK IMPOSES
17 ON ITSELF.

18 THE OTHER ASPECT IS I'M REMINDED OF A
19 SO-CALLED CORRIGENDUM OR SOMETHING LIKE THAT IN
20 *NATURE* ABOUT YEAR AND A HALF AGO WHERE THEY OBJECTED
21 STRENUOUSLY TO THE FACT THAT THEY WERE FORCED TO
22 ACTUALLY PUBLISH A PAPER THAT TURNED OUT NOT TO BE
23 REPLICABLE. AND THE REASON FOR THAT IS THAT THE
24 INVESTIGATORS HADN'T DISCLOSED THERE WERE LIMITS IN
25 THE INFORMED CONSENT, THEY DIDN'T KNOW THEY EXISTED,

BARRISTERS' REPORTING SERVICE

1 WHICH PREVENTED ACCESS BY OTHERS LATER ON TO SAMPLES
2 WHICH WERE ACTUALLY IN A REPOSITORY.

3 SO TO THE EXTENT CIRM OR ITS DELEGEE WOULD
4 ACTUALLY WANT TO MAINTAIN IN A BANK SAMPLES THAT
5 WERE USED FOR RESEARCH AND ACTUALLY BE THE
6 REPOSITORY OF CHOICE AS OPPOSED TO CAUSING THE
7 ADMINISTRATIVE DUPLICATION OF SOME OTHER REPOSITORY,
8 THEN THE NEED TO ACTUALLY MAINTAIN THEM PRECISELY TO
9 ALLOW PAPERS TO BE PUBLISHED IS QUITE IMPORTANT.

10 I THINK MY OWN SENSE IS THE THOUGHT THAT
11 REGULATIONS MIGHT BE INTERPRETED TO REQUIRE SOME
12 KIND OF TRACK-DOWN OF EVERYTHING IS A NOVEL
13 INTERPRETATION. IT'S NOT THE HISTORIC
14 INTERPRETATION. IT MAY HAVE DEVELOPING
15 SENSIBILITIES TO COMMEND IT, BUT IT IS NOT THE LEGAL
16 MANDATE.

17 DR. LOMAX: IF YOU NOTICE, THE TRACK-DOWN
18 DOESN'T EVEN SHOW UP ON THIS LIST. AGAIN, IT'S SORT
19 OF PUT OUT TO ILLUSTRATE THAT THERE'S NO WAY TO DO
20 IT FOR ALL THE REASONS. IT GETS SEPARATED OFTEN
21 FROM THE IDENTIFIERS. AND, AGAIN, THEY'RE
22 DISTRIBUTED AT THAT POINT. THE ONLY OPTION WOULD BE
23 IF THERE WAS SOMEBODY DOING SOMETHING THAT VIOLATED
24 A CONTRACT OR AN MTA, BUT THAT'S TYPICALLY NOT THE
25 CASE.

BARRISTERS' REPORTING SERVICE

1 DR. PARTICK TAYLOR: IN HIPAA, FOR
2 EXAMPLE, THERE'S A RELIANCE, A RECOGNITION THAT THE
3 ABILITY TO STOP USING STOPS SHORT, STOPS WHERE
4 OTHERS HAVE RELIED. THAT DEFINITION OF HAVE
5 RELIANCE HAS NEVER TURNED ON IT BEING RELIANCE ON
6 SOME DISTANT THIRD PARTY ALONE. SO TO THE EXTENT
7 THAT THERE ARE SOME RATIONALES WITH LEGITIMATE
8 JUSTIFICATIONS THAT POINT TO RELIANCE, INCLUDING BY,
9 FOR EXAMPLE, CITIZENS OF THE STATE OF CALIFORNIA
10 MAKING AN INVESTMENT, SEEMS LIKE THERE'S GOT TO BE
11 SOME LIMITING PRINCIPLE HERE. WE ARE ALL CHANGING
12 ROLES HERE. I NORMALLY HAVE A DIFFERENT ON THIS
13 ISSUE TOO.

14 MS. LANSING: HERE'S SORT OF WHAT MY
15 THINKING IS AT THE MOMENT. I FIND THIS ALL SO
16 INTERESTING BECAUSE -- AND IT IS WHAT WE SAID. WE
17 STARTED THIS SIX YEARS AGO, SOMETHING LIKE THAT, AND
18 SCIENCE IS MOVING AHEAD. AND WE SAID WE'D BE
19 FLEXIBLE. WE'D LOOK AT THE PROCESS AND WE'D LOOK AT
20 THE REALITY, WHATEVER. AND WHEREAS I THINK MY BASIS
21 IN THE BEGINNING WITH INFORMED CONSENT WAS ALL ABOUT
22 EMPOWERING THE PATIENT, I HAVE A SLIGHTLY DIFFERENT
23 VIEW ON THIS. AND ON THIS I BELIEVE THAT SCIENCE
24 MUST BE PROTECTED, AND THE SCIENTIST MUST PROTECTED.
25 SO IN BROAD STROKES, LAY STROKES, WHERE

BARRISTERS' REPORTING SERVICE

1 I'M COMING OUT AT THE MOMENT IS WHEN WE -- WE'VE
2 ALREADY HAD THIS INFORMED CONSENT CHOICES, AND WE'VE
3 REALLY EXPLAINED IT VERY WELL, AND WE MADE SURE THAT
4 THEY UNDERSTAND IT. AND MY FEELING IS THAT ONCE YOU
5 SIGN OFF, AND I KNOW THERE ARE SOME RULES WHERE YOU
6 CAN TAKE CERTAIN THINGS BACK, WHICH IS BASICALLY
7 BEFORE -- AGAIN, I'M DOING THIS IN VERY LAY TERMS --
8 BEFORE IT'S BEEN CHANGED AND BEFORE THE EXPERIMENTS
9 HAVE STARTED. I WOULD STICK WITH THAT BECAUSE ONCE
10 YOU START TELLING A PATIENT, GEE, I DON'T LIKE WHAT
11 YOU'RE DOING WITH MY CELL. YOU TURNED IT INTO THIS
12 AND YOU TURNED IT INTO THAT. THAT'S REALLY MESSING
13 WITH SCIENCE. AND I REALLY BELIEVE THAT AT THAT
14 POINT WE CAN DO GREAT HARM TO THE RESEARCH THAT
15 WOULD BENEFIT YOUR CHILDREN AND THAT WOULD BENEFIT
16 THE PATIENTS THAT WE'RE TRYING SO HARD TO REPRESENT.

17 SO I THINK ONCE YOU'VE SIGNED, WITHDRAWAL
18 SHOULD BE UNDER THE VERY LIMITED WAY THAT IT ALREADY
19 EXISTS BECAUSE OTHERWISE I THINK IT REALLY WILL HARM
20 RESEARCH.

21 DR. LOMAX: THAT WOULD BE A LEVEL 3 HERE.
22 YOU ALWAYS HAVE THAT RIGHT.

23 MS. LANSING: AND I REALLY WOULD NOT
24 EXTEND IT MUCH BEYOND THAT.

25 DR. KIESSLING: IT'S ACTUALLY NOT CLEAR TO

BARRISTERS' REPORTING SERVICE

1 ME. I CAN'T THINK OF AN EXAMPLE IN WHICH I KNOW
2 THAT PEOPLE HAVE THE RIGHT TO WITHDRAW TISSUE
3 THEY'VE DONATED FOR RESEARCH.

4 DR. ROBERT TAYLOR: I'VE HAD THAT.

5 DR. KIESSLING: IS THERE AN EXAMPLE FOR
6 THAT?

7 DR. ROBERT TAYLOR: PEOPLE CAN -- THEY CAN
8 REQUEST SAMPLES THAT THEY'VE GIVEN, BLOOD SAMPLES,
9 TISSUE SAMPLES, TO BE SORT OF REMOVED FROM THE
10 SPECIMEN BANK, TISSUE BANK, AND THAT'S WRITTEN INTO
11 MOST OF THE IRB'S THAT I'VE USED.

12 DR. KIESSLING: THAT COMES UNDER THE
13 WITHDRAWAL FROM THE RESEARCH PHRASE.

14 DR. ROBERT TAYLOR: WITHDRAW FROM THE
15 RESEARCH. SO I WOULD SAY THAT IN MY EXPERIENCE, THE
16 MORE COMMON THING IS SOMEBODY JUST KIND OF
17 DISAPPEARS. THEY KIND OF PASSIVELY SLIP OFF INTO
18 THE SUNSET. THEY DON'T PROVIDE ANY MORE DATA. YOU
19 CAN'T FOLLOW UP. I DON'T SEE ANY MORAL OBLIGATION
20 TO NOT CONTINUE USING THEIR SAMPLES WITH THE
21 INFORMATION YOU HAVE GOING FORWARD.

22 DR. LOMAX: IT'S SORT OF THE PRINCIPLE OF
23 SORT OF, FOR EXAMPLE, IT'S IN THE NIH GUIDELINES AS
24 WELL, THAT PRIOR TO HUMAN EMBRYONIC STEM CELL LINE
25 DERIVATION, THERE IS SORT OF YOU CAN TRY TO REQUEST

BARRISTERS' REPORTING SERVICE

1 OUT.

2 DR. KIESSLING: THAT'S TIME LIMITED.

3 DR. LOMAX: IT'S TIME LIMITED. THAT'S
4 RIGHT. EXACTLY.

5 DR. KIESSLING: IT'S SORT OF LIKE THE
6 LEMON LAW WHEN YOU BUY A CAR.

7 DR. ROBERT TAYLOR: THIS IS A POTENTIAL.
8 AND I'VE HAD PEOPLE CALL BACK YEARS LATER, AND I'VE
9 HAD TO GO DIGGING AROUND THE FREEZER TO FIND A CHUNK
10 OF FROZEN TISSUE THAT I WAS SUPPOSED TO THROW AWAY,
11 AND IT'S A LITTLE BIT OF A HASSLE AND FRUSTRATING TO
12 DO THAT. BUT I WOULD SAY THAT PEOPLE THAT REALLY
13 ACTIVELY DECIDE TO WITHDRAW THEIR SAMPLE, LIKE, I
14 DON'T BELIEVE THAT THIS IS SORT OF ETHICALLY
15 APPROPRIATE NOW OR I DON'T LIKE WHERE THIS RESEARCH
16 IS GOING, I FEEL THAT WE HAVE AN OBLIGATION TO TRY
17 TO ADDRESS THAT AND TO CORRECT IT THE WAY THAT
18 INDIVIDUAL DONOR WANTED.

19 IT SEEMS TO ME THAT RATHER THAN SOME KIND
20 OF A BIOCHEMICAL VIRAL TRANSFORMATION, THAT IT'S
21 MAYBE BETTER TO DRAW THE LINE OF DEMARCATION AT THE
22 POINT OF ANONYMIZATION OF THE SAMPLE. TO ME
23 ETHICALLY THAT'S CLEANER THAN SOMETHING THAT WE
24 MIGHT HAVE DONE IN THE LABORATORY. ONCE A SPECIMEN
25 BECOMES -- IT'S NO LONGER REALLY READILY TRACEABLE

BARRISTERS' REPORTING SERVICE

1 TO THE DONOR, THEN IT CAN MAYBE MOVE FORWARD IN
2 PERPETUITY AS A0493.9 OR SOMETHING. BUT THAT IF
3 IT'S DIRECTLY IDENTIFIABLE WITH THAT PERSON AND THEY
4 WANT IT PULLED OUT, IT SEEMS TO ME IT'S KIND OF OUR
5 OBLIGATION TO SORT OF PULL IT OFF THE SHELF.

6 DR. ROBERTS: COULD I JUST ASK ABOUT THAT?
7 I'M JUST TRYING TO UNDERSTAND WHAT IS THE MORAL
8 PRINCIPLE. IS IT THAT THE LINES ARE NOT
9 IDENTIFIABLE ANYMORE, AND SO WHAT YOU'RE PROTECTING
10 IS THE PATIENT PRIVACY? OR IS IT THAT THE PATIENT
11 SHOULD HAVE CONTROL OVER WHAT IS DONE WITH HIS OR
12 HER SAMPLES OR WHAT'S DERIVED FROM THE SAMPLES?
13 BECAUSE, WELL, IF THAT'S -- THEN THAT'S A COMPLETELY
14 DIFFERENT ANSWER THAN WHAT WE'VE BEEN SAYING.

15 MS. LANSING: I DON'T BELIEVE IN THAT.
16 ASKING WHAT THE ISSUE WAS.

17 DR. ROBERT TAYLOR: THERE'S A FEASIBILITY
18 KIND OF COMPONENT TO IT AS WELL, BUT MAYBE THAT
19 DOESN'T PROBABLY REACH A LEVEL OF MORAL SORT OF
20 STANDARD THAT THE REST OF IT DOES. BUT THE TRUTH IS
21 IS THAT GOING BACK AND FINDING SOME OF THESE THINGS
22 CAN BE QUITE CHALLENGING, COSTLY, AND --

23 MS. LANSING: BUT IF YOU CAN FIND THEM AND
24 RESEARCH HAS ALREADY STARTED ON THEM, THEN YOU ARE
25 REALLY STOPPING SCIENCE FROM MOVING. AND I DON'T

BARRISTERS' REPORTING SERVICE

1 THINK THIS IS GOING TO HAPPEN VERY OFTEN, BUT IT
2 COULD HAPPEN IN A TERRIBLE TIME WHEN SOMEONE IS
3 CLOSE TO A BREAKTHROUGH AND SOMEONE COULD SAY, WELL,
4 I DON'T LIKE WHAT'S BEING DONE ON MY CELL LINES.
5 THEY COULD HAVE MISINFORMATION, WHATEVER. I THINK
6 IF THAT FIRST STEP -- IT'S FUNNY BECAUSE AT FIRST I
7 WAS ALL ABOUT EMPOWERING THE PATIENT. NOW ON THIS
8 PARTICULAR ISSUE, I'M ALL ABOUT WHAT'S BEST FOR THE
9 SCIENTIFIC RESEARCH THAT DISEMPOWERED PATIENT HAS
10 ALREADY SIGNED OFF ON.

11 AND I WANT TO JUST ADD ONE OTHER THING.
12 YOU SAID WHAT IF YOU FIND THAT THERE'S DISEASE IN
13 CERTAIN LINES, WHATEVER, AND THAT IT COULD BE
14 HARMFUL TO PATIENTS TO BE USING THOSE LINES. I HAVE
15 TO ASSUME THE SCIENTISTS WOULDN'T USE THEM WHEN THEY
16 FOUND THAT. I DON'T THINK THEY WOULD WILLFULLY
17 INFECT SOMEBODY WITH A DISEASE. SO I FEEL THAT THAT
18 I WOULD TRUST THE SCIENTISTS WITH.

19 I JUST DON'T WANT -- IN LAY TERMS I JUST
20 DON'T WANT SOMEONE SAYING, WELL, GOD. I JUST FOUND
21 OUT THAT YOU'RE DOING THIS RESEARCH. I DID SIGN OFF
22 FOR ALL DISEASES AND YOU'RE DOING THIS RESEARCH, AND
23 I REALLY DON'T WANT YOU TO DO RESEARCH ON THAT
24 PARTICULAR DISEASE. AND YOU'VE GONE WAY DOWN THE
25 LINE AND NOW YOU DON'T HAVE ANY MORE LINES, YOU'VE

BARRISTERS' REPORTING SERVICE

1 DONE ALL SORTS OF STUFF TO IT, AND YOU HAVE TO STOP.

2 DR. ROBERTS: IS THERE A DISTINCTION
3 BETWEEN THE TISSUE AND THE LINES?

4 DR. KIESSLING: THAT'S WHAT ROB IS SAYING.

5 DR. ROBERTS: THAT'S WHAT ROB'S SAYING,
6 BUT HIS DISTINCTION WAS BASED ON IDENTIFICATION,
7 WHICH IS NOT THE PRINCIPLE THAT SHERRY IS TALKING
8 ABOUT. SO --

9 MS. LANSING: I RESPECT WHAT YOU'RE
10 SAYING. I'M LIKE GOING FROM ONE EXTREME TO THE
11 OTHER.

12 DR. ROBERTS: SHERRY, WOULD YOU SAY THAT
13 THE DONOR DOESN'T HAVE A RIGHT TO WITHDRAW EITHER
14 THE TISSUE OR THE LINE?

15 MS. LANSING: ONLY IN THE VERY -- ONES
16 THAT ARE ALREADY SET UP. I'M NOT TRYING TO CHANGE
17 THAT, WHAT'S ALREADY SET UP BY LAW.

18 DR. ROBERT TAYLOR: I THINK SHERRY AND I
19 AGREE. IT'S JUST I'M KIND OF TRYING TO COME UP WITH
20 A MORE DEFENSIBLE PRINCIPLE.

21 DR. ROBERTS: I JUST WANT TO HEAR WHAT THE
22 PRINCIPLE IS.

23 CHAIRMAN LO: THERE'S SEVERAL PRINCIPLES
24 AND THEY PULL YOU IN DIFFERENT DIRECTIONS. ONE
25 PRINCIPLE IS RESPECT FOR PERSONS, RESPECT FOR THE

BARRISTERS' REPORTING SERVICE

1 AUTONOMY OF THE DONORS. WE SAY WE'RE FOLLOWING
2 THEIR INFORMED AND VOLUNTARY PREFERENCES, THAT
3 THEY'VE CHANGED THEIR MIND. THAT LINE OF THINKING
4 SAYS WE SHOULD RESPECT THEIR LATEST DECISION, NOT
5 THE ONE THAT -- PEOPLE DO CHANGE.

6 PAT, I THINK, ARTICULATED ANOTHER
7 PRINCIPLE, WHICH IS JUSTIFIABLE RELIANCE, THAT YOU
8 PROMISED SOMETHING. SOMEONE ELSE IN GOOD FAITH
9 RELIED ON THAT AND DID A WHOLE LOT, WHETHER IT'S
10 MONEY, TIME, EFFORT, AND TO SORT OF WITHDRAW THE
11 FRUITS OF THAT INVESTMENT, THAT WORK, THAT EFFORT,
12 SEEMS TO BE UNFAIR TO THE PERSON WHO MADE THE
13 COMMITMENT TO WORK ON THE LINES. WE COULD TALK
14 ABOUT HOW IN THE LONG RUN IT WOULD REALLY HAVE A
15 CHILLING EFFECT ON SCIENTISTS BEING WILLING TO CARRY
16 OUT RESEARCH.

17 AND THEN ONE OF YOU IDENTIFIED A THIRD
18 PRINCIPLE, WHICH IS RESPECT, WHICH IS PRIVACY.

19 DR. ROBERTS: THAT SOUNDED LIKE ROD'S
20 POINT WHERE IDENTIFICATION WOULD MAKE A DIFFERENCE.

21 CHAIRMAN LO: AND IT DOES TO SOME EXTENT.
22 IT STRIKES ME, AS I LOOK AT THIS LIST, NO. 3, IT
23 SEEMS TO ME, REALLY SORT OF HINGES ON THE
24 IDENTIFICATION AND PRIVACY THAT IF IT'S NOT
25 IDENTIFIABLE, IF I'M DOING SOMETHING TO YOUR CELLS

BARRISTERS' REPORTING SERVICE

1 OR YOUR MATERIALS AND THEY'RE NOT IDENTIFIABLE
2 ANYMORE, THEN I CAN'T HARM YOU. AND I'M NOT SURE I
3 TOTALLY AGREE WITH THAT. THE HAVASUPAI CERTAINLY
4 DIDN'T THINK THAT.

5 I'M CONCERNED ABOUT THREE. AND I DON'T
6 KNOW IF -- NICOLE, YOU ALLUDED TO THIS IN YOUR
7 PRESENTATION. I DON'T QUITE REMEMBER -- IS THAT IF
8 I GET A REQUEST FROM A DONOR SAYING I'VE CHANGED MY
9 MIND, I'M REALLY SORRY, BUT I JUST DON'T WANT YOU TO
10 KEEP MY FROZEN SKIN BIOPSY. I UNDERSTAND. I READ
11 THE CONSENT FORM THAT ALL THE WORK YOU'VE DONE
12 STANDS AND THE LINES CAN BE GIVEN OUT, BUT I'D LIKE
13 YOU TO STOP THE USE OF THE IDENTIFIED NATIVE
14 MATERIALS.

15 AND THEN I SAY, OKAY. I GOT THE LETTER,
16 BUT I'M GOING TO RUN TO MY LAB AND STRIP THE
17 IDENTIFIERS OFF THAT SKIN BIOPSY AND NOW SAY, WELL,
18 IT'S DEIDENTIFIED. I CAN'T HARM THE PATIENT'S
19 PRIVACY. ACCORDING TO THE COMMON RULE, THERE'S NO
20 HARM THAT CAN BE DONE. SO I CAN JUST CONTINUE TO
21 USE THE NATIVE MATERIALS PROVIDED I HAVE
22 DEIDENTIFIED. THAT JUST DOESN'T -- I'M PERSUADED
23 THAT'S THE TACK WE WANT TO FOLLOW. I THINK, THE
24 LAWYERS CAN CORRECT ME, I THINK THAT IS -- I KNOW
25 THAT'S DONE WITH SOME IRB'S. THEY SAY YOU WANT TO

BARRISTERS' REPORTING SERVICE

1 WITHDRAW RESEARCH, FINE. WE'LL JUST DEIDENTIFY YOUR
2 MATERIALS AND JUST CONTINUE.

3 SO WHAT I'M HEARING IS THAT NO ONE IS
4 SAYING PEOPLE SHOULDN'T HAVE THE RIGHT TO ONE AND
5 TWO. PEOPLE ARE SAYING THAT, FIVE, THE TRANSFORMED
6 MATERIALS, THAT HAS TO GO FORWARD. IF YOU'VE GIVEN
7 INFORMED CONSENT, YOU CAN LATER ON SAY I WANT TO
8 WITHDRAW THE TRANSFORMED MATERIALS THAT PEOPLE HAVE
9 ALREADY GOT. BUT I GUESS --

10 DR. ROBERT TAYLOR: I'M NOT SO SURE THAT I
11 BUY THAT PART. I KIND OF AGREE WITH DOROTHY ON THIS
12 LEVEL. SO I'M LOOKING FOR SOME LEGAL SPACE, I
13 GUESS, WHERE WE CAN PROTECT SOME OF THOSE RELIANT
14 SAMPLES THAT HAVE HAD A LOT INVESTED IN THEM AND TO
15 TRY TO COME UP WITH SOME GUIDELINES THAT WE CAN
16 SLEEP AT NIGHT WITH THAT WOULD ALLOW US TO CONTINUE
17 TO USE THOSE AND NOT HAVE TO GO ALL THE WAY TO THE
18 ENDS OF THE EARTH BOTH FIGURATIVELY AND LITERALLY TO
19 FIND ANY SAMPLE THAT MIGHT HAVE ULTIMATELY BEEN
20 DERIVED FROM AN ORIGINAL.

