

COMMISSION OF INQUIRY  
ON HORMONE RECEPTOR TESTING

BEFORE THE HONOURABLE JUSTICE CAMERON - COMMISSIONER

June 25, 2008

Appearances:

- Bernard Coffey, Q.C. . . . . . Commission Co-counsel
- Sandra Chaytor, Q.C./Mandy Woodland . . . . Commission Co-counsel
  
- Rolf Pritchard/Jackie Brazil . . . . Her Majesty in Right of NL
  
- Peter Browne/Jane Hennebury . . . . . Doctors Kara Laing et al
  
- Daniel Simmons . . . . . Eastern Regional Integrated  
. . . . . Health Authority
  
- Ches Crosbie, Q.C. . . . . Members of the Breast Cancer  
. . . . . Testing Class Action
- Mark Pike . . . . . NL Medical Association
- Jennifer Newbury . . . . . Canadian Cancer Society (NL Division)
- Stacey O’Dea . . . . . Central, Western and Labrador-Grenfell  
Regional Integrated Health Authorities
- Simon Clements . . Drs. O’Malley, Pritzker, Wegrynowski & Mullen

LIST OF EXHIBITS

EXHIBITS P-1850, P-1851, P-1852 AND P-1853 . . . . . Pg. 170

TABLE OF CONTENTS

MS. PATRICIA WEGRYNOWSKI - RESUMES THE STAND

Examination by Sandra Chaytor, Q.C. - Cont’d . . . . Pgs. 3 -	56
Examination by Rolf Pritchard . . . . . Pgs. 56 -	57
Examination by Daniel Simmons . . . . . Pgs. 57 -	100
Examination by Peter Browne . . . . . Pgs. 100 -	115
Examination by Jennifer Newbury . . . . . Pgs. 115 -	168
Examination by Ches Crosbie, Q.C. . . . . Pgs. 168 -	181
Re-examination by Rolf Pritchard . . . . . Pgs. 181 -	185
Re-examination by Sandra Chaytor, Q.C. . . . . Pgs. 185 -	191
Discussion . . . . . Pgs. 191 -	195

Certificate

1 COMMISSIONER:  
 2 Q. Please be seated. Ms. Chaytor.  
 3 MS. PATRICIA WEGRYNOWSKI, EXAMINATION BY SANDRA CHAYTOR,  
 4 Q.C. (CONTINUED)  
 5 CHAYTOR, Q.C.:  
 6 Q. Thank you. Good morning, Commissioner. Good  
 7 morning, Ms. Wegrynowski.  
 8 MS. WEGRYNOWSKI:  
 9 A. Good morning, Ms. Chaytor.  
 10 CHAYTOR, Q.C.:  
 11 Q. I think when we left last day we were on your  
 12 second report. And if we could have--thank  
 13 you, Registrar, you already had it up on the  
 14 screen. So for everybody else then it's P-  
 15 0048, page 10. And we're down to the  
 16 recommendations that you made, No. 10. Again  
 17 you're talking about the need for a procedure  
 18 manual outlining all standard operating  
 19 procedures. No. 11, on the top of page 11 is  
 20 about the "Antibody specification sheets have  
 21 been compiled in alphabetical order." And  
 22 "Formal documented validation sheets needed  
 23 for each working antibody detailing its  
 24 specific requirements for use, including the  
 25 appropriate control tissue and staining

Page 5

1 pattern." And "Any change in lot number  
 2 requires verification." So this is more  
 3 detail in terms of what you were looking for  
 4 in terms of the organization of the antibody  
 5 specification sheets?  
 6 MS. WEGRYNOWSKI:  
 7 A. Yes.  
 8 CHAYTOR, Q.C.:  
 9 Q. Okay. And then again you have the fact that  
 10 the microscope maintenance and documentation  
 11 had not been addressed since your last  
 12 assessment, No. 12. No. 13 then again you  
 13 pick up on this whole issue about  
 14 documentation guaranteeing the pipette  
 15 accuracy and calibration and you note that  
 16 that had not been addressed since your last  
 17 assessment?  
 18 MS. WEGRYNOWSKI:  
 19 A. Correct.  
 20 CHAYTOR, Q.C.:  
 21 Q. Ms. Wegrynowski you took us through a  
 22 demonstration, thank you, yesterday, regarding  
 23 that. Did you have any sense at all how old  
 24 the pipettes were at the Eastern Health lab?  
 25 MS. WEGRYNOWSKI:

Page 6

1 A. No, I never saw any documentation as to when  
 2 those pipettes had been purchased.  
 3 CHAYTOR, Q.C.:  
 4 Q. Okay. And you were told by the people in the  
 5 lab that they had never been calibrated?  
 6 MS. WEGRYNOWSKI:  
 7 A. That is correct.  
 8 CHAYTOR, Q.C.:  
 9 Q. How important are pipettes to what you do, how  
 10 important is that to your job?  
 11 MS. WEGRYNOWSKI:  
 12 A. The pipettes are a critical tool to what we do  
 13 in immunohistochemistry. When you're using  
 14 concentrated primary antibodies, you need to  
 15 guard against the accuracy of the dilution of  
 16 which you validate it to. So without those  
 17 pipettes ever being calibrated, you could  
 18 never be assured that the dilution that you  
 19 had that day was the same as what you had  
 20 validated, nor could you be assured that the  
 21 dilution that you did today would be the same  
 22 as tomorrow.  
 23 CHAYTOR, Q.C.:  
 24 Q. And what are the potential consequences to,  
 25 for example, an ER/PR test?

Page 7

1 MS. WEGRYNOWSKI:  
 2 A. To any test if you were to make a dilution and  
 3 it did not draw enough of the primary  
 4 antibody, you would be under diluting, you  
 5 would have a lower concentration.  
 6 CHAYTOR, Q.C.:  
 7 Q. Okay. And in terms then of the outcome of the  
 8 test, how would that be affected?  
 9 MS. WEGRYNOWSKI:  
 10 A. You would have a weaker response signal.  
 11 CHAYTOR, Q.C.:  
 12 Q. And No. 14 then you refer again to the digital  
 13 temperature readings "do not suffice and  
 14 thermometer readings are to be recorded" and  
 15 that had been brought up in your first  
 16 assessment, you note. And "The refrigerator  
 17 which contains all the antibodies and  
 18 detection system does not have a thermometer  
 19 in it for daily readings." And you note that  
 20 that had also been brought up the first time  
 21 around?  
 22 MS. WEGRYNOWSKI:  
 23 A. Correct.  
 24 CHAYTOR, Q.C.:  
 25 Q. You note that "The refrigerator containing the

Page 8

1 antibodies and detection systems is not on an  
 2 alarm. An alarm system should be considered."  
 3 MS. WEGRYNOWSKI:  
 4 A. Correct.  
 5 CHAYTOR, Q.C.:  
 6 Q. Okay. Now, there was a refrigerator that you  
 7 indicated yesterday that was alarmed?  
 8 MS. WEGRYNOWSKI:  
 9 A. Correct. Upon reflection of that I have to--I  
 10 think what I was thinking when I wrote this is  
 11 that the alarm system is a little bit more  
 12 than just being on or off, that it would alarm  
 13 in case the temperature, going without a  
 14 standard set. So if you wanted it to sit  
 15 between four and eight degrees, it should  
 16 notify the user.  
 17 CHAYTOR, Q.C.:  
 18 Q. Okay. And the documented evaluation, No. 15,  
 19 "Documented evaluation performed to ensure the  
 20 sensitivity and specificity of all tests has  
 21 been commenced. The validation documentation  
 22 must be stringent." And you go on to note,  
 23 "The procedure manual should contain the  
 24 processes that are in place to ensure that all  
 25 reagents used are appropriately controlled.

Page 9

1 Parallel testing of old versus new reagents is  
 2 acceptable."  
 3 MS. WEGRYNOWSKI:  
 4 A. Correct.  
 5 CHAYTOR, Q.C.:  
 6 Q. And you indicate that "Alternate protocols  
 7 should be included in the procedure manual."  
 8 And "The pH is now verified with all pH  
 9 dependent reagents." So that had been a  
 10 recommendation?  
 11 MS. WEGRYNOWSKI:  
 12 A. Yes, they had done that.  
 13 CHAYTOR, Q.C.:  
 14 Q. Okay. "There must also be a process in place  
 15 in procedure manual for those instances where  
 16 the pH is outside the acceptable limits."  
 17 Regarding "New equipment, instrument selection  
 18 criteria to be documented." You indicate that  
 19 "No evidence of a new equipment selection  
 20 criteria document was provided" despite your  
 21 previous recommendation. And again, you talk  
 22 about evidence needed of training and  
 23 competency of the staff and competency and  
 24 training on the Ventana benchmark has been  
 25 completed at that point?

Page 10

1 MS. WEGRYNOWSKI:  
 2 A. Yes.  
 3 CHAYTOR, Q.C.:  
 4 Q. And No. 17 regards the corrective action log,  
 5 which we discussed yesterday.  
 6 MS. WEGRYNOWSKI:  
 7 A. Um-hm.  
 8 CHAYTOR, Q.C.:  
 9 Q. To be maintained, to record all issues and  
 10 concerns. And finally, 18 is "A policy must  
 11 be established relating to the non-specific  
 12 false positive staining associated with  
 13 staining from endogenous biotin. This is  
 14 critical." And "Testing which requires  
 15 pretreatments and heat-induced epitope  
 16 retrieval should be routinely blocked with  
 17 avidin and biotin to avoid this issue." With  
 18 respect to the issues that had been identified  
 19 in your first assessment such as, for example,  
 20 the pipette calibration, which I'm gathering  
 21 from you is an important issue, was there any  
 22 indication given to you as to why six months  
 23 later those things had not yet been  
 24 implemented?  
 25 MS. WEGRYNOWSKI:

Page 11

1 A. No.  
 2 CHAYTOR, Q.C.:  
 3 Q. If we continue on then, please, at page 14  
 4 again deals with immunofluorescent staining.  
 5 And then at page--and I shouldn't skip that,  
 6 if there's anything there that you wanted to  
 7 point out?  
 8 MS. WEGRYNOWSKI:  
 9 A. Just I was surprised that none of this had  
 10 been implemented.  
 11 CHAYTOR, Q.C.:  
 12 Q. So it's still the same recommendations that  
 13 you had put forward six months prior?  
 14 MS. WEGRYNOWSKI:  
 15 A. Yes. They still were not using controls.  
 16 CHAYTOR, Q.C.:  
 17 Q. Okay. And you indicate, "Cover slipping of  
 18 the slides is performed in a lit environment."  
 19 MS. WEGRYNOWSKI:  
 20 A. Yes. And then on page 15 of the exhibit is  
 21 the discussion again regarding the controls.  
 22 And "Negative controls are still not used" as  
 23 suggested in your original recommendations.  
 24 Was there any explanation give as to why that  
 25 was the case?

Page 12

1 MS. WEGRYNOWSKI:  
 2 A. No.  
 3 CHAYTOR, Q.C.:  
 4 Q. "Daily assessment of the external positive  
 5 controls and documentation are not performed  
 6 in the immunohistochemistry laboratory.  
 7 Without assessing the controls internal daily  
 8 troubleshooting of the procedure is no  
 9 occurring in the immunohistochemistry  
 10 laboratory." And of course, that's something,  
 11 as well, that you had brought up in your prior  
 12 assessment. Was there any indication given as  
 13 to why that was not yet happening?  
 14 MS. WEGRYNOWSKI:  
 15 A. No. I think they were, if I'm not mistaken, I  
 16 have a section written below that a multi-  
 17 header has been purchased and had not arrived  
 18 yet, so that would be the tool that they would  
 19 use to enable them to learn and assess.  
 20 CHAYTOR, Q.C.:  
 21 Q. So they didn't yet have the microscope that  
 22 they -  
 23 MS. WEGRYNOWSKI:  
 24 A. Correct.  
 25 CHAYTOR, Q.C.:

Page 13

1 Q. - would need to be able to learn to do this?  
 2 MS. WEGRYNOWSKI:  
 3 A. As a group, yes.  
 4 CHAYTOR, Q.C.:  
 5 Q. Okay. And then No. 22 of your recommendations  
 6 speaks again about the negative controls to be  
 7 assessed, "should be assessed by the  
 8 registered technologist prior to the slides  
 9 leaving the laboratory." And again, that  
 10 hadn't been addressed since your first  
 11 assessment?  
 12 MS. WEGRYNOWSKI:  
 13 A. No.  
 14 CHAYTOR, Q.C.:  
 15 Q. "The negative tissue control blocks to be run  
 16 for every antibody. A multi-tissue or sausage  
 17 block will serve this purpose." What do you  
 18 mean by "sausage block"?  
 19 MS. WEGRYNOWSKI:  
 20 A. It's not unusual to take a block comprised of  
 21 different body tissue types, liver, spleen,  
 22 tonsil, just to get just a composition of  
 23 different tissues so that when you're running  
 24 it against your control block when you're  
 25 first validating it, that you know it's

Page 14

1 negative, that it's not staining anything that  
 2 you were not expecting.  
 3 CHAYTOR, Q.C.:  
 4 Q. Okay. And then No. 24, "Immunohistochemistry  
 5 registered technologist to be trained to  
 6 assess the quality of the external positive  
 7 and negative patient controls tested daily."  
 8 And "Signed documentation of this must be  
 9 retained." And again, I take it then they  
 10 were waiting on the microscope in order to be  
 11 able to start to -  
 12 MS. WEGRYNOWSKI:  
 13 A. I believe so.  
 14 CHAYTOR, Q.C.:  
 15 Q. - learn how to do that? "The pathology  
 16 laboratory" No. 25, "is intending to change  
 17 their processing equipment." And this is the  
 18 issue about the X-press tissue processor that  
 19 we discussed yesterday?  
 20 MS. WEGRYNOWSKI:  
 21 A. Yes.  
 22 CHAYTOR, Q.C.:  
 23 Q. And the importance of making sure your  
 24 controls, you're comparing control tissue to  
 25 tissue that has been handled in the same

Page 15

1 manner as the patient tissue?  
 2 MS. WEGRYNOWSKI:  
 3 A. Correct.  
 4 CHAYTOR, Q.C.:  
 5 Q. Okay. And on the fourth section of your  
 6 report you talk again about the surgical  
 7 reports and those three recommendations, 26,  
 8 27 and 28 were all at your--they were all part  
 9 of your previous report?  
 10 MS. WEGRYNOWSKI:  
 11 A. Correct.  
 12 CHAYTOR, Q.C.:  
 13 Q. And they had yet to be implemented. No. 28  
 14 here, the "Results regarding  
 15 immunohistochemistry testing providing  
 16 predictive/prognostic information must include  
 17 information in the surgical report regarding  
 18 the specimen processing, antibody clone and  
 19 the scoring method used." I take it that  
 20 would be the pathologists would record that  
 21 information?  
 22 MS. WEGRYNOWSKI:  
 23 A. Correct.  
 24 CHAYTOR, Q.C.:  
 25 Q. Was there any reason give or explanation as to

Page 16

1 why moving towards the standardized template  
 2 of reporting had yet to take place?  
 3 MS. WEGRYNOWSKI:  
 4 A. I think the pathologists were having some  
 5 discussions surrounding that.  
 6 CHAYTOR, Q.C.:  
 7 Q. And what did you understand that to mean,  
 8 discussions?  
 9 MS. WEGRYNOWSKI:  
 10 A. They were trying to determine what terminology  
 11 they were going to use for their headers.  
 12 Other than that, I don't know.  
 13 CHAYTOR, Q.C.:  
 14 Q. Okay. And then under "Quality Assurance" part  
 15 5 you note that "Great improvements have been  
 16 made in this area." And you note that they've  
 17 become involved in the external quality  
 18 assurance programs with both College of  
 19 American Pathologists and the UK NEQAS  
 20 program. And I take it you were pleased to  
 21 see that?  
 22 MS. WEGRYNOWSKI:  
 23 A. Yes.  
 24 CHAYTOR, Q.C.:  
 25 Q. And you write that "Senior administration has

Page 17

1 given approval and support for a total quality  
 2 management program." So in addition to that  
 3 there was to be a quality management program  
 4 had been approved and was getting support from  
 5 senior management. And "The quality  
 6 management system will encompass all processes  
 7 relating to quality assurance with a major  
 8 focus of continual improvement." And you  
 9 indicate "There must be standards of  
 10 performance. A goal of the program is to  
 11 provide a system which is as failure resistant  
 12 as possible." And "The quality management  
 13 program for the laboratory will have  
 14 representation for both technical and  
 15 professional staff. A fulltime equivalent  
 16 registered technologist has been assigned to  
 17 this position." And I take it that was -  
 18 MS. WEGRYNOWSKI:  
 19 A. Catherine Parnell.  
 20 CHAYTOR, Q.C.:  
 21 Q. Yes. And you spoke with Ms. Parnell?  
 22 MS. WEGRYNOWSKI:  
 23 A. Yes.  
 24 CHAYTOR, Q.C.:  
 25 Q. Okay. And then you had a number of

Page 18

1 recommendations flowing from that, including  
 2 No. 29, "The quality management initiative by  
 3 the Eastern Regional Integrated Health  
 4 Authority be shared with the other regions of  
 5 Newfoundland to ensure best medicines  
 6 practices." And you had mentioned something  
 7 along those lines, too, in your last report?  
 8 MS. WEGRYNOWSKI:  
 9 A. Yes, I did.  
 10 CHAYTOR, Q.C.:  
 11 Q. Months prior. Why is that important, why is  
 12 it important that that be shared with the  
 13 other regions?  
 14 MS. WEGRYNOWSKI:  
 15 A. One of--if I understood correctly how the work  
 16 was coming into Eastern Health and how it was  
 17 authority for a particular portion of the  
 18 province, I felt that it was important that  
 19 everyone handle their tissues the same way and  
 20 they have the same control management system,  
 21 that it would guard against error, it would  
 22 assist them in that. It's like being on the  
 23 same page.  
 24 CHAYTOR, Q.C.:  
 25 Q. And you go on to say "The quality management

Page 19

1 team should be involved in the quality  
 2 improvement activities within the organization  
 3 and with the user physicians." Can you just  
 4 explain what that means?  
 5 MS. WEGRYNOWSKI:  
 6 A. That you don't work in isolation, that you're  
 7 part of a team.  
 8 CHAYTOR, Q.C.:  
 9 Q. Okay. And No. 30 says, "The laboratory is to  
 10 establish quality indicators to monitor the  
 11 laboratory's contribution to patient care."  
 12 What would you be contemplating in terms of  
 13 quality indicators in that context?  
 14 MS. WEGRYNOWSKI:  
 15 A. If I could just, their benchmarking tools.  
 16 For example, if we go back to fixation, we  
 17 would then start tracking what are the number  
 18 of reprocessing, what are the issues that are  
 19 coined in where are the problems that we're  
 20 having so that you benchmark, you see what the  
 21 numbers are and you try to narrow the gap.  
 22 CHAYTOR, Q.C.:  
 23 Q. Okay. And again you speak of, "For a  
 24 successful quality management team, the  
 25 laboratory management shall ensure that

Page 20

1 opportunities identified for improvement are  
 2 dealt with." And what did you have in mind  
 3 there?  
 4 MS. WEGRYNOWSKI:  
 5 A. That once a benchmark or once something is  
 6 identified that there are processes in place  
 7 to correct them.  
 8 CHAYTOR, Q.C.:  
 9 Q. And the "Corrective action logs should be  
 10 assessed from each area and include an  
 11 investigation to determine the underlying root  
 12 causes. The results of the corrective action  
 13 should be monitored to ensure they were  
 14 effective in solving the original problem.  
 15 Trends may also be identified which will aid  
 16 in the development of policies and/or  
 17 procedures." Can you just explain what you're  
 18 referring to here and what kind of  
 19 investigation would you contemplate to  
 20 determine underlying root causes?  
 21 MS. WEGRYNOWSKI:  
 22 A. Okay. If I could just give you a very simple  
 23 one. If you receive specimens to the  
 24 laboratory and they're from a particular unit  
 25 and you find consistently that there's patient

Page 21

1 information missing, it's that sort of  
 2 information that you can compile because there  
 3 needs to be then a learning tool to that  
 4 particular unit. So by tracking that  
 5 information then you could go back to them and  
 6 say, this is what we're finding and this is  
 7 what we need and this is why we need it, how  
 8 can we work together to ensure that this is  
 9 completed. And then you would then continue  
 10 tracking to ensure that there's--it's been  
 11 corrected.  
 12 CHAYTOR, Q.C.:  
 13 Q. Okay. And in this situation we understand and  
 14 blocks were sent up to Mount Sinai from  
 15 Newfoundland in the retesting process, that  
 16 the blocks that were sent were the original  
 17 blocks processed here in Newfoundland and then  
 18 forwarded to Mount Sinai and Mount Sinai  
 19 produced their own slides, and ultimately, as  
 20 I'm sure you're aware, there were a number of  
 21 conversions. What, from a technical point of  
 22 view could be the cause of those conversions?  
 23 MS. WEGRYNOWSKI:  
 24 A. The way that the protocols and procedures that  
 25 were in place at Eastern Health at the time

Page 22

1 they were using the DAKO autostainer were very  
 2 different than what we use presently at Mount  
 3 Sinai. They had validated their antibody--  
 4 they were using their antibody with a  
 5 pretreatment with the steam method and at  
 6 Mount Sinai we do not use that particular  
 7 method. We use a method to expose the epitope  
 8 which is on a microwave and it's not like a  
 9 home-based microwave. We use a particular  
 10 piece of equipment that is NIST traceable, so  
 11 again, the National Institute of Standardized  
 12 Technology has this equipment where we can  
 13 monitor the time at temperature so that we can  
 14 guard against any irregularities, we can  
 15 ensure that every single slide is treated at  
 16 the same time at the same temperature, and I  
 17 believe that was a crucial part of it. Our  
 18 pipettes are guarded against, so we can  
 19 guarantee that our dilutions are the same  
 20 every day. And I'm not sure of what the  
 21 detection system was for sensitivity at  
 22 Eastern Health, but those I would think are  
 23 reasonable parameters for change.  
 24 CHAYTOR, Q.C.:  
 25 Q. Okay. And then your report ends with a

Page 23

1 conclusion which basically, I believe, is a  
 2 summary of everything that I've taken you  
 3 through in terms of your recommendations,  
 4 unless there's something in there that you  
 5 would like to point out or emphasize? I'll  
 6 just ask you to have a quick review of that?  
 7 MS. WEGRYNOWSKI:  
 8 A. No, I think it's a summation. I think it's  
 9 just to bear in mind that the second paragraph  
 10 on the last page, which reads "the stringency  
 11 required to ensure the reproducibility of all  
 12 immunohistochemistry testing is paramount. No  
 13 antibody should be used on patients until  
 14 after documented validation is completed," is  
 15 probably one of the strongest paragraphs I  
 16 wrote.  
 17 CHAYTOR, Q.C.:  
 18 Q. That probably sums it all, from your  
 19 perspective?  
 20 MS. WEGRYNOWSKI:  
 21 A. I believe so.  
 22 CHAYTOR, Q.C.:  
 23 Q. So Ms. Wegrynowski, if we could have P-1757,  
 24 please, Registrar? And this was the document  
 25 I took you to yesterday which you believe to

Page 24

1 be the spreadsheet that you were provided  
 2 before you came for your visit, the March  
 3 10th, 2006 spreadsheet, which had 30  
 4 recommendations on it from yourself or Dr.  
 5 Banerjee and two--actually 28 of those and two  
 6 at the bottom appear to be Dr. Cook and  
 7 internal, so 28 from yourself and/or Dr.  
 8 Banerjee, and if we could have then, please,  
 9 P-0277? That was as of March 10th 2006.  
 10 MS. WEGRYNOWSKI:  
 11 A. Okay.  
 12 CHAYTOR, Q.C.:  
 13 Q. And you were here the end of March 2006, and  
 14 this was the document that I meant to bring  
 15 your attention to yesterday, after you left,  
 16 after you left Eastern Health. I brought up  
 17 the 2007 document, but this is actually  
 18 updated April 25th, 2006.  
 19 MS. WEGRYNOWSKI:  
 20 A. Okay.  
 21 CHAYTOR, Q.C.:  
 22 Q. So this is the updated document, within a  
 23 month or three weeks of your visit again, and  
 24 this one is up to 30 recommendations here.  
 25 I'm sorry, up to--and then we have June 30th,

Page 25

1 2006, and you'll see, at that point in time,  
 2 the recommendations are then up to 52. So by  
 3 June of 2006 and all of those recommendations  
 4 are attributed to yourself and/or Dr.  
 5 Banerjee. So certainly on the spreadsheet,  
 6 the number of recommendations, some of which  
 7 were no doubt from your initial assessment,  
 8 but not recorded on the first spreadsheet.  
 9 MS. WEGRYNOWSKI:  
 10 A. Okay.  
 11 CHAYTOR, Q.C.:  
 12 Q. But by June 2006, it appears that any new  
 13 recommendations that you came up with, as well  
 14 as all your original, appear to now be on the  
 15 spreadsheet.  
 16 MS. WEGRYNOWSKI:  
 17 A. Okay.  
 18 CHAYTOR, Q.C.:  
 19 Q. And if we could go back for a moment, please,  
 20 to--I'm sorry, if there's anything there that  
 21 you wanted to -  
 22 MS. WEGRYNOWSKI:  
 23 A. May I just -  
 24 CHAYTOR, Q.C.:  
 25 Q. Sure, take your time.

Page 26

1 MS. WEGRYNOWSKI:  
 2 A. When did you say this was written?  
 3 CHAYTOR, Q.C.:  
 4 Q. This one is indicated to be updated June, this  
 5 particular version is June 30th, 2006. You  
 6 see the date here in the top.  
 7 MS. WEGRYNOWSKI:  
 8 A. Okay, right.  
 9 CHAYTOR, Q.C.:  
 10 Q. Okay, and we get the current status, what's in  
 11 progress or completed in this column and  
 12 expected completion date in this column.  
 13 MS. WEGRYNOWSKI:  
 14 A. What does number 40 mean, when you're talking  
 15 about pipette accuracy and calibration, that  
 16 it's in progress? Why would it not be  
 17 completed and ongoing?  
 18 CHAYTOR, Q.C.:  
 19 Q. And this is in--so that's as of June 2006,  
 20 yes, okay, and I certainly don't know the  
 21 answer, but I can appreciate you asking the  
 22 question. If we could go back, please, to P-  
 23 0048? And you indicate here, "the stringency  
 24 required to ensure the reproducibility of all  
 25 immunohistochemistry testing is paramount. No

Page 27

1 antibody should be used on patients until  
 2 after documented validation is completed." In  
 3 late March 2006, when you were in St. John's,  
 4 was there any such documented validation?  
 5 MS. WEGRYNOWSKI:  
 6 A. Not on every antibody. I believe it was in  
 7 progress. That would be earlier in the  
 8 report, I believe.  
 9 CHAYTOR, Q.C.:  
 10 Q. Overall then, from your perspective, Ms.  
 11 Wegrynowski, as of the time of your second  
 12 review at the end of March 2006, how much  
 13 progress had been made?  
 14 MS. WEGRYNOWSKI:  
 15 A. They had begun to look at the process. The  
 16 procedure manuals were nowhere near where I  
 17 thought they might have been. Some of the  
 18 basics, I felt were still missing,  
 19 refrigerators, pipettes. They had a long,  
 20 long way to go. They had started on the  
 21 external quality assurance programs, but in my  
 22 humble opinion, if you don't start at the  
 23 bottom, you can only take the top up so far.  
 24 CHAYTOR, Q.C.:  
 25 Q. And if we could look, please, at P-0314, page

Page 28

1 three? This is not a document I would expect  
 2 you to be familiar with. It's a question and  
 3 answer briefing note.  
 4 MS. WEGRYNOWSKI:  
 5 A. Okay.  
 6 CHAYTOR, Q.C.:  
 7 Q. It's a Government document, and it's dated May  
 8 2nd 2006, and what we understand is that this  
 9 is what's prepared to provide information, for  
 10 example, to the Minister and question and  
 11 answer briefing notes often for heading into  
 12 the House of Assembly, and this was Minister  
 13 Osborne at the time and it refers to, under  
 14 key messages, the third bullet, "a quality  
 15 review began immediately when the problem was  
 16 discovered. Eastern Health has had the method  
 17 of testing for ER/PR receptors reviewed by  
 18 external consultants," and we understand that  
 19 to be certainly yourself and Dr. Banerjee.  
 20 "Their recommendations have been implemented  
 21 and the consultants returned to Eastern Health  
 22 in early April to assess" and it says "of  
 23 progress."  
 24 MS. WEGRYNOWSKI:  
 25 A. Okay.

Page 29

1 CHAYTOR, Q.C.:

2 Q. "Eastern Health expects to begin testing of

3 new patients in St. John's once the

4 consultants' final report has been received

5 and reviewed, likely in late May" and the idea

6 of "their recommendations being implemented

7 and consultants returned in early April to

8 assess progress," and we understand it was

9 late April that Dr. Banerjee was in and you

10 were in in late March, and this is underlined

11 and a note made over here and there's been

12 evidence that this is from Minister Osborne,

13 and he recorded that he was told that the

14 consultants were very pleased with the

15 progress/results.

16 In terms of what you've personally, your

17 opinion as to the progress of the results,

18 would it be fair to say that you were very

19 pleased with the progress and the results,

20 upon your second visit?

21 MS. WEGRYNOWSKI:

22 A. I think the word "very" is an overstatement.

23 I think they had made some start. You would

24 have to speak to the person that gave Minister

25 Osborne that information.

Page 30

1 CHAYTOR, Q.C.:

2 Q. Yes. I'm just wondering though how that--if

3 that is being reported as your assessment or

4 that you were--your opinion is that you were

5 very pleased, what is your response to that?

6 MS. WEGRYNOWSKI:

7 A. I did not get a sense from my report that I

8 was very pleased.

9 CHAYTOR, Q.C.:

10 Q. So Ms. Wegrynowski, you sent your report on in

11 May of 2006. Did you receive any feedback

12 from that report?

13 MS. WEGRYNOWSKI:

14 A. No, just a letter.

15 CHAYTOR, Q.C.:

16 Q. And the letter thanking you, I take it, for

17 your services?

18 MS. WEGRYNOWSKI:

19 A. Correct.

20 CHAYTOR, Q.C.:

21 Q. Did anyone ever discuss with you the

22 possibility of coming here to do a seminar or

23 a discussion on quality assurance?

24 MS. WEGRYNOWSKI:

25 A. They had spoken to me briefly at my meeting

Page 31

1 with the pathologists, that they were looking

2 at doing a day with QA and whatever lectures

3 and asked me if I'd be interested in

4 participating in that, but I never heard

5 anything back.

6 CHAYTOR, Q.C.:

7 Q. Okay. You said that in your exit interview, I

8 believe, with Dr. Williams, he asked you some

9 questions about the difference between CAP and

10 UK NEQAS?

11 MS. WEGRYNOWSKI:

12 A. Yes.

13 CHAYTOR, Q.C.:

14 Q. What are the differences between those two

15 programs?

16 MS. WEGRYNOWSKI:

17 A. Okay. The College of American Pathologists

18 for immunohistochemistry, what happens is that

19 you will receive your survey, they will send

20 you the slides. They will tell you what

21 markers they would like you to stain. You

22 provide them with the information of what

23 clone you're using and the manufacturer. You

24 stain the slides with your own in-house

25 controls and your negative controls, and the

Page 32

1 pathologists will then read them. It is set

2 up so that the pathologist has--they're able

3 to select from a list what the responses would

4 be, whether it's one plus, two plus, three

5 plus or whatever it is. They are given a very

6 short history of the patient, and at the end,

7 there are different diagnosis and they select

8 what that is. The slides are retained in the

9 laboratory and the paperwork is then sent off

10 to CAP. They then which compile it and then

11 you're rated against your peers. How many

12 came up with this for a response signal? How

13 many came up with this for a diagnosis? And

14 that's--and then you also know who's using

15 what clone in the marketplace. So it can be

16 used in a variety of ways.

17 With the UK NEQAS, it's a little bit

18 different. They send you the slides. You

19 then stain the slides in-house. You provide

20 them with your protocols. You then evaluate

21 the slides with your pathologist, so you

22 provide a technical mark and the pathologist

23 provides a mark as well. You send it off to

24 them and then they return the paperwork and

25 slides to you and with their mark by four



Page 33

1 assessors.  
 2 CHAYTOR, Q.C.:  
 3 Q. And you compare then yours to theirs?  
 4 MS. WEGRYNOWSKI:  
 5 A. Yes.  
 6 CHAYTOR, Q.C.:  
 7 Q. And is there any particular benefit to one  
 8 program as opposed to the other?  
 9 MS. WEGRYNOWSKI:  
 10 A. They both have their own pros and cons.  
 11 CHAYTOR, Q.C.:  
 12 Q. And I take it in some respects, they  
 13 complement one another?  
 14 MS. WEGRYNOWSKI:  
 15 A. Yes.  
 16 CHAYTOR, Q.C.:  
 17 Q. I'd just like to explore with you a little bit  
 18 about the training of technologists for IHC,  
 19 and you indicated that when you were trained,  
 20 that it was not part of the--the actual IHC  
 21 was not part of your training at that point in  
 22 time. Is it currently part of the curriculum  
 23 for technologists?  
 24 MS. WEGRYNOWSKI:  
 25 A. No, it is not, unfortunately.

Page 34

1 CHAYTOR, Q.C.:  
 2 Q. Okay, and so then bringing a technologist into  
 3 your IHC lab at Mount Sinai, how is that  
 4 person trained to do their job?  
 5 MS. WEGRYNOWSKI:  
 6 A. We start off at the ground. The microtomy  
 7 that is used in IHC is very different than  
 8 what you would use in the routine histology  
 9 laboratory. One of the reasons are that the  
 10 block has already been given an HNE. So you  
 11 want to ensure that the tissue is never  
 12 removed. You don't want to lose any of the  
 13 tumor tissue. So the way that we even perform  
 14 the microtomy is very different.  
 15 Going forward from that, the way we  
 16 handle our slides are different. Some slides  
 17 are heated. Some slides are kept in the cold.  
 18 So there's different parameters with that that  
 19 they need to learn. We do it on a very, very  
 20 slow basis. It's rather overwhelming to say  
 21 to someone, here, just sit and do this. One  
 22 of the things they must always do is they must  
 23 read our standard operating procedures and our  
 24 manual. They learn from the very beginning  
 25 that when inventory comes in, how they are to

Page 35

1 handle it. It's all the lot information. It  
 2 sounds rather dry, but it's done in a very,  
 3 very systematic order.  
 4 Once the technologist is comfortable with  
 5 the microtomy, and it's not just the  
 6 microtomy, they're learning and they're  
 7 understanding. It's a different nomenclature.  
 8 The names that I used today probably don't  
 9 make much sense to many people. If you can  
 10 imagine if you have 300 different antibodies  
 11 that they sound so alien. So it's an  
 12 opportunity for a technologist to start  
 13 understanding the verbiage that we use and how  
 14 we handle them. There are many different pre-  
 15 treatments associated with the antibodies and  
 16 that becomes all marked on the slides for  
 17 them. So they start understanding a little  
 18 bit about the work flow. They are always  
 19 given the opportunity to review the antibody  
 20 specification sheets and all validation slides  
 21 that are held with them. All the slides that  
 22 we are presently using now for validation are  
 23 all marked with the validation date and the  
 24 lot number down the slide and they are always  
 25 kept by our microscope. Even when reviewing

Page 36

1 positive control ourselves, we go back and we  
 2 look at them. We don't--people don't use  
 3 antibodies every single day. Some are very  
 4 specialized, and if we ourselves are not sure,  
 5 we're more than happy to include them and give  
 6 them to the pathologist, who will get back to  
 7 us, and we can view them again at the multi-  
 8 header at a later date.  
 9 So that's just part--just of that  
 10 portion, and then the technologist would start  
 11 moving on to what we call the sort and  
 12 handling desk, which is if you have 400 slides  
 13 looking at you, you have to find a way to put  
 14 them in some semblance of order and that is  
 15 based very much on the pre-treatment and the  
 16 detection system that we use. So that when we  
 17 set up for a day's run, when our machines are  
 18 only holding 50, how do you accommodate four  
 19 or five hundred slides a day in a very  
 20 streamlined fashion and provide a turnaround  
 21 time that is expected from your department?  
 22 At that point, again, there is the review  
 23 of the slides. There is the review of the  
 24 controls and no one is ever left alone to do a  
 25 task. From there, we move on to start

Page 37

1 bringing people in and they will start setting  
 2 up in the morning. So it's at that point,  
 3 they start learning about the pre-treatments,  
 4 how we do the pre-treatments, how do we ensure  
 5 that the consistency of the pre-treatments.  
 6 But all the way along, they're learning,  
 7 they're making up the buffers. So they're  
 8 pHing the buffers. They're becoming part of  
 9 the integral part of the department. They  
 10 recognize--many of them will start--actually I  
 11 should backtrack.  
 12 Many of them will start with very simple  
 13 techniques, which is a kidney biopsy. It  
 14 comes in, it's cut on a microtome--a  
 15 cryostatic, excuse me, so it's frozen. It's a  
 16 one-step immunohistochemistry technique. So  
 17 you put on that antibody. They learned how to  
 18 dilute the antibody. They learn to work  
 19 within the dark and they learn how to take it  
 20 forward. Keep it in the fridge, sign it up to  
 21 the pathologist. So very rudimentary steps  
 22 there introduced.  
 23 And from there, in a very slow, organized  
 24 fashion, then we move on to being able to work  
 25 on the equipment, understanding the equipment,

Page 38

1 what the alarms mean, if there's a problem  
 2 with set up, how do we change drops, and that  
 3 is gone over in a very slow fashion. From  
 4 there, we'll start working on getting the  
 5 slides out and then sitting down together and  
 6 finally reading the controls together.  
 7 CHAYTOR, Q.C.:  
 8 Q. Ms. Wegrynowski, how long does all take? How  
 9 long a process is it before that technologist  
 10 is then actually left on their own to do their  
 11 job in the IHC lab?  
 12 MS. WEGRYNOWSKI:  
 13 A. About a year into it.  
 14 CHAYTOR, Q.C.:  
 15 Q. I'm sorry?  
 16 MS. WEGRYNOWSKI:  
 17 A. About a year.  
 18 CHAYTOR, Q.C.:  
 19 Q. About a year before they're left to do their  
 20 job on their own?  
 21 MS. WEGRYNOWSKI:  
 22 A. Depending on what part it is. Some parts,  
 23 you're certainly comfortable with in six  
 24 months, but we're talking the full gamete, I  
 25 would say easily a year, and even then, it's

Page 39

1 not unusual to come in in the morning and say  
 2 "I didn't hand this out because I'm not quite  
 3 sure," and we'll go over that together.  
 4 CHAYTOR, Q.C.:  
 5 Q. And if that, if it's a technologist who  
 6 otherwise had years of training in other parts  
 7 of the pathology lab, would that time period  
 8 be abbreviated?  
 9 MS. WEGRYNOWSKI:  
 10 A. Yes, it would be, because my expectations are,  
 11 at that point, that they understand microtomy.  
 12 They would understand the issues with that.  
 13 They would still certainly have to spend time  
 14 on that bench understanding the differences  
 15 between the different antibodies and how the  
 16 slides have to be handled. It would be an  
 17 abbreviated version, but it still wouldn't be--  
 18 it would still be six to nine months. It's  
 19 not routine histology. It's very, very  
 20 different. So we spend a lot of time going  
 21 over troubleshooting issues.  
 22 CHAYTOR, Q.C.:  
 23 Q. Ms. Wegrynowski, if there were to be any  
 24 suggestion that what happened in the lab here  
 25 in St. John's might not be different than

Page 40

1 what's happening in other labs across the  
 2 nation, that this in fact could be a national  
 3 issue because of the test being finicky or  
 4 probabilistic, based on your review of the lab  
 5 in St. John's, do you agree with that  
 6 assessment or suggestion?  
 7 MS. WEGRYNOWSKI:  
 8 A. The word "finicky" no. Capricious perhaps. If  
 9 it is done in a very stringent manner and you  
 10 have all guards against it, then I'm not sure  
 11 I agree with that comment.  
 12 CHAYTOR, Q.C.:  
 13 Q. Just have a general question for you, in terms  
 14 of a process that we heard at least in mid to  
 15 late January of this year, and I'm not sure  
 16 that this process is still being carried out,  
 17 but I would just ask whether or not there's  
 18 any concerns regarding this. There's some  
 19 suggestion that when the ER/PR tests resumed  
 20 here in St. John's that all the breast tissue  
 21 was being grossed at St. Clare's Hospital. So  
 22 if the breast surgery occurred at the Health  
 23 Sciences -  
 24 MS. WEGRYNOWSKI:  
 25 A. Yes.

Page 41	Page 43
<p>1 CHAYTOR, Q.C.:</p> <p>2 Q. - the specimen would be placed in formalin in</p> <p>3 the OR, sent down to the lab, before it then</p> <p>4 gets transferred over to St. Clare's to have--</p> <p>5 to be grossed, the formalin was drained off</p> <p>6 the specimen, packed in a bag, sealed in a</p> <p>7 container and sent over, that could take</p> <p>8 anywhere from half hour to forty-five minutes.</p> <p>9 The specimen then is grossed at St. Clare's,</p> <p>10 the block sent back--block produced, block</p> <p>11 sent back to Health Science, the slides are</p> <p>12 made there and stained, then the slides were</p> <p>13 sent back to St. Clare's to be interpreted by</p> <p>14 the two pathologists over there. Could you</p> <p>15 provide any comment on, please, whether or not</p> <p>16 you have any concerns about that as a process.</p> <p>17 MS. WEGRYNOWSKI:</p> <p>18 A. I think you lost me halfway through.</p> <p>19 CHAYTOR, Q.C.:</p> <p>20 Q. I'm sorry.</p> <p>21 MS. WEGRYNOWSKI:</p> <p>22 A. Sorry.</p> <p>23 CHAYTOR, Q.C.:</p> <p>24 Q. Okay, well it's a good thing I have notes,</p> <p>25 I'll try again. Okay, so the surgery taking</p>	<p>1 that of any concern?</p> <p>2 MS. WEGRYNOWSKI:</p> <p>3 A. I'm not familiar with that procedure.</p> <p>4 CHAYTOR, Q.C.:</p> <p>5 Q. Have you ever heard of that happening?</p> <p>6 MS. WEGRYNOWSKI:</p> <p>7 A. No.</p> <p>8 CHAYTOR, Q.C.:</p> <p>9 Q. And the specimen is then--the blocks are then</p> <p>10 sent back to the Health Science and the slides</p> <p>11 made and then the slides sent back. You</p> <p>12 indicated that Mount Sinai does this testing</p> <p>13 for other centres?</p> <p>14 MS. WEGRYNOWSKI:</p> <p>15 A. Yes, we do.</p> <p>16 CHAYTOR, Q.C.:</p> <p>17 Q. And in terms of receiving the samples into</p> <p>18 Mount Sinai, I take it the specimen doesn't</p> <p>19 come in a bag without formalin?</p> <p>20 MS. WEGRYNOWSKI:</p> <p>21 A. No, and the work that I receive always comes</p> <p>22 in blocks. I wouldn't receive fresh</p> <p>23 specimens.</p> <p>24 CHAYTOR, Q.C.:</p> <p>25 Q. So the blocks are done in the site and then</p>
<p>1 place at--the breast surgery taking place at</p> <p>2 Health Sciences.</p> <p>3 MS. WEGRYNOWSKI:</p> <p>4 A. Yes.</p> <p>5 CHAYTOR, Q.C.:</p> <p>6 Q. Okay, all the grossing is taking place at St.</p> <p>7 Clare's, so the specimen is then sent over to</p> <p>8 St. Clare's to be grossed.</p> <p>9 MS. WEGRYNOWSKI:</p> <p>10 A. Okay.</p> <p>11 CHAYTOR, Q.C.:</p> <p>12 Q. In order for that to happen, the formalin</p> <p>13 being--drained off the breast tissue, packed</p> <p>14 in a bag, sealed in a container, sent across</p> <p>15 town, might take half hour to forty five</p> <p>16 minutes.</p> <p>17 MS. WEGRYNOWSKI:</p> <p>18 A. At what temperature?</p> <p>19 CHAYTOR, Q.C.:</p> <p>20 Q. I don't know, and we understand it was being</p> <p>21 sent by courier.</p> <p>22 MS. WEGRYNOWSKI:</p> <p>23 A. Okay.</p> <p>24 CHAYTOR, Q.C.:</p> <p>25 Q. The idea of the formalin being drained off, is</p>	<p>1 sent on to Mount Sinai and then you make your</p> <p>2 slides?</p> <p>3 MS. WEGRYNOWSKI:</p> <p>4 A. Yes, yes.</p> <p>5 CHAYTOR, Q.C.:</p> <p>6 Q. If we could look at P-0764 please? And this</p> <p>7 is a draft fixation policy and as of the last</p> <p>8 evidence we've had from Eastern Health on it,</p> <p>9 it had not yet been implemented but there's</p> <p>10 certainly a good draft made here and if you</p> <p>11 could just have a look at this document and -</p> <p>12 MS. WEGRYNOWSKI:</p> <p>13 A. Right.</p> <p>14 CHAYTOR, Q.C.:</p> <p>15 Q. - tell me your thoughts and any comments you</p> <p>16 may have on this document?</p> <p>17 MS. WEGRYNOWSKI:</p> <p>18 A. All right. I agree with her overview. Three</p> <p>19 hours is rather short for fixation on a</p> <p>20 biopsy, but if that's--there are no national</p> <p>21 standards on that, but -</p> <p>22 CHAYTOR, Q.C.:</p> <p>23 Q. So the three hours on the biopsy is short, in</p> <p>24 your opinion.</p> <p>25 MS. WEGRYNOWSKI:</p>

Page 45

1 A. But there are no national standards, so - I  
 2 definitely agree with the statement that "if  
 3 the appropriate fixation time is not met, the  
 4 following statement will be attached to the  
 5 final specimen report. Pathology results may  
 6 be adversely affected due to improper tissue  
 7 fixation." I concur. Yes.  
 8 CHAYTOR, Q.C.:  
 9 Q. Okay, so I take it for an SOP, at least for  
 10 the fixation, that this would pretty well  
 11 cover what you had in mind?  
 12 MS. WEGRYNOWSKI:  
 13 A. Yes. They would also have to include in their  
 14 standard operating procedures for when they're  
 15 doing their grossing, what their expectations  
 16 were, is that for handling of the larger  
 17 specimens.  
 18 CHAYTOR, Q.C.:  
 19 Q. Okay, can you give us an example of that?  
 20 MS. WEGRYNOWSKI:  
 21 A. If something came in, what's your expectation  
 22 times, how it was going to be blocked--bread  
 23 loafed, whatever and the whole bit and how  
 24 long it was going to be sitting in formalin  
 25 prior to it being grossed. Because you would

Page 46

1 bread loaf it, if you got a piece of breast,  
 2 you would bread loaf it, you wouldn't  
 3 necessarily make your blocks that day, it  
 4 would then sit in a container and then your  
 5 blocks would be made the following day.  
 6 CHAYTOR, Q.C.:  
 7 Q. Okay, and it does indicate here the date and  
 8 time of fixation must be documented on the  
 9 requisition.  
 10 MS. WEGRYNOWSKI:  
 11 A. Uh-hm.  
 12 CHAYTOR, Q.C.:  
 13 Q. And there are other linkages cross referenced,  
 14 I'm not sure though, we've been through this  
 15 before, whether or not any of them--we have  
 16 breast specimen, needle localization -  
 17 MS. WEGRYNOWSKI:  
 18 A. That may very well then be speaking to what I  
 19 just mentioned.  
 20 CHAYTOR, Q.C.:  
 21 Q. Yeah, not sure of that right now but we can  
 22 certainly have a look at that. Is there  
 23 anything else included in there or not  
 24 included in there that you would like to see  
 25 or is this pretty well--pretty well does it?

Page 47

1 MS. WEGRYNOWSKI:  
 2 A. Yes.  
 3 CHAYTOR, Q.C.:  
 4 Q. So Ms. Wegrynowski, after submitting your  
 5 second report in May of 2006, were you ever  
 6 contacted by Eastern Health for any further  
 7 advice or assistance on this matter?  
 8 MS. WEGRYNOWSKI:  
 9 A. No, I was not.  
 10 CHAYTOR, Q.C.:  
 11 Q. Have you ever had any further contact from  
 12 Eastern Health regarding your two reviews and  
 13 the reports that you produced?  
 14 MS. WEGRYNOWSKI:  
 15 A. I've had two phone calls subsequent to my last  
 16 visit at Eastern Health.  
 17 CHAYTOR, Q.C.:  
 18 Q. And when did those phone calls take place?  
 19 MS. WEGRYNOWSKI:  
 20 A. One was last spring and one was later--one  
 21 followed that, I couldn't give you the dates,  
 22 the exact dates.  
 23 CHAYTOR, Q.C.:  
 24 Q. So spring meaning spring 2007?  
 25 MS. WEGRYNOWSKI:

Page 48

1 A. Yes.  
 2 CHAYTOR, Q.C.:  
 3 Q. And who was that phone call from?  
 4 MS. WEGRYNOWSKI:  
 5 A. That phone call was from Mr. Barry Dyer.  
 6 CHAYTOR, Q.C.:  
 7 Q. And what was the purpose of Mr. Dyer's phone  
 8 call in the spring of 2007?  
 9 MS. WEGRYNOWSKI:  
 10 A. He called to let me know that the Premier  
 11 would be reading my report that afternoon.  
 12 CHAYTOR, Q.C.:  
 13 Q. That the Premier would be reading your report?  
 14 MS. WEGRYNOWSKI:  
 15 A. Yes.  
 16 CHAYTOR, Q.C.:  
 17 Q. Was anything else discussed with Mr. Dyer?  
 18 MS. WEGRYNOWSKI:  
 19 A. I don't recall.  
 20 CHAYTOR, Q.C.:  
 21 Q. What was your reaction to that?  
 22 MS. WEGRYNOWSKI:  
 23 A. Put the phone down and said, "Oh".  
 24 CHAYTOR, Q.C.:  
 25 Q. Okay, if we could look, please, at P-0455?