21 DR. KIESSLING: ISN'T THE CLEANEST ANSWER
22 TO THAT TO MAKE IT TIME LIMITED? YOU'VE GOT TWO
23 YEARS, NAME A TIME, A YEAR, TWO YEARS, THREE YEARS,
24 SOME PERIOD OF TIME. AFTER THAT --

25 DR. ROBERT TAYLOR: THAT SOUNDS LIKE A

BARRISTERS' REPORTING SERVICE

1 LEGAL KIND OF A QUESTION TO ME.

2 DR. PATRICK TAYLOR: WE SHOULD ALMOST
3 DISTRIBUTE THIS *NATURE* PIECE. WHAT THEY WERE
4 BASICALLY SAYING IS, LOOK, UNLESS YOU WRITE PAPERS
5 BASED ON UNRESTRICTED SAMPLES, WE'RE NOT GOING TO
6 PUBLISH YOUR PAPERS ANYMORE. I THINK BERNIE'S POINT
7 ABOUT A CHILLING EFFECT IS RIGHT ON POINT. THAT'S
8 WHAT THEY SEE AS NECESSARY TO REALIZE SCIENTIFIC
9 NORMS.

10 DR. KIESSLING: BUT WOULD TIME LIMITATION
11 SATISFY THAT?

12 DR. PATRICK TAYLOR: UNRESTRICTED IS
13 WHAT -- I'M NOT SAYING THAT *NATURE* SHOULD DICTATE TO
14 THE WORLD, BUT RESTRICTIONS THAT ACTUALLY END UP
15 MAKING IT IMPOSSIBLE TO REPLICATE WORK ARE
16 DIFFICULT.

17 I WONDER IF THERE'S SOME COMPROMISE HERE
18 BASED ON THE BASES OF THE REVOCATION. I THINK THE
19 EXAMPLE THAT YOU GAVE, ROB, WHICH IS A PRETTY
20 IMPORTANT EXAMPLE, WAS SOMEBODY THINKS THAT THE WORK
21 THAT'S BEING DONE HAS ACTUALLY BECOME UNETHICAL.
22 AND WE'VE TALKED ABOUT GOVERNANCE AND OTHER
23 MECHANISMS HERE, WHICH HAS BEEN REALLY DESIGNED TO
24 MAKE SURE THAT THE WORK REMAINED ETHICAL. KEEPING
25 DONORS INVOLVED MORE THOROUGHLY AND FOCUSING ON THE

BARRISTERS' REPORTING SERVICE

1 THINGS THAT DONORS REALLY CARE ABOUT. IF WE'VE DONE
2 THOSE THINGS RIGHT, THEN HAVEN'T WE ADDRESSED THE
3 CONCERN, WHICH IS A LEGITIMATE CONCERN THAT YOU'RE
4 TALKING ABOUT, AND ALSO EFFECTIVE RELIANCE.

5 SO MAYBE A WAY OF RESPONDING TO THIS IS TO
6 REFLECT IN THE DESIGN OF A BANK PARTICIPANT
7 INVOLVEMENT AND ENSURE OVERALL IT'S FUNCTIONING IN A
8 GOOD WAY, SO WE COULD AVOID THAT SITUATION. OF
9 COURSE, IF THERE'S SOME AUDIT BY THE STATE TREASURER
10 THAT SAYS, YEAH, THERE'S ALL THIS UNETHICAL STUFF
11 GOING ON, THERE OUGHT TO BE A LOT OF TERMINATION OF
12 SAMPLE INVOLVEMENT, NOT JUST ONE OR TWO. THAT MIGHT
13 BE A VERY LEGITIMATE WAY, I HOPE, OF RESPONDING TO
14 THE VERY IMPORTANT CONCERN.

15 CHAIRMAN LO: LET ME SORT OF POSE THE
16 QUESTION. NO. 5, WHICH IS I THINK THERE'S MORE THAN
17 ONE ETHICAL PRINCIPLE AT STAKE HERE. I GUESS MY
18 QUESTION IS DO WE DO SOME SORT OF BALANCING AND SAY
19 THAT, YES, WE BELIEVE IN RESPECT FOR DONORS, RESPECT
20 FOR THEIR AUTONOMY, BUT WE BALANCE THAT OFF AGAINST
21 JUSTIFIABLE RELIANCE AND BENEFITS TO SOCIETY. THE
22 RIGHT TO WITHDRAW IS NOT ABSOLUTE. AND THAT IN NO.
23 5 WE MIGHT DO A BALANCING AND SAY THAT AT THAT
24 SITUATION YOU CAN'T WITHDRAW. WHEREAS, WE MAY SAY
25 FURTHER UP THE LINE, MAYBE EVEN FOUR, WE'D SAY, YES,

BARRISTERS' REPORTING SERVICE

1 YOU CAN WITHDRAW EVEN IF IT MEANS ROB'S GOT TO GO
2 ROOTING AROUND IN HIS FREEZER AND SPEND A DAY
3 GETTING FROSTBITE.

4 IT SEEMS TO ME THAT'S DIFFERENT THAN
5 SAYING, WELL, ROB JUST LOST TWO YEARS OF RESEARCH
6 DERIVING AN IPS LINE THAT TIM IS NOW DOING
7 CARDIOLOGY RESEARCH ON. IT STRIKES ME THAT THERE'S
8 SOME LEVEL OF RELIANCE ON USING THE MATERIALS FOR
9 THE PUBLIC GOOD FOR GENERALIZABLE KNOWLEDGE THAT IN
10 THAT SITUATION OUTWEIGHS THE RIGHT OF THE
11 RESEARCH -- THE DONOR TO WITHDRAW.

12 DR. KAMP: IS THAT THE SORT OF THING THAT
13 COULD BE CLARIFIED IN THE CONSENT FORM ITSELF? TO
14 ME THAT SEEMS LIKE THE MOST LOGICAL WAY TO DEAL WITH
15 THAT, TO MAKE IT QUITE CLEAR AT THE TIME OF CONSENT.

16 CHAIRMAN LO: ABSOLUTELY. I THINK
17 WHATEVER WE SAY, IT'S GOT TO BE CLEAR. AND IT
18 STRIKES ME TO THE EXTENT WE REALLY WANT TO BE SURE
19 PEOPLE UNDERSTOOD WHAT THE TERMS OF THE AGREEMENT
20 WERE, THAT'S SOMETHING WE REALLY WANT TO MAKE SURE
21 THEY UNDERSTOOD, THAT YOU CAN ONLY WITHDRAW UP TO
22 HERE. I THINK WE'RE STILL DEBATING THAT. YOU CAN
23 CERTAINLY WITHDRAW NO FURTHER CONTACT, NO FURTHER
24 CONTACT, NO FURTHER COLLECTION OF MEDICAL
25 INFORMATION.

BARRISTERS' REPORTING SERVICE

1 I GUESS THE QUESTION -- I THINK WE'RE
2 SAYING THAT FIVE YOU CAN'T WITHDRAW. YOU CAN'T SAY
3 I'M GOING TO STOP YOU FROM WITHDRAWING -- FROM USING
4 TRANSFORMED MATERIAL. SO THE QUESTION IS NO. 3 AND
5 NO. 4. IF YOU WITHDRAW, CAN I SAY, WELL, I'M GOING
6 TO ANONYMIZE IT AND STILL USE IT? AND FOUR, IT
7 SEEMS TO ME, IS DO I HAVE THE RIGHT TO ASK ROB TO
8 ROOT AROUND IN HIS FREEZER TO GET THE PRIMARY SAMPLE
9 THAT NO ONE'S DONE ANYTHING OTHER THAN JUST TO PUT
10 IT IN LIQUID NITROGEN, I THINK, AND MAKE SURE IT'S
11 STORED AT THE RIGHT TEMPERATURE, BUT THAT'S ALL.
12 THEY HAVEN'T REALLY DONE MORE THAN THAT.

13 I GUESS WHAT I'M SUGGESTING IS THAT AS WE
14 BALANCE THE RIGHT OF AUTONOMY VERSUS JUSTIFIABLE
15 RELIANCE, IF I RELIED ON IT A LOT, I HAVE MORE OF A
16 SAY IN THAT BALANCE. WHERE IF I'VE RELIED ON IT A
17 LITTLE, THEN I SHOULD GIVE MORE DEFERENCE TO THE
18 RIGHT OF THE PATIENT TO WITHDRAW.

19 STEVE, YOU HAD YOUR HAND UP BEFORE.

20 DR. PECKMAN: SO THIS IS AN AREA THAT I'VE
21 ACTUALLY PUT A LOT OF THOUGHT IN. AND GEOFF AND I
22 HAVE ACTUALLY WORKED TOGETHER QUITE A BIT ON THIS.
23 AND I THINK THERE ARE SEVERAL ETHICAL PRINCIPLES
24 INVOLVED THAT YOU'VE ARTICULATED. AND ONE IS THE
25 CONCEPT OF AUTONOMY, WHICH IS REPRESENTED BY THE

BARRISTERS' REPORTING SERVICE

1 ABILITY TO WITHDRAW FROM RESEARCH. ONE EXERCISES
2 THEIR AUTONOMY THROUGH THAT PROCESS.

3 NOW, THE QUESTION IS WHAT DOES IT MEAN TO
4 WITHDRAW? WHAT DOES IT MEAN TO PARTICIPATE? THE
5 FEDERAL REGULATIONS SAY, AND CALIFORNIA LAW SAYS
6 THAT THE SUBJECT HAS THE RIGHT TO WITHDRAW FROM THE
7 RESEARCH. SO, THEREFORE, THE SUBJECT HAS THE RIGHT
8 TO NO MORE INTERACTION OR INTERVENTION WITH THAT
9 PERSON. SO THE QUESTION IS WHO OR WHAT IS THE
10 SUBJECT THEN? AND ARE WE CONFUSING A SUBJECT WITH
11 AN OBJECT?

12 THE MATERIAL REMOVED FROM THE DONOR, IF WE
13 SAY THE DONOR HAS THE RIGHT TO REMOVE THAT MATERIAL
14 FROM THE RESEARCH LATER, ARE WE SAYING, THEN, THAT
15 THAT MATERIAL IS THE PROXY FOR THE DONOR'S
16 PARTICIPATION AND REPRESENTS THAT PERSON? SO I
17 THINK WE HAVE TO THINK ABOUT BOTH THE SUBJECT AND
18 THE OBJECT IN THIS CASE.

19 THE SECOND ETHICAL PRINCIPLE IS ONE OF
20 ACTUALLY BENEFICENCE OF BALANCING THE RISKS AND
21 BENEFITS OF PARTICIPATING IN THE RESEARCH. AND I
22 THINK WHEN WE TALK ABOUT ANONYMIZATION, WE'RE
23 TALKING ABOUT BENEFICENCE, WHICH IS MINIMIZING THE
24 RISK OF PARTICIPATING IN THE RESEARCH. AND THAT IS,
25 ANONYMIZATION IS A METHODOLOGY FOR ACCOMPLISHING

BARRISTERS' REPORTING SERVICE

1 THAT GOAL.

2 NOW, I THINK, THIRD, YOU HAVE A PRECEDENT
3 YOU HAVE TO DEAL WITH WITHIN OUR OWN REGULATIONS AT
4 CIRM, WHICH IS FOR EMBRYO DONATION, AND THIS IS
5 CONSISTENT WITH NAS AND NIH, WHICH IS THE DONOR HAS
6 THE ABILITY TO WITHDRAW THE EMBRYO FROM THE RESEARCH
7 BEFORE THE DERIVATION PROCESS BEGINS. AT THE POINT
8 OF INITIATION OF THE DERIVATION PROCESS, THE DONOR
9 NO LONGER HAS THE ABILITY TO WITHDRAW THE MATERIAL.
10 CERTAINLY AFTER THE DERIVATION PROCESS IS AN
11 EXTENSION OF THAT PRINCIPLE. SO I THINK IT'S
12 IMPORTANT TO KEEP THAT IN MIND.

13 AND THOUGH I APPRECIATE BERNIE'S IDEA OF
14 KIND OF BALANCING THE ETHICAL PRINCIPLES, I THINK IN
15 THIS CASE I WOULDN'T BALANCE THEM, BUT I WOULD
16 DEFINE THEM AND MAKE THE APPROPRIATE DECISIONS BASED
17 ON THOSE DEFINITIONS. ONE IS THE CONCEPT OF
18 AUTONOMY, ADDRESSING THE CONFUSION BETWEEN SUBJECT
19 AND OBJECT, ENSURING THAT BENEFICENCE IS UPHELD AND
20 WE'RE ABLE TO MINIMIZE THE RISKS AND BENEFITS OF
21 PARTICIPATING IN THE RESEARCH WITHOUT DAMAGING THE
22 RESEARCH.

23 AND THIS IS A VERY IMPORTANT CONCEPT TO
24 WHAT SHERRY WAS TALKING ABOUT, WHICH IS DAMAGING THE
25 SCIENCE. AND IF WE THINK ABOUT BEING FORCED TO

BARRISTERS' REPORTING SERVICE

1 ANONYMIZE CELLS, YOU MAY ACTUALLY DAMAGE DOWNSTREAM
2 RESEARCH IN TERMS OF YOUR ABILITY TO TRANSLATE IT
3 INTO ACTUAL THERAPIES. BECAUSE IF YOU CUT OFF THAT
4 LINK BETWEEN THE IDENTIFICATION OF THE DONOR AND THE
5 AFFILIATED MEDICAL INFORMATION THAT GOES WITH THAT
6 BIOLOGICAL SAMPLE OR THE MATERIAL THAT'S CREATED
7 FROM THAT BIOLOGICAL SAMPLE, THEN YOU'RE DIMINISHING
8 THE ABILITY TO MEET FDA STANDARDS FOR TRANSLATION.

9 CHAIRMAN LO: LET ME JUST CLARIFY A COUPLE
10 THINGS. WHEN WE TALK ABOUT ANONYMIZATION, WHAT'S
11 GENERALLY MEANT IS THAT YOU ANONYMIZE -- YOU STILL
12 LINK THE EXISTING MATERIALS WITH THE EXISTING
13 CLINICAL ANNOTATIONS YOU HAVE. YOU JUST DEIDENTIFY
14 IT IN A HIPAA SENSE, BUT IT'S STILL LINKED. YOU CAN
15 PRESENT IT TO THE FDA AS SUBJECT 0001. HERE'S THE
16 SAMPLE, HERE'S THE DATA ON THE SAMPLE, HERE'S THE
17 CLINICAL INFORMATION. SO WE'RE NOT TALKING ABOUT
18 SEVERING THE LINK BETWEEN CLINICAL INFORMATION AND
19 THE SPECIMEN AND THE DATA.

20 DR. PECKMAN: IF THAT'S THE DEFINITION OF
21 ANONYMIZATION, I AGREE COMPLETELY.

22 CHAIRMAN LO: THAT'S WHAT'S TYPICALLY
23 DONE, MY UNDERSTANDING, WITH BIOBANKS. THEY GIVE A
24 RESEARCHER THE COMBINATION PACKET OF MATERIALS,
25 DATA, CLINICAL INFORMATION WITH A CODE, AND PROMISE

BARRISTERS' REPORTING SERVICE

1 NEVER TO BREAK THE CODE.

2 DR. PECKMAN: AT THE END OF THE DAY, YOU
3 DON'T WANT TO CREATE A SITUATION WHERE THE
4 RESEARCHER HAS THE CODE AND IS THEN RESPONSIBLE FOR
5 BREAKING HIS OR HER OWN CODE AND ANONYMIZING HIS OR
6 HER OWN SAMPLE, WHICH THEN RESULTS IN THE FACT THAT
7 EVERYONE IN THE WORLD GETS TO USE THE CELLS EXCEPT
8 FOR THE RESEARCHER WHO ORIGINALLY OBTAINED THEM
9 BECAUSE FOR HIS OR HER RESEARCH THEY NO LONGER HAVE
10 THE ABILITY TO CREATE THOSE LINKS. AND SO I THINK
11 YOU NEED TO BE CAREFUL IN THE PROCESS OF WHERE THESE
12 DISTINCTIONS OCCUR AND WHAT THE DOWNSTREAM EFFECTS
13 ARE TO EVERYONE IN THE PROCESS.

14 CHAIRMAN LO: AGAIN, I THINK THAT
15 RESEARCHERS ARE ENCOURAGED OR ACTUALLY REQUIRED
16 UNDER HIPAA TO USE THE LEAST IDENTIFIABLE FORM OF
17 INFORMATION CONSISTENT WITH THE GOALS SO THAT IF THE
18 RESEARCHER -- THAT'S ONE OF THE REASONS MANY PEOPLE
19 ARE ADVOCATING BIOBANKS BECAUSE THE BIOBANK KEEPS IT
20 IN IDENTIFIED FORMAT, AND THEN THE RESEARCHER GETS
21 IT IN ANONYMIZED OR DEIDENTIFIED FORMAT. I THINK
22 RATHER THAN -- I THINK WE MAY BE GETTING TOO DOWN IN
23 THE DETAILS, BUT I THINK STEVE RAISED A REAL
24 CHALLENGE, WHICH IS TO SAY, THERE ARE COUPLE OF
25 ISSUES, DOES RESPECT FOR PERSONS MEANS THAT YOU HAVE

BARRISTERS' REPORTING SERVICE

1 NO CONTROL OVER THE MATERIALS YOU DONATED ONCE YOU
2 DONATED THEM?

3 LET ME JUST SAY THERE'S ARGUMENTS ON THE
4 OTHER SIDE. SO IN CATALONA VS. WASH U ST. LOUIS,
5 THE APPEALS COURT SAID NO. YOU HAVE THE RIGHT TO
6 SAY GIVE IT BACK TO ME. I DONATED MY PROSTATE
7 TISSUE. I DON'T WANT TO DO IT ANYMORE. I THINK
8 WASH U ACTED UNETHICALLY IN SORT OF DEPRIVING MY
9 DOCTOR OF THE SAMPLES I DONATED TO HIM.

10 THEY CLAIMED THAT AT THE UNIVERSITY.
11 COURT SAID YOU CAN GET THEM REMOVED. WHAT YOU CAN'T
12 DO IS SAY I WANT TO TAKE IT OUT OF YOUR REPOSITORY
13 AND SORT OF WALK ACROSS TO CHICAGO WHEREVER MY
14 PROFESSOR NOW IS AND GIVE IT TO HIM. I THINK
15 THERE'S PRECEDENT ON BOTH SIDES TO SAY THAT MY RIGHT
16 AS A DONOR DOESN'T STOP WHEN THE CELLS HAVE LEFT MY
17 BODY. I STILL HAVE SOME CONTROL OVER THEM UP TO A
18 CERTAIN POINT.

19 SECOND THING -- BUT I THINK WE NEED TO
20 KEEP ANONYMIZATION IT IS CONSISTENT WITH THE COMMON
21 RULE, BUT I'M NOT SURE MANY PEOPLE -- SO THERE ARE
22 PHYSICAL HARMS AND THERE ARE PRIVACY HARMS, PHYSICAL
23 HARMS IN TISSUE RESEARCH. THERE ARE NO -- THOUGHT
24 TO BE NO PRIVACY HARMS IF IT'S REALLY DEIDENTIFIED.
25 SO THEN THE QUESTION IS IS IT STILL DEIDENTIFIED IF

BARRISTERS' REPORTING SERVICE

1 IT'S GOT A WHOLE GENOME SEQUENCE ATTACHED?
2 BUT THERE ARE WRONGS AS WELL AS HARMS IN
3 THE PRIVACY SENSE. AND I THINK INCREASINGLY WHAT
4 WE'RE SEEING IS PEOPLE SAYING, YOU KNOW, IF YOU
5 DEIDENTIFIED THIS AND DO RESEARCH, THAT DOESN'T
6 SOLVE MY OBJECTION. IT'S THE PEOPLE WHO HAVE
7 LEFT-OVER EMBRYOS THAT SAY I DON'T WANT THEM USED
8 FOR EMBRYO RESEARCH, AND RESEARCH SAYS, WELL, WE CAN
9 DEIDENTIFY THEM, AND WE DON'T HAVE TO TELL YOU, AND
10 WE'RE USING THEM. SO WE TEND TO SAY NO, AND THAT'S
11 A SPECIAL EXAMPLE BECAUSE EMBRYOS ARE OF SPECIAL
12 MORAL SIGNIFICANCE TO SOME. BUT I THINK YOU CAN
13 THINK OF A LOT OF OTHER EXAMPLES WHERE PEOPLE OBJECT
14 TO CERTAIN TYPES OF RESEARCH. ANONYMIZING DOESN'T
15 RESOLVE MY OBJECTION. I THINK WE NEED TO -- I THINK
16 WE HAVE TO GIVE A LOT OF DEFERENCE TO THE COMMON
17 RULE BECAUSE IT'S WHAT CONTROLS FEDERALLY FUNDED
18 RESEARCH.

19 COMMON RULE IS A FLOOR. IT DOESN'T MEAN
20 THAT YOU CAN'T IN ANY INDIVIDUAL CASE OR INSTITUTION
21 OR RESEARCHER OR FUNDER REQUIRE OTHER THINGS. SO I
22 THINK WE HAVE A LOT OF THINGS. NICOLE, YOU'VE BEEN
23 STRUGGLING WITH THIS AS WELL.

24 DR. LOCKHART: I WOULD AGREE. IN TERMS OF
25 OPTION 3, PURPOSEFUL ANONYMIZATION IN RESPONSE TO A

BARRISTERS' REPORTING SERVICE

1 REQUEST TO WITHDRAW I THINK IS LEGAL, BUT COMPLETELY
2 ETHICALLY UNTENABLE. IF SOMEONE CARES ENOUGH TO
3 TRACK YOU DOWN AND ASK YOU TO STOP USING THEIR
4 TISSUE AND YOU RESPOND TO THAT BY ANONYMIZING SO
5 THAT YOU CAN CONTINUE USE, I THINK THAT'S VERY
6 DISRESPECTFUL. I DON'T REALLY THINK THAT'S A VIABLE
7 OPTION.

8 I WOULD SAY THAT IDENTIFIABLE SPECIMENS
9 STILL CONSTITUTE HUMAN SUBJECT RESEARCH UNDER THE
10 COMMON RULE IF THEY'RE TRULY IDENTIFIABLE. EVEN IF
11 THEY'RE CODED, IF YOU HAVE THE LINK, SOMEONE HAS THE
12 LINK, AND YOU CAN WITHDRAW THE SPECIMEN, THEN I
13 THINK YOU PROBABLY SHOULD. THAT LINE DOES MAKE
14 SENSE TO ME. AT LEAST IN MY MIND, I AM WILLING TO
15 VIEW TRANSFORMED MATERIALS AS DISTINCT. I THINK
16 FROM THE INTELLECTUAL PROPERTY PERSPECTIVE, THEY
17 WOULD PROBABLY BE CONSIDERED DISTINCT. AND I THINK
18 ANOTHER ETHICAL PRINCIPLE WE CAN THINK ABOUT, AND I
19 DON'T REALLY KNOW PRECISELY WHAT TO CALL THIS, IS
20 HARM TO RESEARCH IN GENERAL.

21 SO IF YOU CHOOSE FIVE PATIENTS WITH HEART
22 DISEASE TO DEVELOP AN IPSC LINE, AND ONE OF THEM
23 WITHDRAWS, DO YOU HAVE TO DESTROY ALL DOWNSTREAM
24 MATERIALS OR STOP USING ALL DOWNSTREAM LINES?
25 THAT'S NOW 20 PERCENT. THAT HARMS THE OTHER PEOPLE

BARRISTERS' REPORTING SERVICE

1 WHO CONTRIBUTED TO RESEARCH IN SOME WAY TOO, AND YOU
2 COULD HAVE CHOSEN SOMEONE ELSE. YOU COULD HAVE
3 ALLOWED SOMEONE ELSE TO HAVE THAT OPPORTUNITY. IT
4 DOES MAKE SENSE TO ME TO DRAW THE LINE AT BEING ABLE
5 TO WITHDRAW PRIMARY TISSUE, BUT NOT TRANSFORMED
6 MATERIALS.

7 MS. FEIT: MAYBE THIS IS NAIVE ON MY PART,
8 COULD BE, BUT IT SEEMS LIKE WE MAY BE MAKING A BIG
9 MISTAKE WITH EVEN DISCUSSING WITHDRAWAL AS AN
10 OPTION. BECAUSE IN ORGAN TRANSPLANT, IF I GIVE UP A
11 KIDNEY AND SOMEBODY TURNS INTO AN ALCOHOLIC AND I
12 WANT MY KIDNEY BACK, IT DOESN'T WORK THAT WAY.

13 DR. LOCKHART: THAT'S ENTIRELY DIFFERENT.

14 MS. FEIT: IT IS AND IT ISN'T. I THINK
15 WE'RE MAKING IT DIFFERENT WITH THE RULES WE SET UP
16 BECAUSE IT'S STILL TISSUE, IT'S PART OF A PERSON'S
17 BODY, AND THEY GAVE IT UP FOR A BENEFICIAL PURPOSE
18 TO SOMEBODY ELSE. AND NOWHERE IN ANY OF THOSE
19 CONSENTS DOES IT SAY AT ANY TIME YOU CAN WITHDRAW
20 THE ORGAN. AND I THINK -- SO SHOULDN'T WE START
21 TALKING ABOUT WHY DO WE HAVE -- IF SOMEBODY WANTS TO
22 TALK ABOUT, WELL, I WANT THE OPTION TO TAKE THAT
23 BACK, I THINK RIGHT AWAY WE HAVE THE RISK OF HAVING
24 THAT HAPPEN BECAUSE WE CAN'T DREAM UP ALL THE
25 POSSIBLE CIRCUMSTANCES THAT CAN COME UP THAT THAT

BARRISTERS' REPORTING SERVICE

1 PERSON WILL NOT LIKE OR NOT WANT. AND THAT WILL
2 CHANGE IN TIME. SO I'M JUST SAYING THAT AS A
3 RELATIVE BECAUSE TO ME IT FEELS THE SAME.

4 CHAIRMAN LO: SO, MARCY, ONE OTHER WAY OF
5 FRAMING YOUR ANALOGY IS TO SAY THAT ONCE YOU'VE
6 DONATED AN ORGAN FOR TRANSPLANT AND IT'S BEEN
7 TRANSPLANTED, THAT RECIPIENT HAS REALLY RELIED ON
8 YOU. SO CERTAINLY IF IT'S SOMETHING LIKE A LIVER,
9 TO BE ABLE TO WITHDRAW IT WOULD BE FATAL. SO I
10 THINK THAT'S THE EXTREME EXAMPLE OF THE JUSTIFIABLE
11 RELIANCE. HOWEVER, I WOULD IMAGINE, I WOULD FIND IT
12 HARD TO BELIEVE A TRANSPLANT TEAM WOULD SAY IF I
13 GIVE CONSENT OR, I GUESS, IF I GIVE CONSENT FOR SOME
14 OF MY FAMILY AND I CHANGE MY MIND BEFORE THEY
15 HARVEST THE ORGAN, THEY SAY, WELL, TOO BAD.

16 CERTAINLY IF I WERE A LIVING DONOR AND
17 DECIDED I ACTUALLY DIDN'T WANT TO GIVE MY RIGHT LOBE
18 OF MY LIVER TO --

19 MS. FEIT: I JUST BRING IT UP BECAUSE I
20 THINK WE'VE INSERTED WITHDRAWAL. MAYBE THESE PEOPLE
21 SELF-SELECT OUT. MAYBE THEY AREN'T DONORS BECAUSE
22 THEY HAVE ALL THE PREBIASED SITUATIONS THEY MAY
23 THINK OF IN THE BEGINNING. I DON'T KNOW HOW MANY
24 PEOPLE THAT WOULD REPRESENT. THOSE OF YOU WHO WORK
25 WITH TISSUE HARVESTING AND CELL HARVESTING WOULD

BARRISTERS' REPORTING SERVICE

1 KNOW MORE HOW MANY DONORS WOULD YOU LOSE IF YOU SAID
2 YOU'RE IN THE PROGRAM AND YOU GIVE -- AND THERE IS
3 NO WITHDRAWAL BECAUSE WHAT'S USED UNDER THESE
4 GUIDELINES. I DON'T KNOW --

5 CHAIRMAN LO: LET ME JUST BE CLEAR. WE
6 HAVEN'T INSERTED THIS. THIS IS FEDERAL REGULATION,
7 THAT YOU HAVE THE RIGHT TO WITHDRAW FROM RESEARCH.
8 RESEARCH IS REALLY DIFFERENT.

9 MS. LANSING: BUT YOU'RE BRINGING UP A
10 VERY INTERESTING POINT. I TEND TO -- I KNOW THEY'RE
11 DIFFERENT, BUT I TEND TO REALLY UNDERSTAND WHAT
12 YOU'RE SAYING. AGAIN, AND AGAIN, I GO BACK TO FIRST
13 WHEN WE WERE PROTECTING THE PATIENT AND NOW I'M
14 REALLY TRYING TO PROTECT THE SCIENTIST. THERE IS
15 EXISTING LAWS THAT SAY THAT. WE'RE NOT GOING TO
16 CHANGE THAT. BUT TO GO BEYOND WHAT'S EXISTING, IT
17 SEEMS TO ME TO BE DOING SOMETHING THAT CAN REALLY
18 HARM SCIENCE. AND WE AT CIRM, AND THIS IS SOMETHING
19 THAT, BERNIE, YOU HAVE BROUGHT UP, SO I DON'T WANT
20 TO TAKE CREDIT FOR THIS, WE AT CIRM COULD DECIDE NOT
21 TO TAKE ANYONE THAT -- WE COULD SAY YOU CAN'T OPT
22 OUT ONCE YOU'RE DOING IT. WE COULD DO THAT AT CIRM
23 TO PRESERVE WHATEVER SCIENCE WE WANT.

24 WE COULD, GOING BACK TO THE FIRST ISSUE,
25 SAY WE'RE NOT TAKING -- WE'RE DOING A LIMITED AMOUNT

BARRISTERS' REPORTING SERVICE

1 OF RESEARCH. BERNIE, YOU BROUGHT THIS UP. WE COULD
2 SAY WE'RE NOT TAKING ANYONE WHO WON'T LET US USE THE
3 LINES FOR ALL DISEASES. WE HAVE THE RIGHT TO DO
4 THAT. THE PATIENT DOESN'T HAVE TO DO IT, AND I
5 UNDERSTAND THAT POSITION.

6 MS. FEIT: THAT IS THE ANALOGY I WAS
7 TRYING TO MAKE. CAN WE MAKE THAT DECISION?

8 MS. LANSING: WE HAVE LIMITED AMOUNT OF
9 WORK THAT WE CAN DO, AND WE CAN DECIDE THAT WE WANT
10 TO MAXIMIZE IT TO THE MOST.

11 MS. FEIT: I HONESTLY, AFTER LISTENING FOR
12 THIS A COUPLE HOURS TODAY, DON'T KNOW HOW YOU'RE
13 EVER GOING TO TRACK THAT DOWNSTREAM FIVE, TEN YEARS
14 FROM NOW. HOW ARE YOU GOING TO TRACK THAT? YOU ARE
15 GOING TO FAIL. SOMEWHERE ALONG THE LINE, YOU'RE
16 GOING TO SET YOURSELF UP TO FAIL. AND WE'RE ALL
17 GOING TO GO TO DR. TAYLOR AND SAY WHY DID YOU LET IT
18 GO? GEE, THAT WAS FIVE YEARS AGO. I DON'T
19 REMEMBER. THIS DOESN'T SEEM LIKE IT'S GOING TO
20 WORK.

21 GOING BACK TO WHAT NICOLE SAID, DON'T SAY
22 YOU ARE GOING TO DO SOMETHING AND NOT DO IT.

23 DR. FEIGAL: THE ONLY ANALOGY, IT'S A
24 LITTLE BIT DIFFERENT, BUT I WANT TO BRING IT UP. A
25 CLINICAL TRIAL YOU COLLECT BIOLOGICAL SPECIMENS.

BARRISTERS' REPORTING SERVICE

1 OKAY. IT MAY BE DONE UNDER A REGULATORY FRAMEWORK.
2 YOU'RE COLLECTING THEM TO HELP ANSWER A QUESTION AND
3 THE PATIENT ENROLLED, AND THEN MAYBE AT X POINT
4 PATIENT DOESN'T WANT TO CONTINUE THAT TRIAL. THAT'S
5 THEIR RIGHT TO STOP OUT OF ANY FURTHER INTERACTIONS
6 OR TREATMENT. I THINK WHAT WOULD BE A MISTAKE,
7 WHICH IS NOT DONE, IF SOMEBODY ENTERED THE TRIAL AND
8 THEY HAVE SPECIMENS THAT NEED TO HAVE CERTAIN THINGS
9 LOOKED AT BEFORE THEY SAID I DON'T WANT TO BE IN THE
10 TRIAL ANYMORE, BUT YOU HAVEN'T ACTUALLY DONE THE
11 LABORATORY ASSESSMENT, YOU DON'T NOT DO IT. IN A
12 CLINICAL TRIAL YOU ACTUALLY DO PERFORM THE
13 INFORMATION THAT'S NEEDED FROM THOSE SPECIMENS.

14 SO THE FACT THAT YOU DIDN'T DO THAT LAB
15 TEST AT THE TIME, THE SPECIFIC TIME THE SAMPLE WAS
16 OBTAINED, YOU COULD ARGUE THE TECHNICALITIES OF IT.
17 BUT IF YOU LOOK AT THE BIGGER PICTURE, MISSING DATA
18 IS ONE OF THE BIGGEST ISSUES IN RESEARCH THAT CAUSE
19 QUESTIONS NOT TO BE ANSWERED IN A VALID WAY. AND
20 YOU'RE NOT JUST IMPACTING THAT ONE INDIVIDUAL.
21 YOU'RE IMPACTING THE WHOLE PROGRAM.

22 SO I DO THINK IT'S A SPECIAL CASE, BUT
23 JUST LIKE TO HAVE THAT COME UNDER THE RADAR, UNDER
24 THE ILLUMINATION TOO OF WHAT WE'RE DOING.

25 MS. LANSING: I THINK THERE IS A

BARRISTERS' REPORTING SERVICE

1 DIFFERENCE UNLESS I'M UNDERSTANDING CLINICAL TRIALS
2 INCORRECTLY. A PATIENT IS PARTICIPATING IN CLINICAL
3 TRIALS. WHATEVER IS BEING DONE WITH THEIR TISSUE
4 WHILE THEY'RE PARTICIPATING I THINK CAN CONTINUE,
5 BUT THE PATIENT, THAT'S WHERE YOU DISAPPEAR, THE
6 PATIENT DISAPPEARS, I MAY BE IN CLINICAL TRIALS AND
7 SAY THIS IS JUST TOO TOXIC. I CAN'T TAKE THIS
8 ANYMORE. I DON'T WANT THE DRUG ANYMORE. OF COURSE,
9 THAT'S LIKE SAYING I'VE DECIDED NOT TO DONATE. BUT
10 WHATEVER HAS BEEN -- WHATEVER RESEARCH IS BEING DONE
11 ON THE CELL OR THE TISSUE, WHATEVER, I THINK THAT
12 SHOULD BE ALLOWED TO CONTINUE.

13 DR. FEIGAL: IT IS. IT IS, BUT WHAT I'M
14 SAYING IS THE ANALOGY IS THE SPECIMEN WAS COLLECTED,
15 BUT THE TEST WAS NOT DONE YET. WE DO THE TEST.

16 MS. LANSING: THAT'S WHAT I'M SAYING. I
17 AGREE.

18 DR. FEIGAL: I'M SAYING THERE'S SOMEWHAT
19 OF AN ANALOGY THERE.

20 DR. ROBERT TAYLOR: IT'S KIND OF LIKE
21 STEVE'S OBJECT AND SUBJECT. THAT WOULD BE A REALLY
22 CLEAN WAY TO DO IT IF WE COULD. I REALLY LIKE THAT
23 ANALOGY. I DON'T KNOW THAT WE CAN GET AWAY WITH
24 THAT LEGALLY.

25 DR. ROBERTS: IF IN THE CLINICAL TRIAL,

BARRISTERS' REPORTING SERVICE

1 THOUGH, THAT PATIENT WHO WITHDREW SAID I ALSO WANT
2 MY TISSUE BACK, WHAT HAPPENS THEN?

3 MS. LANSING: YOU CAN'T GET IT BACK.

4 DR. ROBERTS: YOU CAN'T GET IT BACK.

5 MS. LANSING: THAT'S WHY I'M SAYING WHY
6 WOULD WE DO A STRONGER THING? WHY WOULD YOU DO
7 SOMETHING STRONGER THAN WHAT'S ALREADY BY THE LAW?
8 YOU ARE GOING TO REALLY HARM YOUR SCIENTISTS.

9 DR. KIESSLING: I WANT TO COME BACK TO THE
10 WHOLE TIME THING. I THINK THAT THERE SHOULD BE A
11 PERIOD OF TIME AFTER YOU'VE DONATED TISSUE IN WHICH
12 YOU HAVE A TIME TO REFLECT, AND THEN AFTER THAT IT'S
13 DONE.

14 MS. LANSING: THAT WOULD HAVE TO BE A
15 SHORT PERIOD OF TIME.

16 DR. KIESSLING: RIGHT. A MONTH, TWO
17 WEEKS.

18 MS. LANSING: THEN THAT WOULD MEAN THAT
19 YOU COULDN'T START ON ANYTHING FOR A MONTH OR TWO
20 WEEKS. I DON'T KNOW WHAT HAPPENS TO THE MATERIAL.

21 CHAIRMAN LO: I THINK THE LAWYERS ARE
22 GOING TO HAVE HELP ME OUT HERE, BUT I THINK WE HAVE
23 AN EXISTING LEGAL FRAMEWORK WHERE WE CAN'T MAKE
24 PEOPLE SIGN AWAY THEIR RIGHTS TO BE IN THE RESEARCH
25 PROJECT. WE HAVE TO GIVE PEOPLE THE RIGHT TO

BARRISTERS' REPORTING SERVICE

1 WITHDRAW.

2 DR. FEIGAL: NOBODY IS SAYING THE PERSON
3 CAN'T WITHDRAW. NOBODY IS SAYING THAT.

4 CHAIRMAN LO: I ACTUALLY THINK I WOULD
5 LIKE TO ACTUALLY GET A LEGAL ANALYSIS OF THAT AS TO
6 WHETHER -- THERE MUST BE CASE LAW ON THIS.

7 DR. FEIGAL: WHAT'S YOUR SPECIFIC
8 QUESTION, BERNIE?

9 CHAIRMAN LO: WHETHER A PATIENT --

10 DR. FEIGAL: ON A CLINICAL TRIAL.

11 CHAIRMAN LO: -- LOSES THE RIGHT TO
12 WITHDRAW SPECIMENS BECAUSE CATALONA CLEARLY IN THE
13 APPELLATE DECISION SAID, NO, YOU'VE GOT THAT RIGHT.
14 SO I THINK THERE'S GOT TO BE AT LEAST SOME PRECEDENT
15 ON THE SIDE OF, NO, YOU MAY WITHDRAW TISSUE. AND
16 THAT WAS A BIOBANK. PROSTATE TISSUE COLLECTED FOR
17 RESEARCH.

18 MS. FEIT: AND WE SET UP A BANK THAT
19 DOESN'T ACKNOWLEDGE THAT. THAT'S THE QUESTION.

20 DR. PARTICK TAYLOR: BERNIE, TO SOME
21 DEGREE STATE'S INTERPRETATIONS VARY. BUT THE
22 RECOVERY OF THE SPECIMEN VERSUS STOPPING RESEARCH ON
23 THE SPECIMEN AND USE OF DATA ON IT PROSPECTIVELY
24 COME TO BE SOMEWHAT BLURRED. SO IF SOMEBODY DOESN'T
25 WANT WORK DONE, THEN IT'S LESS AN ISSUE OF CAN YOU

BARRISTERS' REPORTING SERVICE

1 FIND THE LITTLE THING AND GIVE IT BACK TO THEM
2 INTACT BY REGISTERED MAIL. IT'S CAN YOU ACTUALLY
3 MAKE SURE THEY DON'T HAVE ACCESS TO THIS DATA.

4 THERE'S REALLY TWO WAYS THAT CAN HAPPEN.
5 ONE WAY IS ACTUALLY WHEN THROUGH INABILITY TO TRACE
6 IT, THEY ACTUALLY REALLY DON'T HAVE ACCESS TO IT.
7 THEN THE STRUCTURE OF THE THING AND ENSURING IN THE
8 SENSE THAT TO A LARGE EXTENT THE PERSON'S WISHES ARE
9 OBSERVED.

10 THE OTHER WAY IS ACTUALLY IF THEY ACTUALLY
11 CAN. THROUGH GOOD FAITH EFFORTS, THEY KNOW WHAT IT
12 IS AND THEY SEE IT AND YOU CAN REALLY STOP RESEARCH
13 ON IT. BUT THE RECONCILIATION OF RESEARCH ON THE
14 THING AND THE DATA THAT RESULTS, THERE'S ALWAYS BEEN
15 SOME BLURRING AND IT'S GETTING BLURRIER WITH DNA
16 STUFF.

17 CHAIRMAN LO: AGAIN, JUST TO SORT OF MAKE
18 SURE I UNDERSTAND. SO IS IT -- WOULD YOU SAY THAT
19 THERE IS NO CLEAR LEGAL CONSENSUS THAT IN A RESEARCH
20 PROJECT, ONCE YOU'VE AGREED TO THE RESEARCH, YOU MAY
21 NOT STOP TESTS OR THINGS BEING DONE TO THE SAMPLE
22 BEFORE IT'S BEEN TRANSFORMED, ASSUMING THEY CAN FIND
23 IT?

24 DR. PATRICK TAYLOR: I THINK THAT IF
25 THINGS ARE ORGANIZED SO THAT SAMPLES REMAIN

BARRISTERS' REPORTING SERVICE

1 IDENTIFIABLE AND SOMEONE WANTS TO WITHDRAW FROM
2 ONGOING WORK, THEN THE EFFECT OF A REVOCATION IS TO
3 STOP RESEARCHERS IN THAT CIRCUMSTANCE WITH THAT
4 FEASIBILITY PATHWAY FROM CONTINUING TO USE DATA IN
5 THEIR STUDIES DERIVED FROM THAT SAMPLE. THAT'S
6 LITERALLY WHAT IT MEANS. AND THAT WOULD BE THE
7 IRB'S REMEDY, OF COURSE. IT'S NOT AS IF SOMEONE CAN
8 SEND TO THE SHERIFF TO MAKE SURE THAT THE SAMPLE IS
9 THERE. THAT'S WHAT IT MEANS.

10 ON THE OTHER HAND, IF THE DATA HAS ALREADY
11 BEEN SET UP IN A WAY THAT'S FULLY AGGREGATED, SO
12 IT'S IMPOSSIBLE, THEN THE REMEDY IS REALLY LIMITED
13 TO NOT BEING ABLE TO DO ANYTHING. NO ONE IS GOING
14 TO SAY, OKAY, GO BACK AND DO ALL THIS WORK. AND THE
15 EXTENT TO WHICH SOMEONE CAN ACTUALLY BREAK CODE IS
16 PROBABLY A PRODUCT OF THE IRB'S TOLERANCES.

17 BUT I HAVE NEVER SEEN A SITUATION WHERE
18 THE RIGHT TO REVOKE WAS FARTHER THAN THAT IN THE
19 CONTEXT OF A BASIC SCIENCE ORIENTED BANK.
20 INTERVENTIONAL STUDIES ARE SO DIFFERENT. OF COURSE,
21 THIS STRUCTURE WAS SET UP WITH INTERVENTIONAL
22 STUDIES IN MIND WHERE THE REAL MEANING OF IT WAS
23 STOP INTERVENING ON MY BODY. IT WAS SORT OF DERIVED
24 FROM THE CLINICAL RIGHT TO REVOKE CONSENT.