Page 49

1 And this is e-mail exchanges which start on  
 2 May 23rd, 2007 from Barry Dyer to Terry  
 3 Gulliver. This is within Eastern Health, Ms.  
 4 Wegrynowski, and the importance is indicated,  
 5 there's no subject indicated but importance is  
 6 high. And it's "Hi, Terry! Trish was  
 7 notified on Wednesday, May 23rd at 240  
 8 hours"--so the time and date is recorded.  
 9 "She does not want the report to go public."  
 10 Was there any discussion about your report  
 11 going public?  
 12 MS. WEGRYNOWSKI:  
 13 A. I don't remember that, I think the first  
 14 comment kind of negated anything after that.  
 15 CHAYTOR, Q.C.:  
 16 Q. Then that e-mail gets, the line, as we will,  
 17 from Terry then, Terry Gulliver passes that on  
 18 to Nash Denic. Subject is forwarding the e-  
 19 mail, importance is high. Dr. Denic then  
 20 passes that up the line, same date at 3: 45  
 21 p.m. to Dr. Howell. The subject is T.  
 22 Wegrynowski's report, importance high. "Hi  
 23 Oscar, Trish Wegrynowski, the lab reviewer,  
 24 doesn't want her report to go public." And  
 25 then Dr. Howell passes that, the next day, up

Page 50

1 to the CEO, George Tilley and the subject is  
 2 forward T. Wegrynowski's report, importance  
 3 high. "FYI, for what it's worth, Oscar." So  
 4 is this, May 23rd, is that time consistent  
 5 with your recollection of when you received  
 6 that phone call?  
 7 MS. WEGRYNOWSKI:  
 8 A. I couldn't give you the exact date, but it  
 9 certainly happened in the morning before lunch  
 10 and as far as the report going public, I never  
 11 assumed it would go public because it was a  
 12 peer review and they had told me I was covered  
 13 under the Evidence Act.  
 14 CHAYTOR, Q.C.:  
 15 Q. And what Mr. Dyer indicated to you was that  
 16 the Premier would be reading your report that  
 17 day?  
 18 MS. WEGRYNOWSKI:  
 19 A. That's what I heard.  
 20 CHAYTOR, Q.C.:  
 21 Q. Ms. Wegrynowski, the second phone call you  
 22 received was from whom?  
 23 MS. WEGRYNOWSKI:  
 24 A. Pat Pilgrim.  
 25 CHAYTOR, Q.C.:

Page 51

1 Q. And what was the purpose of Ms. Pilgrim's  
 2 call?  
 3 MS. WEGRYNOWSKI:  
 4 A. To tell me that the report that was written  
 5 under the Evidence Act, that there was  
 6 discussions going on in the legislature about  
 7 that.  
 8 CHAYTOR, Q.C.:  
 9 Q. I'm sorry, discussions?  
 10 MS. WEGRYNOWSKI:  
 11 A. Concerning--from what I recall, concerning how  
 12 this, how my report was being--how the  
 13 Evidence Act was reflected upon my report and  
 14 that seems right.  
 15 CHAYTOR, Q.C.:  
 16 Q. I'm sorry, I didn't mean to cut you off.  
 17 MS. WEGRYNOWSKI:  
 18 A. I said maybe I'm not explaining it correctly,  
 19 I don't know enough about the Evidence Act,  
 20 myself, but I got the sense that what I had  
 21 originally signed up for was the parameters  
 22 were now changing.  
 23 CHAYTOR, Q.C.:  
 24 Q. So at that point in time there was discussion  
 25 that your report may not be protected under

Page 52

1 the Evidence Act any more?  
 2 MS. WEGRYNOWSKI:  
 3 A. Yes.  
 4 CHAYTOR, Q.C.:  
 5 Q. And I take it that phone call happened  
 6 sometime after Mr. Dyer's phone call to you?  
 7 MS. WEGRYNOWSKI:  
 8 A. Yes.  
 9 CHAYTOR, Q.C.:  
 10 Q. Was it a matter of months later, weeks later?  
 11 MS. WEGRYNOWSKI:  
 12 A. I don't have a sense of time on that.  
 13 CHAYTOR, Q.C.:  
 14 Q. Okay. And I take it no further contact after  
 15 that?  
 16 MS. WEGRYNOWSKI:  
 17 A. None.  
 18 CHAYTOR, Q.C.:  
 19 Q. Were you contacted to be advised that your  
 20 reports, that in fact there had been an  
 21 application to the Court and that your  
 22 reports, pursuant to Judge Dymond's decision  
 23 could be used by this Commission. Was there  
 24 any contact made to advise you of that?  
 25 MS. WEGRYNOWSKI:

Page 53

1 A. I only heard from my own in-house people.  
 2 CHAYTOR, Q.C.:

3 Q. Okay. Ms. Wegrynowski, I'll just take a  
 4 moment here, but I believe those are all my  
 5 questions for you. There was one issue, I'm  
 6 not sure if this came out, how many ER/PR  
 7 tests currently are carried out in your lab at  
 8 Mount Sinai?

9 MS. WEGRYNOWSKI:

10 A. Oh I don't know, I think I gave this number  
 11 somewhere along the line to someone, I don't  
 12 know, a thousand tests a year, easily, I don't  
 13 know. I could get back to you on that if you  
 14 need a firm number.

15 CHAYTOR, Q.C.:

16 Q. Okay, that's fine, thank you. Is there  
 17 anything else that I have not covered with you  
 18 that you think would be important for the  
 19 Commissioner to know or that you would  
 20 otherwise like to share with the Commissioner?

21 MS. WEGRYNOWSKI:

22 A. If I may make some closing remarks? This  
 23 process has been weighing heavily on my mind  
 24 for nearly two years. If I may, Madam  
 25 Commissioner, I would like to make some

Page 54

1 closing remarks for your consideration. First  
 2 and foremost, I think that not many are aware  
 3 that up to 85 percent of decisions concerning  
 4 diagnosis and treatment are based on  
 5 laboratory test results. Medical laboratory  
 6 technologists are one of the largest groups in  
 7 the medical community, yet we are the least  
 8 recognized. When the general public thinks of  
 9 health care professionals, doctors and nurses  
 10 immediately come to mind. We struggle with  
 11 our low profile because we perform our roles  
 12 behind the scenes. Laboratories are a  
 13 critical component of the health care system.  
 14 Because of the demand for resources in other  
 15 areas of health care, our visibility is  
 16 further diminished. It is time that the  
 17 importance of medical laboratory technologists  
 18 is recognized.

19 In the past, medical laboratory  
 20 technologists were excluded from important  
 21 public policy decision-making. It has only  
 22 been recently that health care leaders and  
 23 government officials have asked for our  
 24 professional input. Our input is vital for  
 25 successful patient care at a national level.

Page 55

1 It is well documented that a shortage of  
 2 medical laboratory technologists will occur  
 3 within the next decade. The paucity will have  
 4 a significant detrimental impact on the  
 5 Canadian health care system. In my opinion,  
 6 it is imperative that requirements for entry  
 7 into the profession, as well as our standards  
 8 of practice, are not eased. Core competencies  
 9 must continuously be upgraded to reflect  
 10 evolving medical advancements. It is the  
 11 obligation of the medical laboratory  
 12 technologist to be responsible and accountable  
 13 for their professional acts and practices.  
 14 There are discreet and well-defined standards  
 15 of practice, as well as laws and regulations  
 16 governing our profession. The onus is in all  
 17 in the profession to maintain and improve  
 18 their skills and knowledge and to keep current  
 19 with our changing scientific advances through  
 20 continuous learning.

21 I m m u n o h i s t o c h e m i s t r y m e d i c a l  
 22 technologists are integral members of the  
 23 health care team. We share knowledge which is  
 24 essential to the diagnosis and treatment of  
 25 disease. In the pathology setting, the

Page 56

1 pathologist and the medical laboratory  
 2 technologist work in tandem. The technologist  
 3 must perform reproducible tests in a stringent  
 4 manner and the pathologist must interpret  
 5 technically complex results; thus together  
 6 providing effective patient care.

7 Although each of our professions have  
 8 defined scopes of practice, they are  
 9 interdependent. Due to complex and highly  
 10 interpretative nature of immunohistochemistry  
 11 testing, effective interaction between the  
 12 pathologist and the medical laboratory  
 13 t e c h n o l o g i s t i s a n e c e s s i t y .  
 14 Immunohistochemistry has a direct and  
 15 immediate impact on patient diagnosis and  
 16 therapies. Historically, immunohistochemistry  
 17 has been a satellite laboratory to histology.  
 18 Immunohistochemistry and histology are two  
 19 different entities and should be treated as  
 20 thus. Recognized subspecialties include  
 21 electron microscopy and cytogenics. In my  
 22 opinion the dynamic and complex nature of  
 23 immunohistochemistry warrants specialized  
 24 training at the academic level, as well as  
 25 stringent adherence to practice, as it is a

Page 57

1 dynamic and not a static laboratory.  
 2 I would like to thank you for your time  
 3 today and for giving me the opportunity to  
 4 offer my opinion to this process.  
 5 CHAYTOR, Q.C.:  
 6 Q. Thank you, Ms. Wegrynowski.  
 7 MS. WEGRYNOWSKI:  
 8 A. You're welcome.  
 9 THE COMMISSIONER:  
 10 Q. Some of the other counsel here may have some  
 11 questions for you. Mr. Pritchard?  
 12 MS. PATRICIA WEGRYNOWSKI, EXAMINATION BY MR. ROLF  
 13 PRITCHARD.  
 14 MR. PRITCHARD:  
 15 Q. Thank you, Commissioner. Good morning, Ms.  
 16 Wegrynowski. My name is Rolf Pritchard and  
 17 I'm here representing Her Majesty in Right of  
 18 Newfoundland and Labrador. I just have one or  
 19 two questions for you this morning.  
 20 Ms. Wegrynowski, you mentioned that you  
 21 received a phone call, I think you said in the  
 22 spring of 2007 from Mr. Dyer.  
 23 MS. WEGRYNOWSKI:  
 24 A. Yes.  
 25 MR. PRITCHARD:

Page 58

1 Q. And he advised you that the Premier was going  
 2 to read your report. Is that correct?  
 3 MS. WEGRYNOWSKI:  
 4 A. Correct.  
 5 MR. PRITCHARD:  
 6 Q. And do you have any knowledge of whether or  
 7 not the Premier ever did read your report  
 8 around about that time?  
 9 MS. WEGRYNOWSKI:  
 10 A. I have no knowledge.  
 11 MR. PRITCHARD:  
 12 Q. No, all right. Thank you very much.  
 13 MS. WEGRYNOWSKI:  
 14 A. You're welcome.  
 15 THE COMMISSIONER:  
 16 Q. Thank you. Mr. Simmons?  
 17 MS. PATRICIA WEGRYNOWSKI, EXAMINATION BY MR. DANIEL  
 18 SIMMONS  
 19 MR. SIMMONS:  
 20 Q. Thank you, Commissioner. Good morning, Ms.  
 21 Wegrynowski, we've met before and as you know  
 22 I'm here representing Eastern Health. So, I  
 23 do have some questions for you coming out of  
 24 the evidence that you've given so far. And  
 25 some of it is background and things we're

Page 59

1 interested in in relation to the way you do  
 2 things at Mount Sinai and some other things  
 3 are more specific to what you done for Eastern  
 4 Health.  
 5 First of all, I just want to pick up on a  
 6 point you've just made in your statement. And  
 7 you said, if I can get this right, that one of  
 8 the things that's needed in  
 9 immunohistochemistry in Canada, I take it, is  
 10 that there needs to be specialized training at  
 11 an academic level for people involved in  
 12 immunohistochemistry. And I wonder if you can  
 13 tell me a little bit more about what you  
 14 foresee there? What type of academic training  
 15 you think should be available and whether you  
 16 know if that type of academic training for  
 17 immunohistochemistry is currently available  
 18 anywhere in the country?  
 19 MS. WEGRYNOWSKI:  
 20 A. I don't believe it's available anywhere in the  
 21 country, but I would like to see that  
 22 immunohistochemistry is, at least, provided a  
 23 part of the pathology modules when medical  
 24 laboratory technologists are being training,  
 25 at the very least.

Page 60

1 MR. SIMMONS:  
 2 Q. So, at the very least, it should be something  
 3 that would be added to the training programs  
 4 for the technologists. And if you had your  
 5 druthers, as they say, where would you see it?  
 6 How far would you see it going?  
 7 MS. WEGRYNOWSKI:  
 8 A. It could certainly be done as a speciality  
 9 advancement.  
 10 MR. SIMMONS:  
 11 Q. Okay.  
 12 MS. WEGRYNOWSKI:  
 13 A. But the same being said as well as for  
 14 residency programs, pathology residents need  
 15 the same sort of experience and expertise as  
 16 well.  
 17 MR. SIMMONS:  
 18 Q. Yes. And from your knowledge, do they receive  
 19 that type of focus in their residency  
 20 training?  
 21 MS. WEGRYNOWSKI:  
 22 A. Not to my--but I can't comment on that. It's  
 23 just something that I would be aware of.  
 24 MR. SIMMONS:  
 25 Q. Okay. So, in the absence of that type of

Page 61

1 academic level training for technologists. I  
 2 take it what has happened in your laboratory  
 3 is that you wanted to take fairly extensive  
 4 orientation and training program yourself that  
 5 you described for us earlier.  
 6 MS. WEGRYNOWSKI:  
 7 A. Correct.  
 8 MR. SIMMONS:  
 9 Q. Yes, okay. Now, in your laboratory, I believe  
 10 you've told us that you have five  
 11 technologists who are dedicated to full time  
 12 work in the immunohistochemistry.  
 13 MS. WEGRYNOWSKI:  
 14 A. Correct.  
 15 MR. SIMMONS:  
 16 Q. And your position is as--I mightn't get the  
 17 title right--but lead technologist for those  
 18 five.  
 19 MS. WEGRYNOWSKI:  
 20 A. That would be fair.  
 21 MR. SIMMONS:  
 22 Q. And as the lead technologist, is part of you  
 23 role then to bring a higher level of knowledge  
 24 and expertise to the work than the other five  
 25 may have. So that if there are more

Page 62

1 complicated things to do or difficult  
 2 troubleshooting to do, that you would become  
 3 involved in it.  
 4 MS. WEGRYNOWSKI:  
 5 A. Yes.  
 6 MR. SIMMONS:  
 7 Q. Is that part of what you do?  
 8 MS. WEGRYNOWSKI:  
 9 A. That's part of what I do.  
 10 MR. SIMMONS:  
 11 Q. Okay. So, would it be fair for me to expect  
 12 then that the other five technologists  
 13 wouldn't be expected to necessarily have the  
 14 same in-depth understanding of IHC that you've  
 15 been able to demonstrate for us here?  
 16 MS. WEGRYNOWSKI:  
 17 A. My expectation is that they would understand  
 18 that theory and be able to participate in the  
 19 troubleshooting.  
 20 MR. SIMMONS:  
 21 Q. Right, okay. How often is--I know you've  
 22 described IHC as complex, there are many  
 23 different antibodies and many different  
 24 purposes, how common is it for troubleshooting  
 25 to be required when these tests are being

Page 63

1 performed?  
 2 MS. WEGRYNOWSKI:  
 3 A. That would depend on circumstances.  
 4 MR. SIMMONS:  
 5 Q. Sure. In your experience, is it something  
 6 that comes up daily, weekly, once a month?  
 7 MS. WEGRYNOWSKI:  
 8 A. Any of the above.  
 9 MR. SIMMONS:  
 10 Q. And of the above, it depends. You do, but  
 11 it's not uncommon for troubleshooting to be  
 12 required in one type of test or another, is  
 13 it?  
 14 MS. WEGRYNOWSKI:  
 15 A. Yes.  
 16 MR. SIMMONS:  
 17 Q. Okay. And how--what are the different ways  
 18 that it might be recognized that  
 19 troubleshooting in a test is needed? How does  
 20 it bubble up to the surface? Who brings it up  
 21 to someone's attention that we have a problem  
 22 that we need to deal with?  
 23 MS. WEGRYNOWSKI:  
 24 A. Your controls would fail, you would have non-  
 25 specific staining.

Page 64

1 MR. SIMMONS:  
 2 Q. Um-hm, okay. So, are there situations where  
 3 the technologists, the five technologists who  
 4 work for you would recognize that there's been  
 5 an issue with a test and we need to  
 6 troubleshoot it?  
 7 MS. WEGRYNOWSKI:  
 8 A. Yes.  
 9 MR. SIMMONS:  
 10 Q. Okay. Are there cases where your  
 11 technologists would not be the ones to  
 12 recognize it, but someone else in the chain?  
 13 MS. WEGRYNOWSKI:  
 14 A. It can happen.  
 15 MR. SIMMONS:  
 16 Q. Yes. Are there cases where it would be the  
 17 pathologists who review the results of the  
 18 work would come back and say, we have an issue  
 19 that needs troubleshooting?  
 20 MS. WEGRYNOWSKI:  
 21 A. Yes, they can come back. They most certainly  
 22 do.  
 23 MR. SIMMONS:  
 24 Q. Okay. So, in your experience, both of those  
 25 are potential sources of recognition that



Page 65

1 there's an issue that needs troubleshooting?  
 2 MS. WEGRYNOWSKI:  
 3 A. Correct.  
 4 MR. SIMMONS:  
 5 Q. Yes. And I expect that there's different  
 6 levels of involvement that the people in your  
 7 lab and the pathologists have when it comes to  
 8 actually doing the troubleshooting in a test.  
 9 Are there things that the technologists can  
 10 look after themselves, problems that they  
 11 solve on their own?  
 12 MS. WEGRYNOWSKI:  
 13 A. Could you give me an--I'm not sure what you're  
 14 asking.  
 15 MR. SIMMONS:  
 16 Q. Well, if you've got an external control that's  
 17 failed and the technologist look at it and  
 18 they can tell that the control didn't stain at  
 19 all when it's supposed to. Is that the sort  
 20 of thing that they would tackle--a problem  
 21 they would tackle solving on their own or  
 22 would they immediately bring someone else in  
 23 to help them?  
 24 MS. WEGRYNOWSKI:  
 25 A. No, we would take care of that ourselves. We

Page 66

1 would stop it and say "this didn't work.  
 2 Okay, what do we need to do?" and start  
 3 forward the following day.  
 4 MR. SIMMONS:  
 5 Q. Right. Are there situations where you have a  
 6 troubleshooting to be done where you would  
 7 have to involve expertise beyond your own  
 8 technologists in order to solve the problems?  
 9 MS. WEGRYNOWSKI:  
 10 A. Could you provide me with an example of that,  
 11 please?  
 12 MR. SIMMONS:  
 13 Q. Not very well, because I don't understand the  
 14 details of it well enough to give you a  
 15 specific example, but are there situations  
 16 where if a pathologist has recognized a  
 17 problem, that you've got pathologists in your  
 18 laboratory medicine program who you can turn  
 19 to for assistance in troubleshooting problems?  
 20 MS. WEGRYNOWSKI:  
 21 A. My pathologists, do they help me troubleshoot?  
 22 Well, we can certainly have a dialogue about  
 23 it.  
 24 MR. SIMMONS:  
 25 Q. Yes. Are there pathologists at Mount Sinai

Page 67

1 who are sub-specialized in the sense that they  
 2 are particularly interested or particularly  
 3 work in areas that involved one set of  
 4 testing, like the ER/PR testing, for example?  
 5 MS. WEGRYNOWSKI:  
 6 A. Absolutely. Mount Sinai is, that's what we  
 7 are compromised of.  
 8 MR. SIMMONS:  
 9 Q. Right, and at Mount Sinai, those are Dr.  
 10 O'Malley and Dr. Mullen, I believe?  
 11 MS. WEGRYNOWSKI:  
 12 A. Correct.  
 13 MR. SIMMONS:  
 14 Q. So do you ever have occasion where you have to  
 15 involve people like them in issues to do with  
 16 troubleshooting the results of tests?  
 17 MS. WEGRYNOWSKI:  
 18 A. Not necessarily troubleshooting, but there's  
 19 certainly a dialogue if somebody wanted to  
 20 come back to you about something. When it  
 21 comes to our breast work, most of our work is  
 22 outside consult work, so--and I go back to our  
 23 client satisfaction forms, that this is what -  
 24 MR. SIMMONS:  
 25 Q. Yes.

Page 68

1 MS. WEGRYNOWSKI:  
 2 A. So if they're not seeing something at their  
 3 end, they'll come back. They have no problems  
 4 coming back and asking questions. The same is  
 5 true of all the pathologists.  
 6 MR. SIMMONS:  
 7 Q. Yes. So the outside pathologists who send in  
 8 the consults will come back to you with  
 9 questions as well? Is that what you're  
 10 saying?  
 11 MS. WEGRYNOWSKI:  
 12 A. I have not ever had that.  
 13 MR. SIMMONS:  
 14 Q. Okay, sorry, misunderstood that. You had told  
 15 us, going back sometime, to when you first  
 16 were first involved in ER/PR testing being  
 17 instituted by the IHC method. I think you  
 18 were at was it Women's College Hospital?  
 19 MS. WEGRYNOWSKI:  
 20 A. Yes.  
 21 MR. SIMMONS:  
 22 Q. And that was a transition from what we've  
 23 heard described as the ligand binding assay or  
 24 LBA method?  
 25 MS. WEGRYNOWSKI:

Page 69

1 A. Correct, yes, the DCC method, yes.  
 2 MR. SIMMONS:  
 3 Q. We've also heard it referred to as a bioassay?  
 4 MS. WEGRYNOWSKI:  
 5 A. That's correct.  
 6 MR. SIMMONS:  
 7 Q. Is that another term for it?  
 8 MS. WEGRYNOWSKI:  
 9 A. Yes, it gave a quantitative number, yes.  
 10 MR. SIMMONS:  
 11 Q. And you were involved, I think, in that at the  
 12 time when that was done at the lab where you  
 13 worked, were you?  
 14 MS. WEGRYNOWSKI:  
 15 A. Yes.  
 16 MR. SIMMONS:  
 17 Q. And did I understand you to say that the  
 18 validation process used then was to compare  
 19 the IHC results against the ligand binding  
 20 assay results?  
 21 MS. WEGRYNOWSKI:  
 22 A. That was part of that premise, yes. They  
 23 wanted to assure the specificity and accuracy,  
 24 that's correct.  
 25 MR. SIMMONS:

Page 70

1 Q. Right, right, so it wasn't--and we've also  
 2 heard mention of gold standards here in  
 3 testing, and some of us lay people have had  
 4 conceptions about what that means, but I'm not  
 5 sure if we're right. Is there, in laboratory  
 6 medicine, a technical use to the term "gold  
 7 standard"? When you speak of there being a  
 8 gold standard for a test, what is that?  
 9 MS. WEGRYNOWSKI:  
 10 A. I'm not sure I've used that term myself, but -  
 11 MR. SIMMONS:  
 12 Q. Well, I think in relation to the FISH  
 13 comparison for HER2. I'm not sure if you did  
 14 or if one of the witnesses earlier used that.  
 15 MS. WEGRYNOWSKI:  
 16 A. I did not refer to it that way, but I can  
 17 speak to you how the comparative is derived.  
 18 MR. SIMMONS:  
 19 Q. Yes, sure.  
 20 MS. WEGRYNOWSKI:  
 21 A. When the DCC method could give a quantitative  
 22 response to the amount of estrogen and  
 23 progesterone in the tumor, you were able to  
 24 get a succinct number. Much pathology, you  
 25 must understand, although it is rather

Page 71

1 quantitative, it is rather--it's qualitative  
 2 quantitative because we do not put in a piece  
 3 of whatever and come out with a number, and so  
 4 when you're talking about comparing FISH to  
 5 HER2/neu or the DCC to estrogen and  
 6 progesterone, if that's what you're going--if  
 7 that's what I'm understanding the question,  
 8 then that's how it is done.  
 9 MR. SIMMONS:  
 10 Q. Okay, and because another way, I would  
 11 understand, to validate a test like ER/PR  
 12 would be to compare your test results to a  
 13 clinical outcome with a patient, and  
 14 eventually, I think, there was research done  
 15 which -  
 16 MS. WEGRYNOWSKI:  
 17 A. Done to ensure that that -  
 18 MR. SIMMONS:  
 19 Q. - approached it that way, so that you know  
 20 that your test result matches something that  
 21 provides a benefit to a patient.  
 22 MS. WEGRYNOWSKI:  
 23 A. Correct.  
 24 MR. SIMMONS:  
 25 Q. But when ER/PR was instituted by the IHC

Page 72

1 method, the validation process was to compare  
 2 it to the previous test?  
 3 MS. WEGRYNOWSKI:  
 4 A. You'd need to speak to Dr. Frances O'Malley or  
 5 Brendan Mullen about this.  
 6 MR. SIMMONS:  
 7 Q. Okay, but at the time that you were involved  
 8 in it, that was, I presume, considered an  
 9 appropriate way to validate ER/PR by IHC was  
 10 to have a process of comparing it to the  
 11 ligand binding assay?  
 12 MS. WEGRYNOWSKI:  
 13 A. At a technical level, that's what I was asked  
 14 to do.  
 15 MR. SIMMONS:  
 16 Q. Yes, and at the technical level, would that  
 17 involve running parallel tests, a test of a  
 18 sample on ligand binding assay and test the  
 19 same sample on ER/PR -  
 20 MS. WEGRYNOWSKI:  
 21 A. Yes.  
 22 MR. SIMMONS:  
 23 Q. - and see what the results were, okay. So if  
 24 that was the approach that had been used here  
 25 in St. John's, that was what was then the

Page 73

1 Health Care Corporation prior to Eastern  
 2 Health, when the ER/PR test was instituted,  
 3 that wouldn't surprise you that that same  
 4 process would have been adopted for the  
 5 initial validation of it?  
 6 MS. WEGRYNOWSKI:  
 7 A. That would be fair.  
 8 MR. SIMMONS:  
 9 Q. Okay. I have some questions about the  
 10 machinery used in IHC testing.  
 11 MS. WEGRYNOWSKI:  
 12 A. All right.  
 13 MR. SIMMONS:  
 14 Q. And I've heard references to open systems and  
 15 closed systems, and my understanding, which  
 16 might not be correct, is that the DAKO semi-  
 17 automated system used in your lab and  
 18 previously used here is what's called an open  
 19 system because there's the ability to vary  
 20 things like antibody dilutions and antigen  
 21 retrieval methods and timing. And that the  
 22 Ventana benchmark system now in use here is  
 23 considered a closed system because you don't  
 24 have the same ability to vary those types of  
 25 things. Am I on the right track with that?