25 CHAIRMAN LO: YOU IN YOUR ROLE AS HOSPITAL

BARRISTERS' REPORTING SERVICE

1 ATTORNEY IN A RESEARCH INSTITUTION WHO ARE PRESENTED
2 THE CASE OF SOMEONE WHO WAS A RESEARCHER WHO WAS
3 FACED WITH A CLEAR WITHDRAWAL OF PARTICIPATION AND
4 RESEARCH FROM A SUBJECT AND SPECIFICALLY SAID I
5 UNDERSTAND THE LINES HAVE BEEN DERIVED, THE DATA
6 FROM THAT, THAT'S GOING TO CONTINUE, BUT I JUST
7 DON'T WANT YOU TO CONTINUE TO USE MY ORIGINAL
8 SPECIMEN IN ANY OTHER WAYS, BUT YOU CAN CONTINUE TO
9 USE THE IPS LINE WITH THOSE FOUR OTHER DONORS.

10 DR. PATRICK TAYLOR: THEY WOULD ACTUALLY
11 THINK THAT DONOR WAS MAKING A REQUEST REMARKABLY
12 CONSONANT WITH WHAT THE LAW ACTUALLY PROVIDES TO THE
13 EXTENT THAT THEIR INDIVIDUAL SAMPLE REMAINS
14 IDENTIFIABLE TO THE EXTENT IT HAS. THERE'S A
15 VARIETY OF STRUCTURES HERE.

16 CHAIRMAN LO: YOU WOULD ADVISE THEM TO, IF
17 THEY CAN FIND THE SAMPLE, TO WITHDRAW IT FROM
18 FURTHER RESEARCH?

19 DR. PATRICK TAYLOR: TO MAKE SURE IT'S NOT
20 INCLUSION FOR THE RESEARCH STUDIES, YEAH. I
21 WOULDN'T SAY THEY HAD TO NECESSARILY GO -- IF ALL
22 THE OTHER REFRIGERATOR FROZEN SAMPLES ARE OFF
23 SOMEWHERE ELSE AND NO ONE IS EVEN USING THEM, YOU
24 WANT TO MAKE SURE THE RIGHT IS RESPECTED, BUT THERE
25 ARE A LOT OF WAYS OF DOING THAT.

BARRISTERS' REPORTING SERVICE

1 DR. LOCKHART: IF I CAN JUST ADD ONE OTHER
2 MINOR THING WHICH MAY OR MAY NOT BE A CONSEQUENCE TO
3 YOU. IF YOU ARE GOING TO BE OR THIS BANK WOULD BE
4 STORING TISSUE SAMPLES, IT MAY BE POSSIBLE THAT IN
5 THE FUTURE PATIENTS MAY WANT THEIR SAMPLES BACK FOR
6 THEIR OWN CLINICAL PURPOSES. THAT'S BECOMING MORE
7 COMMON NOW, ESPECIALLY WITH THE MOVE TOWARDS
8 PERSONALIZED MEDICINE, THAT MAYBE A PATIENT HAD A
9 TUMOR SAMPLE OR SOME SAMPLE REMOVED AT SOME POINT.
10 THEY NOW NEED IT TO ENTER A NEW CLINICAL TRIAL OR
11 SOMETHING. IT HAS TO BE A FROZEN SPECIMEN. THE
12 ONLY FROZEN SPECIMEN IS IN THE BIOBANK.

13 SO YOU MAY ALSO WANT TO CONSIDER WHAT YOU
14 WOULD DO IN THAT INSTANCE WHERE A PATIENT IS WANTING
15 A SPECIMEN, NOT TO WITHDRAW BECAUSE THEY DON'T WANT
16 TO PARTICIPATE IN RESEARCH, BUT BECAUSE THEY NEED
17 THAT SPECIMEN FOR THEIR OWN CARE. THAT'S ALSO
18 SOMEWHAT UNCOMMON, BUT I WOULD THINK IT MIGHT BECOME
19 MORE AND MORE COMMON.

20 DR. ROBERTS: IT SOUNDS TO ME LIKE IT MAY
21 BE POSSIBLE TO DRAW A LINE BETWEEN THE FURTHER USE
22 OF THE SPECIMEN ITSELF, EITHER THE USE OF IT OR THE
23 ACTUAL PHYSICAL CUSTODY OF IT. SO THE DONOR RETAINS
24 THE RIGHT TO TAKE BACK THE SPECIMEN AND THE RIGHT TO
25 STOP ANY FURTHER USE OF THE SPECIMEN. BUT IF IT'S

BARRISTERS' REPORTING SERVICE

1 ALREADY BEEN TRANSFORMED, ALREADY THE LINES HAVE
2 BEEN DERIVED, THAT THEN THE RELIANCE ON IT, THE HARM
3 THAT WOULD COME TO THE RESEARCHERS AS A RESULT OF
4 STOPPING THAT RESEARCH OVERRIDES, THEN, THE RIGHTS,
5 THE INTERESTS THAT THE DONOR HAS IN RETAINING
6 CONTROL OVER THE USE OF WHAT'S BEEN DERIVED -- AND
7 THE PROVIDED FOR ALL OF THIS IS THAT ALL OF THIS WAS
8 IN THE INFORMED CONSENT PROCESS, AND THE DONOR WAS
9 TOLD THAT THIS IS WHAT DISTINCTION WOULD BE MADE AND
10 WHAT WOULD HAPPEN AND WHAT THE ANSWER WOULD BE TO A
11 FUTURE REQUEST TO WITHDRAW.

12 DR. ROBERT TAYLOR: I ARGUED AGAINST THAT
13 A LITTLE BIT EARLIER, BUT IT WAS REALLY NICOLE'S
14 COMMENT ABOUT PATENT LAW SUPPORTING THE IDEA OF ONCE
15 YOU'VE ACTUALLY TRANSFORMED THESE CELLS, YOU CREATED
16 SORT OF AT LEAST A LEGALLY NEW ENTITY. THAT SORT OF
17 RESONATES WITH ME A LITTLE BIT AS ANOTHER WAY OF
18 KIND OF FORMING SOME LINE OF DEMARCATION. SO I
19 ACTUALLY LIKE WHERE YOU GUYS ARE GOING WITH THIS.

20 DR. ROBERTS: I'M NOT SURE IF I AGREE.
21 I'M JUST STATING I THINK THERE IS A PRINCIPLED WAY.
22 ALTHOUGH I WOULD ALSO SAY, THOUGH, THAT THE WHOLE
23 ISSUE AT LEAST OF GENE PATENTING IS STILL UP IN THE
24 AIR. IT'S BEFORE COURTS NOW. IT'S BEING LITIGATED,
25 AND THERE'S QUITE A CONTROVERSY AROUND THAT.

BARRISTERS' REPORTING SERVICE

1 DR. ROBERT TAYLOR: THAT AT LEAST IS
2 NOT BECAUSE IT'S NOT REALLY -- THE TRANSFORMATIONAL
3 PROCESS, I GUESS, SEEMS TO BE AN ARGUABLE STEP.

4 DR. ROBERTS: IT IS. IT IS. I'M JUST
5 SAYING I DON'T THINK THAT THE CURRENT STATE OF
6 PATENT LAW DEFINITELY SAYS THAT THE -- THAT
7 DEFINITELY PROVIDES THE ANSWER FOR GENE
8 SEQUENCING.

9 CHAIRMAN LO: WHERE DO WE STAND?

10 DR. PATRICK TAYLOR: EVEN APART FROM THE
11 PANEL ON STUFF, IT'S REMARKABLE HOW DISCIPLINES
12 DEVELOP THEIR OWN LANGUAGE, THEIR OWN CULTURE. SO
13 WITHIN TECHNOLOGY TRANSFER, THESE TERMS OF
14 DERIVATIVES AND MODIFICATIONS ACTUALLY HAVE PRETTY
15 WELL-ESTABLISHED MEANINGS UNDER WHICH PEOPLE AGREE,
16 WHICH IS, I THINK, IMPORTANT. IF THEY HAVE
17 DISPUTES, THEY CAN AVOID THEM OR RESOLVE THEM
18 RAPIDLY BASED ON SORT OF THEIR LOOK, WHETHER THE
19 CELLS HAVE BEEN MODIFIED OR OTHERWISE. IT SEEMS TO
20 ME THERE'S A TREMENDOUS ADVANTAGE FOR EVERYBODY IN
21 RELYING ON THOSE KINDS OF DEFINITIONS WHICH DO EXIST
22 STARTING ACTUALLY FROM THE ORIGINAL VARMIS ERA
23 UNIFORM BIOLOGICAL MATERIAL TRANSFER AGREEMENT. AND
24 SEEING EVERYTHING ALIGNED THERE SO WE DON'T CREATE
25 SOME CATASTROPHE FOR RESEARCHERS WHERE PEOPLE ARE

BARRISTERS' REPORTING SERVICE

1 REVOKING ACROSS OTHER STRUCTURAL LINES THAT ARE
2 IMPORTANT TO THE TRANSLATION OF RESEARCH INTO
3 PRACTICE.

4 CHAIRMAN LO: I'M HEARING A NUMBER OF
5 PEOPLE SAYING THAT FOR A COMBINATION OF REASONS,
6 WHICH MAY BE PRECEDENT, THAT THIS IS CONSISTENT WITH
7 IP AND TECH TRANSFER AGREEMENTS, OR THAT THERE'S
8 SOME SORT OF ATTEMPT TO HAVE SOME SORT OF PRINCIPLED
9 EXPLANATION, THAT DRAWING THE LINE BETWEEN, I GUESS,
10 WHAT YOU CALLED, GEOFF, THE PRIMARY SAMPLE THAT WAS
11 DONATED VERSUS A MODIFIED SAMPLE OR DERIVATIVE, THAT
12 WE WILL ALLOW WORK WITH THE DERIVATIVES AND
13 MODIFICATIONS TO CONTINUE EVEN DESPITE AN EXPLICIT
14 REQUEST FROM THE PATIENT TO WITHDRAW FROM RESEARCH.

15 BUT AM I HEARING THAT WE WOULD ALLOW THE
16 PATIENT TO SAY IF YOU STILL HAVE THAT PRIMARY SAMPLE
17 AND IT'S JUST FROZEN, YOU CAN'T THEN CONTINUE TO
18 PROCEED WITH NEW RESEARCH ON THAT SPECIMEN?

19 DR. ROBERTS: AND I CAN GET IT BACK.

20 CHAIRMAN LO: YOU MAY EVEN GET IT BACK.

21 DR. FEIGAL: CAN I ASK YOU A QUESTION?
22 SORRY TO INTERRUPT. BUT I'M TRYING TO LOOK -- I AM
23 LOOKING AT THE PRECEDENTS WITH CLINICAL TRIALS. I
24 KNOW WE'RE FOCUSED ON BIOBANKS. PRESUMABLY THE
25 PRINCIPLE IS WHAT YOU'RE LOOKING AT OF WHY YOU'RE

BARRISTERS' REPORTING SERVICE

1 DOING IT. SO I DO KEEP ON COMING BACK TO A CLINICAL
2 TRIAL WHERE MORE AND MORE WE'RE COLLECTING
3 BIOSPECIMENS AS PART OF IT. AND I DON'T THINK WE
4 WANT AT THE END OF IT THAT SOMEBODY CAN RECLAIM
5 SPECIMENS THAT WERE DONATED AS PART OF THE NECESSARY
6 PART OF THE CLINICAL TRIAL, AND THEN BASICALLY YOU
7 LOSE ALL THAT INFORMATION IF YOU'RE DOING THE SAME
8 PRINCIPLE, THAT SOMEBODY HAS THE RIGHT TO REMOVE
9 THEIR PRIMARY SPECIMEN. MAYBE IT'S GETTING TOO
10 TANGENTIAL AND MAYBE JUST FOCUS ON BIOBANKS IS FINE,
11 BUT I DO HAVE TO THINK ABOUT WE'RE COLLECTING
12 BIOSPECIMENS IN THE CONTEXT OF CLINICAL TRIALS ALL
13 THE TIME.

14 DR. ROBERT TAYLOR: IF I COULD ASK IN A
15 CLINICAL TRIAL, IF I'M IN A CLINICAL TRIAL AND WE'RE
16 SEVEN-EIGHTHS OF THE WAY THROUGH THE TRIAL AND I
17 WITHDRAW, I'M SORT OF A DROPOUT FROM YOUR TRIAL, YOU
18 ARE GOING TO USE MY BIOCHEMICAL DATA, THOUGH, IN
19 YOUR ANALYSIS OF THAT TRIAL? I'M DROPPING OUT OF
20 THE CLINICAL END POINTS OF YOUR TRIAL. ARE YOU
21 ACTUALLY -- IS IT SCIENTIFICALLY, FRANKLY, RIGOROUS
22 TO USE MY BIOCHEMICAL DATA THAT WERE COLLECTED?

23 DR. FEIGAL: IT DEPENDS ON WHAT THE TRIAL
24 IS. I MEAN WHAT IF IT WAS PK? CLINICAL TRIALS ARE
25 ALL DIFFERENT. BUT IT DEPENDS. MAYBE I DON'T NEED

BARRISTERS' REPORTING SERVICE

1 THAT FINAL OUTCOME INFORMATION LONG TERM. MAYBE
2 IT'S RELATIVELY SHORT AND YOU DROPPED OUT FOR A
3 VARIETY -- YOU COULDN'T GET A CAR TO GET YOU TO THE
4 CLINIC, WHATEVER. THERE WERE REASONS. SO I'M JUST
5 POINTING IT OUT IS WE'RE MAKING THIS SPECIFIC FOR
6 BIOBANKS, WHICH IS FINE, BUT I'M ALSO THINKING OF
7 THESE OTHER SCENARIOS WHERE WE'RE COLLECTING
8 BIOSPECIMENS.

9 CHAIRMAN LO: ELLEN, COULD YOU -- MAYBE
10 THIS ISN'T THE TIME, BUT IT WOULD BE INTERESTING TO
11 US, I THINK, TO LOOK SPECIFICALLY AT HOW THAT IS
12 PRESENTED AND ENFORCED IN THE CLINICAL TRIAL
13 SETTING. IS THERE LANGUAGE IN THE CONSENT FORM? DO
14 IRB'S EXPLICITLY APPROVE THAT? OR IS IT JUST
15 SOMETHING THAT IS DONE WITHOUT SORT OF -- IS THERE
16 AN EXPLICIT RATIONALE -- IS THERE EXPLICIT
17 RECOGNITION THAT WHEN I SAY I'M WITHDRAWING FROM A
18 CLINICAL TRIAL, MY SPECIMENS MAY CONTINUE TO BE USED
19 FOR WHATEVER THE PURPOSE OF THE TRIAL, AND IS THERE
20 A PLACE WHERE THE RATIONALE FOR THAT IS ACTUALLY
21 WRITTEN OUT? BECAUSE THAT WOULD BE HELPFUL FOR US
22 TO LOOK AT.

23 DR. LOMAX: IT'S PART OF THE FDA
24 REQUIREMENT OF BEING IN A CLINICAL TRIAL. IT'S
25 WITHIN THE POLICY OF RETAINING DATA AND TRIAL

BARRISTERS' REPORTING SERVICE

1 INTEGRITY. THAT'S THE SORT OF GENESIS. SO IT'S NOT
2 ABOUT WITHDRAWAL SO MUCH. IT'S ABOUT DATA RETENTION
3 IN THE CONTEXT OF THE TRIAL.

4 CHAIRMAN LO: I THINK IT WOULD BE HELPFUL
5 TO ACTUALLY LOOK AT THE LANGUAGE AND ASK PAT AND
6 DOROTHY.

7 DR. FEIGAL: PATIENTS, THE PERSON ALWAYS
8 HAS THE RIGHT TO WITHDRAW CONSENT, AND IT'S EITHER
9 PARTIAL OR COMPLETE. AND WHERE YOU ALWAYS GO
10 THROUGH SOME CONUNDRUMS, DOES THAT MEAN I CAN'T LOOK
11 AT A DEATH REGISTRY, OR DOES IT MEAN I JUST CAN'T GO
12 BACK TO THE MEDICAL RECORD?

13 CHAIRMAN LO: THEY'RE NOT A SUBJECT
14 ANYMORE. SO I'D LIKE TO ACTUALLY LOOK AT HOW THE
15 FDA AND SEE IF THERE'S A CROSS MATCH BETWEEN THAT.
16 THE PROBLEM IS EVERYONE TALKS ABOUT THE RIGHT TO
17 WITHDRAW AND DOESN'T SPECIFY WHAT THAT MEANS. SO
18 UNLESS IT'S ACTUALLY SPECIFIED, WE GET INTO THESE
19 SITUATIONS. I THINK IT WOULD BE VERY IMPORTANT TO
20 LOOK AT THAT FDA LANGUAGE.

21 DR. ROBERTS: JUST ONE OTHER REFINEMENT OF
22 IT. A PATIENT CAN WITHDRAW FROM THE CLINICAL TRIAL,
23 AS YOU SAID. THEY JUST CAN'T GET TO IT, SO THEY
24 JUST BACK OUT. THAT DOESN'T NECESSARILY MEAN THAT
25 THEY THEN REQUEST THAT YOU STOP DOING RESEARCH ON

BARRISTERS' REPORTING SERVICE

1 THE SPECIMENS THAT THEY DONATE. SO THIS WOULD BE
2 NOT JUST A CASE OF WITHDRAWAL. DOES THAT MEAN THAT
3 THE RESEARCHERS HAVE TO STOP DOING RESEARCH ON THE
4 SPECIMENS THAT ARE LEFT BEHIND? BUT SPECIFICALLY IF
5 THE SUBJECT REQUESTS THAT YOU STOP DOING RESEARCH ON
6 THE SPECIMENS, DOES THE RESEARCHER HAVE TO STOP?

7 DR. FEIGAL: I DIDN'T MEAN TO TAKE US DOWN
8 THIS PATHWAY, BUT THERE'S A LOT OF THINGS WE COULD
9 TALK ABOUT OFFLINE, BUT THERE'S DIFFERENT NUANCES.

10 CHAIRMAN LO: LET'S DO THIS OFFLINE AND
11 TRY AND SEE TO WHAT -- WE'RE COME UP WITH ANALOGIES.
12 AS ANY LAW PROFESSOR KNOWS, THE WHOLE QUESTION IS
13 CAN WE DISTINGUISH THE CASE WE'RE TALKING ABOUT FROM
14 THE OTHER CASES THAT WE'RE TALKING ABOUT, AND DOES
15 THE REASONING CARRY OVER EVEN IF THE CASE IS
16 DISTINCT?

17 SO I'M TRYING TO -- SO I THINK I'M NOT
18 HEARING ANYONE OBJECT TO A PATIENT WITHDRAWING IN
19 THE SENSE OF ONE AND TWO. I THINK I'M HEARING
20 AGREEMENT THAT EVEN IF YOU WITHDRAW, FIVE CONTINUES.
21 AND I GUESS THREE, YOU'RE ALLOWED TO WITHDRAW FROM
22 ONE, TWO, AND -- ONE AND TWO. YOU'RE NOT ALLOWED TO
23 SORT OF WITHDRAW IN THE SENSE OF FIVE. AND I TAKE
24 IT WE'RE STILL NOT DECIDED ON FOUR. AND I THINK,
25 I'M NOT SURE THAT WE HAVE AGREEMENT ON WHETHER IN

BARRISTERS' REPORTING SERVICE

1 THE FACE OF AN EXPLICIT REQUEST TO WITHDRAW, IT'S
2 OKAY TO ANONYMIZE AND THEN CONTINUE.

3 BUT CERTAINLY AT THOSE EXTREMES, WHICH I
4 THINK ARE THE ONES THAT ARE MOST LIKELY TO HAPPEN,
5 IT STRIKES ME THAT WE HAVE SOME AGREEMENT. I THINK
6 THIS IS -- THREE AND FOUR TO ME ARE WHERE WE NEED
7 MORE INFORMATION AND SOME MORE DISCUSSION BASED ON
8 THAT.

9 MS. ISASI: CAN I ASK A QUESTION? A
10 QUESTION WAS POSED FOR US FOR SOME STEM CELL BANKS
11 WHERE THE ISSUE OF, OKAY, YOU WITHDRAW THE PRIMARY
12 SAMPLE AND YOU ANONYMIZE THE SAMPLE, NOT FOR THE
13 CONTACT WITH THE DONOR, THAT DATA IS GONE, WHAT
14 HAPPENS WITH DATA ASSOCIATED IN THE CASE OF STEM
15 CELL LINE, IPSC LINE, FOR EXAMPLE, THAT IS PUBLISHED
16 IN A PUBLICLY AVAILABLE DATABASE?

17 CHAIRMAN LO: I THINK WE'RE SAYING YOU
18 CAN'T WITHDRAW TRANSFORMED MATERIALS.

19 MS. ISASI: INCLUDING THE DATA BECAUSE
20 SOME DONORS WILL UNDERSTAND THAT IT'S JUST THE LINE
21 THAT KEEPS GOING IMMORTALIZED TO DIFFERENT
22 INSTITUTIONS, BUT THEY DISCONNECT WITH THE DATA
23 ASSOCIATED WITH THE LINE.

24 CHAIRMAN LO: SO I THINK WHAT WE'RE
25 REALLY -- WE'RE CLEARLY ALLOWING PEOPLE TO WITHDRAW

BARRISTERS' REPORTING SERVICE

1 IT IF YOU HAVEN'T DONE ANYTHING TO MY SPECIMEN OTHER
2 THAN FREEZE IT, I HAVE THE RIGHT TO SAY STOP THERE,
3 DON'T DO ANYTHING FURTHER. ONCE IT'S BEEN
4 TRANSFORMED, BOTH THE SPECIMEN AND THE DATA THAT GO
5 WITH IT CAN'T BE REVOKED.