Page 74

1 MS. WEGRYNOWSKI:  
 2 A. I think that's fair.  
 3 MR. SIMMONS:  
 4 Q. Okay. And are there any--and both types of  
 5 systems are in use across the country in labs  
 6 now, I believe?  
 7 MS. WEGRYNOWSKI:  
 8 A. Yes.  
 9 MR. SIMMONS:  
 10 Q. Yes, they are. And are there any particular  
 11 pros and cons to taking one approach, the open  
 12 system approach or the closed system approach?  
 13 MS. WEGRYNOWSKI:  
 14 A. It needs to fit the needs of your  
 15 organization?  
 16 MR. SIMMONS:  
 17 Q. Yes. What sort of needs would suggest that  
 18 the open system or the closed system might be  
 19 a better fit?  
 20 MS. WEGRYNOWSKI:  
 21 A. Again, it would depend on the needs of your  
 22 organization, volume, cost. There are many  
 23 factors.  
 24 MR. SIMMONS:  
 25 Q. Um-hm, right. At Mount Sinai, we understand

Page 75

1 that you work in what I think you call the  
 2 service lab.  
 3 MS. WEGRYNOWSKI:  
 4 A. Yes, I do.  
 5 MR. SIMMONS:  
 6 Q. Which provides testing for clinical reasons  
 7 for patients.  
 8 MS. WEGRYNOWSKI:  
 9 A. Correct.  
 10 MR. SIMMONS:  
 11 Q. And Ms. Mendas is she kind of your counterpart  
 12 in the research lab?  
 13 MS. WEGRYNOWSKI:  
 14 A. No, she's the manager of the research lab.  
 15 MR. SIMMONS:  
 16 Q. Oh, she's the manager, okay.  
 17 MS. WEGRYNOWSKI:  
 18 A. Yes.  
 19 MR. SIMMONS:  
 20 Q. So, there's the separate research lab as well?  
 21 MS. WEGRYNOWSKI:  
 22 A. Yes, there is.  
 23 MR. SIMMONS:  
 24 Q. Both use the open system.  
 25 MS. WEGRYNOWSKI:

Page 76

1 A. Yes.  
 2 MR. SIMMONS:  
 3 Q. Is there any particular advantage to the open  
 4 system in the research environment, in the  
 5 research lab.  
 6 MS. WEGRYNOWSKI:  
 7 A. Again -  
 8 MR. SIMMONS:  
 9 Q. You can't say, okay. You suggested that there  
 10 are actually some variations in protocol  
 11 between the research lab and the service lab  
 12 in your institution, between the protocols  
 13 that are used. You don't have the same set of  
 14 written protocols for performance of IHC  
 15 testing in both labs, do you?  
 16 MS. WEGRYNOWSKI:  
 17 A. No, I have my own set. They have their own  
 18 set, but they do mirror each other I  
 19 understand.  
 20 MR. SIMMONS:  
 21 Q. Sure, yes. But it hasn't been determined that  
 22 there needed to be a single set of protocols  
 23 that were exactly the same in both labs?  
 24 MS. WEGRYNOWSKI:  
 25 A. That is no in part of my decision making.

Page 77

1 MR. SIMMONS:  
 2 Q. Okay. You had mentioned that there's a  
 3 college in Ontario that medical laboratory  
 4 technologists are members of. That's a  
 5 licensing body, is it?  
 6 MS. WEGRYNOWSKI:  
 7 A. Yes, it is.  
 8 MR. SIMMONS:  
 9 Q. And is that licensing mandatory in the  
 10 province of Ontario?  
 11 MS. WEGRYNOWSKI:  
 12 A. To work in the province of Ontario, we must be  
 13 members of CMLTO.  
 14 MR. SIMMONS:  
 15 Q. How long has that been in effect roughly?  
 16 MS. WEGRYNOWSKI:  
 17 A. I know that's on my CV.  
 18 MR. SIMMONS:  
 19 Q. It hasn't been 20 or 30 years? It's  
 20 relatively recent, isn't it?  
 21 MS. WEGRYNOWSKI:  
 22 A. It took a number of years for us to get to  
 23 that point.  
 24 MR. SIMMONS:  
 25 Q. Yes. Have you seen any particular value or

Page 78

1 advantages come out of having a college in  
 2 place that licenses and presumably carries out  
 3 some other functions in Ontario?  
 4 MS. WEGRYNOWSKI:  
 5 A. Yes. I believe that because--I think the  
 6 technologist has to understand more about  
 7 their scopes of practice. And we have our  
 8 focus magazines, opportunities for learning.  
 9 As I say, I've worked on the practice  
 10 guidelines so we were able to guide what are  
 11 the expectations of the histology in the  
 12 province of Ontario. So, there's a wealth of  
 13 information that we can get out for the  
 14 college, but most importantly, the public is  
 15 protected. College is for the public, not  
 16 necessarily for the technologists.  
 17 MR. SIMMONS:  
 18 Q. Right. Well, it enables the technologists, I  
 19 presume, to deliver a more standardized and  
 20 perhaps better approach in product, in -  
 21 MS. WEGRYNOWSKI:  
 22 A. Well, that QMPLS.  
 23 MR. SIMMONS:  
 24 Q. Okay. Well, in the college then, you've said  
 25 that you've worked for the college on practice

Page 79

1 guidelines?  
 2 MS. WEGRYNOWSKI:  
 3 A. Yes, I have.  
 4 MR. SIMMONS:  
 5 Q. Okay. Were those sorts of things in existence  
 6 and in place in Ontario prior to the college  
 7 being there to do them?  
 8 MS. WEGRYNOWSKI:  
 9 A. No.  
 10 MR. SIMMONS:  
 11 Q. Mount Sinai laboratory, I expect you'll agree  
 12 with me probably that it's one of the foremost  
 13 and more stringent IHC laboratories in the  
 14 country. Would that be a fair statement?  
 15 MS. WEGRYNOWSKI:  
 16 A. I would assume stringency would be in all IHC  
 17 laboratories.  
 18 MR. SIMMONS:  
 19 Q. Yes, okay. Does something like having a  
 20 college and practice guidelines make it easier  
 21 to share the knowledge that's been gained in  
 22 the laboratory like yours with others in your  
 23 province who now have to be licensed and have  
 24 to meet those same sorts of practice  
 25 guidelines?

Page 80

1 MS. WEGRYNOWSKI:  
 2 A. I'm not sure about sharing the information,  
 3 not from the college.  
 4 MR. SIMMONS:  
 5 Q. Okay. Well, what do the practice guidelines  
 6 address then?  
 7 MS. WEGRYNOWSKI:  
 8 A. The practice guidelines of?  
 9 MR. SIMMONS:  
 10 Q. Yes, what--the college. You referred to the  
 11 college has practice guidelines and you've  
 12 been involved in the development of them.  
 13 MS. WEGRYNOWSKI:  
 14 A. The practice guidelines that I'm referring to  
 15 were as for the area of histology. So, the  
 16 expectations were there that we determined how  
 17 many slides a technologist should be able to  
 18 cut depending on the composition, whether they  
 19 were biopsies or large specimens, the amount  
 20 of work flow ergonomics. It was that sort of  
 21 information that we working on.  
 22 MR. SIMMONS:  
 23 Q. Okay.  
 24 MS. WEGRYNOWSKI:  
 25 A. We did not do the area of IHC.

Page 81

1 MR. SIMMONS:  
 2 Q. Oh, I see, okay.  
 3 MS. WEGRYNOWSKI:  
 4 A. We did histology.  
 5 MR. SIMMONS:  
 6 Q. Sorry about that.  
 7 MS. WEGRYNOWSKI:  
 8 A. That's okay.  
 9 THE COMMISSIONER:  
 10 Q. And these guidelines, are they directed more  
 11 to the kind of work that one can be expected  
 12 to do as opposed necessarily to the steps  
 13 involved in doing the work?  
 14 MS. WEGRYNOWSKI:  
 15 A. Correct.  
 16 MR. SIMMONS:  
 17 Q. Now, in Ontario as well, aside from the  
 18 technologists, the laboratories have a level  
 19 of regulation and accreditation. I've heard  
 20 you mentioned both OLA and QMPLS.  
 21 MS. WEGRYNOWSKI:  
 22 A. QMPLS is a portion of OLA.  
 23 MR. SIMMONS:  
 24 Q. This was my next question, OLA stands for  
 25 what?

Page 82

1 MS. WEGRYNOWSKI:  
 2 A. Ontario Lab Accreditation.  
 3 MR. SIMMONS:  
 4 Q. Okay. And what kind of an organization is  
 5 that? Is that one of these voluntary  
 6 organizations or is this something mandated by  
 7 the province?  
 8 MS. WEGRYNOWSKI:  
 9 A. It's mandated.  
 10 MR. SIMMONS:  
 11 Q. So, I presume there's legislation somewhere in  
 12 the background that has created it?  
 13 MS. WEGRYNOWSKI:  
 14 A. Yes.  
 15 MR. SIMMONS:  
 16 Q. And can you tell me something, what its role  
 17 is?  
 18 MS. WEGRYNOWSKI:  
 19 A. I'm not sure that I'm the authority to speak  
 20 to you on the role of -  
 21 MR. SIMMONS:  
 22 Q. Well, you've got a perspective because you're  
 23 working in an important in Ontario and I  
 24 presume you have a perspective on how you see  
 25 the role that -

Page 83

1 MS. WEGRYNOWSKI:  
 2 A. I can tell you what my role is with--I can  
 3 tell you what I do.  
 4 MR. SIMMONS:  
 5 Q. Please, yes.  
 6 MS. WEGRYNOWSKI:  
 7 A. We are sent surveys several times a year, not  
 8 unlike what you already know with your  
 9 laboratory. And they will send us the slides,  
 10 they will tell us what they would like us to  
 11 stain. We will use our in-house controls and  
 12 we will use their slides. We will provide  
 13 them with all our protocols and the negative.  
 14 It all gets shipped back off to them. And  
 15 they will send everything back to us with a  
 16 critique.  
 17 MR. SIMMONS:  
 18 Q. Okay. And how long has that service been  
 19 available in Ontario?  
 20 MS. WEGRYNOWSKI:  
 21 A. It's been a couple of years. I can't recall  
 22 the exact start date.  
 23 MR. SIMMONS:  
 24 Q. Within the last couple of years?  
 25 MS. WEGRYNOWSKI:

Page 84

1 A. Don't quote me on that.  
 2 MR. SIMMONS:  
 3 Q. Okay, no, but it hasn't been ten years ago?  
 4 MS. WEGRYNOWSKI:  
 5 A. I don't think OLA has been in existence for  
 6 ten years.  
 7 MR. SIMMONS:  
 8 Q. Okay. And what QMPLS does is that something  
 9 different than that as well or is it part of  
 10 it?  
 11 MS. WEGRYNOWSKI:  
 12 A. It's an overseeing body.  
 13 MR. SIMMONS:  
 14 Q. Yes. And the QMPLS role in Ontario, what do  
 15 they do for your lab?  
 16 MS. WEGRYNOWSKI:  
 17 A. My goodness, I'm not sure I'm the best person  
 18 to answer this question for you. Brendan  
 19 Mullen might be able to -  
 20 MR. SIMMONS:  
 21 Q. Do they accredit your lab?  
 22 MS. WEGRYNOWSKI:  
 23 A. Yes.  
 24 MR. SIMMONS:  
 25 Q. They do? So, you've participated in the

Page 85

1 accreditations when they come in?  
 2 MS. WEGRYNOWSKI:  
 3 A. Yes, they do.  
 4 MR. SIMMONS:  
 5 Q. So, like accreditations generally, there'll be  
 6 reviewers who will come in -  
 7 MS. WEGRYNOWSKI:  
 8 A. Yes, they do.  
 9 MR. SIMMONS:  
 10 Q. - with some set of standards that -  
 11 MS. WEGRYNOWSKI:  
 12 A. Absolutely.  
 13 MR. SIMMONS:  
 14 Q. - they're going to take and prepare your -  
 15 MS. WEGRYNOWSKI:  
 16 A. Absolutely, that's right and our manuals have  
 17 to reflect this.  
 18 MR. SIMMONS:  
 19 Q. Right, okay. And that happens how often?  
 20 MS. WEGRYNOWSKI:  
 21 A. Hm?  
 22 MR. SIMMONS:  
 23 Q. That's fine, if you don't know, that's fine.  
 24 It's probably every two or three years,  
 25 something in that area, it is?

Page 86

1 MS. WEGRYNOWSKI:  
 2 A. Yes, It is not annually.  
 3 MR. SIMMONS:  
 4 Q. Okay. And that's something different than the  
 5 Canadian American Pathologist review that you  
 6 referred to as well.  
 7 MS. WEGRYNOWSKI:  
 8 A. Correct.  
 9 MR. SIMMONS:  
 10 Q. It's an additional one. There's been some  
 11 reference to synoptic reporting by  
 12 pathologists. I believe we heard from a  
 13 previous witness that that was implemented in  
 14 your facility in about 2005, does that sound  
 15 about right?  
 16 MS. WEGRYNOWSKI:  
 17 A. That would be correct; that is right.  
 18 MR. SIMMONS:  
 19 Q. Okay. So, prior to 2005, were you familiar  
 20 with the type of mechanisms used for reporting  
 21 by pathologists of the ER/PR results?  
 22 MS. WEGRYNOWSKI:  
 23 A. You need to speak to Frances O'Malley or  
 24 Brendan Mullen about that.  
 25 MR. SIMMONS:

Page 87

1 Q. Okay. Have you played any role in your lab in  
 2 monitoring of rates of positivity of ER/PR  
 3 testing over the years?  
 4 MS. WEGRYNOWSKI:  
 5 A. Not me, no.  
 6 MR. SIMMONS:  
 7 Q. Do you know if it's been done?  
 8 MS. WEGRYNOWSKI:  
 9 A. I know that they have been working on a  
 10 program and I know that Brendan Mullen--you  
 11 can speak to Brendan Mullen about that.  
 12 MR. SIMMONS:  
 13 Q. So, we can ask Dr. Mullen about it?  
 14 MS. WEGRYNOWSKI:  
 15 A. Yes. He -  
 16 MR. SIMMONS:  
 17 Q. You haven't had any involvement in any  
 18 monitoring of positivity rates.  
 19 MS. WEGRYNOWSKI:  
 20 A. No.  
 21 MR. SIMMONS:  
 22 Q. Has anything been reported to you over the  
 23 years, in your position to say that 2003,  
 24 we're at the end of 2003, here is our rate of  
 25 positives and negatives?

Page 88

1 MS. WEGRYNOWSKI:  
 2 A. In passing we might have discussed it, but I  
 3 couldn't comment on it, being formal.  
 4 MR. SIMMONS:  
 5 Q. Okay. When you were asked to come here to St.  
 6 John's and do you initial review, you've  
 7 described it to us as being--you've use the  
 8 term peer review. And although you weren't  
 9 actually reviewing the work of technologists  
 10 when you came, but we've also heard the term  
 11 quality review, that's been used here. But in  
 12 any event your expectation was that it was a  
 13 review that would have an element of  
 14 confidentiality and an element of legal  
 15 protection?  
 16 MS. WEGRYNOWSKI:  
 17 A. Absolutely.  
 18 MR. SIMMONS:  
 19 Q. Right, okay. Were you asked to do what you  
 20 would have considered and investigation into  
 21 the cause of the change in test results?  
 22 MS. WEGRYNOWSKI:  
 23 A. No.  
 24 MR. SIMMONS:  
 25 Q. Was the process that you planned to use when

Page 89

1 you came here one that you would have adopted  
 2 if you had been asked to come in and do an  
 3 investigation?  
 4 MS. WEGRYNOWSKI:  
 5 A. Not necessarily.  
 6 MR. SIMMONS:  
 7 Q. No. And once you got here, your process  
 8 changed once you came and saw what the level  
 9 of documentation and operating procedures and  
 10 so on was and you changed into a more of an  
 11 educational type of mode, I understand.  
 12 MS. WEGRYNOWSKI:  
 13 A. Yes.  
 14 MR. SIMMONS:  
 15 Q. And that's not something, is it, that would  
 16 have been directed towards an investigation  
 17 into cause?  
 18 MS. WEGRYNOWSKI:  
 19 A. No.  
 20 MR. SIMMONS:  
 21 Q. Was your report intended to be a report on  
 22 investigation into cause of the test changes?  
 23 MS. WEGRYNOWSKI:  
 24 A. No.  
 25 MR. SIMMONS:

Page 90

1 Q. Now, you did identify a significant number of  
 2 deficiencies that you found at the IHC  
 3 laboratory when you conducted your review and  
 4 you've reported on those in both of your  
 5 reports. And would it be fair to say that  
 6 many of those deficiencies could have been  
 7 factors that would contribute to an original  
 8 test not having worked?  
 9 MS. WEGRYNOWSKI:  
 10 A. Could you rephrase that for me, please?  
 11 MR. SIMMONS:  
 12 Q. Would it be fair to say that many of the  
 13 factors that you identified could have been  
 14 ones that contributed to why an original test  
 15 didn't work?  
 16 MS. WEGRYNOWSKI:  
 17 A. They were definitely factors that contributed,  
 18 yes.  
 19 MR. SIMMONS:  
 20 Q. Okay. And did your work--your work didn't go  
 21 so far though as to isolate any particular  
 22 factors in any particular cases?  
 23 MS. WEGRYNOWSKI:  
 24 A. I think I gave a very broad based--I had two  
 25 and a half days.

Page 91

1 MR. SIMMONS:  
 2 Q. Right. Would it be fair to say that the focus  
 3 of what you were doing was to assess the lab  
 4 as it existed in order to make those  
 5 recommendations so that appropriate changes  
 6 could be implemented on a go forward basis?  
 7 MS. WEGRYNOWSKI:  
 8 A. I thought I was there to do a peer review, but  
 9 that is what I ended up doing.  
 10 MR. SIMMONS:  
 11 Q. Okay. So, you ended up doing what I just  
 12 described?  
 13 MS. WEGRYNOWSKI:  
 14 A. Yes, not what I originally thought I was going  
 15 to do.  
 16 MR. SIMMONS:  
 17 Q. Okay. I'll refer you to just one document.  
 18 MS. WEGRYNOWSKI:  
 19 A. Okay.  
 20 MR. SIMMONS:  
 21 Q. This is a picky question. P-1743, please?  
 22 MS. WEGRYNOWSKI:  
 23 A. A what question?  
 24 MR. SIMMONS:  
 25 Q. This is a picky question.

Page 92

1 MS. WEGRYNOWSKI:  
 2 A. Oh, picky question, oh boy.  
 3 MR. SIMMONS:  
 4 Q. One little curiosity point. This was your  
 5 early e-mail, July 28, 2005. So, this was at  
 6 the very beginning when you were first  
 7 contacted about coming here, I think.  
 8 MS. WEGRYNOWSKI:  
 9 A. Um-hm.  
 10 MR. SIMMONS:  
 11 Q. And if you look down through your e-mail  
 12 message to Dr. Carter, you've listed five  
 13 questions there and the fourth one was a  
 14 question as to whether the MLTs, the  
 15 technologists, were dedicated or rotating  
 16 staff.  
 17 MS. WEGRYNOWSKI:  
 18 A. Okay.  
 19 MR. SIMMONS:  
 20 Q. Now, at this very early point had you already  
 21 had any indication or any -  
 22 MS. WEGRYNOWSKI:  
 23 A. No.  
 24 MR. SIMMONS:  
 25 Q. - as to whether they were dedicated or

Page 93

1 rotating?

2 MS. WEGRYNOWSKI:

3 A. No.

4 MR. SIMMONS:

5 Q. But I was curious as to why it would be a

6 question that you would even think to ask, as

7 to whether they were dedicated or rotating?

8 MS. WEGRYNOWSKI:

9 A. Oh, because in a histology setting, that is

10 not unusual to have people dedicated to an

11 area or rotate doing different benches all the

12 time.

13 MR. SIMMONS:

14 Q. Okay.

15 MS. WEGRYNOWSKI:

16 A. And I had no idea whether immunohistochemist--

17 how immunohistochemistry was perceived or set

18 up at this organization. So, that's why I

19 asked the question.

20 MR. SIMMONS:

21 Q. Right. So, it was something that you

22 recognized at the outset that it could be done

23 one way or the other, either dedicated or

24 rotating and this was an important point for

25 you to know.

Page 94

1 MS. WEGRYNOWSKI:

2 A. I'm not sure about doing it one way or the

3 other in immunohistochemistry, but the

4 question was there because I knew nothing.

5 So, it was, I'm trying to gather as much

6 information before I come on site so that I

7 don't waste the time on site.

8 MR. SIMMONS:

9 Q. Okay. I have some questions for you now about

10 the types of personnel and staffing that you

11 can have in this area. Now, there's been some

12 discussion of pathology assistants.

13 MS. WEGRYNOWSKI:

14 A. Okay.

15 MR. SIMMONS:

16 Q. Now I know I expect in your role in the--

17 you've confined to immunohistochemistry, you

18 probably don't have a lot of interaction with

19 pathology assistants at your institution, do

20 you?

21 MS. WEGRYNOWSKI:

22 A. Daily, but not--I speak to them usually daily,

23 but not necessarily about what they do and how

24 they do it.

25 MR. SIMMONS:

Page 95

1 Q. Okay. Do you--and when you came here to

2 Newfoundland, there were no pathology

3 assistants in place?

4 MS. WEGRYNOWSKI:

5 A. Correct.

6 MR. SIMMONS:

7 Q. And the pathologists were doing the grossing

8 of the specimens with the senior technologists

9 carrying out some grossing duties, you

10 probably understood that to be the case?

11 MS. WEGRYNOWSKI:

12 A. Yes, I did.

13 MR. SIMMONS:

14 Q. And I believe included in your recommendations

15 was a recommendation that pathology assistants

16 would be of advantage?

17 MS. WEGRYNOWSKI:

18 A. Yes.

19 MR. SIMMONS:

20 Q. Okay. What sort of advantages would you see

21 flowing from including pathology assistants in

22 the process?

23 MS. WEGRYNOWSKI:

24 A. Continuity of how the specimens were going to

25 be handled.

Page 96

1 MR. SIMMONS:

2 Q. Um-hm.

3 MS. WEGRYNOWSKI:

4 A. The pathologists assistant never works along,

5 they always work under a pathologist, so they

6 would always be the daily interaction rounds

7 or whatever you would like to discuss with

8 that. It provides the pathologists with an

9 opportunity to spend less time in actually

10 doing grossing and allows them to do their own

11 reading. I'm not sure what your residency

12 program is here, but they can also work with

13 that. Is that something that you're looking

14 for?

15 MR. SIMMONS:

16 Q. Well, no, I'm not looking for anything in

17 particular other than just your views as to

18 what to inform us about, what you perceive the

19 advantages being of having pathology

20 assistants available. Now the consistency,

21 how does the consistency play into the work

22 that's done in the immunohistochemistry lab?

23 MS. WEGRYNOWSKI:

24 A. The consistency would then be how the

25 specimens were handled, how they were once



Page 97

1 excised from the body, we could streamline the  
 2 transition getting it into the lab. The  
 3 grossing would be done in a very similar  
 4 manner. You would have your documentation  
 5 however it was going to be set up by your  
 6 pathologist and the size of the sections are  
 7 extremely critical.

8 MR. SIMMONS:  
 9 Q. Um-hm, okay. So when you look at some of the  
 10 technical things that you can have trouble  
 11 with in doing an IHC test, it's helpful to  
 12 have that kind of consistency in the  
 13 processing of the specimen before it reaches  
 14 your lab?

15 MS. WEGRYNOWSKI:  
 16 A. Consistency is very important in pathology,  
 17 yes.

18 MR. SIMMONS:  
 19 Q. It will reduce the range of things maybe that  
 20 can be difficult to deal with in performing an  
 21 IHC test, can it?

22 MS. WEGRYNOWSKI:  
 23 A. They can ensure that your proper fixation is  
 24 in place.

25 MR. SIMMONS:

Page 98

1 Q. Yes, okay. So instituting pathology  
 2 assistants at Eastern Health would be  
 3 certainly viewed by you as having been a big  
 4 advantage?

5 MS. WEGRYNOWSKI:  
 6 A. As an asset, yes.

7 MR. SIMMONS:  
 8 Q. A step forward, okay. Now, recommendations  
 9 coming out of your review and of Dr.  
 10 Banerjee's, as well, included designating a  
 11 pathologist as a position like a director of  
 12 immunohistochemistry. What sort of advantages  
 13 do you see coming out of that kind of a move,  
 14 designating a pathologist to be the person  
 15 responsible for IHC testing?

16 MS. WEGRYNOWSKI:  
 17 A. That would be the person in my laboratory who  
 18 signs off on my manuals, they are the person  
 19 that I go to when I have the external quality  
 20 that I need to do. The only codicil to that  
 21 is, and this is his choice, you'd have to  
 22 speak to him to verify it, but if it's breast  
 23 pathology, if we get a case of a breast, then  
 24 Frances or Brendan will go ahead and read it.

25 MR. SIMMONS:

Page 99

1 Q. Right, okay. So you have a pathologist who's  
 2 not only charged with that kind of  
 3 responsibility but presumably has an interest  
 4 and develops an expertise in carrying out that  
 5 role in relation to immunohistochemistry, as  
 6 well?

7 MS. WEGRYNOWSKI:  
 8 A. Yes.

9 MR. SIMMONS:  
 10 Q. The first question I asked you about was your  
 11 recommendation about academic training for  
 12 immunohistochemistry to understand, presumably  
 13 to understand the science, so the people doing  
 14 the work understand and scientific basis for  
 15 the work that they're doing, help them  
 16 understand what it is they're doing and why.  
 17 And you wouldn't have been familiar with this  
 18 when you were here, because this is a  
 19 development that's more recent at Eastern  
 20 Health, but there's been a position added in  
 21 the immunohistochemistry service to, for  
 22 someone maybe equivalent to a lead tech who  
 23 has a PhD science background who will be  
 24 charged with the responsibility for things  
 25 like the validation. How would you see that

Page 100

1 kind of a move in relation to addressing some  
 2 of the underlying concerns that you had when  
 3 you reviewed the labs?