6 DR. ROBERT TAYLOR: SO WE'RE GOING TO SAY
7 THAT ABOUT THE DATA TOO BECAUSE THAT SEEMS TO ME TO
8 BE ANOTHER -- THE CLINICAL DATA ARE THAT PATIENT'S,
9 THAT SUBJECT'S PERSONAL, PRIVATE, UNTRANSFORMED
10 INFORMATION. SO --

11 CHAIRMAN LO: I WAS REFERRING IN THE SENSE
12 IF IT'S BEEN USED IN A PUBLICATION SO THERE'S A
13 CORRELATION BETWEEN MY BAD CLINICAL OUTCOME AND A
14 CERTAIN CHARACTERISTIC ON MY LINE, I CAN'T SAY I
15 WANT YOU TO ERASE THAT PART OF THE DATA. WHAT'S
16 DONE IS DONE.

17 DR. ROBERT TAYLOR: YOU CAN DELETE -- I
18 DON'T KNOW THAT WE WANT TO, BUT I'M JUST SORT OF
19 ARGUING THAT DELETING A DATABASE, A PATIENT'S
20 PERSONAL HEALTH DATABASE FROM THE COMPUTER AT THE
21 TIME THAT THEY WITHDRAW FROM THE STUDY, THAT COULD
22 BE DONE AT ANY TIME, WHETHER THEY'RE 1, 2, 3, 4, OR
23 5. I'M NOT SURE THAT THE 5, IF WE BUY THAT 5 IS
24 SOMEHOW -- WE CAN'T REEL THAT BACK, BUT WE CAN SAY
25 THAT THE DATA HAS TO FOLLOW THAT?

BARRISTERS' REPORTING SERVICE

1 CHAIRMAN LO: WITH 5, FOR EXAMPLE, I THINK
2 THAT WE'RE SAYING ONCE YOU'VE TRANSFORMED IT AND YOU
3 HAVE A STEM CELL LINE, IT STRIKES ME TO SAY YOU CAN
4 USE THE MATERIALS, BUT YOU CAN'T TAKE ANY OF THE
5 CLINICAL ANNOTATION WITH IT REALLY UNDERMINES THE --

6 DR. ROBERT TAYLOR: I AGREE THAT IT
7 UNDERMINES THE SCIENTIFIC VALIDITY. THAT'S NOT THE
8 ARGUMENT THAT I'M TRYING TO MAKE.

9 CHAIRMAN LO: I THINK IF WE FOLLOW THE
10 IDEA THAT JUSTIFIABLE RELIANCE MEANS THAT YOU CAN'T
11 THEN WITHDRAW. IF SOMEONE HAS RELIED ON THE
12 COMBINATION OF YOUR MATERIALS PLUS YOUR DATA, THAT'S
13 GOT TO STAND.

14 DR. ROBERT TAYLOR: I GUESS I'M RELYING
15 LESS ON RELIANCE THAN I AM ON TRANSFORMATION. I
16 COULD BE TALKED INTO IT.

17 DR. PECKMAN: IF I CAN JUST MAKE A -- THE
18 COMMON RULE IS ENFORCED BY THE OFFICE FOR HUMAN
19 RESEARCH PROTECTION, OHRP. AND IT WAS ALLUDED TO
20 EARLIER IN THE MAJOR TALK THAT THEY HAVE ISSUED
21 GUIDANCE ABOUT DATA AND WITHDRAWAL. AND IT'S VERY
22 EXPLICIT, THAT THE RESEARCHER DOES HAVE NOT TO
23 REMOVE THE DATA UPON THE SUBJECT'S REQUEST TO
24 WITHDRAW FROM THE RESEARCH. AND THE RESEARCHER IS
25 CAPABLE AND AUTHORIZED TO CONTINUE TO WORK ON THE

BARRISTERS' REPORTING SERVICE

1 DATA.

2 SO I THINK THAT -- AND THEN BERNIE'S POINT
3 IS VERY IMPORTANT, IS TO DETACH THE DATA FROM THE
4 SAMPLES TO DO REAL DAMAGE TO THE RESEARCH AS WELL.

5 CHAIRMAN LO: SO WHY DON'T WE SORT OF MOVE
6 ON TO SOMETHING I THINK WAS A VERY INTERESTING AND
7 IMPORTANT TOPIC THIS MORNING, WHICH IS -- I'M GOING
8 TO SKIP, GEOFF, AND GO TO D RATHER THAN C, WHICH IS
9 RETURN OF INDIVIDUAL DATA TO DONORS AND MATERIALS
10 USED TO DERIVE IPSC'S. AND SO, FIRST, I WANT TO
11 SORT OF TRY AND MAKE SOME DISTINCTIONS WHICH WE MADE
12 THIS MORNING, AND I WANT TO MAKE SURE WE'RE CLEAR.

13 SO, ONE, I WANT TO DISTINGUISH BETWEEN
14 RETURNING TO THE DONORS MATERIALS THE GENERAL
15 RESULTS OF WHAT'S BEING DONE IN THE FIELD. SO THE
16 KINDS OF STUDIES BEING DONE, LAYPERSON'S SUMMARIES,
17 ABSTRACTS OF PUBLICATIONS, SO IT'S NOT INDIVIDUAL
18 RESULTS. IT'S SORT OF THE OVERALL RESEARCH FINDINGS
19 AS PUBLISHED. AND IT STRIKES ME THAT THERE AREN'T A
20 WHOLE LOT OF OBJECTIONS, IT SEEMS TO ME, TO OFFERING
21 TO DO THAT IF PEOPLE WANT TO RECEIVE THOSE RESULTS
22 AND JUST MAKING IT EASIER SO THEY DON'T HAVE TO GO
23 TO THE INTERNET TO TRACK THIS DOWN.

24 I THINK THE QUESTION THAT WE NEED TO
25 DISCUSS IS WHAT ABOUT THE DONOR'S PERSONAL FINDINGS

BARRISTERS' REPORTING SERVICE

1 ON THE RESULTS OF THE RESEARCH, WHICH COULD BE
2 ANYTHING FROM A CELL MARKER TO SOMETHING ABOUT THE
3 GENOMIC SEQUENCE? AND SOME OF THE THINGS THAT CAME
4 UP THIS MORNING WHEN WE STARTED TO TALK ABOUT IT
5 WERE IS IT ANY FINDING? IS IT ONLY A CERTAIN
6 SUBCLASS OF FINDINGS, ONES THAT ARE EITHER VALID IN
7 AN ANALYTIC RESEARCH SENSE, THAT IF SOMEONE ELSE
8 WERE TO REPLICATE THE STUDY, THEY'D GET THE SAME
9 RESULT AS OPPOSED TO I DID IT ONCE AND I'M NOT SURE
10 THE ASSAY STILL WORKS. SO ANALYTIC VALIDITY.

11 THE OTHER IS SOME SORT OF CLINICAL
12 VALIDITY WHERE I AT LEAST HAVE SOME SENSE OF WHAT
13 THIS MEANS CLINICALLY AS OPPOSED TO JUST GIVING YOU
14 THE NAKED GENOME SEQUENCE.

15 AND THIRD IS CLINICAL SIGNIFICANCE, OR I
16 THINK THE TERM GEOFF USED WAS ACTIONABLE, WHICH IS
17 ANOTHER, WHICH IS IT'S NOT JUST ANY DATA THAT IS
18 CLINICALLY VALID, BUT IT ACTUALLY WOULD LEAD TO AT
19 LEAST A CONSIDERATION, IF NOT A RECOMMENDATION, OF
20 CHANGES IN MANAGEMENT.

21 AND SHERRY AND I TALKED AT THE BREAK ABOUT
22 SOME OF THE THINGS THAT WERE DEEMED ACTIONABLE WITH
23 REGARD TO EARLY BRCA1 RESEARCH, WHICH TURNED OUT NOT
24 TO STAND UP UNDER ADDITIONAL STUDY.

25 I ALSO WANT TO SAY THAT WHAT WE'RE REALLY

BARRISTERS' REPORTING SERVICE

1 TALKING ABOUT HERE IS OFFERING THE SUBJECT THE
2 OPTION TO GET INDIVIDUAL RESULTS BACK. I DON'T
3 THINK ANYBODY IS TALKING ABOUT SORT OF FORCING A
4 SUBJECT TO RECEIVE RESULTS THAT THEY DON'T WANT TO
5 KNOW ABOUT. AND THERE ARE VARIOUS OTHER OPTIONS --
6 THERE ARE OTHER THINGS WHICH I THINK ARE SECONDARY,
7 WHETHER IT GOES TO BOTH THE DOCTOR AND THE PATIENT,
8 OR PATIENT HAS THE OPTION OF GETTING IT WITHOUT THE
9 DOCTOR, WHERE THERE'S AN OFFER OF COUNSELING,
10 EDUCATION, AND SO FORTH. BUT I THINK WHAT WE'RE
11 TALKING ABOUT IS INDIVIDUAL RESEARCH FINDINGS. AND
12 WE SEPARATE EVEN IF THEY DON'T -- EVEN IF THE
13 CLINICAL SIGNIFICANCE IS NOT KNOWN, SHOULD WE
14 ROUTINELY BE OFFERING THAT TO THE PATIENT? SHOULD
15 IT BE UP TO THE INDIVIDUAL INVESTIGATOR HOW SHE/HE
16 WANTS TO HANDLE THAT?

17 WE STARTED TO TALK ABOUT IT THIS MORNING,
18 BUT I THINK IT'S A REALLY CUTTING EDGE AND IMPORTANT
19 TOPIC. I'D BE INTERESTED IN SORT OF WHAT ALL OF YOU
20 THINK.

21 MS. LANSING: I CAN START YOU OFF BECAUSE
22 THIS TO ME IS REALLY -- THIS TO ME IS WHERE YOU OPEN
23 UP A WHOLE BUNCH OF STUFF. SO NOW I SUBMIT MY
24 DATA -- I SUBMIT MY TISSUE, CELLS, WHATEVER, AND
25 LET'S USE THE BRCA GENE. IT'S AN INTERESTING THING.

BARRISTERS' REPORTING SERVICE

1 SO LOTS OF WOMEN ARE DOING THAT. NOW THEY STUDY
2 WHATEVER MORE, AND THEY FIND THROUGH THIS THAT,
3 MAYBE THEY DO A WHOLE GENOME SEQUENCE OR SOMETHING,
4 AND THEY DISCOVER THAT I HAVE A CURABLE DISEASE THAT
5 I DON'T EVEN KNOW I HAVE. NOW, IT WOULD SEEM TO ME
6 THAT THERE IS A MORAL OBLIGATION TO TELL SOMEBODY
7 YOU HAVE THIS DISEASE. IF YOU TAKE THIS PILL, YOU
8 ARE GOING TO BE FINE. WE DON'T WANT YOU TO DIE FROM
9 IT.

10 ON THE OTHER HAND, THEY DISCOVER I HAVE A
11 DISEASE OR A PROPENSITY TO A DISEASE OF WHICH THERE
12 IS NO HELP WHATSOEVER, AND I CAN LIVE IN FEAR FOR
13 THE REST OF MY LIFE, WAIT FOR THE BOMB TO TICK,
14 WHICH, I GUESS, IS A CHOICE THAT THE PATIENT HAS THE
15 RIGHT TO MAKE, THE DONOR HAS THE RIGHT TO MAKE.
16 BUT, BOY, THAT'S WHEN YOU REALLY GET INTO YOU BETTER
17 UNDERSTAND WHAT THAT BOX MEANS WHEN YOU SAY YOU WANT
18 BACK ALL THE DATA. YOU REALLY BETTER MAKE IT
19 CRYSTAL CLEAR. DO YOU WANT BACK THE DATA ONLY
20 INVOLVING THIS DISEASE AND THIS RESEARCH? DO YOU
21 WANT THE DATA ONLY INVOLVING DISEASES THAT WE CAN
22 HELP YOU WITH, AND YOU DON'T WANT TO KNOW -- OR DO
23 YOU REALLY WANT TO KNOW EVERY POSSIBLE THING THAT
24 CAME OUT OF THIS?

25 I THINK WE CAN DESIGN SOMETHING THAT GIVES

BARRISTERS' REPORTING SERVICE

1 YOU THAT OPTION. I WOULD JUST HATE TO THINK THAT
2 SOMEBODY WHO CHECKED THE DISEASE ONLY BOX AND THEN
3 YOU FOUND OUT THAT THEY HAD SOMETHING THAT COULD BE
4 CURED BY TAKING A PILL, BUT THEY WOULD NOT FIND OUT
5 ABOUT IT TILL TOO LATE. THAT WOULD BE A TERRIBLE
6 THING SHOULD THERE BE SUCH A THING.

7 DR. PATRICK TAYLOR: SINCE I'VE WRITTEN
8 SOMETHING ABOUT THIS, I THINK I'LL JUST GET SOME LOW
9 HANGING FRUIT OFF THE TABLE JUST SO THE DISCUSSION
10 CAN BE MORE PRODUCTIVE.

11 FIRST, THERE'S BEEN SO MUCH DISCUSSION
12 AROUND THIS OVER THE LAST FIVE YEARS THAT I THINK
13 HAS BEEN HELPFUL IN SOME WAYS. FIRST IS NO ONE WHO
14 IS RESPONSIBLE IS SUGGESTING AT THIS POINT THAT
15 UNVALIDATED, SPECULATIVE THINGS OUGHT TO BE
16 DISCLOSED TO PATIENTS AND PARTICIPANTS AS IF THEY'RE
17 REAL. THAT'S A STRAWMAN ISSUE. OR THAT NON-CLIA
18 CERTIFIED LABS OUGHT TO BE ABLE TO PRODUCE RESULTS.
19 THAT'S ONE IMPORTANT POINT.

20 SECOND POINT IS I THINK YOU HAVE TO TAKE
21 AS A GIVEN THAT, ALTHOUGH IT'S NOT EASY WHEN ONE
22 TALKS ABOUT RETURNING RESULTS, THE POINT IS TO
23 RETURN NONMISLEADING RESULTS. THAT TAKES SOME WORK
24 TO DO THAT PROBABLY BECAUSE IT MEANS INVOLVING
25 YOURSELF IN WHAT PARTICIPANTS REALLY MEAN BY RESULTS

BARRISTERS' REPORTING SERVICE

1 AND PARTLY BECAUSE IT TAKES SOME MODESTY WITH
2 RESPECT TO WHAT GENETIC ASSOCIATIONS ACTUALLY MEAN
3 AS OPPOSED TO SAYING THIS GENE IS ASSOCIATED WITH
4 THIS, WHAT WE REALLY KNOW IS THIS GENE IS
5 POTENTIALLY ASSOCIATED WITH THIS IN CONNECTION WITH
6 ENVIRONMENTAL FACTORS WE HAVEN'T IDENTIFIED AND SO
7 ON.

8 SO THE BASIC THING I THINK THAT DRIVES
9 SOME OF US IS THE BELIEF THAT IN CLINICAL AND
10 EXPERIENCE, IN CLINICAL AND OTHER CONTEXTS, PATIENTS
11 ARE PERFECTLY CAPABLE OF UNDERSTANDING HIGHLY
12 PROBABILISTIC AND UNCERTAIN INFORMATION. IF YOU'VE
13 EVER BEEN IN A HOSPITAL WITH, SAY, TAKING CARE OF
14 YOUR KIDS, AND YOU SEE EXACTLY HOW MANY DIFFERENT
15 STORIES YOU GET ABOUT WHAT'S GOING TO HAPPEN NEXT,
16 YOU KNOW ABOUT, WELL, IT'S NOT THAT EASY NECESSARILY
17 TO DEAL WITH PROBABILISTIC AND DIFFERENT
18 INFORMATION. WE ALL HAVE TO DEAL WITH IT.

19 SO WHAT'S SO SPECIAL ABOUT GENETICS? YOU
20 CAN GO INTO A SERIES OF CLINICAL ENCOUNTERS WHERE
21 SOMEONE SAYS BASED ON THE FOLLOWING CONSTELLATION OF
22 CLINICAL THINGS, WHICH ARE DIFFERENT THAN THE LAST
23 DOCTOR I SAW, I THINK YOU HAVE THIS. AND THEN YOU
24 GET A DIFFERENT SET OF RESPONSES. WHAT IS IT ABOUT
25 GENES THAT SAYS IF I TELL YOU THAT YOU MIGHT HAVE

BARRISTERS' REPORTING SERVICE

1 THIS, YOU ARE GOING TO GO OUT AND SHOOT YOURSELF?
2 WELL, THERE IS NO EVIDENCE FOR THE BELIEF THAT
3 GENETIC INFORMATION IS SOMEHOW SO OVERPOWERINGLY
4 POWERFUL. IF YOU ACTUALLY TELL SOMEONE THE TRUTH
5 ABOUT THEMSELVES IN ACCORDANCE WITH THEIR
6 PREFERENCES, THEY JUST CAN'T HANDLE IT. IN FACT,
7 THERE'S A LOT OF EVIDENCE TO THE CONTRARY.

8 SO THE WHOLE POINT IS RESULTS OUGHT TO BE
9 ANALYTICALLY VALID. THEY OUGHT TO BE TESTED. THEY
10 OUGHT TO BE PEER REVIEWED, OF COURSE, ALL THAT
11 STUFF. AND YOU REALLY HAVE TO SET UP SYSTEMS TO
12 FIND OUT HOW TO DO IT. AND THERE ARE GOING TO BE
13 SITUATIONS WHERE IT SHOULDN'T BE DONE, SITUATIONS
14 WHERE IT SHOULD BE, BUT MORE EMPIRICAL RESEARCH IS
15 CALLED FOR.

16 THE ONLY REASON I MENTION THIS, AND I
17 WON'T GET INTO MORE OF THE KIND OF THINKING THAT MY
18 GROUP HAS DONE, IS JUST SO THAT WE DON'T SPEND A LOT
19 OF TIME DISCUSSING THINGS THAT AREN'T REAL ISSUES,
20 LIKE GIVING VALID RESULTS OR SO ON.

21 CHAIRMAN LO: LET ME -- I THOUGHT CHRIS
22 HEMPEL THIS MORNING SAID SHE WANTED EVERYTHING BACK,
23 GOOD AND BAD, EVEN IF THE RESEARCHERS DIDN'T QUITE
24 KNOW WHAT IT ALL MEANT.

25 MS. HEMPEL: NO. THAT'S CORRECT. I WAS

BARRISTERS' REPORTING SERVICE

1 JUST GOING TO TRY TO GIVE AN EXAMPLE OF GETTING DATA
2 BACK THAT LED TO SOMETHING THAT WAS POSITIVE. WE
3 TOOK SOME SPINAL FLUID FROM MY TWINS, AND WE HAD IT
4 ANALYZED IN A RESEARCH LAB THAT'S NOT CLIA CERTIFIED
5 AND ALL THESE OTHER TYPES OF THINGS, BUT THEY FOUND
6 IN THESE SAMPLES THAT THEY COULDN'T FIND ANY COPPER
7 IN MY TWINS' SPINAL FLUID FOR WHATEVER REASON. WE
8 STILL DON'T KNOW. THAT INFORMATION WAS SENT BACK TO
9 ME, AND PARTIALLY BECAUSE I WAS FUNDING THAT
10 RESEARCH, SO I GOT THE DATA BACK. BUT IT LED ME TO
11 ANOTHER RESEARCHER WHO HAPPENS TO BE ONE OF THE TOP
12 METALS AND COPPER EXPERTS IN THE WORLD. SO I
13 CONTACTED HIM AND SAID, HEY, THIS IS WHAT WAS FOUND
14 IN THE TWINS, AND YOU'RE A LEADING ALZHEIMER'S
15 RESEARCHER. WHAT DO YOU THINK?

16 OUT OF THAT DATA WE SET UP A GIANT
17 EXPERIMENT TO TAKE WHAT WE -- THESE INITIAL
18 FINDINGS, PILOT FINDINGS, A LOT FURTHER TO LOOK AT
19 MANY MORE NIEMANN PICK KIDS, ANIMAL DATA, AND NOW
20 WE'RE AT A POINT WHERE HE'S GETTING READY TO PUBLISH
21 A BIG PAPER ON HIS FINDINGS IN ANIMALS AND CHILDREN
22 AROUND METAL DISRUPTIONS IN OUR DISEASE.

23 SO THAT WOULD BE ONE EXAMPLE OF DATA THAT
24 CAME BACK, AND I HAVEN'T ACTED UPON IT. I'M NOT
25 GIVING MY KIDS COPPER SUPPLEMENTS OR ANYTHING LIKE

BARRISTERS' REPORTING SERVICE

1 THAT. IT'S JUST DATA THAT LED TO FURTHER RESEARCH
2 TO MOVE THINGS FORWARD. SO I THINK GETTING DATA
3 BACK IS IMPORTANT TO PATIENT ADVOCATES WHO CAN MAYBE
4 TRY TO MOVE THE RESEARCH FORWARD OR WHO ARE
5 INVOLVED. AND I DON'T THINK EVERYBODY IS JUST GOING
6 TO RUSH OUT AND DO DRASTIC THINGS BY GETTING DATA.
7 THAT'S JUST ONE EXAMPLE. I COULD GIVE YOU MULTIPLE
8 EXAMPLES OF HOW IMPORTANT IT IS TO GET DATA BACK TO
9 MOVE RESEARCH FORWARD.

10 DR. PATRICK TAYLOR: IF I CAN JUST ADD ONE
11 COMMENT. SO THERE'S PLENTY OF EVIDENCE THAT
12 NOWADAYS WITH HEALTHCARE SO FRAGMENTED, WHO'S
13 ACTUALLY HOLDING A PATIENT'S CARE AND TREATMENT
14 TOGETHER OVER TIME. AND WE WISH THAT PRIMARY CARE
15 DOCTORS AND INTERNAL MEDICINE PEOPLE WERE NOT SO
16 OVERWORKED THEY COULD ACTUALLY DO IT, BUT A LOT OF
17 TIMES THEY CAN'T. SO WHO IS? USUALLY IT'S ACTUALLY
18 THE PATIENTS OR THE PATIENTS' FAMILIES. SO TO ME
19 THAT IS A GREAT EXAMPLE OF THINGS I'VE SEEN ALL THE
20 TIME, WHICH IS SOMEBODY IS HOLDING TOGETHER DATA AND
21 TRYING TO FIGURE OUT. AND WHO IS THE PERSON? IT'S
22 THE PERSON WHO CARES MOST ABOUT THAT KID.

23 SO OF YOU KNOW PARENTS OF AUTISTIC
24 CHILDREN, THEY DON'T GO OUT AND SAY, GEE, SOMEBODY
25 TOLD ME THAT THERE MIGHT BE SOME LINK WITH ZINC.