4 MS. WEGRYNOWSKI:  
 5 A. Are they medical laboratory technologists?

6 MR. SIMMONS:  
 7 Q. Yes.

8 MS. WEGRYNOWSKI:  
 9 A. I think that role would be up for Eastern  
 10 Health to decide how best to carry it out.

11 MR. SIMMONS:  
 12 Q. Okay. Thank you, very much. That's all the  
 13 questions I have for you.

14 MS. WEGRYNOWSKI:  
 15 A. Thank you.

16 COMMISSIONER:  
 17 Q. Mr. Browne, do you have any questions? I'm  
 18 just wondering whether you want us to take the  
 19 morning break before you start or after?

20 MR. BROWNE:  
 21 Q. Probably be better to take the morning break.

22 COMMISSIONER:  
 23 Q. Well why don't we take the morning break and  
 24 then you can have your opportunity to cross-  
 25 examine.

Page 101

1 (RECESS)

2 MS. TRISH WEGRYNOWSKI, EXAMINATION BY MR. PETER BROWNE

3 MR. BROWNE:

4 Q. Good morning, Ms. Wegrynowski. My name is

5 Peter Browne. I represent a number of the

6 individual physicians who have been asked to

7 testify before the Commission. Mr. Simmons

8 said he had a picky question. I have a

9 curious question, actually, to begin with.

10 And that is in relation to an item in your

11 curriculum vitae, and actually, the last item

12 on page 4. And it mentions that you attended

13 the Biological Stain Commission annual

14 meeting. can you just give some more

15 information around that? That is a U.S. body

16 that's been in existence for a number of

17 years, I understand. Could you explain the

18 purpose of that body?

19 MS. WEGRYNOWSKI:

20 A. The Biological Stain Commission -

21 MR. BROWNE:

22 Q. Yes.

23 MS. WEGRYNOWSKI:

24 A. It was derived originally, they were the ones

25 that took care of all the stains. All the

Page 102

1 stains have particular codes, so they were

2 ensuring the certification of the stains. It

3 was a very--it was an enlightening meeting for

4 me to attend because there were also members

5 there of the National Institute of

6 Standardized Testing and we had dialogues

7 going on even just about the calibre of the

8 slides that we are using in

9 immunohistochemistry.

10 MR. BROWNE:

11 Q. Now, the Biological Stain Commission, is that

12 part of also a regulatory agency in the United

13 States?

14 MS. WEGRYNOWSKI:

15 A. I couldn't speak to that.

16 MR. BROWNE:

17 Q. Okay. And I'm assuming that the Biological

18 Staining Commission also looks after IHC

19 stains?

20 MS. WEGRYNOWSKI:

21 A. I'm not sure they do. You know, it's dyes,

22 they take care of dyes.

23 MR. BROWNE:

24 Q. Simply dyes, okay, thank you. You spoke

25 yesterday about the Sakura Express and we've

Page 103

1 heard some evidence previous to that here in

2 relation to this machine being purchased by

3 Eastern Health. And did I understand your

4 evidence correctly that this particular

5 machine uses alcohol as oppose to formalin as

6 a fixative?

7 MS. WEGRYNOWSKI:

8 A. Yes.

9 MR. BROWNE:

10 Q. And that is problematic when it comes to

11 immunohistochemistry because most of the

12 immunohistochemistry is based on formalin-

13 fixed tissues, is that correct?

14 MS. WEGRYNOWSKI:

15 A. It's not as much as it is a problem as that

16 you need to ensure that your controls are

17 handled in the same manner as what your tests

18 are.

19 MR. BROWNE:

20 Q. Okay.

21 MS. WEGRYNOWSKI:

22 A. So if that's what they were going to proceed

23 with, that was one of the codicils they needed

24 to keep in mind.

25 MR. BROWNE:

Page 104

1 Q. Okay. And do you have any--well, does your

2 institution have a similar machine?

3 MS. WEGRYNOWSKI:

4 A. We do not use that machine.

5 MR. BROWNE:

6 Q. Okay. Are you familiar with this particular

7 machine and its usage?

8 MS. WEGRYNOWSKI:

9 A. I've seen it at conventions, but I don't have

10 any -

11 MR. BROWNE:

12 Q. Now, you mentioned, as well, just along that

13 topic, that at your institution you have

14 equipment purchase protocol?

15 MS. WEGRYNOWSKI:

16 A. Yes.

17 MR. BROWNE:

18 Q. Is there a committee that is around that

19 protocol, are there certain individuals who, I

20 guess, develop the protocol?

21 MS. WEGRYNOWSKI:

22 A. I can speak to it in my involvement in it.

23 We, ourselves, have been looking to purchase

24 more stainers for the immunohistochemistry

25 department and we needed to look at several

Page 105

1 different companies, and it was my technical  
 2 director, the charge technologist and myself  
 3 who did this.  
 4 MR. BROWNE:  
 5 Q. Okay. Are pathologists involved in, I guess,  
 6 the decision around the purchasing of  
 7 equipment?  
 8 MS. WEGRYNOWSKI:  
 9 A. They can be.  
 10 MR. BROWNE:  
 11 Q. There was some evidence and you were  
 12 referenced to this point yesterday, as well,  
 13 about in-house formalin. I take it does Mount  
 14 Sinai or has Mount Sinai ever made in-house  
 15 formalin?  
 16 MS. WEGRYNOWSKI:  
 17 A. I believe they did a long time ago.  
 18 MR. BROWNE:  
 19 Q. And did you have or are you aware of whether  
 20 or not they had standard operating procedures  
 21 with regard to in-house formalin?  
 22 MS. WEGRYNOWSKI:  
 23 A. It's well before my time.  
 24 MR. BROWNE:  
 25 Q. Okay. Is there, from your knowledge base, are

Page 106

1 there particular problems with making in-house  
 2 formalin versus commercially prepared  
 3 formalin?  
 4 MS. WEGRYNOWSKI:  
 5 A. Myself, my personal opinion is safety.  
 6 MR. BROWNE:  
 7 Q. Safety in terms of safety to the -  
 8 MS. WEGRYNOWSKI:  
 9 A. Individual -  
 10 MR. BROWNE:  
 11 Q. - individual.  
 12 MS. WEGRYNOWSKI:  
 13 A. Making it, yes.  
 14 MR. BROWNE:  
 15 Q. Is there, I guess is there any particular risk  
 16 that if not prepared or diluted properly that  
 17 it may lead to under or over fixation of  
 18 tissue?  
 19 MS. WEGRYNOWSKI:  
 20 A. It would change your percentages. I can't  
 21 speak to the under, over.  
 22 MR. BROWNE:  
 23 Q. Okay. At Mount Sinai what type of slides are  
 24 used or are there particular slides used for  
 25 IHC interpretation? I'm referring in

Page 107

1 particular to positively charged slides. Can  
 2 you explain what that is and does your  
 3 institution use such a slide?  
 4 MS. WEGRYNOWSKI:  
 5 A. Yes, we do. We use them to ensure that the  
 6 sections do not fall off a slide. So you use  
 7 deionized water so that there's absolutely,  
 8 there's no charge in the water with a  
 9 negatively charged tissue, will attach the  
 10 positively charged slide. So it's just to  
 11 adherence of the tissue so that it does not  
 12 come off during some of the procedure. It's a  
 13 long procedure, and in our particular case we  
 14 microwave which can be--it's going up to 115,  
 15 120 degrees celsius.  
 16 MR. BROWNE:  
 17 Q. So it's to protect tissue coming off during  
 18 the whole, I guess, detection, antigen  
 19 retrieval detection process that the slide  
 20 goes through?  
 21 MS. WEGRYNOWSKI:  
 22 A. Yes.  
 23 MR. BROWNE:  
 24 Q. Okay. And as well you mentioned yesterday  
 25 that I think you used the term "standard

Page 108

1 operating procedures are living and breathing  
 2 documents"?)  
 3 MS. WEGRYNOWSKI:  
 4 A. Correct.  
 5 MR. BROWNE:  
 6 Q. Over the time period that you have been with  
 7 Mount Sinai how often have you changed, for  
 8 instance, your standard operating procedures  
 9 for antibodies, detection systems and so on?  
 10 MS. WEGRYNOWSKI:  
 11 A. It can happen. It's not on a regular basis.  
 12 Your procedure would change if you received a  
 13 new lot of antibody and the concentration had  
 14 changed, which would then result in a  
 15 different dilution, your procedure manual  
 16 would change, as well.  
 17 MR. BROWNE:  
 18 Q. And I believe, as well, you mentioned that  
 19 they are reviewed on an annual basis, is that  
 20 right?  
 21 MS. WEGRYNOWSKI:  
 22 A. Correct.  
 23 MR. BROWNE:  
 24 Q. Okay. And you have indicated to the  
 25 Commissioner during your evidence that your

Page 109

1 institution uses the DAKO semi-automated  
 2 stainer, is that correct?  
 3 MS. WEGRYNOWSKI:  
 4 A. Correct.  
 5 MR. BROWNE:  
 6 Q. And that particular machine uses a pump that  
 7 applies stain to the slide, is that right?  
 8 MS. WEGRYNOWSKI:  
 9 A. Yes, it does.  
 10 MR. BROWNE:  
 11 Q. Okay. Has your institution ever had any  
 12 problems with that particular, the pump that  
 13 applies the stain?  
 14 MS. WEGRYNOWSKI:  
 15 A. Yes, we have.  
 16 MR. BROWNE:  
 17 Q. Is that a regular occurrence or is there just  
 18 an isolated event?  
 19 MS. WEGRYNOWSKI:  
 20 A. I couldn't speak to that, but as a user of it  
 21 you recognize that the pumps are taking longer  
 22 and longer and it is my responsibility then to  
 23 get in touch with the manufacturer who will  
 24 come in and do service calls on that.  
 25 MR. BROWNE:

Page 110

1 Q. But as a technologist you should be in a  
 2 position to recognize difficulties with a  
 3 particular pump if it is not applying the  
 4 stain correctly?  
 5 MS. WEGRYNOWSKI:  
 6 A. Correct.  
 7 MR. BROWNE:  
 8 Q. Now, you were asked both yesterday and today  
 9 about the microtome?  
 10 MS. WEGRYNOWSKI:  
 11 A. Yes.  
 12 MR. BROWNE:  
 13 Q. And I believe this morning, in fact, you when  
 14 asked about teaching technologists, sort of  
 15 walking through the understanding of  
 16 immunohistochemistry you would start with the  
 17 microtome as sort of the ground level, is  
 18 that--did I understand you to be correct in  
 19 saying that this morning?  
 20 MS. WEGRYNOWSKI:  
 21 A. Yes.  
 22 MR. BROWNE:  
 23 Q. Okay. So obviously that's a very important  
 24 mechanical instrument?  
 25 MS. WEGRYNOWSKI:

Page 111

1 A. Yes.  
 2 MR. BROWNE:  
 3 Q. In terms of as it relates to IHC as well as  
 4 the whole lab?  
 5 MS. WEGRYNOWSKI:  
 6 A. Yes.  
 7 MR. BROWNE:  
 8 Q. Okay. And that--so I am correct, that is the  
 9 mechanical instrument that is used to cut the  
 10 specimens from blocks into thin transparent  
 11 slices to be put on a slide?  
 12 MS. WEGRYNOWSKI:  
 13 A. Correct.  
 14 MR. BROWNE:  
 15 Q. Okay. And I think if I got your statement  
 16 correct, you made this morning, was you don't  
 17 want to lose tissue when you're using this  
 18 machine?  
 19 MS. WEGRYNOWSKI:  
 20 A. Correct.  
 21 MR. BROWNE:  
 22 Q. Can you explain that a bit further, please?  
 23 MS. WEGRYNOWSKI:  
 24 A. Every block that comes in--okay, I have to  
 25 think how to put this. If the block isn't

Page 112

1 always on the same angle, there are centring  
 2 screws that the technologist would use to make  
 3 the section or make the block come up directly  
 4 to the blade so that when they started to come  
 5 down with the section onto the blade, that  
 6 they wouldn't be then going into the section.  
 7 MR. BROWNE:  
 8 Q. Right.  
 9 MS. WEGRYNOWSKI:  
 10 A. So they use something called centring screws  
 11 so that the best of their ability they're  
 12 lining up that block so that when it hits the  
 13 blade, that you're not losing as--you don't  
 14 want to lose any tissue.  
 15 MR. BROWNE:  
 16 Q. Right. When you say "tissue", you're talking  
 17 normal epithelium, for instance, if -  
 18 MS. WEGRYNOWSKI:  
 19 A. I'm talking about whatever is embedded in that  
 20 block.  
 21 MR. BROWNE:  
 22 Q. Right. Well, that would include in relation  
 23 to, for instance, ER/PR, would that be normal  
 24 epithelium that may be affected by or lost by  
 25 that process?

Page 113

1 MS. WEGRYNOWSKI:  
 2 A. Correct.  
 3 MR. BROWNE:  
 4 Q. Okay. And I think you testified earlier, as  
 5 well, that that may in terms of pathology,  
 6 normal epithelium is used as an internal  
 7 control?  
 8 MS. WEGRYNOWSKI:  
 9 A. The ductal epithelium, yes.  
 10 MR. BROWNE:  
 11 Q. Okay. You were shown--if we may, Registrar,  
 12 P-0101? This letter you were shown yesterday,  
 13 Ms. Wegrynowski, and that's the letter by Dr.  
 14 Carter. And I think your evidence was as  
 15 follows, and I want to be clear on this point,  
 16 that the content of this letter encapsulate  
 17 your concerns and your recommendations that  
 18 were in your report. Is that a fair  
 19 statement?  
 20 MS. WEGRYNOWSKI:  
 21 A. That's what I took away after reading that  
 22 letter for the first time yesterday.  
 23 MR. BROWNE:  
 24 Q. Okay. Are you aware or was it brought to your  
 25 attention whether or not this was ever

Page 114

1 protected by the Evidence Act or any other  
 2 legal process?  
 3 MS. WEGRYNOWSKI:  
 4 A. This letter?  
 5 MR. BROWNE:  
 6 Q. Yes.  
 7 MS. WEGRYNOWSKI:  
 8 A. I didn't even know the letter until yesterday,  
 9 so, no.  
 10 MR. BROWNE:  
 11 Q. Right. But has anybody brought it to your  
 12 attention that this, in fact, was not  
 13 protected in any fashion?  
 14 MS. WEGRYNOWSKI:  
 15 A. No.  
 16 MR. BROWNE:  
 17 Q. You spoke extensively both yesterday and today  
 18 about the importance of pipettes and the  
 19 calibration of pipettes in relation to the  
 20 immunohistochemistry process. And if I  
 21 captured your evidence correctly, if they're  
 22 not calibrated properly, they cannot or they  
 23 can cause improper dilution?  
 24 MS. WEGRYNOWSKI:  
 25 A. Correct.

Page 115

1 MR. BROWNE:  
 2 Q. Is that in relation to the antigen retrieval  
 3 process?  
 4 MS. WEGRYNOWSKI:  
 5 A. No, that is in relation to making up the  
 6 primary antibody.  
 7 MR. BROWNE:  
 8 Q. Okay. And sorry, and the primary antibody  
 9 which leads to the amount of signal that is  
 10 brought out through, I guess, the whole  
 11 process?  
 12 MS. WEGRYNOWSKI:  
 13 A. Correct.  
 14 MR. BROWNE:  
 15 Q. So and the amount of signal is what the  
 16 pathologist looks for when trying to determine  
 17 in relation to ER/PR the percentage of ER  
 18 positivity, PR positivity?  
 19 MS. WEGRYNOWSKI:  
 20 A. Correct.  
 21 MR. BROWNE:  
 22 Q. Mr. Simmons asked you this morning about the  
 23 pathologist's role in troubleshooting. They  
 24 are the end-product users of this process in  
 25 terms of they're most involved in the post-

Page 116

1 analytical phase of the immunohistochemistry,  
 2 is that correct?  
 3 MS. WEGRYNOWSKI:  
 4 A. Yes.  
 5 MR. BROWNE:  
 6 Q. And would you expect primarily that it's their  
 7 job to look at the quality of the slide and  
 8 relate any concerns back to the technologist  
 9 and once those concerns are related back to  
 10 the technologist that the technologist will  
 11 take steps to try and troubleshoot and address  
 12 what the quality issues may be?  
 13 MS. WEGRYNOWSKI:  
 14 A. Yes, as a team.  
 15 MR. BROWNE:  
 16 Q. Thank you. That's all the questions I have,  
 17 Commissioner.  
 18 COMMISSIONER:  
 19 Q. Thank you, Mr. Browne. Ms. O'Dea?  
 20 MS. TRISH WEGRYNOWSKI, EXAMINATION BY MS. JENNIFER  
 21 NEWBURY  
 22 MS. NEWBURY:  
 23 Q. Good morning, Ms. Wegrynowski, my name is  
 24 Jennifer Newbury and I represent the Canadian  
 25 Cancer Society, Newfoundland and Labrador

Page 117

1 Division. I have a few questions for you  
 2 this morning. And I want to start off just to  
 3 get you to explain a little bit more about the  
 4 issue or the topic of sensitivity and  
 5 specificity. And I want to make sure I  
 6 understand it first. Is sensitivity the  
 7 proportion of actual positives that are  
 8 correctly identified as such?  
 9 MS. WEGRYNOWSKI:  
 10 A. Yes, if you're taking that out of the Roche  
 11 Manual, that's exactly what they wrote.  
 12 MS. NEWBURY:  
 13 Q. Okay. And specificity is the proportion of  
 14 actual negatives that are correctly identified  
 15 as such?  
 16 MS. WEGRYNOWSKI:  
 17 A. Correct.  
 18 MS. NEWBURY:  
 19 Q. Okay. And what stages of immunohistochemical  
 20 testing can impact sensitivity and specificity  
 21 and perhaps if you can relate that to pre-  
 22 analytic, analytic and post-analytic stages?  
 23 MS. WEGRYNOWSKI:  
 24 A. In the pre-analytic it's most definitely  
 25 formalin fixation and processing.

Page 118

1 MS. NEWBURY:  
 2 Q. Yeah.  
 3 MS. WEGRYNOWSKI:  
 4 A. If that protein is not captured right from the  
 5 beginning, that can lead to a negative result.  
 6 MS. NEWBURY:  
 7 Q. Okay.  
 8 MS. WEGRYNOWSKI:  
 9 A. Or hollow nuclei or however it's described.  
 10 Again, in the laboratory setting in the  
 11 analytical stage it's extrinsic to  
 12 protocols, it's ensuring that the buffers,  
 13 that everything is done in a very stringent  
 14 manner, and post-analytically that would be  
 15 the pathologists and their interpretation.  
 16 MS. NEWBURY:  
 17 Q. Okay. So in the pre-analytic stage then if, I  
 18 guess the key thing is the fixation in  
 19 formalin and if that's not done properly, then  
 20 would the concern be with regard to the  
 21 sensitivity of the test or the specificity or  
 22 both?  
 23 MS. WEGRYNOWSKI:  
 24 A. To the positives.  
 25 MS. NEWBURY:

Page 119

1 Q. Okay. And so that would be missing positive  
 2 tests?  
 3 MS. WEGRYNOWSKI:  
 4 A. Reducing the amount, yes, because they  
 5 wouldn't be fixed to get the signal.  
 6 MS. NEWBURY:  
 7 Q. Okay. And at the analytic stage would any  
 8 difficulties, I guess, or improper procedures  
 9 applied, would that lead to problems with both  
 10 specificity and sensitivity or is one more  
 11 likely to occur than the other?  
 12 MS. WEGRYNOWSKI:  
 13 A. I can't see one occurring more than the other,  
 14 but you could get more of a false negative  
 15 than you could do with sensitivity or  
 16 specificity.  
 17 MS. NEWBURY:  
 18 Q. Okay. And can you comment on any concerns at  
 19 the post-analytic stage or is that the  
 20 pathologists?  
 21 MS. WEGRYNOWSKI:  
 22 A. The pathologists.  
 23 MS. NEWBURY:  
 24 Q. And is there any correlation between  
 25 sensitivity and specificity if you have a test

Page 120

1 that's run in a uniform manner, would you  
 2 have, if you have greater sensitivity does  
 3 that mean that you have a loss of specificity  
 4 or is there -  
 5 MS. WEGRYNOWSKI:  
 6 A. No.  
 7 MS. NEWBURY:  
 8 Q. There's no correlation between those two at  
 9 all?  
 10 MS. WEGRYNOWSKI:  
 11 A. Not that I'm aware of.  
 12 MS. NEWBURY:  
 13 Q. Based upon your review of testing procedures  
 14 at Eastern Health, do you have any  
 15 observations about the likely sensitivity of  
 16 ER/PR testing?  
 17 MS. WEGRYNOWSKI:  
 18 A. I didn't look at their actual testing. I just  
 19 did a broad-based assessment of the  
 20 institution.  
 21 MS. NEWBURY:  
 22 Q. But just generally speaking, based on what you  
 23 saw, would you be able to say, you know, you  
 24 may have concerns with one--with sensitivity  
 25 of your ER/PR testing? You can't comment?

Page 121

1 MS. WEGRYNOWSKI:  
 2 A. No, I can't.  
 3 MS. NEWBURY:  
 4 Q. And you can't comment on any predictions or  
 5 observations about specificity either?  
 6 MS. WEGRYNOWSKI:  
 7 A. No, I cannot.  
 8 MS. NEWBURY:  
 9 Q. Okay. Would you have had enough information,  
 10 based on what you observed during your  
 11 assessment of the lab, about whether or not ER  
 12 positive test results were likely to be valid?  
 13 MS. WEGRYNOWSKI:  
 14 A. Could you please rephrase that for me?  
 15 MS. NEWBURY:  
 16 Q. I'm just wondering, based on what you observed  
 17 when you did the review of the lab, would you  
 18 have any concerns about ER positive test  
 19 results that had been developed through those  
 20 procedures?  
 21 MS. WEGRYNOWSKI:  
 22 A. I can't comment directly to that. I would say  
 23 that one would need to go back and look at the  
 24 original validation process and ensure that  
 25 every--that all procedures were handled in the

Page 122

1 same manner.  
 2 MS. NEWBURY:  
 3 Q. Okay. So you would not--I'll just rephrase  
 4 the question this way. Would you have been  
 5 able to give anyone assurances that ER/PR  
 6 positive test results should be okay, based  
 7 upon what you observed in the lab?  
 8 MS. WEGRYNOWSKI:  
 9 A. I can't make that comment.  
 10 MS. NEWBURY:  
 11 Q. Okay. Did you ever have any discussions with  
 12 anyone at Eastern Health regarding ER positive  
 13 test results?  
 14 MS. WEGRYNOWSKI:  
 15 A. No.  
 16 MS. NEWBURY:  
 17 Q. And do you know if any of your colleagues  
 18 would have had any dealings with this ER  
 19 positive results?  
 20 MS. WEGRYNOWSKI:  
 21 A. My colleagues have never mentioned anything  
 22 like that to me.  
 23 MS. NEWBURY:  
 24 Q. And what is the impact of the absence of  
 25 negative controls? And you've mentioned in

Page 123

1 your most recent report that there was still  
 2 no negative controls in place. What is the  
 3 impact of that?  
 4 MS. WEGRYNOWSKI:  
 5 A. For example, if there was some non-specific  
 6 staining or cross-reactivity with that  
 7 particular control slide, then you would  
 8 recognize that as a negative. So if there was  
 9 some staining in that negative, I mean, there  
 10 shouldn't be, but it can occur, if you're not  
 11 blocking for Avidin and Biotin, it would be  
 12 the difference between what was staining in  
 13 the negative control or the negative tissue  
 14 compared to the positive tissue.  
 15 MS. NEWBURY:  
 16 Q. So in the absence of the negative control,  
 17 would it be possible that a test is  
 18 incorrectly identified as being ER positive?  
 19 MS. WEGRYNOWSKI:  
 20 A. Not necessarily.  
 21 MS. NEWBURY:  
 22 Q. Okay, and -  
 23 MS. WEGRYNOWSKI:  
 24 A. Not necessarily because if you have your  
 25 internal controls and your internal controls

Page 124

1 are working -  
 2 MS. NEWBURY:  
 3 Q. Okay, and which internal controls are those?  
 4 MS. WEGRYNOWSKI:  
 5 A. In the breast tissue, the ductal epithelium.  
 6 MS. NEWBURY:  
 7 Q. Okay. You were asked this morning about  
 8 whether or not you or your lab monitors for  
 9 positivity of ER and PR results.  
 10 MS. WEGRYNOWSKI:  
 11 A. Yes.  
 12 MS. NEWBURY:  
 13 Q. And I'm not sure if that question was directed  
 14 at you or the lab. You indicated that you  
 15 don't monitor for -  
 16 MS. WEGRYNOWSKI:  
 17 A. I personally don't. I believe it's being  
 18 done. Perhaps you would like to ask Brendan  
 19 Mullen about that.  
 20 MS. NEWBURY:  
 21 Q. Okay. Are you personally involved in any  
 22 other type of monitoring of test results at  
 23 Mount Sinai, and I'll give you some examples?  
 24 Do you ever--are you personally involved in  
 25 monitoring by a type of cancer or grade of

Page 125

1 cancer or stage of cancer?  
 2 MS. WEGRYNOWSKI:  
 3 A. Myself, no.  
 4 MS. NEWBURY:  
 5 Q. No, okay, and the reason I ask, I had  
 6 mentioned to Dr. O'Malley, I'd asked whether  
 7 she was familiar with any procedures for  
 8 monitoring, and she believed that there are  
 9 standard operating procedures in place and she  
 10 thought that you would probably be able to go  
 11 into detail on that, but that's not in your  
 12 area, is it?  
 13 MS. WEGRYNOWSKI:  
 14 A. I take care of the standard operating  
 15 procedures on how to perform the  
 16 immunohistochemistry.  
 17 MS. NEWBURY:  
 18 Q. Okay.  
 19 MS. WEGRYNOWSKI:  
 20 A. But as far as grading of the tumors, no, I do  
 21 not do that.  
 22 MS. NEWBURY:  
 23 Q. Okay, but even monitoring some of your  
 24 results, looking for trends in, you know,  
 25 whether you get ER/PR positive results in

Page 126

1 certain types of cancer or certain grades of  
 2 cancer?  
 3 MS. WEGRYNOWSKI:  
 4 A. No.  
 5 MS. NEWBURY:  
 6 Q. That's not your area?  
 7 MS. WEGRYNOWSKI:  
 8 A. No.  
 9 MS. NEWBURY:  
 10 Q. Okay, and would it be Dr. Mullen who would  
 11 know about that or who would know?  
 12 MS. WEGRYNOWSKI:  
 13 A. Perhaps you could ask him, yes.  
 14 MS. NEWBURY:  
 15 Q. Okay, thank you. I noticed in your curriculum  
 16 vitae that you--and I'll refer to page three  
 17 of that. Actually, I forget the exhibit  
 18 number. That's 1730. And page three, you  
 19 were an invited lecturer at the NSH convention  
 20 Toronto?  
 21 MS. WEGRYNOWSKI:  
 22 A. Um-hm.  
 23 MS. NEWBURY:  
 24 Q. First of all, what is that convention? What  
 25 does that stand for?