BARRISTERS' REPORTING SERVICE

1 I'M GOING TO OVERDOSE MY KID WITH ZINC BECAUSE
2 THEY'RE PARENTS AND THEY'RE SMART PEOPLE AND THEY
3 CARE ABOUT THEIR KIDS, SO THEY DO RESPONSIBLE
4 THINGS. SO WHEN PEOPLE ARE FACED WITH UNSOLVABLE
5 MEDICAL PROBLEMS, GIVING THEM MORE INFORMATION TO
6 WORK WITH IN A WORLD WHICH IS FILLED WITH
7 UNCERTAINTY, AND THEY KNOW THAT WELL, IT IS
8 SOMETHING THEY CAN DEAL WITH, AND WE DON'T HAVE TO
9 ASSUME THAT THEY'RE STUPID.

10 CHAIRMAN LO: PAT, NOW I'M HAVING A LITTLE
11 TROUBLE UNDERSTANDING. I THINK EARLIER I HEARD YOU
12 SAY THAT WE SHOULDN'T BE TALKING ABOUT GIVING
13 RESULTS BACK IF THEY'RE NOT VALIDATED AND NOT FROM
14 CLIA LABS. YET, AS I UNDERSTOOD CHRIS' EXAMPLE, AT
15 LEAST FOR THE SAKE OF ARGUMENT, THIS WASN'T A CLIA
16 LAB AND THE RESEARCHER REALLY JUST SAID THIS IS A
17 FINDING. I REALLY DON'T KNOW WHAT IT MEANS, AND I
18 HAVEN'T DONE OTHER KIDS WITH CSF FOR THIS DISEASE.
19 SO MAYBE IT'S JUST SOME INTERFERENCE WITH THE ASSAY.

20 MS. HEMPEL: OR WE NEED TO DO IT AGAIN.
21 WE TALKED ABOUT MAYBE DOING IT AGAIN TO REPLICATE
22 IT. THE OTHER THING THAT I FIND INTERESTING IS THAT
23 WE'RE INVOLVED IN A TRIAL WITH MY TWINS WITH THE
24 FDA, AND IT SEEMS LIKE A LOT OF THE RESEARCHERS KEEP
25 SAYING, WELL, THESE RESULTS AREN'T, LIKE, CLIA

BARRISTERS' REPORTING SERVICE

1 CERTIFIED. AND THEN WE WENT AND WE TALKED TO THE
2 FDA. THEY SAID THESE RESULTS, THAT'S OKAY. WE WANT
3 THIS INFORMATION. GO AHEAD AND SUBMIT IT. IT
4 DOESN'T NEED TO BE A CLIA CERTIFIED LAB. BECAUSE
5 ACTUALLY ONE OF THE LABS WE'RE WORKING WITH IS THE
6 ONLY LAB IN THE WORLD THAT EVEN HAS THE CAPABILITY
7 OF DOING THIS TESTING, AND IT'S NOT CLIA CERTIFIED,
8 BUT THEY WANT THE DATA. SO PEOPLE GET CAUGHT UP IN
9 THE CLIA CERTIFICATION.

10 CHAIRMAN LO: WE HAVE TO DISTINGUISH
11 BETWEEN CLIA CERTIFICATION TO GIVE RESULTS BACK TO A
12 PATIENT AS OPPOSED TO CLIA CERTIFICATION FOR EITHER
13 PUBLICATION OR FDA.

14 DR. PATRICK TAYLOR: SO IN REALITY IN MY
15 OWN EXPERIENCE, RESEARCH LABS CERTAINLY DO A MUCH
16 BETTER JOB THAN ANY CLIA CERTIFICATION IMPLIES. BUT
17 CERTAINLY THE LAW ADDS TO THE EXTENT THAT RESULTS
18 ARE TO BE MADE AVAILABLE BY A LAB FOR PURPOSES OF
19 CLINICAL CARE, THEN YOU ACTUALLY MUST MAKE THE
20 RESULTS AVAILABLE IN THAT WAY. SO IF YOU HAVE
21 PATIENTS WHO IN THE COURSE OF EXPRESSING A
22 PREFERENCE FOR SOMETHING SAY, YES, I WANT THINGS
23 THAT ARE CLINICALLY ACTIONABLE, AS WAS DISCUSSED
24 THIS MORNING, IT'S HARD TO ACTUALLY SAY YOU'RE
25 PROVIDING RESULTS NOT FOR CLINICAL PURPOSES.

BARRISTERS' REPORTING SERVICE

1 I THINK THE EXAMPLE OF GETTING SORT OF
2 ANALYTIC RESULTS ABOUT THE PRESENCE OF SOMETHING IN
3 THE BLOOD STREAM IS A LITTLE BIT DIFFERENT THAN WHAT
4 SOMEBODY ACTUALLY MAY THINK OF A DNA SEQUENCE AND
5 SORT OF THE GENETIC KIND OF INFORMATION. WHEN ONE
6 IS SETTING UP A SYSTEM, IT'S DESIGNED TO ACTUALLY
7 RETURN RESULTS WHICH GIVES PEOPLE A SET OF CHOICES.
8 I THINK YOU HAVE TO HAVE STEPS IN PLACE THAT ARE
9 NONRANDOM OR NONGNARLY. MY SON, WHO USES THAT
10 GNARLY IS A GOOD WORD. OF COURSE, THAT'S 14.
11 EVERYTHING BAD IS GOOD. BUT IN ANY EVENT, YOU HAVE
12 TO HAVE SOMETHING THAT'S SYSTEMATIC, OF COURSE. AND
13 THAT'S WHAT IT REQUIRES.

14 IN TERMS OF SAYING WE DON'T KNOW WHAT IT
15 MEANS, THOUGH, THAT'S WHAT I MEANT BY MODESTY.
16 THERE ARE ALL KINDS OF GENETIC RESULTS WHERE THE
17 TRUTH IS WE DON'T REALLY KNOW WHAT IT MEANS. AND IF
18 PARTICIPANTS WANT TO KNOW, AS OVERWHELMING SURVEY
19 RESULTS SUGGEST THEY DO, WE WANT TO KNOW THINGS THAT
20 YOU DON'T KNOW WHAT THEY MEAN EITHER, BUT NONE OF US
21 KNOW THE MEANING OF MUCH OF THE UNIVERSE. THAT'S
22 FINE AS LONG AS WE'RE HONEST ABOUT IT. BUT TO SAY
23 TO SOMEBODY YOU HAVE FOUR TIMES THE CHANCE OF THE
24 POPULATION OF GETTING X, WHEN WE DON'T EVEN KNOW
25 WHAT N IS AND WE DON'T EVEN KNOW WHETHER THAT KIND

BARRISTERS' REPORTING SERVICE

1 OF CONSTRUCT IS LEGITIMATE IS TO ME INHERENTLY
2 MISLEADING. GIVING RESULTS THAT SAY THERE'S BEEN A
3 GENE THAT'S BEEN ASSOCIATED WITH THIS IN THIS WAY
4 WITH THIS, BUT WE DON'T KNOW WHY AND WE DON'T KNOW
5 WHAT TRIGGERS AND WE DON'T KNOW A LOT OF THINGS IS A
6 WAY OF ADMITTING OUR IGNORANCE AS PART OF TELLING
7 THE TRUTH.

8 CHAIRMAN LO: OTHER COMMENTS, THOUGHTS?
9 ANYONE HAVE CONCERNS ABOUT GIVING PEOPLE RESULTS
10 BACK THAT MAY NOT BE VALIDATED?

11 MS. ISASI: I JUST WANTED TO MAKE A
12 COMMENT THAT THIS IS AN AREA WHERE MUCH POLICY
13 GUIDANCE IS NEEDED. WE HAVE BEEN APPROACHED BY
14 SEVERAL STEM CELL BANKS THAT ARE STRUGGLING WITH
15 THIS ISSUE, AND THEY HAVE ALREADY COME TO THE
16 ATTENTION OF RESEARCHERS APPROACHING THE BANK, THE
17 BIOREPOSITORY ITSELF, AND SAYING WE HAVE THIS
18 INCIDENTAL FINDINGS, IT'S NOT CLINICALLY SIGNIFICANT
19 INFORMATION, BUT IT'S INCIDENTAL FINDING THAT TELL
20 US SOMETHING ABOUT THE GENETIC DISORDERS AND THE
21 CONDITION OF THE DONORS. HOW DO WE HANDLE THAT?

22 AND THE PRELIMINARY RESULTS OF OUR SURVEY
23 WAS THAT MOST OF THE BANKS DO NOT HAVE A SPECIFIC
24 POLICY IN PLACE. IF THEY DO, IT'S NOT CLEAR HOW
25 THEY WILL PUT INTO PLACE THE RESPONSIBILITIES FOR

BARRISTERS' REPORTING SERVICE

1 RESEARCHERS BECAUSE YOU HAVE -- YOU IMPOSE A RIGHT
2 OR YOU CONSIDER A DONOR'S RIGHT TO GET BACK
3 INFORMATION, THEN THE COUNTERPART IS RESPONSIBILITY
4 TO RESEARCHERS TO DELIVER FOR SECONDARY USES, WHICH
5 IS GOING TO HAPPEN IN THIS BANK, THIS IS GOING TO
6 BECOME A KEY ISSUE. AND I JUST WANTED TO SAY THAT
7 FROM AN INTERNATIONAL PERSPECTIVE, THAT THIS IS AN
8 AREA WHERE CIRM COULD DO A GREAT JOB IN GUIDING
9 POLICY.

10 DR. KIESSLING: THIS MIGHT HAVE TO BE A
11 CONSENT FORM ISSUE BECAUSE AN EXAMPLE THAT ROB
12 TAYLOR GAVE THIS MORNING, I THINK, IS A REALLY GOOD
13 EXAMPLE OF HOW CONFUSED THIS IS. THERE ARE PATIENTS
14 WHO GO THROUGH INFERTILITY TREATMENT AND IVF SO THAT
15 THEY CAN HAVE THEIR EMBRYOS DIAGNOSED WITH SERIOUS
16 DISEASES LIKE HUNTINGTON'S CHOREA BECAUSE THEY KNOW
17 THAT THEY HAVE THAT GENE IN THEIR FAMILY. THEY
18 THEMSELVES, HOWEVER, DON'T WANT TO KNOW IF THEY HAVE
19 IT. THEY WANT SOME ASSURANCE THAT THE EMBRYO THAT'S
20 GOING TO BE TRANSFERRED DOESN'T HAVE IT. BUT THEY
21 DON'T WANT THE INFORMATION ABOUT THEMSELVES BECAUSE
22 IT'S JUST NOT SOMETHING THEY WANT TO LIVE WITH. AND
23 I THINK THE BRCA GENE IS ANOTHER EXAMPLE OF THAT.

24 SO IT'S POSSIBLE THAT YOU'RE GOING TO HAVE
25 PEOPLE WHO DONATE TISSUES WHO SAY I WANT TO KNOW

BARRISTERS' REPORTING SERVICE

1 EVERYTHING YOU FIND BECAUSE I CAN HANDLE IT JUST AS
2 WELL AS YOUR FAMILY. AND THERE ARE GOING TO BE
3 PEOPLE WHO SAY, YOU KNOW, I DON'T WANT TO KNOW
4 ANYTHING UNLESS YOU'RE REALLY SURE ABOUT IT. SO
5 IT'S POSSIBLE THAT THE POLICY NEEDS TO BE IT'S GOT
6 TO BE PART OF THE CONSENTING PROCESS TO FIND OUT
7 EXACTLY HOW MUCH THESE PEOPLE WANT IN RETURN.

8 MS. LANSING: NOT ONLY JUST IF YOU'RE SURE
9 ABOUT IT, BUT I WOULD ADD -- THERE'S LIKE THREE
10 THINGS. I WANT TO KNOW EVERYTHING NO MATTER WHETHER
11 YOU'RE SURE OR NOT SURE. I WANT TO KNOW ONLY IF
12 YOU'RE SURE. I WANT TO KNOW ONLY IF YOU'RE SURE AND
13 I CAN DO SOMETHING ABOUT IT. AND I DON'T WANT
14 ANYTHING BECAUSE --

15 DR. ROBERT TAYLOR: MAYBE I CAN DO
16 SOMETHING ABOUT IT.

17 MS. LANSING: THAT'S A BIG THING WHEN YOU
18 CAN DO SOMETHING. THE HUNTINGTON'S THING, I TOTALLY
19 UNDERSTAND IT, IS THERE'S NOTHING YOU CAN DO ABOUT
20 IT BASICALLY, SO PEOPLE ARE SITTING THERE EVERY TIME
21 SOMETHING HAPPENS WORRYING FOR THE REST OF THEIR
22 LIVES AND RUINING THE QUALITY OF THEIR LIVES. A
23 YOUNG WOMAN DOESN'T NECESSARILY WANT TO KNOW ABOUT
24 THE BRCA GENE UNTIL AFTER SHE'S HAD HER CHILDREN OR
25 WHATEVER THE CHOICES ARE.

BARRISTERS' REPORTING SERVICE

1 SO THIS IS WHERE -- I REMEMBER, ANN, WHEN
2 YOU SAID THIS IS WHERE INFORMED CONSENT IS REALLY
3 NOT A PIECE OF PAPER, YOU KNOW. BECAUSE YOUR
4 NATURAL THING IS, OH, SURE I WANT TO KNOW
5 EVERYTHING, BUT YOU HAVE NO IDEA WHAT THAT MEANS.
6 IT'S REALLY SITTING DOWN AND REALLY SPENDING A GREAT
7 DEAL OF TIME EXPLAINING TO THE PEOPLE WHAT THEY CAN
8 FIND OUT. WE'RE NOT SAYING YOU WILL, BUT WHAT YOU
9 COULD FIND OUT.

10 DR. KIESSLING: IN OUR EXPERIENCE IT TAKES
11 AT LEAST FOUR OR FIVE ENCOUNTERS TO GET A REALLY
12 GOOD INFORMED CONSENT. AND ONE OF THOSE ENCOUNTERS
13 HAS TO BE WITH SOMEBODY WHO'S NOT PART OF THE TEAM.

14 DR. ROBERT TAYLOR: THAT'S THE INFORMED
15 CONSENT. ROSIE IS BRINGING UP THE POINT SO YOU GET
16 BACK A BAD RESULT, AND YOU'RE THREE STEPS DOWN THE
17 PROCESS. YOU DO THE DNA SEQUENCING ON THE NEW STEM
18 CELL LINE THAT YOU GENERATED, AND THERE'S A BUNCH OF
19 TRIPLET REPEATS IN THE HUNTINGTON'S GENE OR
20 SOMETHING. SO THEN THEY CALL UP CIRM, THE BIOBANK,
21 AND THEY SAY WE'VE GOT A PROBLEM WITH YOUR PATIENT
22 THAT DONATED THIS DONOR. WHO'S GOING TO TELL THEM
23 BECAUSE THAT'S GOING TO BE A LONGER CONVERSATION
24 THAN YOUR FOUR-HOUR CONSENT PROCESS. SO THIS
25 RESPONSIBILITY ISSUE REALLY CAN'T BE TAKEN TOO

BARRISTERS' REPORTING SERVICE

1 LIGHTLY.

2 MS. ISASI: THERE'S A REAL CASE THE UK
3 STEM CELL BANK IS FACING ON AN ALMOST DAY-TO-DAY
4 BASIS. WHAT DO WE DO? WHAT HAPPENED WITH THE
5 RESEARCHER WHO HAS NO ACCESS TO THE CODE OR THE
6 SAMPLE?

7 MS. LANSING: OR THE GOOD NEWS IS YOU
8 DISCOVERED A CANCER OR SOMETHING AND IT CAN BE
9 CURED; BUT IF WE WAIT SIX MONTHS, IT'S GOING TO
10 METASTASIZE. INADVERTENTLY YOU CAN SAVE SOMEONE'S
11 LIFE TOO. IT'S GOT A LOT OF POSITIVE THINGS TO IT.

12 DR. PATRICK TAYLOR: IT IS VERY IMPORTANT.
13 THE DISCUSSION AROUND THE POVERTY OF THE
14 INFRASTRUCTURE PROVIDING SUPPORTS FOR PEOPLE ON THE
15 RESEARCH SIDE IS VERY REAL. IT'S QUITE A DISPARITY.
16 SO YOU CAN'T CHANGE JUST ONE THING. IF ONE IS GOING
17 TO GIVE RESEARCH RESULTS, THEN ONE HAS TO RECOGNIZE
18 THAT PEOPLE'S PREFERENCES MAY NOT BE DURABLE. AND
19 SO YOU NEED TO HAVE SOME WAY OF MAKING THE RESEARCH
20 SYSTEM RESPONSIVE TO THAT, A LITTLE BIT OF A SAFETY
21 NET, AND SO ON.

22 SO I THINK THE ANSWER IS IF ONE IS GOING
23 TO GIVE RESEARCH RESULTS, YOU'VE GOT TO DO IT RIGHT.
24 AND THAT MAY REQUIRE SOME OTHER KINDS OF INVESTMENTS
25 AND CHANGE WHICH PEOPLE HAVE TO THINK ABOUT.

BARRISTERS' REPORTING SERVICE

1 CHAIRMAN LO: LET ME ASK A COUPLE
2 QUESTIONS HERE. THE DISTINCTION IS OFTEN MADE IN
3 THE LITERATURE, AND GEOFF CITES AN ARTICLE THAT
4 SUSAN WOLF AND HER COLLEAGUES WROTE, AND SHE'S
5 CONTINUING TO WORK ON THIS, INCIDENTAL FINDINGS
6 VERSUS FINDINGS RELATED TO THE TOPIC OF THE
7 RESEARCH. SO IT'S ONE THING TO SAY, WELL, I WAS
8 RECRUITED TO THE CIRM STEM CELL LINE BANK TO DO
9 RESEARCH ON WHATEVER, DIABETES, NIEMANN PICK. I
10 WANT TO KNOW EVERYTHING ABOUT THAT CONDITION BECAUSE
11 THAT'S WHAT MOTIVATED ME. YOU MAY FIND SOMETHING
12 THAT HAS NOTHING TO DO WITH THOSE CONDITIONS, NOT
13 EVEN REMOTELY. SO IT'S NOT EVEN THAT IT HAS
14 SOMETHING TO DO WITH CENTRAL NERVOUS SYSTEM
15 FUNCTIONING. IT'S GOT SOMETHING TO DO WITH
16 SOMETHING THAT APPARENTLY IS TOTALLY UNRELATED.

17 THERE ARE SOME CONCERNS THAT THOSE
18 INCIDENTAL FINDINGS MAY NEED TO BE LOOKED AT
19 DIFFERENTLY THAN FINDINGS ABOUT THE CONDITION
20 BECAUSE THOSE INCIDENTAL FINDINGS COULD BE
21 (INAUDIBLE). AND THE OTHER THING IS THAT EXCEPT FOR
22 A FEW CIRCUMSTANCES IN WHICH WE REALLY KNOW WHAT
23 THOSE FINDINGS MEAN, AND I THINK THE TRINUCLEOTIDE
24 REPEATS IN HUNTINGTON'S IS A GOOD EXAMPLE, BRCA1 IS
25 A CLEAR EXAMPLE NOW, OR THE LYNCH SYNDROME GENES,

BARRISTERS' REPORTING SERVICE

1 THOSE ARE ACTIONABLE. BUT THERE ARE LOTS OF OTHER
2 THINGS THAT COME UP, INCLUDING MISATTRIBUTED
3 PATERNITY, SMALL INCREASES IN RISK FOR COMMON
4 CONDITIONS LIKE CORONARY ARTERY DISEASE OR
5 HYPERTENSION.

6 AND, IN FACT, THERE WAS A MAJOR STUDY
7 PUBLISHED IN *LANCET* OVER THE SUMMER WITH A WHOLE
8 GENOME SEQUENCE DONE ON A STANFORD RESEARCHER WHO'S
9 WELL-KNOWN THAT LOOKED AT THE CLINICAL SIGNIFICANCE
10 OF FINDINGS FROM A WHOLE GENOME SEQUENCE DONE. AND
11 PEOPLE CAN READ THAT ARTICLE IN A COUPLE OF WAYS.
12 ONE IS THAT, YEAH, HE HAS A SMALL INCREASED RISK FOR
13 HEART DISEASE, HYPERTENSION; BUT WHEN YOU REALLY GET
14 DOWN TO IT, IT WAS, WELL, YOU OUGHT TO EXERCISE
15 MORE, BE PRUDENT ABOUT YOUR DIET, AND KEEP YOUR
16 WEIGHT DOWN. NOW, SOME PEOPLE SAY, BUT IT'S REALLY
17 DIFFERENT IF I GET THAT JUST FROM MY PRIMARY CARE
18 DOCTOR WHO SAYS THAT TO EVERYBODY VERSUS GETTING IT
19 WITH SOME DATA ATTACHED. I MAY TAKE THAT MORE
20 SERIOUSLY.

21 I THINK THE EVIDENCE IS REALLY MIXED THAT
22 GETTING GENOMIC RESULTS BACK OR HIGH TECH RESULTS
23 BACK ACTUALLY CHANGES PEOPLE'S HEALTH BEHAVIOR. ON
24 THE OTHER HAND, IT MAY JUST BE SOME PEOPLE WANT TO
25 KNOW. AND THEY MAY SAY THAT PART OF THE QUID PRO

BARRISTERS' REPORTING SERVICE

1 QUO IS I GIVE YOU MY SPECIMENS, YOU GET TO DO THIS
2 MARVELOUS RESEARCH, AND I'M CURIOUS. I JUST WANT TO
3 KNOW. MAYBE IT IS EVERYTHING GOOD OR BAD NO MATTER
4 WHAT. I THINK WE'VE TALKED ABOUT MAKING THIS PART
5 OF THE CONSENT PROCESS. THIS IS A REALLY
6 COMPLICATED PART OF THE CONSENT PROCESS. YOU GOT TO
7 TALK ABOUT FALSE POSITIVES, FALSE NEGATIVES.

8 LET ME ALSO JUST PICK ON SOMETHING THAT
9 ROSIE SAID, WHICH IS HOW DO WE FRAME THIS? IS IT
10 THAT THE RESEARCHER MAY CHOOSE TO OFFER RESULTS
11 BACK? CIRM ENCOURAGES RESEARCHERS TO BE MORE
12 FORTHCOMING THAN TRADITIONALLY? WE REQUIRE
13 RESEARCHERS, AND THEN WHAT RESEARCHERS?