Page 127

1 MS. WEGRYNOWSKI:  
 2 A. It's the National Society of Histotechnology.  
 3 MS. NEWBURY:  
 4 Q. Okay, and you participated in a lecture,  
 5 "Mapping the Molecular Pathways of Cancer:  
 6 The Role of IHC and the Importance of Tumor  
 7 Registries."  
 8 MS. WEGRYNOWSKI:  
 9 A. Um-hm.  
 10 MS. NEWBURY:  
 11 Q. Can you explain a little bit about that  
 12 particular lecture?  
 13 MS. WEGRYNOWSKI:  
 14 A. In that particular lecture, I presented it  
 15 with Dr. Aaron Pollett. So he took care of all  
 16 the pathologist's scope of practice and I took  
 17 care of the technological scope of practice.  
 18 In that particular lecture, one of the  
 19 challenges that we had faced was that we had  
 20 received slides from Europe and they had not  
 21 put the slides on a correct slide, and so what  
 22 we had done in that particular case was that  
 23 we had actually stripped the sections from the  
 24 slides and applied them to the correct slide  
 25 and then were able to go forward with the

Page 128

1 staining process. So rather complicated, but  
 2 that was part of my -  
 3 MS. NEWBURY:  
 4 Q. Okay, and how does the tumor registry and the  
 5 importance of tumor registries tie into that  
 6 particular lecture?  
 7 MS. WEGRYNOWSKI:  
 8 A. That was how we got--we would not have been  
 9 able to perform that particular testing had I  
 10 not done what I have done, so it was a  
 11 combination of how we used it on the  
 12 technological side and took it to the  
 13 pathology side.  
 14 MS. NEWBURY:  
 15 Q. Okay. So did you personally have any views on  
 16 the importance of tumor registries?  
 17 MS. WEGRYNOWSKI:  
 18 A. That was done by Dr. Aaron Pollett.  
 19 MS. NEWBURY:  
 20 Q. Okay, thank you. I just want to explore with  
 21 you a little bit about the role of  
 22 technologists in maintaining best practices in  
 23 a laboratory, and I guess the time and  
 24 resource commitment that's required of a  
 25 technologist to maintain those best practices,



Page 129

1 what can you say about, you know, what you  
 2 need to do or what other technologists in your  
 3 lab have to do to maintain best practices?  
 4 What sort of time commitment, what sort of  
 5 resource commitment is required for that?  
 6 MS. WEGRYNOWSKI:  
 7 A. It's a lot of paperwork. It's ensuring that  
 8 all the documentation is maintained. It's  
 9 ensuring that every single one of us are aware  
 10 of it. It comes right back down to the very  
 11 basis, ensuring those lots are in, ensuring  
 12 that we're stringent, ensuring that each of us  
 13 are doing it in the exact same manner. So  
 14 when we start getting to the EQA testing, it's  
 15 compiling all that information and it's  
 16 keeping current with our antibody data sheets.  
 17 It's recognizing that when you open up a new  
 18 vial, you must stop. You must go back to the  
 19 data sheets, ensure that that lot is there,  
 20 sign off on the open date of that. It's all  
 21 those intricacies that must be maintained.  
 22 MS. NEWBURY:  
 23 Q. Okay, and aside from what you do in the lab,  
 24 in terms of the documentation and all of those  
 25 procedures, what about the time commitment and

Page 130

1 resource commitment outside of the laboratory  
 2 setting, and I give, as an example, conducting  
 3 any of your reading. You mentioned that you  
 4 do a lot of reading.  
 5 MS. WEGRYNOWSKI:  
 6 A. I do.  
 7 MS. NEWBURY:  
 8 Q. Attending conferences, you know, reading  
 9 journals, that type of thing, continuing  
 10 medical education, what sort of a time  
 11 commitment would be involved with that?  
 12 MS. WEGRYNOWSKI:  
 13 A. I spend several hours a month doing that  
 14 myself.  
 15 MS. NEWBURY:  
 16 Q. Okay, and in terms of your ability to find the  
 17 time to do that, and I'm focusing not just on  
 18 your external activities, but your internal  
 19 lab activities, is there protected time for  
 20 technologists? When you walk in the door and  
 21 you've got a new procedure you need to, you  
 22 know, revise or update a standard operating  
 23 procedures manual or you need to validate  
 24 something because you have a new antibody that  
 25 you have to work with, do you have protected

Page 131

1 time as a technologist to do that or are you  
 2 expected to come in on the weekends or do this  
 3 -  
 4 MS. WEGRYNOWSKI:  
 5 A. It's part of my day-to-day activities.  
 6 MS. NEWBURY:  
 7 Q. And how do you handle that, in terms of, you  
 8 know, if you have so many tests that come  
 9 through your lab in the day time? I'm just  
 10 wondering, you know, really down to the  
 11 mechanics of how does that work. How do you  
 12 make sure that you're not being asked to do,  
 13 you know, 100 tests that day as well as do  
 14 your validation procedures and update your -  
 15 MS. WEGRYNOWSKI:  
 16 A. The validation procedures would be done with  
 17 the 100 tests that day, and validating the  
 18 procedures, it's like many of our jobs, we  
 19 juggle and we do the best that we can.  
 20 MS. NEWBURY:  
 21 Q. Okay. So there's no sort of routine practice  
 22 that you--you know, if you need to do  
 23 something, you'll have a half a day set aside  
 24 for that and shift the burden of -  
 25 MS. WEGRYNOWSKI:

Page 132

1 A. I try.  
 2 MS. NEWBURY:  
 3 Q. - some of the routine testing, okay. So you  
 4 just manage to do what you can with the time  
 5 that you have?  
 6 MS. WEGRYNOWSKI:  
 7 A. Yes.  
 8 MS. NEWBURY:  
 9 Q. Okay, and in terms of developing the standard  
 10 operating procedures, I take it there's some  
 11 team work involved in doing that?  
 12 MS. WEGRYNOWSKI:  
 13 A. Yes.  
 14 MS. NEWBURY:  
 15 Q. Okay, and who would be--who would take the  
 16 lead for developing standard operating  
 17 procedures, particularly as it relates to  
 18 ER/PR testing, as an example?  
 19 MS. WEGRYNOWSKI:  
 20 A. We have a quality manager and Gaman Modi would  
 21 be the person. There are very specific  
 22 guidelines written out by OLA and by CAP and  
 23 that is what we follow. We have our processes  
 24 all documented and the processes are all there  
 25 for our standard operating procedures.

Page 133

1 MS. NEWBURY:  
 2 Q. Okay. So you have procedures as to how to  
 3 develop your standard operating procedures  
 4 within the lab and you follow that?  
 5 MS. WEGRYNOWSKI:  
 6 A. Yes, and I believe that's what I used when I  
 7 gave my report. I gave, I think it's MCCLS,  
 8 whatever.  
 9 MS. NEWBURY:  
 10 Q. Okay, and in terms of the actual sort of  
 11 mechanics of validating a test or the  
 12 mechanics of putting together your manual, is  
 13 that primarily done, the actual work itself,  
 14 done by technologists or does the quality  
 15 manager get involved in that or are they just  
 16 overseeing the process?  
 17 MS. WEGRYNOWSKI:  
 18 A. It's done by the technologists.  
 19 MS. NEWBURY:  
 20 Q. Okay, and to what extent do pathologists or  
 21 pathologists assistants get involved, get  
 22 engaged in that process? Are they there to  
 23 help with any of the heavy lifting for that or  
 24 are they there to provide input or feedback at  
 25 the end of the day? How does that work?

Page 134

1 MS. WEGRYNOWSKI:  
 2 A. Perhaps I misunderstood your question. You  
 3 said pathologists and pathologists assistants?  
 4 MS. NEWBURY:  
 5 Q. Yes, do they have any role at all in the  
 6 standard operating procedures? Do they assist  
 7 with helping to develop it or do they just  
 8 provide feedback at the end of the day or do  
 9 they perhaps not even provide feedback?  
 10 MS. WEGRYNOWSKI:  
 11 A. The pathologists assistants have their own  
 12 manuals.  
 13 MS. NEWBURY:  
 14 Q. Okay.  
 15 MS. WEGRYNOWSKI:  
 16 A. And those manuals are a complete compilation  
 17 of how every single body type is used and they  
 18 have their own manuals for that.  
 19 MS. NEWBURY:  
 20 Q. Okay, so they have nothing to do with the  
 21 technologists' standard operating procedures?  
 22 MS. WEGRYNOWSKI:  
 23 A. No, we all have our own.  
 24 MS. NEWBURY:  
 25 Q. Okay, and pathologists have their own as well,

Page 135

1 do they?  
 2 MS. WEGRYNOWSKI:  
 3 A. Yes, they do.  
 4 MS. NEWBURY:  
 5 Q. Okay, but do pathologists get involved at all  
 6 in the technologists--do they have to approve  
 7 it or provide feedback in terms of -  
 8 MS. WEGRYNOWSKI:  
 9 A. They do.  
 10 MS. NEWBURY:  
 11 Q. They do, okay, and that's at the end of your--  
 12 I guess, your first draft of your manual?  
 13 MS. WEGRYNOWSKI:  
 14 A. When we're ready to sign off, they'll do--  
 15 they'll look back and they need to sign off on  
 16 it.  
 17 MS. NEWBURY:  
 18 Q. Okay, and who is able to initiate implementing  
 19 a new procedure? Is that done solely by  
 20 technologists or solely by pathologists or a  
 21 bit of both?  
 22 MS. WEGRYNOWSKI:  
 23 A. Collaborative.  
 24 MS. NEWBURY:  
 25 Q. Okay, and in terms of the quality assurance

Page 136

1 and quality control, are they prepared as  
 2 separate standard operating procedure manuals  
 3 or are they incorporated into manuals that you  
 4 do yourself?  
 5 MS. WEGRYNOWSKI:  
 6 A. They're incorporated into the one manual.  
 7 MS. NEWBURY:  
 8 Q. Okay, and would the quality manager be  
 9 involved in writing that or is that still the  
 10 responsibility of the technologist to prepare  
 11 that portion of the manual?  
 12 MS. WEGRYNOWSKI:  
 13 A. In my--what I've dealt with, it's been myself,  
 14 but the quality manager is always there if you  
 15 have any questions.  
 16 MS. NEWBURY:  
 17 Q. Okay. They're there as a resource?  
 18 MS. WEGRYNOWSKI:  
 19 A. Yes.  
 20 MS. NEWBURY:  
 21 Q. And do they have to sign off on the procedures  
 22 at the end of the day?  
 23 MS. WEGRYNOWSKI:  
 24 A. No.  
 25 MS. NEWBURY:

Page 137

1 Q. And would you also be involved in determining  
 2 any applicable external quality assurance  
 3 procedures or quality control procedures?  
 4 External proficiency testing, is that part of  
 5 your manual?  
 6 MS. WEGRYNOWSKI:  
 7 A. How we do it?  
 8 MS. NEWBURY:  
 9 Q. Yes.  
 10 MS. WEGRYNOWSKI:  
 11 A. Yes, and we have a manual that holds our EQA.  
 12 MS. NEWBURY:  
 13 Q. Okay, and that's something that you do  
 14 yourself, is it, or is that -  
 15 MS. WEGRYNOWSKI:  
 16 A. Yes, it comes in through the quality manager.  
 17 He will gather the documentation and it'll  
 18 come through me and then when the results  
 19 come, I will send the results out or my  
 20 findings out. The results, the information  
 21 will come back through him, back through me,  
 22 to me.  
 23 MS. NEWBURY:  
 24 Q. You've mentioned that a lot of your early  
 25 learning after you became a medical laboratory

Page 138

1 technologist came through workshops offered by  
 2 manufacturers?  
 3 MS. WEGRYNOWSKI:  
 4 A. Yes.  
 5 MS. NEWBURY:  
 6 Q. And is that something that's still present  
 7 today? Are manufacturers still out there  
 8 offering workshops?  
 9 MS. WEGRYNOWSKI:  
 10 A. I couldn't comment.  
 11 MS. NEWBURY:  
 12 Q. Okay. It's been mentioned a few times, and  
 13 you've referred to it yourself, that there are  
 14 no national standards as such applicable to  
 15 ER/PR testing and one example that you gave  
 16 this morning was the fixation.  
 17 MS. WEGRYNOWSKI:  
 18 A. Yes.  
 19 MS. NEWBURY:  
 20 Q. Three hours had been put into the fixation  
 21 policy document by Eastern Health, the draft  
 22 document that you were shown this morning, and  
 23 you thought that might be a little low, but  
 24 you commented that there are no national  
 25 standards in place, and I understand that

Page 139

1 there might be some work, some movement in  
 2 Canada to implement national standards. I'm  
 3 just wondering if you are aware of any  
 4 activity in that regard?  
 5 MS. WEGRYNOWSKI:  
 6 A. I've heard that that may be something that's  
 7 being looked at, yes.  
 8 MS. NEWBURY:  
 9 Q. And would you know any detail as to what types  
 10 of things might be standardized, if that were  
 11 to happen?  
 12 MS. WEGRYNOWSKI:  
 13 A. I don't know at this point.  
 14 MS. NEWBURY:  
 15 Q. Okay, and if there were national standards put  
 16 in place, and I guess it would depend on what  
 17 types of standards were there, do you know how  
 18 this would impact your work as a technologist?  
 19 I mean, would you still go through the things  
 20 that you've mentioned this morning about  
 21 validation of antibodies? Would you still be  
 22 involved in developing standard operating  
 23 procedures, notwithstanding, for example, a  
 24 new standardized procedure for ER/PR testing?  
 25 MS. WEGRYNOWSKI:

Page 140

1 A. If I understand your question correctly, if  
 2 there was standards that were required of us  
 3 from across the nation, then those standards  
 4 would put in place first. However, we would  
 5 continue to validate, maintaining the  
 6 stringencies of whatever were put in place for  
 7 the nation.  
 8 MS. NEWBURY:  
 9 Q. Okay, so is it fair to say that many of the  
 10 things that you would do would not necessarily  
 11 be standardized or is that too difficult for  
 12 you to predict?  
 13 MS. WEGRYNOWSKI:  
 14 A. I think I'm misunderstanding the question.  
 15 MS. NEWBURY:  
 16 Q. I guess what I'm trying to get at is what  
 17 types of things would you anticipate would be  
 18 standardized if national standards were to be  
 19 put in place, and how would that impact upon  
 20 what is left for you to do as a technologist?  
 21 MS. WEGRYNOWSKI:  
 22 A. I wouldn't want to speculate.  
 23 MS. NEWBURY:  
 24 Q. Okay. If a technologist is fully versed and  
 25 skilled at developing standard operating

Page 141

1 procedures and to conduct validation, which I  
 2 understand is something that you're fully  
 3 capable of doing, based on your experience and  
 4 your education. Does that help you as a  
 5 technologist in troubleshooting problems?  
 6 MS. WEGRYNOWSKI:  
 7 A. Yes.  
 8 MS. NEWBURY:  
 9 Q. The fact that you're so well versed in  
 10 developing standard operating procedures, the  
 11 fact that you have experience in validating  
 12 test procedures, that helps you with  
 13 troubleshooting?  
 14 MS. WEGRYNOWSKI:  
 15 A. It's the validation that assists with the  
 16 troubleshooting, yes.  
 17 MS. NEWBURY:  
 18 Q. Okay, it's the validation and not so much the  
 19 standard operating procedures.  
 20 MS. WEGRYNOWSKI:  
 21 A. Correct.  
 22 MS. NEWBURY:  
 23 Q. And would you expect that all technologists  
 24 would have capability of validating tests,  
 25 validating equipment, validating antibodies

Page 142

1 that are being used, is that something that  
 2 you would expect of each and every  
 3 technologist or is it left to someone in  
 4 charge of that division?  
 5 MS. WEGRYNOWSKI:  
 6 A. I couldn't speak for all technologists.  
 7 MS. NEWBURY:  
 8 Q. But just from your expectation, what would you  
 9 like to see happen in your own lab?  
 10 MS. WEGRYNOWSKI:  
 11 A. I think that that certainly could fit under  
 12 the scope of practice.  
 13 MS. NEWBURY:  
 14 Q. Okay. You had indicated yesterday that Mary  
 15 Butler seemed uncomfortable with the task of  
 16 developing standard operating procedures, did  
 17 I capture that correctly?  
 18 MS. WEGRYNOWSKI:  
 19 A. Yes.  
 20 MS. NEWBURY:  
 21 Q. Okay, and again, that's your observations and  
 22 that's understandable. Do you know, based on  
 23 your discussions with her, whether she was  
 24 aware, prior to arriving at Mount Sinai, that  
 25 this was an activity expected of her while she

Page 143

1 was there?  
 2 MS. WEGRYNOWSKI:  
 3 A. I couldn't speak to what Mary Butler was told.  
 4 MS. NEWBURY:  
 5 Q. Okay, she didn't mention anything to you that  
 6 she was taken off guard with that or any  
 7 comment of that type?  
 8 MS. WEGRYNOWSKI:  
 9 A. No.  
 10 MS. NEWBURY:  
 11 Q. And is there anything that you would expect in  
 12 the background of a technologist that would  
 13 enable that individual to develop standard  
 14 operating procedures? I mean, how does  
 15 someone--how is someone trained to develop a  
 16 standard operating procedure?  
 17 MS. WEGRYNOWSKI:  
 18 A. Well there are guidelines out there on how a  
 19 standard operating procedure can be written  
 20 and I provided that documentation to them.  
 21 The standard operating procedures is simply  
 22 what you are doing, so if you were versed in  
 23 what--if you knew -  
 24 MS. NEWBURY:  
 25 Q. Do you ever run across a situation where

Page 144

1 someone knows what they're doing, but sort of  
 2 getting it down on paper in a format that's  
 3 understandable by their peers or colleagues,  
 4 you know, is a little bit of a different skill  
 5 or separate art that they may not be  
 6 comfortable with, I mean, just the writing  
 7 skills alone, for example.  
 8 MS. WEGRYNOWSKI:  
 9 A. Right. Mary was not comfortable with using  
 10 the computer.  
 11 MS. NEWBURY:  
 12 Q. Okay, thank you.  
 13 MS. WEGRYNOWSKI:  
 14 A. You're welcome.  
 15 MS. NEWBURY:  
 16 Q. So you don't know then if she had a different  
 17 computer system whether she would be more  
 18 comfortable with actually preparing the  
 19 standard operating procedures? It wasn't the  
 20 substance, it was more the mechanics of it?  
 21 MS. WEGRYNOWSKI:  
 22 A. It was using Word.  
 23 MS. NEWBURY:  
 24 Q. Okay, well that's understandable. I believe  
 25 in early September, 2005, you received some

Page 145

1 preliminary information from Barry Dyer and he  
 2 had indicated that their IHC lab, I believe,  
 3 does about 80 immunos a day, among their three  
 4 rotating staff.  
 5 MS. WEGRYNOWSKI:  
 6 A. Uh-hm.  
 7 MS. NEWBURY:  
 8 Q. I think that was the evidence that you gave  
 9 yesterday. And would all of these immuno  
 10 tests have standard operating procedures?  
 11 MS. WEGRYNOWSKI:  
 12 A. They should.  
 13 MS. NEWBURY:  
 14 Q. So it doesn't depend upon the type of tests or  
 15 the purpose of the test as to whether or not  
 16 you have standard operating procedures?  
 17 MS. WEGRYNOWSKI:  
 18 A. Correct.  
 19 MS. NEWBURY:  
 20 Q. So the fact that a test is not a class 2 test  
 21 used for treatment would not mean that we  
 22 won't bother with standard operating  
 23 procedures?  
 24 MS. WEGRYNOWSKI:  
 25 A. That's correct.

Page 146

1 MS. NEWBURY:  
 2 Q. And do you have any knowledge if the  
 3 technologists at Eastern Health, any of the  
 4 ones that you encountered, I guess, and from  
 5 your discussions with them, have familiarity  
 6 in developing just the general task of  
 7 developing standard operating procedures?  
 8 MS. WEGRYNOWSKI:  
 9 A. I couldn't comment to that.  
 10 MS. NEWBURY:  
 11 Q. You've discussed some comparison or  
 12 contrasting between CAP, the College of  
 13 American Pathologist's program for external  
 14 quality assurance and NEQAS, I believe, and I  
 15 just want to make sure I understand one of the  
 16 distinctions that you had identified and what  
 17 I took from what you said, NEQAS has its own  
 18 assessors to do the tests; where as CAP, the  
 19 results are compared from different--so you  
 20 send out your test results to a bunch of  
 21 people and you compare one with the other.  
 22 MS. WEGRYNOWSKI:  
 23 A. Yes.  
 24 MS. NEWBURY:  
 25 Q. So CAP doesn't have its own assessors?

Page 147

1 MS. WEGRYNOWSKI:  
 2 A. No, the assessors for CAP do their inspections  
 3 on site, but we don't send our slides for the  
 4 EQA to them in that manner, that is correct.  
 5 MS. NEWBURY:  
 6 Q. And are there any other differences between  
 7 the two programs in terms of the frequency of  
 8 the program, the percentages or the numbers of  
 9 tests done through each program on an annual  
 10 basis?  
 11 MS. WEGRYNOWSKI:  
 12 A. I'm trying to recall. I couldn't comment on  
 13 that, but what I could say is with CAP it's a  
 14 very general, so you would get four cases,  
 15 they can be a compilation of different disease  
 16 types, different tissue types, with UK NEQAS,  
 17 you can sign up for particular modules, so  
 18 that you can sign up for a general pathology  
 19 module, an ER module and so on, so they're  
 20 different in that respect. Does that answer  
 21 your question?  
 22 MS. NEWBURY:  
 23 Q. It certainly does, yes. So CAP then wouldn't  
 24 necessarily be able to assist you if you've  
 25 got a concern about ER/PR testing, in terms of

Page 148

1 your external quality assurance--or is it done  
 2 random?  
 3 MS. WEGRYNOWSKI:  
 4 A. I couldn't comment on that.  
 5 MS. NEWBURY:  
 6 Q. Okay. Are you familiar at all with the  
 7 Accreditation Canada, the Canadian Council of  
 8 Health Services Accreditation?  
 9 MS. WEGRYNOWSKI:  
 10 A. I have very little knowledge on that.  
 11 MS. NEWBURY:  
 12 Q. And you, I believe in your resume and your  
 13 evidence indicated that you have been an  
 14 inspector with CAP?  
 15 MS. WEGRYNOWSKI:  
 16 A. Yes, I have.  
 17 MS. NEWBURY:  
 18 Q. And an assessor with OLA?  
 19 MS. WEGRYNOWSKI:  
 20 A. I wrote my exams for them, but I never went  
 21 out and assessed.  
 22 MS. NEWBURY:  
 23 Q. Okay. And how many inspections have you done  
 24 under the CAP program?  
 25 MS. WEGRYNOWSKI:

Page 149

1 A. Two.  
 2 MS. NEWBURY:  
 3 Q. Pardon?  
 4 MS. WEGRYNOWSKI:  
 5 A. Two.  
 6 MS. NEWBURY:  
 7 Q. I just wanted to ask you a couple of  
 8 questions, I guess on the comparison between  
 9 internal quality control procedures and  
 10 external quality assurance procedures, just to  
 11 try and get a better understanding in my mind  
 12 as to how they each work. Do internal quality  
 13 control procedures enable a lab to detect a  
 14 possible problem with testing, more or less  
 15 contemporaneously with the testing?  
 16 MS. WEGRYNOWSKI:  
 17 A. Yes.  
 18 MS. NEWBURY:  
 19 Q. And does this enable the lab to take  
 20 corrective action right away?  
 21 MS. WEGRYNOWSKI:  
 22 A. Yes.  
 23 MS. NEWBURY:  
 24 Q. And so would that typically be within, say if  
 25 a biopsy is done or if there's a surgical

Page 150

1 excision, would it be normally within days  
 2 that a problem might be identified and then  
 3 corrected or -  
 4 MS. WEGRYNOWSKI:  
 5 A. It would depend on the circumstances.  
 6 MS. NEWBURY:  
 7 Q. Okay, and in terms of ER/PR testing, when  
 8 would you expect to identify a problem through  
 9 internal quality control procedures?  
 10 MS. WEGRYNOWSKI:  
 11 A. That's a very difficult question to answer.  
 12 MS. NEWBURY:  
 13 Q. There is no sort of set -  
 14 MS. WEGRYNOWSKI:  
 15 A. It would depend on the circumstances.  
 16 MS. NEWBURY:  
 17 Q. Okay, is it fair to say that many of the  
 18 problems could be detected while the  
 19 technologist is actually preparing the slides  
 20 for the testing?  
 21 MS. WEGRYNOWSKI:  
 22 A. Not necessarily preparing the slides,  
 23 preparing the slides if something was  
 24 recognized that was abhorrent about the block,  
 25 that would certainly be recorded. If the

Page 151

1 controls failed for that particular day, the  
 2 testing would not go forward.  
 3 MS. NEWBURY:  
 4 Q. Okay, that's the testing on anything in the  
 5 lab or -  
 6 MS. WEGRYNOWSKI:  
 7 A. Correct.  
 8 MS. NEWBURY:  
 9 Q. And if you have optimal quality control  
 10 procedures in place, would that, in theory,  
 11 enable the lab to detect problems on each and  
 12 every slide or each and every test that's  
 13 conducted?  
 14 MS. WEGRYNOWSKI:  
 15 A. It would assist, yes.  
 16 MS. NEWBURY:  
 17 Q. And I guess the advantage of that is that you  
 18 could take corrective action to prevent that  
 19 slide from continuing on for the next number  
 20 of tests that are coming out that day or that  
 21 week.  
 22 MS. WEGRYNOWSKI:  
 23 A. Correct.  
 24 MS. NEWBURY:  
 25 Q. And would it also enable the lab to take steps

Page 152

1 to be able to do the test properly?  
 2 MS. WEGRYNOWSKI:  
 3 A. Yes, if you recognize there is a problem, you  
 4 need to stop it and determine what the problem  
 5 was and then restart.  
 6 MS. NEWBURY:  
 7 Q. Okay, so if you discover a problem on a  
 8 particular patient slide, then you can--would  
 9 you expect that you can definitely correct the  
 10 problem so that you can give a full report to  
 11 the pathologist for that particular patient--  
 12 or that the pathologist can give a full report  
 13 to that particular patient?  
 14 MS. WEGRYNOWSKI:  
 15 A. This is a hypothetical?  
 16 MS. NEWBURY:  
 17 Q. Yes.  
 18 MS. WEGRYNOWSKI:  
 19 A. If there was a problem with it and for  
 20 example, it would depend on whether or not it  
 21 was an in-house case or a consult case,  
 22 because then we need to go back and say how  
 23 was this handled from the very beginning and  
 24 actually look at that particular case.  
 25 MS. NEWBURY:

Page 153

1 Q. Okay. So in terms of in-house consults, does  
 2 that give you more flexibility in terms of  
 3 being able to sort out what the source of the  
 4 problem is, with a view to giving--ultimately  
 5 the pathologist being able to give a report?  
 6 MS. WEGRYNOWSKI:  
 7 A. It it's an in-house case, there's much more  
 8 tracking that can be done.  
 9 MS. NEWBURY:  
 10 Q. Okay, so that's an advantage over in-house  
 11 consults verses something coming from outside  
 12 the organization?  
 13 MS. WEGRYNOWSKI:  
 14 A. Yes.  
 15 MS. NEWBURY:  
 16 Q. And when a problem is detected and you go back  
 17 and try to trace what happened and to take  
 18 steps, I guess, to get--I assume that the view  
 19 that you have is to try to do the test  
 20 properly so that you can give valid results,  
 21 ultimately--you and I mean the organization  
 22 can give valid results ultimately to the  
 23 patient who is being tested. When you  
 24 encounter a problem with a single patient  
 25 slide, for example or anything with the block

Page 154

1 or anything along the way that calls into  
 2 question the validity--the possibility of you  
 3 giving valid results ultimately to the  
 4 patient, I understand from your evidence  
 5 yesterday that you do have some document  
 6 procedures to follow?  
 7 MS. WEGRYNOWSKI:  
 8 A. Yes, we have, what we refer to as a client  
 9 satisfaction form and it provides the  
 10 technologist with the opportunity to provide  
 11 that information to the pathologists, so that  
 12 when the slides are given to the pathologists  
 13 at the end of business day, they have that  
 14 information that they can take to use when  
 15 they are writing their reports.  
 16 MS. NEWBURY:  
 17 Q. And if you have discovered a problem that  
 18 might affect multiple patients and multiple  
 19 samples, do you follow that same procedure of  
 20 completing a client satisfaction form?  
 21 MS. WEGRYNOWSKI:  
 22 A. Yes.  
 23 MS. NEWBURY:  
 24 Q. And would they be individual forms, say if you  
 25 had 50 tests that are in question, would you

Page 155

1 have 50 separate client satisfaction forms  
 2 going to -  
 3 MS. WEGRYNOWSKI:  
 4 A. I've not ever experienced that, so I couldn't  
 5 comment to that.  
 6 MS. NEWBURY:  
 7 Q. Have you ever experienced a case where you had  
 8 more than one problem at a time, you know,  
 9 sort of in a group?  
 10 MS. WEGRYNOWSKI:  
 11 A. If it was going to one pathologist, they  
 12 should have--well, you know, it's possible  
 13 they could all be put on one form and it's  
 14 possible they could have--if it was the same  
 15 problem, I could see somebody putting more  
 16 than one number, if it's going to the same  
 17 pathologist, I could also see separate forms  
 18 being done, so I think that mix could be  
 19 there.  
 20 MS. NEWBURY:  
 21 Q. And would you expect that the record would  
 22 ultimately be available to the patient in  
 23 question? Would that form part of that  
 24 patient's health record?  
 25 MS. WEGRYNOWSKI:

Page 156

1 A. You know, I couldn't comment on that, I  
 2 wouldn't know that.  
 3 MS. NEWBURY:  
 4 Q. And in terms of comparing the internal quality  
 5 procedures with the external quality  
 6 assurance, is it fair to say that depending on  
 7 the frequency of your external quality  
 8 assurance, that if you have a problem in a  
 9 lab, it may not be detected contemporaneously  
 10 with the testing?  
 11 MS. WEGRYNOWSKI:  
 12 A. My goodness, internal quality control is there  
 13 to ensure that on a daily basis you are  
 14 providing reproducible results. The external  
 15 quality assurance, you're comparing yourself  
 16 with others.  
 17 MS. NEWBURY:  
 18 Q. Uh-hm.  
 19 MS. WEGRYNOWSKI:  
 20 A. If the issue is occurring, your internal  
 21 quality control should be picking this up.  
 22 MS. NEWBURY:  
 23 Q. Right, so is the external quality assurance  
 24 more of a safety net? Your first recourse, I  
 25 assume, would be to look to quality control

Page 157

1 procedures and to try to identify immediately  
 2 any problems that you have with slides and  
 3 with test results for IHC testing.  
 4 MS. WEGRYNOWSKI:  
 5 A. Yes.  
 6 MS. NEWBURY:  
 7 Q. And you wouldn't look first to external  
 8 quality assurance?  
 9 MS. WEGRYNOWSKI:  
 10 A. No, I would not.  
 11 MS. NEWBURY:  
 12 Q. And is that why this morning you commented  
 13 that you wouldn't start at the bottom with the  
 14 external quality assurance? I think that was  
 15 a comment that you made earlier this morning,  
 16 with the NEQAS program.  
 17 MS. WEGRYNOWSKI:  
 18 A. I'm sorry, you -  
 19 MS. NEWBURY:  
 20 Q. I'm just trying to understand what your  
 21 evidence was this morning. You had mentioned  
 22 at some point in time when you were looking at  
 23 what had been done by Eastern Health between  
 24 your first visit and your second visit, that  
 25 one of the things that they did was to sign up

Page 158

1 for the NEQAS program and you were happy with  
 2 that.  
 3 MS. WEGRYNOWSKI:  
 4 A. Okay.  
 5 MS. NEWBURY:  
 6 Q. But you thought that that might not be  
 7 starting in the first logical place, that  
 8 perhaps they did this, whereas they should  
 9 have focused on doing something else first.  
 10 MS. WEGRYNOWSKI:  
 11 A. I understand the question now. Thank you for  
 12 explaining it to me.  
 13 MS. NEWBURY:  
 14 Q. Yes, okay.  
 15 MS. WEGRYNOWSKI:  
 16 A. I concur with what you're saying, it's one  
 17 thing to say that yes, they went ahead and  
 18 they did the external quality assurance, which  
 19 is really terrific and they were comparing  
 20 themselves amongst their peers, but you need  
 21 to take care of the nuts and bolts that you're  
 22 doing on a daily basis.  
 23 MS. NEWBURY:  
 24 Q. And the nuts and bolts that you're doing on a  
 25 daily basis, that can potentially pick up--if

Page 159

1 they're done optimally, they can pick up  
 2 problems on each and every slide for each and  
 3 every patient -  
 4 MS. WEGRYNOWSKI:  
 5 A. They should.  
 6 MS. NEWBURY:  
 7 Q. - whereas the external quality assurance, if  
 8 that's all you rely upon or if that's what you  
 9 rely upon primarily, it doesn't have that same  
 10 benefit.  
 11 MS. WEGRYNOWSKI:  
 12 A. No, it does not.  
 13 MS. NEWBURY:  
 14 Q. And it doesn't have the benefit of  
 15 identifying, you know, if you're doing it  
 16 every two or three years or twice a year, then  
 17 you might have to wait until that six-month  
 18 period to identify that there is even a  
 19 problem in your lab?  
 20 MS. WEGRYNOWSKI:  
 21 A. Correct.  
 22 MS. NEWBURY:  
 23 Q. And what happens if a problem is detected  
 24 through an external quality assurance program,  
 25 such as NEQAS or the CAP? How do you respond

Page 160

1 in the lab to that?  
 2 MS. WEGRYNOWSKI:  
 3 A. I haven't had experience to tell you how that  
 4 would occur.  
 5 MS. NEWBURY:  
 6 Q. Okay, would you have any standard operating  
 7 procedures in place to say if and when the  
 8 time comes that we have a problem identified,  
 9 this is what we are to do?  
 10 MS. WEGRYNOWSKI:  
 11 A. There could very well be in the actual  
 12 laboratory one.  
 13 MS. NEWBURY:  
 14 Q. Okay, you don't know that offhand?  
 15 MS. WEGRYNOWSKI:  
 16 A. Yes, I don't have that one offhand.  
 17 MS. NEWBURY:  
 18 Q. I believe you've indicated that you do a fair  
 19 amount of global consultancy work as part of  
 20 your own practice and that relates to ER/PR  
 21 testing, I guess, as well as other IHC  
 22 testing. When you do this consultancy work,  
 23 what are the types of results that you can  
 24 provide to the person seeking your advice?  
 25 MS. WEGRYNOWSKI:



Page 161

1 A. You need to speak to Brendan Mullen about this  
 2 because this is part of our service work.  
 3 MS. NEWBURY:  
 4 Q. Okay, so that's not something that you can  
 5 speak to.  
 6 MS. WEGRYNOWSKI:  
 7 A. No.  
 8 MS. NEWBURY:  
 9 Q. I'd like to refer to exhibit P-0110 please?  
 10 This is not a document that you're familiar  
 11 with, I wouldn't expect. This is an excerpt  
 12 of a transcript of a news conference, dated  
 13 May 18th, 2007 and George Tilley, who was a  
 14 former CEO of Eastern Health, was speaking at  
 15 that particular conference and made a couple  
 16 of comments that I just want to ask you about  
 17 to see if you are familiar at all with these  
 18 ideas. I'd like to refer to page 3 of that  
 19 exhibit, please? So about midway down the  
 20 page there is a large quote attributed to  
 21 George Tilley, and I'll just read it out for  
 22 you, "We saw a change in results for 317  
 23 patients and as you point out, there is an  
 24 element of uncertainty in this particular test  
 25 and it's quite well known, both nationally and

Page 162

1 internationally, when we first became aware of  
 2 this and decided to suspend treatment, our  
 3 physicians and technologists spent a great  
 4 deal of time looking inside the organization,  
 5 looking at the procedure for that test. We  
 6 also sought the input of technologists, a  
 7 technologist and a physician more independent  
 8 of the organization, to come and give us an  
 9 objective assessment as to what we do and how  
 10 we do it. I recall that the comment of the  
 11 physician were that he considered us to be in  
 12 the middle of the pack, in terms of laboratory  
 13 services with regards to ER/PR." And he goes  
 14 on to say that he's not satisfied with being  
 15 in the middle of the pack and they want to be  
 16 amongst the top laboratories for this  
 17 procedure in the country. And now during Mr.  
 18 Tilley's evidence, he had indicated that he  
 19 had not spoken directly to the physician and  
 20 was a little unsure as to whether he spoke  
 21 with the physician or the technologist, which  
 22 I understand from his evidence could be either  
 23 you or Dr. Banerjee. First of all, did you  
 24 ever make this comment?  
 25 MS. WEGRYNOWSKI:

Page 163

1 A. No.,  
 2 MS. NEWBURY:  
 3 Q. And would you have agreed with that comment if  
 4 it had been suggested to you?  
 5 MS. WEGRYNOWSKI:  
 6 A. I can't comment on that.  
 7 MS. NEWBURY:  
 8 Q. Is it fair to say that if Eastern Health lab,  
 9 that the IHC lab, as it relates to ER/PR  
 10 testing, was in the middle of the pack in  
 11 terms of the laboratory services, that you  
 12 would not have been surprised about the  
 13 absence of standard operating procedures? I'm  
 14 just wondering if that remark about being in  
 15 the middle of the pack is at all surprising to  
 16 you, from your perspective, just in terms of  
 17 what you saw in your own review of the lab?  
 18 MS. WEGRYNOWSKI:  
 19 A. Could you rephrase this for me, please?  
 20 MS. NEWBURY:  
 21 Q. I'm just wondering if you, you said that you  
 22 can't comment on whether or not Eastern Health  
 23 could be considered to be in the middle of the  
 24 pack, in terms of laboratory services, but  
 25 you've indicated yesterday and again today,

Page 164

1 that you were surprised by the absence of  
 2 standard operating procedures, and I take it  
 3 that, you know, if the middle of the pack--if  
 4 this lab were in the middle of the pack, then  
 5 you wouldn't be as surprised about the lack of  
 6 standard operating procedures because it might  
 7 mean that many other labs don't have standard  
 8 operating procedures.  
 9 MS. WEGRYNOWSKI:  
 10 A. No, no, laboratories--I would be surprised if  
 11 middle of the pack meant that, no.  
 12 MS. NEWBURY:  
 13 Q. So from your perspective then, you don't agree  
 14 that Eastern Health is in the middle of the  
 15 pack, in terms of what the technologists are  
 16 doing, the procedures that they have in place  
 17 at the lab?  
 18 MS. WEGRYNOWSKI:  
 19 A. In respect to standard operating procedures  
 20 being absent?  
 21 MS. NEWBURY:  
 22 Q. Yes.  
 23 MS. WEGRYNOWSKI:  
 24 A. Then that is not middle of the pack.  
 25 MS. NEWBURY:

Page 165

1 Q. Okay, is there anything else that would not be  
 2 considered middle of the pack from your  
 3 perspective?  
 4 MS. WEGRYNOWSKI:  
 5 A. I think my report outlines what I had to say.  
 6 MS. NEWBURY:  
 7 Q. Did anyone at Eastern Health ever ask you  
 8 where does the lab fit in, how does this  
 9 particular lab compare with other labs in  
 10 Canada?  
 11 MS. WEGRYNOWSKI:  
 12 A. No.  
 13 MS. NEWBURY:  
 14 Q. Are you aware of any labs in Canada that don't  
 15 have any standard operating procedures for  
 16 tests such as ER/PR testing?  
 17 MS. WEGRYNOWSKI:  
 18 A. I do not have that information.  
 19 MS. NEWBURY:  
 20 Q. Did you ever have any interaction with the  
 21 physician who conducted the external review,  
 22 that's Dr. Banerjee?  
 23 MS. WEGRYNOWSKI:  
 24 A. I've never met him.  
 25 MS. NEWBURY:

Page 166

1 Q. You've never met him, okay. You never spoke  
 2 to him on the phone?  
 3 MS. WEGRYNOWSKI:  
 4 A. No.  
 5 MS. NEWBURY:  
 6 Q. Okay, did you ever share, you know, through e-  
 7 mail or have any information exchanged with  
 8 him, perhaps indirectly?  
 9 MS. WEGRYNOWSKI:  
 10 A. Not to my knowledge.  
 11 MS. NEWBURY:  
 12 Q. Do you think it would have been of benefit for  
 13 you to have shared your findings with each  
 14 other?  
 15 MS. WEGRYNOWSKI:  
 16 A. No.  
 17 MS. NEWBURY:  
 18 Q. Yours is a stand alone -  
 19 MS. WEGRYNOWSKI:  
 20 A. I think it was more interesting for me to have  
 21 the opportunity to read his reports at the end  
 22 and recognize how I feel that both our reports  
 23 collaborate each others.  
 24 MS. NEWBURY:  
 25 Q. Right, okay. You've mentioned from time to

Page 167

1 time about the communication, the importance  
 2 of having communication between technologists  
 3 and pathologists, so I was just wondering if  
 4 that, you know, if that would have been of any  
 5 benefit at all for you to do that. But you  
 6 did find that sharing--or reading his findings  
 7 were useful to you?  
 8 MS. WEGRYNOWSKI:  
 9 A. Yes.  
 10 MS. NEWBURY:  
 11 Q. Or informative, perhaps would be a better  
 12 word?  
 13 MS. WEGRYNOWSKI:  
 14 A. Correct.  
 15 MS. NEWBURY:  
 16 Q. Do you think it would have been helpful to  
 17 Eastern Health for you to have returned to do  
 18 a final review of the lab once it had  
 19 completed recommendations that you had set out  
 20 in your two reports?  
 21 MS. WEGRYNOWSKI:  
 22 A. That would have been up to Eastern Health to  
 23 determine.  
 24 MS. NEWBURY:  
 25 Q. But do you think, from your perspective, that

Page 168

1 it would have been helpful?  
 2 MS. WEGRYNOWSKI:  
 3 A. From what I understand that QMPLS has come  
 4 since then and I think that they -  
 5 MS. NEWBURY:  
 6 Q. Okay, so they would basically be able to do  
 7 the types of things that you would have done,  
 8 had you done your return visit?  
 9 MS. WEGRYNOWSKI:  
 10 A. Absolutely.  
 11 MS. NEWBURY:  
 12 Q. Thank you, Ms. Wegrynowski, those are all my  
 13 questions.  
 14 MS. WEGRYNOWSKI:  
 15 A. Thank you.  
 16 THE COMMISSIONER:  
 17 Q. Mr. Crosbie?  
 18 MR. PRITCHARD:  
 19 Q. Commissioner?  
 20 THE COMMISSIONER:  
 21 Q. Yes.  
 22 MR. PRITCHARD:  
 23 Q. Sorry, I don't mean to interrupt, but I wonder  
 24 if at some point before the Commission counsel  
 25 re-direct if I would be permitted to ask one

Page 169

1 or two follow up questions.  
 2 THE COMMISSIONER:  
 3 Q. Follow up to the questioning that you had  
 4 asked, as opposed to -  
 5 MR. PRITCHARD:  
 6 Q. Yes, it's not in response to -  
 7 THE COMMISSIONER:  
 8 Q. Oh, I'm sorry, okay. All right then. Mr.  
 9 Crosbie?  
 10 CROSBIE, Q.C.:  
 11 Q. Thank you.  
 12 MS. TRISH WEGRYNOWSKI, EXAMINATION BY CHES CROSBIE, Q.C.  
 13 CROSBIE, Q.C.:  
 14 Q. Good morning, I introduced myself yesterday,  
 15 Ches Crosbie and I think you know who I  
 16 represent.  
 17 MS. WEGRYNOWSKI:  
 18 A. I do.  
 19 CROSBIE, Q.C.:  
 20 Q. Perhaps there's a bit of housekeeping business  
 21 to do first, Commissioner. There's a few  
 22 documents, so I'd ask to enter as exhibits -  
 23 THE COMMISSIONER:  
 24 Q. I understood it was 1850, 51, 52 and 53, is  
 25 that correct?

Page 170

1 CROSBIE, Q.C.:  
 2 Q. That is correct.  
 3 THE COMMISSIONER:  
 4 Q. Entered.  
 5 EXHIBITS ENTERED AND MARKED P-1850, P-1851, P-1852 AND P-  
 6 1853  
 7 CROSBIE, Q.C.:  
 8 Q. Do I need to describe them or are they -  
 9 THE COMMISSIONER:  
 10 Q. No, I've been provided--the Registrar has  
 11 provided me with a list of what you intended  
 12 to enter, so that's fine, thank you.  
 13 CROSBIE, Q.C.:  
 14 Q. Good, so that's taken care of, thank you. So  
 15 these are entered then, Madam Commissioner,  
 16 thank you very much. Let me ask you, you may  
 17 have stated this before, but what did you  
 18 understand about the quality or end result of  
 19 the product that was being turned out in  
 20 relation to staining before you came and did  
 21 your first investigation or your first report  
 22 here. Did you understand there was a problem  
 23 and if so, what as the problem?  
 24 MS. WEGRYNOWSKI:  
 25 A. The information that I was given was what I

Page 171

1 wrote in my report that there had been a  
 2 conversion of a patient and that they had gone  
 3 back to look at the ER/PR, that was all I was  
 4 given.  
 5 CROSBIE, Q.C.:  
 6 Q. So you didn't have information about the  
 7 dimension of the problem being on the one  
 8 conversion?  
 9 MS. WEGRYNOWSKI:  
 10 A. I had simply what was written in my reports.  
 11 CROSBIE, Q.C.:  
 12 Q. Thank you. You may have been asked this  
 13 question in other terms, but I'll try a  
 14 different term, if you knew nothing about the  
 15 quality of the stains being produced by the  
 16 lab here -  
 17 MS. WEGRYNOWSKI:  
 18 A. Yes.  
 19 CROSBIE, Q.C.:  
 20 Q. What would you expect that to be, from what  
 21 you observed when you came and did your  
 22 examination of the facility?  
 23 MS. WEGRYNOWSKI:  
 24 A. I can't comment to that because I never looked  
 25 at any of the slides while I was here either.

Page 172

1 CROSBIE, Q.C.:  
 2 Q. Okay, so you can't draw a link, you're not in  
 3 a position to draw any link between the state  
 4 of organization or disorganization of the lab  
 5 and the quality of the end product it was  
 6 producing? That's just not something you  
 7 evaluated?  
 8 MS. WEGRYNOWSKI:  
 9 A. That's correct.  
 10 CROSBIE, Q.C.:  
 11 Q. Can we have exhibit P-0101, Madam Registrar?  
 12 This is the Dr. Carter letter that was looked  
 13 at yesterday.  
 14 MS. WEGRYNOWSKI:  
 15 A. Right.  
 16 CROSBIE, Q.C.:  
 17 Q. Can you take us to page two, please? The foot  
 18 of page two--must be three then. Thank you.  
 19 The end paragraph there ends up saying "I  
 20 would be happy after a presentation by Mr.  
 21 Dyer proving"--and emphasis is given to that  
 22 word--"that all of the above have occurred and  
 23 a tour of the immunohistochemistry laboratory  
 24 to review the changes made to advise my  
 25 clinical colleagues at our laboratory and the

Page 173

1 results it generates are reliable, accurate  
 2 and not dangerous to those Newfoundlanders and  
 3 Labradorians having breast cancer." The  
 4 premise there is Dr. Carter, I guess, is  
 5 asking for a demonstration or proof that  
 6 things have been fixed and that the end  
 7 result, the product of the lab in relation to  
 8 ER/PR testing in particular is not dangerous,  
 9 is that a fair summary?  
 10 MS. WEGRYNOWSKI:  
 11 A. Correct.  
 12 CROSBIE, Q.C.:  
 13 Q. If I told you that the false negative rate in  
 14 the period from 1997 through 2005 was in the  
 15 neighbourhood of 44 percent, are you in any  
 16 position to--do your qualifications enable you  
 17 to evaluate the safety or dangerousness of  
 18 that kind of result?  
 19 MS. WEGRYNOWSKI:  
 20 A. I think you best ask Brendan Mullen.  
 21 CROSBIE, Q.C.:  
 22 Q. Then that's what I'll do, thank you. I don't  
 23 know if you're in a position to help us out  
 24 and there may be someone who is in a better  
 25 position to do that, but we've heard tell of

Page 174

1 an organization called the CCHA, I guess the  
 2 Canadian Council on Health Services  
 3 Accreditation, it used to be called, is that  
 4 right?  
 5 MS. WEGRYNOWSKI:  
 6 A. I'm not familiar with that acronym.  
 7 CROSBIE, Q.C.:  
 8 Q. And I think we heard from Dr. Pritzker, it's  
 9 now got a new name, Accreditation Canada?  
 10 MS. WEGRYNOWSKI:  
 11 A. Okay.  
 12 CROSBIE, Q.C.:  
 13 Q. These are the people who go around and, you  
 14 know, I want to check your paperwork, randomly  
 15 pull files, make sure everything is in order  
 16 and they accredit hospitals and other health  
 17 care facilities. Do you know anything about  
 18 their activities?  
 19 MS. WEGRYNOWSKI:  
 20 A. No.  
 21 CROSBIE, Q.C.:  
 22 Q. Well you're the wrong person to ask.  
 23 MS. WEGRYNOWSKI:  
 24 A. Okay.  
 25 CROSBIE, Q.C.:

Page 175

1 Q. Now I would like to turn to the documents that  
 2 I've entered, asked to be entered, starting  
 3 with P-1850 and this is a memorandum from a  
 4 Dr. Khalifa, it's addressed, as you can see  
 5 there, to All Newfoundland Pathologists,  
 6 February, 1998. It's about the reporting of  
 7 estrogen and progesterone receptor  
 8 immunohistochemical results, and I don't mean  
 9 to rush you through it, you're welcome -  
 10 MS. WEGRYNOWSKI:  
 11 A. No, no, that's fine.  
 12 CROSBIE, Q.C.:  
 13 Q. - if you wish to take time and get an  
 14 overview, but when you're able, I'd like to  
 15 bring you to page three. Maybe the thing to  
 16 do is just get an overview of what the  
 17 document seems to be about. You can skim it  
 18 right to the end, if you want.  
 19 MS. WEGRYNOWSKI:  
 20 A. Got it.  
 21 CROSBIE, Q.C.:  
 22 Q. And then with that context, I just have a  
 23 couple of specific questions.  
 24 MS. WEGRYNOWSKI:  
 25 A. Yes.