14 DR. KIESSLING: WHY WOULD IT NOT BE A
15 HUMAN SUBJECT?

16 CHAIRMAN LO: LET ME JUST FINISH. SO IF I
17 GET A STEM CELL LINE THAT WAS DERIVED BY A CIRM
18 RESEARCHER, PUT IN THE BANK, AND I'M THE FIRST ONE
19 TO DO WHOLE GENOME SEQUENCING AND IT'S BLINDED TO
20 ME. DO I HAVE AN OBLIGATION NOW, AND I'M REALLY
21 LOOKING AT IT TO LOOK FOR GENES FOR LONG QT
22 SYNDROME, FOR EXAMPLE. DO I NOW HAVE TO GO LOOK FOR
23 BRCA GENES, LYNCH SYNDROME GENES, TRINUCLEOTIDE
24 REPEATS WHEN THAT WASN'T THE POINT OF MY DOING THE
25 RESEARCH AND I'M NOT REALLY TRAINED TO DO THAT? IF

BARRISTERS' REPORTING SERVICE

1 I DON'T, THEN AM I MISLEADING SUBJECTS TO OFFER THEM
2 I WANT ALL THE INFORMATION BACK GOOD OR BAD NO
3 MATTER WHAT? IF I'M OFFERING SOMETHING, IS IT AN
4 OFFER THAT REALLY HAS MEANING? IS IT A RIGHT TO THE
5 INFORMATION? IF SO, WHO HAS THE CORRELATIVE
6 OBLIGATION TO ACTUALLY LOOK FOR IT AND GET IT BACK
7 TO THE PERSON?

8 SO THESE ARE -- I THINK WE'RE ALL SORT OF
9 SAYING, I HEAR A LOT OF SENTIMENT THAT WE HAVE TO BE
10 MORE FLEXIBLE AND RESPECT DONORS WHO WANT TO HAVE A
11 LOT OF INFORMATION BACK EVEN IF IT'S NOT ACTIONABLE,
12 EVEN IF IT'S NOT CLIA CERTIFIED, EVEN IF WE DON'T
13 KNOW THE VALIDITY ANALYTICALLY OR CLINICALLY. BUT
14 WHAT DO WE DO OTHER THAN SAY IT'S NOT A BAD THING IF
15 YOU DO IT WELL?

16 DR. ROBERT TAYLOR: BERNIE, I WOULD JUST
17 ADD THAT WE'RE SETTING GENOMEWIDE, WHOLE GENOME
18 SEQUENCING AS KIND OF THE ULTIMATE, BUT THE TRUTH IS
19 THERE'S GOING TO BE AN EPIGENOME, AND THEN WE'RE
20 GOING TO WANT TO KNOW ABOUT THE ACETYLOME OF
21 CHROMATIN. EVERY COUPLE OF YEARS WE'RE GOING TO
22 HAVE SOMETHING MORE THAT WILL BE OF INTEREST. AND
23 HOW DEEP THAT ANALYSIS HAS TO GO TO BE ABLE TO
24 PROVIDE THE INFORMATION BACK TO CIRM, IF IT'S A CIRM
25 REQUIREMENT TO GET THAT INFORMATION, IS GOING TO BE

BARRISTERS' REPORTING SERVICE

1 A MOVING TARGET.

2 DR. PATRICK TAYLOR: I GUESS MY OWN
3 REACTION, BERNIE, IS THAT WE DON'T ACTUALLY KNOW HOW
4 TO DO THIS RIGHT YET. THERE ARE A LOT OF THINGS
5 THAT NEED TO HAPPEN. IN THE PAPERS WE FOCUSED ON
6 THE NEED TO FIGURE OUT WAYS TO DO IT IN THE CONTEXT
7 OF A SAFETY-NETTED SYSTEM AND ALSO IN THE CONTEXT OF
8 CAREFUL EVALUATION OF WHAT STUDIES IT'S APPROPRIATE
9 FOR IN TERMS OF THEIR RIGOR AND A LOT OF OTHER
10 THINGS.

11 I GUESS MY OWN RECOMMENDATION WOULD BE
12 THAT CIRM SHOULD BECOME A VERY ACTIVE PARTICIPANT IN
13 DISCUSSING HOW TO DO THAT. AND THAT WOULD BE BOTH
14 OF GREAT BENEFIT TO A NATIONAL DISCUSSION AROUND IT,
15 WHICH DOESN'T INVOLVE ACTUALLY THAT MANY PEOPLE, AND
16 ALSO A BENEFIT TO THINKING ABOUT HOW YOU MIGHT FRAME
17 REQUIREMENTS. THERE CERTAINLY ARE GUIDELINES OUT
18 THERE, THE RECENT PUBLICATION THAT WAS REFERRED TO,
19 WHICH GIVES SOME SENSE OF WHEN PEOPLE MAY DO IT.
20 AND THIS MAY SOUND A BIT SURPRISING. THOSE ARE
21 ACTUALLY DECONTEXTUALIZED FROM AN INFRASTRUCTURE
22 THAT WOULD DO IT AS WELL. CREATE ABSTRACT
23 STANDARDS. DO WE WANT TO SAY ACTIONABILITY IS
24 REQUIRED OR NOT AND SO ON? I THINK THE CONTEXT OF
25 HOW IT'S DONE IS ACTUALLY QUITE IMPORTANT.

BARRISTERS' REPORTING SERVICE

1 DR. KIESSLING: IT SEEMS TO ME LIKE THIS
2 IS A HUMAN SUBJECTS REVIEW COMMITTEE JOB. HUMAN
3 SUBJECTS COMMITTEES HAVE KIND OF STRUGGLED WITH THIS
4 KIND OF NOT TO THE IN DEPTH THAT WE CAN DO IT NOW,
5 BUT THIS IS NOT A NEW THOUGHT TO A HUMAN SUBJECTS
6 REVIEW COMMITTEE THAT'S REALLY THOUGHT ABOUT THESE
7 ISSUES, THE INCIDENTAL FINDINGS ISSUE. THIS IS NOT
8 A NEW IDEA. SO I DON'T KNOW WHY HUMAN SUBJECTS
9 COMMITTEES OR HUMAN GUIDELINES FROM HUMAN SUBJECTS
10 COMMITTEES ISN'T BEING PUT IN PLAY HERE. MAYBE THE
11 CIRM PANEL SHOULD HAVE AN IRB REVIEW COMMITTEE THAT
12 REVIEWS INCIDENTAL FINDINGS, BUT THIS IS NOT A NEW
13 THOUGHT TO HUMAN SUBJECTS REVIEW.

14 MS. ISASI: NO. ACTUALLY WE ARE PART OF
15 THE SUSAN WOLF TEAM, AND BUT THERE'S NO CONSENSUS.
16 AND --

17 DR. KIESSLING: I REALIZE THERE'S --

18 MS. ISASI: THERE'S GUIDANCE ABSOLUTELY.
19 WE JUST MAP, FOR EXAMPLE, THE POLICIES AS PERTAINING
20 TO STEM CELL RESEARCH AND STEM CELL BANKS. AND
21 THERE'S LITTLE. THERE'S JUST GENERIC -- ACROSS THE
22 GLOBE, THERE'S JUST GENERIC PROVISIONS THAT SAYS IT
23 SHALL BE PART OF THE INFORMED CONSENT PROCESS.
24 BANKS SHOULD HAVE POLICIES IN PLACE TO HELP TO
25 MANAGE, BUT THEY DON'T DEFINE. AND A KEY ISSUE IS

BARRISTERS' REPORTING SERVICE

1 WHAT BERNIE SAID, TERMINOLOGY. SO DONORS,
2 RESEARCHERS, AND EVERYBODY INVOLVED UNDERSTAND WHAT
3 IS INDIVIDUAL RETURN OF RESULTS, WHAT IS AN
4 INCIDENTAL FINDING, AND WHEN THEY ARE NOT. BUT
5 THERE'S GUIDANCE, BUT THERE'S NOT ENOUGH.

6 AND ANOTHER EXERCISE IS WHAT IPSC BY
7 NATURE CHANGED THINGS AND REQUIRE SPECIFIC ANALYSIS
8 OR APPROACH.

9 MS. HEMPEL: I WAS ALSO GOING TO ADD JUST
10 THAT THERE'S A LOT OF COMMERCIAL COMPANIES TOO,
11 COMPANIES LIKE NOME OR 23 AND ME WHERE PEOPLE ARE
12 SUBMITTING THEIR GENETIC INFORMATION, AND THEY ARE
13 PROVIDING RESULTS BACK TO PEOPLE. AND SO THERE MUST
14 BE SOME PROCESSES IN PLACE WITH THESE COMMERCIAL
15 COMPANIES AS WELL AS HOW DO THEY DO THAT AND WHAT
16 KIND OF STUMBLING BLOCKS DO THEY SEE IN PROVIDING
17 INFORMATION TO PEOPLE ON JUST THEIR GENERAL GENETIC
18 DATA.

19 DR. ROBERTS: ALSO THE CONGRESS IS
20 INVESTIGATING THEM. THEY'RE UNDER INVESTIGATION BY
21 MANY DIFFERENT GOVERNMENT. AT ONE POINT THEY HAD A
22 CEASE AND DESIST ORDER FROM THE STATE OF CALIFORNIA,
23 STATE OF NEW YORK. SO I THINK THERE'S A LOT OF
24 CONCERN ABOUT WHAT KIND OF INFORMATION THEY'RE
25 GIVING BACK AND WHAT THEY'RE PROMISING ABOUT WHAT

BARRISTERS' REPORTING SERVICE

1 THIS INFORMATION CAN TELL YOU. SO, AGAIN, EVEN
2 THAT'S CONTROVERSIAL AS WELL.

3 DR. PECKMAN: I THINK THIS IS A GREAT
4 DISCUSSION. I THINK IT'S CLEAR FROM THE LITERATURE
5 THERE'S NO CONSENSUS ON WHAT TO DO WITH WHOLE
6 GENOMEWIDE ANALYSIS. I THINK THAT WHAT THIS
7 COMMITTEE HAS ARTICULATED IS NOT ALL DATA ARE THE
8 SAME, AND YOU NEED TO THINK ABOUT THE TYPES OF DATA
9 AND THE INFORMATION THAT WILL BE PROVIDED TO DONORS.

10 I THINK MORE FUNDAMENTAL TO THIS
11 DISCUSSION IS WHAT WAS JUST BROUGHT UP. IF WE'RE
12 TALKING ABOUT DOING GENOMEWIDE SEQUENCING OF PRIMARY
13 CELLS, THAT'S ONE THING WHEN YOU'RE TALKING ABOUT
14 RETURNING DATA TO DONORS. IF YOU'RE TALKING ABOUT
15 DOING GENOMEWIDE DATA SEQUENCING ON AN IPS LINE, SO
16 ITS PRIMARY CELL HAS BEEN REPROGRAMMED, HOW ARE YOU
17 GOING TO BE ABLE TO PARSE OUT WHAT IS FROM THE DONOR
18 AND WHAT IS FROM THE REPROGRAMMING PROCESS? AND
19 WHAT IS THE SIGNIFICANCE AND MEANING OF THOSE
20 FINDINGS TO THE DONOR FOR WHO THE ORIGINAL MATERIAL
21 HAS BEEN TOTALLY TRANSFORMED?

22 AND SO, AGAIN, I THINK THE DEVIL IS IN THE
23 DETAILS WHEN YOU THINK ABOUT THIS WHEN YOU'RE
24 APPLYING IT TO AN IPS BANK.

25 DR. ROBERT TAYLOR: I THINK EXPRESSION IS

BARRISTERS' REPORTING SERVICE

1 ONE THING, BUT THE GENOMIC SEQUENCE PROBABLY ISN'T
2 GOING TO BE DRAMATICALLY ALTERED UNTIL THE CELLS --
3 DR. PECKMAN: WELL, WHAT WE HAVE SEEN WITH
4 HUMAN EMBRYONIC STEM CELL LINES IS EVEN WITH AGE OF
5 THE LINES, THEY CHANGE IN THEIR GENETIC SEQUENCE.
6 SO IF YOU WORK ON LINE FROM 23 FROM LINE 1, YOU'RE
7 GOING TO SEE A CHANGE IN THE GENOME. AND SO WE'RE
8 TALKING ABOUT SOMETHING FUNDAMENTALLY DIFFERENT THAN
9 DOING A SEQUENCING ON A PRIMARY CELL.

10 CHAIRMAN LO: THERE'S A SET OF ARTICLES IN
11 *NATURE* OVER THE SUMMER DOCUMENTING GENOMIC PROBLEMS,
12 EPIGENOMIC PROBLEMS, AND NUCLEOTIDE REPEAT PROBLEMS.
13 THE COMEBACK TO THAT IS I CAN IMAGINE A DONOR SAYING
14 TELL ME, AND I CAN ALWAYS SCRAPE UP THE MONEY TO GO
15 TO NAVIGEN IS 2020 IF THEY'RE STILL IN BUSINESS, AND
16 THEY'RE GOING TO DO A WHOLE GENOME SEQUENCING, AND
17 I'LL BE ABLE TO COMPARE. AGAIN, I THINK IT'S
18 ABSOLUTELY RIGHT. WE REALLY DON'T KNOW WHAT THOSE
19 ABNORMALITIES MIGHT MEAN, WHETHER THEY'RE IN THE
20 LINE OR IN THE REPROGRAMMING, BUT I CAN IMAGINE
21 SOMEONE SAYING, WELL, LET ME KNOW. I KNOW IT'S
22 UNCERTAIN AND LET ME TAKE THE NEXT STEP.

23 DR. FEIGAL: I GUESS GOING BACK TO THE
24 PRINCIPLES OF WHAT DO WE WANT TO DO, I THINK WE ALL
25 WANT TO DO A BETTER JOB COMMUNICATING TO PATIENTS

BARRISTERS' REPORTING SERVICE

1 ABOUT OUR RESEARCH AND THE TYPES OF ADVANCES IT
2 MAKES. I THINK WHAT WE DON'T WANT TO DO ON AN
3 INDIVIDUAL BASIS IS HYPE, PARTICULARLY WITH
4 INFORMATION WHERE WE REALLY DON'T KNOW THE QUALITY
5 OF THE DATA, THE ASSAY CHARACTERISTICS. AND WE
6 DON'T WANT TO EVEN GIVE A PERCEPTION THAT WE'RE
7 SAYING THIS IS USEFUL INFORMATION TO YOU.

8 SO I THINK I JUST WOULD BE CONCERNED IF WE
9 TAKE THE APPROACH THAT WE'RE GOING TO TELL
10 EVERYTHING. I THINK THAT WE NEED TO PROVIDE
11 INFORMATION IN A GOOD WAY BACK TO PATIENTS ABOUT
12 WHAT WE'RE DOING WITH THEIR RESEARCH AND HOW THAT
13 HAS APPLICABILITY TO THEM. BUT I THINK ON AN
14 INDIVIDUAL BASIS, WE SHOULD EXERCISE A VERY
15 DELIBERATIVE THOUGHT PROCESS ABOUT WHAT WE WANT TO
16 PROVIDE BACK BECAUSE THERE'S A LOT OF NOISE IN THE
17 SYSTEM AND EXPLORATORY RESEARCH, AND THERE'S A
18 TREMENDOUS AMOUNT OF FALSE POSITIVES.

19 CHAIRMAN LO: I THINK THIS IS THE BREADTH
20 OF OPINION HERE. ELLEN SUMMARIZED THE CONCERNS
21 ABOUT GIVING INFORMATION THAT'S OF UNKNOWN MEANING
22 AND MAY BE MISLEADING AT LEAST TO SOME. CHRIS SORT
23 OF GAVE THE OTHER APPROACH OF FOR AT LEAST ONE
24 COMMITTED AND WELL-INFORMED DONOR, THIS IS ALL VERY
25 IMPORTANT AND, IN FACT, HELPS THE RESEARCH.

BARRISTERS' REPORTING SERVICE

1 SO ONE QUESTION THAT COMES TO MIND, AND
2 WE'VE TALKED A LOT ABOUT THE CONSENT PROCESS REALLY
3 NEEDS TO KIND OF BE PRETTY ROBUST HERE, DO WE WANT
4 TO DO SOME SORT OF EVALUATION? IF THIS, AND THIS IS
5 A BIG IF, IF WE'RE GOING TO ALLOW INDIVIDUAL
6 NONEVALUATED RESULTS TO BE OFFERED, DO WE THEN ASK
7 THE PEOPLE WHO SAY, YES, I'D LIKE THAT TO UNDERGO
8 SOME SORT OF EDUCATION, COUNSELING PROCESS SO THAT
9 WE'RE PERSUADED, WHOEVER IS DOING IT, WHETHER IT'S
10 THE CIRM BANK OR THE CIRM-FUNDED RESEARCHER OR IT'S
11 THE SECONDARY RESEARCHER, IS CONVINCED THAT THAT
12 PERSON ISN'T GOING TO MISINTERPRET.

13 DR. FEIGAL: I DON'T KNOW HOW DO YOU THAT
14 RESEARCH.

15 CHAIRMAN LO: THAT'S A BIG BURDEN. THAT'S
16 HUGE. SO IT SEEMS TO ME THAT'S HARD. I WANT TO
17 COME BACK TO THE FACT THAT WHO HAS THE
18 RESPONSIBILITY HERE OF GIVING RESULTS BACK. WE MAY
19 PUT SOMETHING IN THE UP-FRONT CONSENT FORM FOR THE
20 CIRM-FUNDED RESEARCHER WHO'S JUST GOING TO DERIVE
21 THE IPS LINES, BUT THAT RESEARCHER MAY NOT DO MORE
22 THAN JUST DERIVE THE LINE AND GIVE IT OVER TO
23 SOMEONE LIKE TIM AND SAY, HERE. THIS SHOULD BE A
24 NEAT LINE. WORK WITH IT. AND HOW FAR DOWN THAT
25 SECONDARY USE OF THE LINES DOES THIS ANY OBLIGATION

BARRISTERS' REPORTING SERVICE

1 OR AGREEMENT TO OFFER RESULTS BACK GO BECAUSE THE
2 FURTHER DOWN YOU GET, THE FURTHER AWAY FROM THE
3 PATIENT, IT'S GOING TO BE VERY HARD TO DO.

4 CHRIS HAS, AS I UNDERSTAND IT, PERSONAL
5 CONNECTIONS TO A LOT OF THESE RESEARCHERS. SHE
6 TAKES THE TROUBLE UP FRONT TO SAY LET ME TELL YOU
7 THIS ISN'T JUST 90071. THIS IS MY TWO DAUGHTERS AND
8 I'LL TELL YOU ABOUT THEM. I WANT TO KNOW.

9 MS. HEMPEL: RIGHT. I CONTACT THEM, BUT I
10 THINK A LOT OF PEOPLE SAY, WELL, HOW ARE YOU GETTING
11 STUFF DONE? HOW DO YOU HAVE AN FDA APPROVAL TO DO
12 THIS TREATMENT ON YOUR TWINS? HOW DID YOU GET THE
13 IPS CELLS DONE? THE ONLY WAY THAT YOU CAN DO THAT
14 IS THROUGH GETTING THE DATA TO PEOPLE TO LIKE MOVE
15 FORWARD AND LIKE TAKE THE NEXT STEP TO GO TO THE
16 NEXT PLACE. AND THE DATA LEADS YOU IN THESE
17 DIFFERENT DIRECTIONS. THAT'S REALLY THE ONLY WAY
18 THAT I'VE BEEN ABLE TO DO IT. SO I THINK IT'S A
19 REALLY CHALLENGING SUBJECT, BUT FOR ME IT'S
20 IMPORTANT TO GET THE DATA. IF I DON'T HAVE THE
21 DATA, I ACTUALLY FEEL A LOT MORE STRESSED OUT BY NOT
22 KNOWING WHAT'S HAPPENING THAN I DO BY KNOWING WHAT
23 IS HAPPENING.

24 DR. ROBERT TAYLOR: I THINK IT MIGHT BE
25 FAIR TO SAY THAT YOU'RE EXTREMELY EXCEPTIONAL. I

BARRISTERS' REPORTING SERVICE

1 DON'T KNOW THAT THE SYSTEM NEEDS TO RELY ON HAVING
2 EVERYBODY BEHAVE THE WAY YOU'VE DONE, WHICH IS
3 REMARKABLE. SO IT WOULD SEEM TO ME THAT THIS WOULD
4 BE SOMETHING WHERE CIRM WOULD ACTUALLY HAVE A
5 SET-ASIDE FUND TO PROVIDE BECAUSE, AGAIN, I SEE THIS
6 THE FURTHER AWAY THAT IT GETS FROM THE REPOSITORY,
7 THE MORE CHALLENGING IT'S GOING TO BE TO HAVE THAT
8 KIND OF COUNSELING. I WOULD ALMOST -- I DON'T KNOW
9 IF THAT'S COME OUT OF YOUR DISCUSSIONS WITH OTHER
10 STEM CELL CENTERS, BUT IT WOULD SEEM THAT SHOULD BE
11 MAYBE AN INTEGRAL PART OF THE PROGRAM.

12 MS. ISASI: ABSOLUTELY. IT WAS A KEY
13 ISSUE. IF YOU DECIDE TO PROVIDE SOME INFORMATION,
14 I'LL PUT IN QUOTATIONS, WHETHER IT'S IN THE CLINICAL
15 SIGNIFICANT FINDINGS, ETC. BACK TO THAT, YOU HAVE
16 TO HAVE A SYSTEM IN PLACE, AN INFRASTRUCTURE FOR
17 THEM. AND ONE OF THEM IS HAVING GENETIC COUNSELORS
18 AS PART. OTHERWISE IT WILL BREACH INTO THE
19 RESPONSIBILITIES OF WHOEVER IS IN CHARGE OF
20 DELIVERING THE INFORMATION IN A MANNER THAT WILL
21 EVENTUALLY HARM THE DONORS THEMSELVES. AND LIKE
22 ACTING UP ON FALSE INFORMATION, MISREPRESENTING,
23 ETC. SO PREIMPOSED COUNSELING WAS RECOMMENDED.

24 AND THIS COULD BE VERY FARFETCHED, BUT I
25 HEARD ONE OF THE BANKERS AND RESEARCHERS USING,

BARRISTERS' REPORTING SERVICE

1 WELL, WE DON'T GO BACK TO THE GENETIC TESTING MODEL
2 IN WHICH WE HAVE PRE AND POSTCOUNSELING BEFORE
3 CONVEYING INFORMATION TO DONORS. AGAIN, DEPENDS ON
4 THE TYPE OF INFORMATION YOU ARE FEEDING BACK.

5 DR. ROBERT TAYLOR: THAT WOULD BE
6 WONDERFUL VALUE ADDED FOR THE COMMUNITY AND FOR THE
7 INVESTIGATORS AND REALLY FOR EVERYBODY. GREAT IDEA.

8 DR. LOCKHART: I'M NOT SURE IF THIS WOULD
9 BE HELPFUL, BUT I WONDER AS YOU TALK THROUGH THESE
10 DISCUSSIONS IF IT MIGHT BE USEFUL TO DRAW SOME
11 CONFINES AROUND THE RESPONSIBILITY AS YOU KIND OF
12 DID WITH THE ISSUE OF WITHDRAWAL. SO ONE THING I'VE
13 HEARD IS HOW FAR DOES THE RESPONSIBILITY TO RETURN
14 CONTINUE? IS IT JUST PRIMARY RESEARCHERS THAT
15 RECEIVE CELLS FROM THE CIRM BANK DIRECTLY? IS IT
16 ANYONE THEY THEN GIVE THEIR FURTHER TRANSFORMED
17 CELLS TO? IS THERE SOME BOUNDARY YOU'D BE WILLING
18 TO DRAW?

19 AND BERNIE MENTIONED EARLIER IS THERE A
20 DUTY TO HUNT? SO IF YOU'RE DOING CARDIOVASCULAR
21 RESEARCH, THAT'S YOUR AREA OF INTEREST, BUT YOU'RE
22 DOING A LARGE-SCALE SEQUENCING, DO YOU HAVE TO LOOK
23 FOR OTHER THINGS? COULD YOU CONSIDER THAT OUTSIDE
24 OF THE BOUNDS OF RESPONSIBILITY THAT THERE IS NO
25 DUTY TO HUNT? THERE'S ONLY A DUTY TO REPORT THINGS

BARRISTERS' REPORTING SERVICE

1 THAT YOU HAPPEN TO FIND. THAT MIGHT BE A WAY TO
2 CONFINE THIS.

3 AND THEN IS THERE SOME KIND OF LENGTH OF
4 TIME OR OTHER WAY, HOW LONG DOES THIS DUTY TO REPORT
5 EXIST? SO YOU INITIALLY FIND A NUMBER OF VARIANTS,
6 NONE OF THEM ARE CLINICALLY SIGNIFICANT AT THE TIME.
7 WOULD RESEARCHERS HAVE SOME RESPONSIBILITY TO GO
8 BACK AND KEEP REVISITING ARE THEY SIGNIFICANT NOW?
9 SOMETHING LIKE THAT WOULD BE VERY BURDENSOME. SO IS
10 THERE A WAY YOU CAN LIMIT RESPONSIBILITY OR
11 DELINEATE THIS AND MAKE IT A LITTLE CLEARER?

12 CHAIRMAN LO: LET ME TRY AND -- GEOFF
13 REMINDED ME THAT I HAVE THIS VERY BAD HABIT OF NOT
14 ALLOWING FOR BATHROOM BREAKS. I NOTICE I NEED TO
15 GET A BATHROOM BREAK.

16 ON YOUR WAY TO EITHER COFFEE OR THE
17 BATHROOM OR BOTH, WHY DON'T WE THINK ABOUT THE
18 FOLLOWING ISSUES. IT STRIKES ME THAT THIS IS A VERY
19 COMPLICATED AND VERY HOT ISSUE. WE'RE NOT GOING TO
20 SETTLE IT TODAY. IT SEEMS TO ME THERE ARE A COUPLE
21 THINGS I'VE HEARD.

22 ONE IS THAT IF WE'RE GOING TO DO THIS --
23 IF A RESEARCHER IS GOING TO DO THIS, IT'S GOT TO BE
24 DONE REALLY WELL AND REALLY CAREFULLY. WE'VE GOT TO
25 PAY ATTENTION TO NOT CREATING AN EXPECTATION THAT IS

BARRISTERS' REPORTING SERVICE

1 SO OUTSIZED THAT WE WON'T BE ABLE TO FOLLOW THROUGH.
2 WE NEED TO BE VERY AWARE OF HOW PEOPLE, DONORS MAY
3 VARY IN BOTH THEIR DESIRE TO HAVE RESULTS BACK AND
4 IN THEIR ABILITY TO USE THEM IN A WAY THAT'S HELPFUL
5 TO THEM.

6 AND I THINK WE'VE HEARD FROM CHRIS ON ONE
7 HAND AND OTHERS THAT YOU CAN IMAGINE SCENARIOS WHERE
8 IT'S WONDERFUL FOR THE DONOR, THE DONOR'S FAMILY,
9 AND THE RESEARCH ENTERPRISE. YOU CAN ALSO THINK OF
10 INSTANCES WHERE THIS MISUNDERSTANDING, ELLEN USED
11 THE TERM "HYPE" IN SORT OF THINKING THAT SOMETHING'S
12 MORE SERIOUS OR MORE ESTABLISHED THAN IT IS. SO HOW
13 DO WE KIND OF ALLOW -- DO WE WANT TO TRY AND ALLOW
14 PEOPLE LIKE CHRIS TO GET WHAT SHE NEEDS; WHEREAS, WE
15 ALSO WANT TO BE CAREFUL NOT TO OFFER OR ENCOURAGE
16 PEOPLE TO RECEIVE RESULTS THAT THEY'RE NOT GOING TO
17 UNDERSTAND, DON'T HAVE THE EDUCATIONAL SUPPORT IN
18 PLACE, OR HAVE A MISCONCEPTION OF WHAT IT IS?

19 SO STRIKES ME IN TERMS OF POLICY, DO WE
20 JUST SAY IT'S PERMISSIBLE TO BE WORKED OUT BY THE
21 RESEARCHER AND THE DONOR ON A ONE-TO-ONE BASIS, AND
22 HERE ARE SOME GUIDELINES ON HOW TO DO IT WELL? DO
23 WE WANT TO ENCOURAGE IT? DO WE WANT TO CALL
24 ATTENTION TO THE RISKS OF DOING IT? IF YOU ARE
25 GOING TO DO IT, YOU NEED TO PLAN HOW TO ADDRESS ALL

BARRISTERS' REPORTING SERVICE

1 THESE RISKS. OR DO WE JUST WANT TO DO A POINTS TO
2 CONSIDER, THAT THIS IS A HOT TOPIC, A LOT OF PEOPLE
3 ARE DISCUSSING IT. ON THE ONE HAND, YOU HAVE DONOR
4 FAMILIES LIKE CHRIS WHO REALLY THRIVE ON THIS AND IT
5 ACCELERATES THE RESEARCH PROCESS. AND THEN ON THE
6 OTHER HAND, WE HAVE TO BE AWARE OF OTHER SITUATIONS.

7 SO THIS IS SOMETHING JUST TO THINK ABOUT.
8 I WANT TO TRY AND COME BACK AFTERWARDS AND SEE IF
9 THERE'S SOMETHING TO -- AGAIN, WE'RE THINKING ABOUT
10 NEXT STEPS, NOT NECESSARILY SOLVING THEM. AND THEN
11 THERE ARE A COUPLE OTHER THINGS GEOFF PUT ON OUR
12 AGENDA TO WANT TO DEAL WITH.

13 WE ARE LIMITED IN OUR TIME. BEFORE FOUR,
14 WE WANT TO MAKE SURE THAT WE'VE SORT OF GIVEN THE
15 BIG PICTURE. SO THAT DOESN'T GIVE US A WHOLE LOT OF
16 TIME. TEN MINUTES.

17 (A RECESS WAS TAKEN.)

18 CHAIRMAN LO: WE'RE PROBABLY GOING TO END
19 THE FORMAL MEETING CLOSER TO FOUR THAN TO FIVE. AND
20 THEN WE CAN HAVE SOME INFORMAL DISCUSSIONS.

21 LET ME TRY AND WRAP UP HERE. THIS HAS
22 BEEN A VERY RICH AND THOUGHTFUL AND COMPLICATED
23 DISCUSSION. THESE ARE REALLY TOUGH ISSUES. AGAIN,
24 I WANT TO REMIND US THAT WHAT WE'RE REALLY DOING IS
25 THINKING ABOUT THE NEXT STEPS. WE'RE NOT HAVING TO

BARRISTERS' REPORTING SERVICE

1 SOLVE ALL THESE PROBLEM TODAY. WE'RE JUST THINKING
2 ABOUT WHAT WE DO NEXT.

3 AND FIRST OF ALL, THE POINTS THAT REALLY
4 STRUCK ME ARE THAT THERE IS A TREMENDOUS VARIATION
5 IN WHAT DONORS NEED TO KNOW TO MAKE AN INFORMED
6 DECISION AND HOW MUCH THEY WANT TO BE INVOLVED, AND
7 FOR THAT MATTER, WHAT THEY WANT WITH REGARD TO
8 RESEARCH RESULTS. I THINK ONE THAT THING THAT I
9 HEARD AS A THEME IS THAT, WHERE POSSIBLE, WE WANT TO
10 OFFER DONORS OPTIONS, HELP THEM UNDERSTAND WHAT
11 THOSE OPTIONS MEAN, AND ALLOW THEM TO MAKE INFORMED
12 CHOICES, AND THEN STICK TO WHAT WE PROMISED WE WOULD
13 DO.

14 I THINK THAT WITH REGARD TO CONSENT, WE
15 ALL, I THINK, AGREED THAT CONSENT IS TERRIBLY
16 IMPORTANT. IT'S MORE THAN JUST A CONSENT FORM.
17 IT'S A PROCESS. WE NEED TO MAKE SURE PEOPLE
18 UNDERSTAND WHAT WE TALK TO THEM ABOUT. AND WE WANT
19 THAT PROCESS TO BE BASED ON WHAT DONORS NEED TO
20 KNOW, WHAT THEY HAVE TROUBLE UNDERSTANDING, AND
21 SHOULD TURN TO THE EMPIRICAL LITERATURE. AND I'VE
22 TALKED TO GEOFF, AND HE'S GOING TO WORK ON SORT OF
23 DRAWING TOGETHER WHAT WE KNOW IN OTHER CONTEXTS AND
24 MAYBE SEE IF THERE ARE PROPOSALS FOR CIRM TO DO SOME
25 RESEARCH, ADDITIONAL RESEARCH, ON STEM CELL-SPECIFIC

BARRISTERS' REPORTING SERVICE

1 ISSUES, BUT SHERRY BROUGHT UP THE POINT THAT THERE
2 ARE RESOURCE CONSTRAINT ISSUES.

3 SO IN TERMS OF CONSENT, I THINK WE HAVE A
4 PLAN GOING FORWARD. WITHDRAWAL OF SUBJECTS FROM
5 RESEARCH, I HEARD A LOT OF AGREEMENT AT THE TWO
6 EXTREMES, THAT ON THE ONE HAND, IF YOU JUST DONATE
7 YOUR TISSUE AND THE SCIENTIST HADN'T DONE ANYTHING
8 WITH IT EXCEPT PUT IT IN THE FREEZER, YOU COULD
9 CERTAINLY WITHDRAW FROM FURTHER CONTACT, PROVIDING
10 ADDITIONAL MEDICAL INFORMATION. AT THE OTHER
11 EXTREME, THAT ONCE THE SCIENTIST HAD TRANSFORMED
12 YOUR CELLS, DERIVED THE STEM CELL LINE, CARRIED OUT
13 ADDITIONAL RESEARCH, YOU NO LONGER COULD JUST
14 WITHDRAW YOUR MATERIALS, THAT YOU COULD DECLINE TO
15 BE INVOLVED IN FURTHER STUDIES, BUT YOU LET GO
16 FORWARD THE RESEARCH WITH THE TRANSFORMED MATERIALS.

17 DR. ROBERTS: BERNIE, I DON'T MEAN TO
18 INTERRUPT, BUT IT'S THAT YOU CAN NO LONGER WITHDRAW
19 THE TRANSFORMED MATERIALS, BUT THERE'S STILL A
20 QUESTION ABOUT TISSUE.

21 CHAIRMAN LO: RIGHT. THE ORIGINAL TISSUE,
22 TO THE EXTENT THAT THAT'S THERE AND LOCATABLE AND
23 TRACTABLE, I THINK THAT'S SOMETHING WE NEED TO THINK
24 MORE ABOUT BECAUSE I HEARD DIFFERENT POINTS OF VIEW.
25 AND I THINK WHAT I'M GOING TO ASK GEOFF TO DO IS

BARRISTERS' REPORTING SERVICE

1 FOCUS ON THAT ISSUE AND SORT OF LAY OUT THE POLICY
2 OPTIONS AND THE ARGUMENTS TO REALLY HELP THE ICOC
3 AND THE PEOPLE WHO DRAW UP THE GRANTS POLICY AND THE
4 RFA'S TO SORT OF CONSIDER THAT.

5 WITH REGARD TO RETURN OF DATA, CLINICALLY
6 INCIDENTAL AND SIGNIFICANT, AGAIN, I THINK WE SAW A
7 LOT OF DIFFERENT VIEWS. AND, AGAIN, I THINK IT'S
8 JUST BEEN, I THINK FOR ALL OF US, CHRIS, A REAL
9 HONOR TO HEAR FROM YOU ABOUT HOW YOU ARE THE SORT OF
10 PARADIGM OF GIVING PEOPLE RESULTS BACK IN WAYS THAT
11 NOT ONLY WILL THEY NOT MAKE UNWISE CLINICAL
12 DECISIONS BY GIVING KIDS COPPER WHEN THEY MAYBE
13 DON'T NEED IT, BUT ALSO USE THAT VERY UNCERTAINTY AS
14 TO WHAT'S IT MEAN TO PUSH THE RESEARCH TO A NEW
15 DIMENSION. TO THE EXTENT THAT WE CAN CAPITALIZE ON
16 THAT KIND OF VISION AND DETERMINATION ON THE PART OF
17 OUR DONORS, WE WANT TO DO THAT.

18 SO I THINK, AGAIN, THERE'S A LOT OF WORK
19 BEING DONE. I THINK WHAT WE'RE GOING TO ASK GEOFF
20 TO DO IS SORT OF HELP -- GO BACK ON THE TRANSCRIPT
21 AND SUMMARIZE WHERE WE NOW STAND. AND I THINK THAT
22 JUST TO MAKE PEOPLE AWARE OF WHAT THE CURRENT
23 PRACTICES ARE, AND OUR OWN SENSE THERE'S A BIG
24 DIFFERENCE BETWEEN RESEARCH THAT'S OF UNCERTAIN
25 VALIDITY AND UNCERTAIN SIGNIFICANCE FROM INCIDENTAL

BARRISTERS' REPORTING SERVICE

1 FINDINGS THAT REALLY WILL CAUSE A MAJOR CHANGE IN
2 WHAT YOU RECOMMEND FOR THAT PATIENT. WE SHOULD BE
3 MINDFUL OF THOSE AND, AGAIN, LEAVE IT AS AN OPTION
4 FOR DONORS, THAT THEY'RE THE ONES WHO WILL MAKE THAT
5 CHOICE. WE CAN OFFER THEM THE RESULTS, BUT WE KNOW
6 THAT SOME PEOPLE WILL DECLINE INFORMATION THAT WE
7 THINK WOULD REALLY BENEFIT THEIR HEALTHCARE.

8 THERE ARE A NUMBER OF OTHER ISSUES WHICH
9 WE'RE NOT GOING TO GET TO. I THINK THE MATERIALS
10 RELEASE, TRANSFER AGREEMENTS, I THINK, IS MORE
11 TECHNICAL. AND I THINK, GEOFF, MY OWN SENSE IS YOU
12 DON'T NEED INPUT FROM US.

13 DR. LOMAX: I THINK THE POINT THERE WAS
14 THAT WE DO ALREADY HAVE A SYSTEM, A SET OF
15 REGULATIONS AND POLICIES, AND THAT REALLY THOSE ARE
16 THE MECHANISMS THROUGH WHICH WE CAN SORT OF TIE OUR
17 EXPECTATIONS TO ANY RELEASE AND USE OF MATERIALS.
18 AND THAT'S A TRIED AND TRUE MECHANISM. AND SO I
19 THINK IT'S A LITTLE --

20 CHAIRMAN LO: I WOULD LIKE TO PROPOSE THAT
21 WE TURN TO SHERRY FOR A WRAP-UP MINUTE OR SO BECAUSE
22 SHE ALWAYS CAN PUT EVERYTHING IN THE BIG-PICTURE
23 CONTEXT, AND THEN WE ADJOURN THE MEETING. AND I'M
24 GOING TO HANG AROUND A BIT AND LOVE TO TALK ABOUT
25 THINGS LIKE WHAT ABOUT KIDS WHOSE PARENTS DONATED

BARRISTERS' REPORTING SERVICE

1 AND NOW ARE TURNING 18.

2 MS. LANSING: NO. I THINK YOU WRAPPED IT
3 UP BEAUTIFULLY. YOU SUMMARIZED VERY MUCH THAT WE
4 WERE IN AGREEMENT ON A MENU FOR INFORMED CONSENT,
5 AND WE WERE ALSO IN AGREEMENT THAT INFORMED CONSENT
6 REALLY MEANS MAKING SURE THAT PEOPLE UNDERSTAND WHAT
7 THE VARIOUS OPTIONS ARE, AND THAT WE HAVE ACTUALLY
8 DONE THAT BEFORE IN OUR WORK. THAT THERE WAS A
9 POINT AT WHICH YOU COULD WITHDRAW MATERIAL, AND THAT
10 THERE WAS A POINT AT WHICH IT WAS HARMING SCIENCE.
11 IN THE FIRST CASE WE WERE EMPOWERING THE PATIENT.
12 IN THE SECOND CASE WE DIDN'T WANT TO STOP SCIENTIFIC
13 WORK.

14 I REALLY JUST WANT TO THANK THE MEMBERS OF
15 THE GROUP. I WANT TO WELCOME OUR NEW MEMBER AND
16 TELL YOU HOW MUCH WE APPRECIATE YOU JOINING OUR TEAM
17 AND HOW VALUABLE IT'S BEEN. I WANT TO THANK ALL THE
18 MEMBERS. WE'VE BEEN DOING THIS NOW, SOME OF US, FOR
19 SIX YEARS. WHEN I SAID THAT WE WOULD BE MEETING AND
20 THAT THIS WAS A WORK IN PROGRESS, I MEANT IT, BUT I
21 DON'T THINK I REALLY, REALLY GRASPED HOW MUCH I
22 MEANT IT. I THINK IT'S THRILLING BECAUSE I THINK I
23 SPEAK FOR ALL OF US IN SAYING THAT WHAT WE THOUGHT
24 SIX YEARS AGO, SOME OF IT STILL HOLDS, BUT A LOT OF
25 IT HAS EVOLVED AND DEVELOPED IN A MORE HELPFUL WAY

BARRISTERS' REPORTING SERVICE

1 FOR BOTH THE SCIENTISTS AS WELL AS THE PATIENT.

2 AND THAT BRINGS ME TO YOU, CHRIS. I
3 CANNOT THANK YOU ENOUGH FOR BEING HERE. IT'S ALWAYS
4 SO HELPFUL FOR US TO MEET A PATIENT ADVOCATE AND
5 SOMEBODY WHO TELLS US WHAT ALL OF OUR PHILOSOPHICAL
6 DISCUSSION REALLY IS ABOUT AND WHAT IS IMPORTANT
7 ABOUT IT.

8 I WANT TO THANK THE STAFF FOR EVERYTHING
9 THAT YOU DID TO MAKE THIS MEETING SO TERRIFIC. AND
10 I DIDN'T MEAN FOR IT TO END AT FOUR, BUT I THINK THE
11 STAFF IS LEAVING US. THEY'RE GONE. I GUESS THEY
12 WERE ALL LEAVING. BUT I ACTUALLY THINK IT HAD
13 NOTHING TO DO WITH ME BECAUSE THEY WERE OUT OF HERE
14 LONG BEFORE. I ESPECIALLY WANT TO THANK BERNIE
15 WHO'S JUST EXTRAORDINARY AND ALWAYS HAS THE MOST
16 INCREDIBLE WAY OF LEADING A MEETING. OF COURSE, YOU
17 AS WELL, GEOFF, FOR PREPARING ALL OF US. BUT I HAVE
18 TO SAY IN CIRM THE WORD IS OUT, THAT WE'RE THE
19 COMMITTEE THAT HAS THE MOST FUN AND IS THE MOST
20 CONGENIAL AND REALLY THINKS OUT. AND EVERYBODY IS
21 ALWAYS SAYING I'D LIKE TO BE ON THAT COMMITTEE, AND
22 I HAVE THE PLEASURE OF SAYING IT'S FILLED BECAUSE
23 NOBODY LEAVES US.

24 SO, BERNIE, YOU'RE JUST AN EXTRAORDINARY
25 LEADER, AND YOU HAVE A WAY ABOUT YOU THAT HAS GREAT

BARRISTERS' REPORTING SERVICE

1 CLARITY AND KINDNESS AND ENCOURAGES COLLABORATION.

2 SO THANK YOU TO EVERYBODY.

3 CHAIRMAN LO: THANK YOU. YOU WILL HEAR
4 FROM US AGAIN.

5 (THE MEETING WAS THEN CONCLUDED AT
6 03:58 P.M.)

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BARRISTERS' REPORTING SERVICE

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 INDEPENDENT CITIZEN'S OVERSIGHT COMMITTEE OF THE CALIFORNIA INSTITUTE FOR REGENERATIVE MEDICINE IN THE MATTER OF ITS ANNUAL MEETING HELD AT THE LOCATION INDICATED BELOW

HOTEL PALOMAR LOS ANGELES - WESTWOOD
10740 WILSHIRE BOULEVARD
LOS ANGELES, CALIFORNIA
ON
APRIL 29, 2011

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

BETH C. DRAIN, CSR 7152
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