Page 176

1 CROSBIE, Q.C.:  
 2 Q. Are you satisfied you got the overall? On  
 3 page three, the statement under paragraph one  
 4 is made, "the first component is a statement  
 5 of whether the stain is positive or negative.  
 6 Positivity is defined by nuclear staining  
 7 detected by any number of malignant cells."  
 8 And then he goes on and he mentions the figure  
 9 of 30 percent, in paragraph three.  
 10 MS. WEGRYNOWSKI:  
 11 A. Um-hm.  
 12 CROSBIE, Q.C.:  
 13 Q. And there's a citation of a journal there, The  
 14 American Journal of Surgical Pathology, an  
 15 article in 1990, and then the number 30  
 16 percent, and I guess a piece of information or  
 17 a quotation from that journal article in 1990  
 18 is used at example two at the foot of the  
 19 page.  
 20 MS. WEGRYNOWSKI:  
 21 A. Yes.  
 22 CROSBIE, Q.C.:  
 23 Q. Can you tell us, in your understanding, what's  
 24 going on there?  
 25 MS. WEGRYNOWSKI:

Page 177

1 A. You need to speak to Brendan Mullen about  
 2 this. That would be in his scope of practice.  
 3 CROSBIE, Q.C.:  
 4 Q. Can you go to the top of page four?  
 5 MS. WEGRYNOWSKI:  
 6 A. Oh yes, okay.  
 7 CROSBIE, Q.C.:  
 8 Q. And he has a table there.  
 9 MS. WEGRYNOWSKI:  
 10 A. Um-hm.  
 11 CROSBIE, Q.C.:  
 12 Q. And then on the top of page six, there seems  
 13 to be, in relation to estrogen and  
 14 progesterone, a summary box for a set of  
 15 testings done for ER/PR under the IHC method.  
 16 Am I correct in my statement so far?  
 17 MS. WEGRYNOWSKI:  
 18 A. Yes.  
 19 CROSBIE, Q.C.:  
 20 Q. And in the comments section, it seems there  
 21 were 19 cases run in relation to estrogen and  
 22 17 in relation to PR. That's paragraph--  
 23 comments paragraph one and paragraph two, and  
 24 that correlates with the totals in the boxes?  
 25 MS. WEGRYNOWSKI:

Page 178

1 A. Yes.  
 2 CROSBIE, Q.C.:  
 3 Q. So this would seem to be a--and if you go back  
 4 to page four, he's saying a report of our  
 5 experience over a nine-month period, January  
 6 '97 to September '97, and that seems to be a  
 7 record of their experience running a series of  
 8 19 and then 17 cases.  
 9 MS. WEGRYNOWSKI:  
 10 A. Okay.  
 11 CROSBIE, Q.C.:  
 12 Q. Again, can you assist us in explaining what's  
 13 going on?  
 14 MS. WEGRYNOWSKI:  
 15 A. You need to speak to Brendan Mullen about  
 16 this.  
 17 CROSBIE, Q.C.:  
 18 Q. Okay. Are you able to say whether this  
 19 appears to be a validation exercise?  
 20 MS. WEGRYNOWSKI:  
 21 A. To me, it appears as a concordance exercise.  
 22 CROSBIE, Q.C.:  
 23 Q. Just explain that.  
 24 MS. WEGRYNOWSKI:  
 25 A. They want to determine the number of cases,

Page 179

1 where they're coming up, are they coming up  
 2 with a biochemical assay in the same manner  
 3 what they're coming up with the  
 4 immunohistochemistry assay.  
 5 CROSBIE, Q.C.:  
 6 Q. I couldn't help but notice you mentioned  
 7 yesterday, when you got a new batch of  
 8 antibody, you run 100 cases to validate that  
 9 MS. WEGRYNOWSKI:  
 10 A. The example that I used was for HER2/neu.  
 11 CROSBIE, Q.C.:  
 12 Q. I see.  
 13 MS. WEGRYNOWSKI:  
 14 A. And that's what we did. We took cases that  
 15 were positive, cases that were negative and  
 16 cases that were equivocal, and they had  
 17 already been tabulated by the FISH method.  
 18 CROSBIE, Q.C.:  
 19 Q. What do you do for a new batch of antibody  
 20 that you would use for ER/PR readings? How  
 21 many cases would you use to validate?  
 22 MS. WEGRYNOWSKI:  
 23 A. Presently now?  
 24 CROSBIE, Q.C.:  
 25 Q. Yes.

Page 180

1 MS. WEGRYNOWSKI:  
 2 A. We use our gold standard which would be our  
 3 TMA block, which we would have a positive, a  
 4 low positive and our negative, and that's what  
 5 we would validate our new batch with.  
 6 CROSBIE, Q.C.:  
 7 Q. Is there a number of cases that you would look  
 8 at to do the validation?  
 9 MS. WEGRYNOWSKI:  
 10 A. No, that was done historically.  
 11 CROSBIE, Q.C.:  
 12 Q. Pardon me?  
 13 MS. WEGRYNOWSKI:  
 14 A. That was done historically.  
 15 CROSBIE, Q.C.:  
 16 Q. And you don't know what was done historically?  
 17 MS. WEGRYNOWSKI:  
 18 A. It would have been methodology such as this.  
 19 CROSBIE, Q.C.:  
 20 Q. But you don't know numbers?  
 21 MS. WEGRYNOWSKI:  
 22 A. No, I do not.  
 23 CROSBIE, Q.C.:  
 24 Q. Okay. If I understood it correctly, again, my  
 25 ears pricked up, I think you said yesterday

Page 181

1 that you noticed--maybe I don't have the  
 2 terminology quite exactly correct. You have  
 3 these microtomes which do the very fine slices  
 4 for the placement of the tissue sample on the  
 5 slides, and some of them are cold microtomes.  
 6 Is that what you told us?  
 7 MS. WEGRYNOWSKI:  
 8 A. Oh, that was a cryostat, yes. They use that  
 9 for frozen work.  
 10 CROSBIE, Q.C.:  
 11 Q. Frozen work. Did you say that specimens were  
 12 left in these machines or around these  
 13 machines overnight, in which case they would  
 14 thaw out?  
 15 MS. WEGRYNOWSKI:  
 16 A. Yes.  
 17 CROSBIE, Q.C.:  
 18 Q. And what would be the result of that for the  
 19 specimens?  
 20 MS. WEGRYNOWSKI:  
 21 A. They would be rendered useless.  
 22 CROSBIE, Q.C.:  
 23 Q. Would you agree that human tissue should be  
 24 treated with respect?  
 25 MS. WEGRYNOWSKI:

Page 182

1 A. Yes.  
 2 CROSBIE, Q.C.:  
 3 Q. Is that treating human tissue with respect?  
 4 MS. WEGRYNOWSKI:  
 5 A. No.  
 6 CROSBIE, Q.C.:  
 7 Q. Thank you. I have nothing further.  
 8 THE COMMISSIONER:  
 9 Q. Mr. Pike?  
 10 MR. PIKE:  
 11 Q. No questions, thank you.  
 12 THE COMMISSIONER:  
 13 Q. Now Mr. Pritchard, you were indicating you  
 14 wanted to ask another question.  
 15 MR. PRITCHARD:  
 16 Q. Yes.  
 17 THE COMMISSIONER:  
 18 Q. Okay. Let's see where this question is going.  
 19 MS. PATRICIA WEGRYNOWSKI, EXAMINATION BY MR. ROLF  
 20 PRITCHARD  
 21 MR. PRITCHARD:  
 22 Q. Thank you, Commissioner. I was going to ask  
 23 two questions, but as you say, we'll see where  
 24 they're going. Ms. Wegrynowski, earlier this  
 25 morning, I asked you about whether or not you

Page 183

1 had any knowledge if the Premier had read your  
 2 report in connection with the phone call that  
 3 you received from Mr. Dyer that the Premier  
 4 was going to read your report, and you  
 5 indicated you had no knowledge of that, and  
 6 what I should have asked you then as well was  
 7 if you had any knowledge if, in fact, the  
 8 Premier had even received the report.  
 9 MS. WEGRYNOWSKI:  
 10 A. I do not.  
 11 MR. PRITCHARD:  
 12 Q. Okay. Ms. Wegrynowski, we heard evidence from  
 13 Mr. Abbott, who was the former deputy minister  
 14 of Health and Community Services, that in May  
 15 of 2007, spring of 2007, if you will, after  
 16 these events became public knowledge, he  
 17 inquired with Mr. Tilley, who was then the CEO  
 18 of Eastern Health, about obtaining the  
 19 reports.  
 20 MS. WEGRYNOWSKI:  
 21 A. Okay.  
 22 MR. PRITCHARD:  
 23 Q. Including yours, and I wondered if you had any  
 24 knowledge if perhaps the phone call from Mr.  
 25 Dyer was in response to Mr. Tilley intending

Page 184

1 to turn over those reports at that time. Do  
 2 you have any knowledge about that?  
 3 MS. WEGRYNOWSKI:  
 4 A. I do not have any knowledge of that.  
 5 MR. PRITCHARD:  
 6 Q. Okay, and we heard from Mr. Tilley that in the  
 7 fullness of time, he did not actually get an  
 8 opportunity to send those reports. He had put  
 9 them in an envelope and left them on his desk,  
 10 and then when he resigned, they rested on his  
 11 desk or thereabouts and subsequently, Ms.  
 12 Jones, who became the acting CEO, found the  
 13 envelope and it was her judgment that that  
 14 should not be disclosed, and so she did not  
 15 send those on. We've also heard evidence from  
 16 various ministers that they claim not to have  
 17 received the report. We also heard from a  
 18 representative of the Premier's office that  
 19 they hadn't received the report, and I just  
 20 wanted to be clear. You're not offering any  
 21 evidence to contradict those assertions, are  
 22 you?  
 23 MS. WEGRYNOWSKI:  
 24 A. I am not.  
 25 MR. PRITCHARD:

Page 185

1 Q. All right. Thank you, very much,  
 2 Commissioner.  
 3 COMMISSIONER:  
 4 Q. All right. No, it's just I'm not sure how  
 5 this witness could possibly know unless  
 6 somebody had told her, but -  
 7 MR. PRITCHARD:  
 8 Q. No, and I--just to clarify, Commissioner, I  
 9 just wanted to be certain. She had testified  
 10 that she was told by phone that her report was  
 11 going to be read -  
 12 COMMISSIONER:  
 13 Q. Yes.  
 14 MR. PRITCHARD:  
 15 Q. - by the premier. I just wanted to make sure  
 16 that she has no knowledge about whether or not  
 17 it was read or, indeed, given to the premier  
 18 or anyone else in government.  
 19 COMMISSIONER:  
 20 Q. All right.  
 21 MR. PRITCHARD:  
 22 Q. Thank you, Commissioner.  
 23 COMMISSIONER:  
 24 Q. Thank you. Do you have anything? I'm sorry,  
 25 Mr. Clements?

Page 186

1 MR. CLEMENTS:  
 2 Q. No questions.  
 3 COMMISSIONER:  
 4 Q. My apologies again. That's twice I forgot -  
 5 MR. CLEMENTS:  
 6 Q. (Inaudible) no questions, thanks.  
 7 COMMISSIONER:  
 8 Q. Ms. Chaytor?  
 9 MS. TRISH WEGRYNOWSKI, RE-EXAMINATION BY SANDRA CHAYTOR,  
 10 Q.C.  
 11 CHAYTOR, Q.C.:  
 12 Q. Just a couple of quick points in  
 13 clarification. I think you were asked by Mr.  
 14 Simmons about the issue of when you became  
 15 licensed in Ontario. If we could just look at  
 16 1730, page 3 just to clarify that point for  
 17 the record? And I believe here it indicates--  
 18 top of page 3, is that right? I'm sorry, it's  
 19 the next page. Here we go, sorry, page 2.  
 20 1994 to the present, College of Medical  
 21 Laboratory Technologists of Ontario. So I  
 22 take it you've been licensed since, is that  
 23 1994?  
 24 MS. WEGRYNOWSKI:  
 25 A. Yes, I got my licensure and passed my national

Page 187

1 exams and the CSLT was the national body from  
 2 when I graduated until 1993 and then the  
 3 College of Medical Laboratory Technologists of  
 4 Ontario was founded in 1994.  
 5 CHAYTOR, Q.C.:  
 6 Q. Okay. And another question that arose from  
 7 Mr. Simmons questions, he indicated perhaps  
 8 that Mount Sinai is foremost in labs across  
 9 the country and referred to the term "gold  
 10 standard". And you, I think, in answering  
 11 said the stringency should be in all  
 12 laboratories?  
 13 MS. WEGRYNOWSKI:  
 14 A. Yes.  
 15 CHAYTOR, Q.C.:  
 16 Q. And I'm just wondering through the  
 17 recommendations that you set out in your two  
 18 reports here for Eastern Health were you  
 19 aiming at creating a gold standard for Eastern  
 20 Health or a centre of excellence, was that  
 21 your goal?  
 22 MS. WEGRYNOWSKI:  
 23 A. My goal was to try to provide Eastern Health  
 24 with the cornerstones for the -  
 25 CHAYTOR, Q.C.:

Page 188

1 Q. I'm sorry?  
 2 MS. WEGRYNOWSKI:  
 3 A. To provide the cornerstones for the pathology  
 4 laboratory.  
 5 CHAYTOR, Q.C.:  
 6 Q. So the basics?  
 7 MS. WEGRYNOWSKI:  
 8 A. The very basics.  
 9 CHAYTOR, Q.C.:  
 10 Q. And you indicated you came thinking you were  
 11 going to do a peer review in 2005. Why did  
 12 you not do a peer review?  
 13 MS. WEGRYNOWSKI:  
 14 A. There were no standard operating procedures to  
 15 review.  
 16 CHAYTOR, Q.C.:  
 17 Q. Mr. Simmons asked a question about how long  
 18 you've been enrolled in QMPLS and you  
 19 indicated that's been mandated for the past  
 20 two years. I take it prior to that, however,  
 21 that Mount Sinai was doing external quality  
 22 assurance, and you were enrolled prior to that  
 23 in CAP and UK NEQAS?  
 24 MS. WEGRYNOWSKI:  
 25 A. No, before that was CAP. I don't have the

Page 189

1 exact time for QMPLS, that's my mistake.  
 2 CHAYTOR, Q.C.:  
 3 Q. Okay.  
 4 MS. WEGRYNOWSKI:  
 5 A. And we also do, I think it's called the CIHQ,  
 6 the Canadian Immunohistochemistry Quality  
 7 where we do ER/PRs with them.  
 8 CHAYTOR, Q.C.:  
 9 Q. And how long has that been the case, how long  
 10 have you been enrolled in CAP and I take it  
 11 that predates the mandated QMPLS?  
 12 MS. WEGRYNOWSKI:  
 13 A. That's correct. CAP was already at Mount  
 14 Sinai Hospital when I arrived.  
 15 CHAYTOR, Q.C.:  
 16 Q. When you went there.  
 17 MS. WEGRYNOWSKI:  
 18 A. So prior to '99.  
 19 CHAYTOR, Q.C.:  
 20 Q. So sometime prior to 1999?  
 21 MS. WEGRYNOWSKI:  
 22 A. Correct.  
 23 CHAYTOR, Q.C.:  
 24 Q. Okay. Thank you. The issue of Mr. Simmons  
 25 brought up in the e-mail where you referred to

Page 190

1 rotating, you posed a question before you came  
 2 here in the e-mail exchange as to whether or  
 3 not the technologists were rotating or  
 4 dedicated?  
 5 MS. WEGRYNOWSKI:  
 6 A. Um-hm.  
 7 CHAYTOR, Q.C.:  
 8 Q. I just wanted to clarify your answer in that.  
 9 In posing the question as to whether or not  
 10 the technologists in IHC were rotating or  
 11 dedicated, were you suggesting that rotating  
 12 for IHC technologists might, in fact, be  
 13 acceptable?  
 14 MS. WEGRYNOWSKI:  
 15 A. No, that wasn't my intention at all. I didn't  
 16 know how the organization was set up. I  
 17 didn't have a sense of whether or not the  
 18 immunohistochemistry department was a separate  
 19 entity, whether it was just part of the  
 20 histology so you put somebody on that bench  
 21 that one week and they were treating it more  
 22 as a special stain as opposed to an actual  
 23 dynamic laboratory.  
 24 CHAYTOR, Q.C.:  
 25 Q. And I think in Mr.--my final question. In Mr.

Page 191

1 Crosbie's questioning he referred you to the  
 2 document, the memo by Dr. Khalifa and you  
 3 replied that you saw that more as a  
 4 concordance exercise versus a validation  
 5 exercise. Could you just clarify what is the  
 6 difference between those two exercises?  
 7 MS. WEGRYNOWSKI:  
 8 A. In the way I'm using the terms, when I speak  
 9 of validation, I am talking about bringing in  
 10 a new lot or a new antibody and making sure  
 11 that it is working or performing to the  
 12 standards of our expectation. When I am  
 13 speaking of concordance, I am looking at one  
 14 method and comparing it the other. So we're  
 15 looking at method for this particular example  
 16 where you had a quantitative figure and you  
 17 were getting your DCC numbers and you had that  
 18 biochemical assay. So now you're moving  
 19 towards something that is a little bit more  
 20 subjective because when you start interpreting  
 21 slides or the pathologist begins interpreting  
 22 slides, it is quantitative but it is, it's  
 23 semi-quantitative and that's what I meant by  
 24 concordance.  
 25 CHAYTOR, Q.C.:

Page 192

1 Q. Okay. Thank you, Commissioner. Thank you,  
 2 Ms. Wegrynowski.  
 3 MS. WEGRYNOWSKI:  
 4 A. Thank you.  
 5 COMMISSIONER:  
 6 Q. Thank you. And I want to add my appreciation  
 7 to that which has already been expressed to  
 8 you for coming all this way and enlightening  
 9 us for a day and a half. And frankly, I found  
 10 it a very interesting day and a half, so thank  
 11 you, very much.  
 12 MS. WEGRYNOWSKI:  
 13 A. Thank you.  
 14 COMMISSIONER:  
 15 Q. Do we have plans for the afternoon?  
 16 CHAYTOR, Q.C.:  
 17 Q. We are trying--we had anticipated that Ms.  
 18 Wegrynowski would go for the full two days,  
 19 but we are trying to line up one, a witness  
 20 who was here last week who didn't get an  
 21 opportunity to be cross-examined, so we're  
 22 waiting to hear back from that person. I  
 23 don't believe there's any response at this  
 24 point.  
 25 COMMISSIONER:



Page 193

1 Q. All right, so for those in the room who want  
 2 to--how about this, I promise you a long  
 3 lunch, and why don't you check with the office  
 4 within the hour and we should be able to be  
 5 definitive about whether we will continue the  
 6 afternoon. I wouldn't want to start a witness  
 7 that would run over because, as I understand  
 8 it, Dr. Mullen will be here in the morning for  
 9 -  
 10 CHAYTOR, Q.C.:  
 11 Q. That's correct.  
 12 COMMISSIONER:  
 13 Q. - an anticipated two days.  
 14 CHAYTOR, Q.C.:  
 15 Q. If we can get this particular witness we're--  
 16 it should certainly conclude this afternoon.  
 17 COMMISSIONER:  
 18 Q. Yes. This is one of the two that we have left  
 19 over?  
 20 CHAYTOR, Q.C.:  
 21 Q. One of the two that we didn't have a chance  
 22 for the -  
 23 COMMISSIONER:  
 24 Q. Yes, Mr. Crosbie?  
 25 CROSBIE, Q.C.;

Page 194

1 Q. May I ask the identity, is this Mr. Singleton?  
 2 CHAYTOR, Q.C.:  
 3 Q. Yes, it is.  
 4 CROSBIE, Q.C.:  
 5 Q. Because I don't think he will be more than an  
 6 hour.  
 7 CHAYTOR, Q.C.:  
 8 Q. Yes.  
 9 CROSBIE, Q.C.:  
 10 Q. Will he?  
 11 COMMISSIONER:  
 12 Q. He won't--I don't--I'm afraid I'm very bad at  
 13 predicting this from up here, Mr. Crosbie.  
 14 CROSBIE, Q.C.:  
 15 Q. Speaking for my own self, which I don't think--  
 16 -I think there are only one or two of us left.  
 17 MR. SIMMONS:  
 18 Q. Commissioner, just on the break I was asked to  
 19 see if we could contact Mr. Singleton.  
 20 COMMISSIONER:  
 21 Q. Yes.  
 22 MR. SIMMONS:  
 23 Q. - and obviously while I'm in here, I can only  
 24 use e-mail, I've tried by telephone earlier.  
 25 I have no idea whatsoever whether I can even

Page 195

1 reach him, in order to -  
 2 COMMISSIONER:  
 3 Q. Yes, well that's why I'm suggesting we have  
 4 kind of time limit. So if you're unable to--  
 5 are we dealing with two people or just one in  
 6 terms of trying to contact?  
 7 CHAYTOR, Q.C.:  
 8 Q. Just one.  
 9 COMMISSIONER:  
 10 Q. Just one.  
 11 CHAYTOR, Q.C.:  
 12 Q. The other person that we were hoping would -  
 13 COMMISSIONER:  
 14 Q. Is not available?  
 15 CHAYTOR, Q.C.:  
 16 Q. - be Dr. Bradbury, who is not--has confirmed  
 17 is not available this afternoon.  
 18 COMMISSIONER:  
 19 Q. But she's not available, all right. Mr.  
 20 Simmons, can I ask you again to just see if  
 21 you can contact Mr. Singleton and confirm or,  
 22 indeed, confirm that he's not available within  
 23 the hour to let us know. If you're not able  
 24 to contact him within the hour, then we'll  
 25 have to assume he's not available and indicate

Page 196

1 that to counsel when they check in. And that  
 2 is not an invitation to everybody to call up  
 3 Mr. Singleton and tell him not to answer his  
 4 phone in the next hour. So I'll ask you to  
 5 check with our office within the next hour and  
 6 we can confirm that we'll either proceed at  
 7 2:00 or otherwise. Thank you, very much.  
 8 Upon conclusion.

CERTIFICATE

1  
2 I, Judy Moss, hereby certify that the foregoing is  
3 a true and correct transcript in the matter of the  
4 Commission of Inquiry on Hormone Receptor Testing,  
5 heard on the 25th day of June, A.D., 2008 before  
6 the Honourable Justice Margaret A. Cameron,  
7 Commissioner, at the Commission of Inquiry, St.  
8 John's, Newfoundland and Labrador and was  
9 transcribed by me to the best of my ability by  
10 means of a sound apparatus.  
11 Dated at St. John's, Newfoundland and Labrador  
12 this 25th day of June, A.D., 2008  
13 Judy Moss

<p style="text-align: center;"><b>-&amp;-</b></p> <p><b>&amp;</b> [1] 1:18</p> <hr/> <p style="text-align: center;"><b>-?-</b></p> <p><b>'97</b> [2] 178:6,6 <b>'99</b> [1] 189:18</p> <hr/> <p style="text-align: center;">---</p> <p><b>-I</b> [1] 194:16 <b>-it</b> [1] 39:18</p> <hr/> <p style="text-align: center;"><b>-0-</b></p> <p><b>0048</b> [2] 4:15 26:23</p> <hr/> <p style="text-align: center;"><b>-1-</b></p> <p><b>10</b> [2] 4:15,16 <b>100</b> [5] 2:5,6 131:13,17 179:8 <b>10th</b> [2] 24:3,9 <b>11</b> [2] 4:19,19 <b>115</b> [3] 2:6,7 107:14 <b>12</b> [1] 5:12 <b>120</b> [1] 107:15 <b>1240</b> [1] 49:7 <b>13</b> [1] 5:12 <b>14</b> [2] 7:12 11:3 <b>15</b> [2] 8:18 11:20 <b>168</b> [2] 2:7,8 <b>17</b> [3] 10:4 177:22 178:8 <b>170</b> [1] 3:2 <b>1730</b> [2] 126:18 186:16 <b>18</b> [1] 10:10 <b>181</b> [2] 2:8,9 <b>185</b> [2] 2:9,10 <b>1850</b> [1] 169:24 <b>1853</b> [1] 170:6 <b>18th</b> [1] 161:13 <b>19</b> [2] 177:21 178:8 <b>191</b> [2] 2:10,11 <b>195</b> [1] 2:11 <b>1990</b> [2] 176:15,17 <b>1993</b> [1] 187:2 <b>1994</b> [3] 186:20,23 187:4 <b>1997</b> [1] 173:14 <b>1998</b> [1] 175:6 <b>1999</b> [1] 189:20</p> <hr/> <p style="text-align: center;"><b>-2-</b></p> <p><b>2</b> [2] 145:20 186:19 <b>20</b> [1] 77:19 <b>2003</b> [2] 87:23,24 <b>2005</b> [6] 86:14,19 92:5 144:25 173:14 188:11 <b>2006</b> [14] 24:3,9,13,18 25:1,3,12 26:5,19 27:3 27:12 28:8 30:11 47:5 <b>2007</b> [8] 24:17 47:24 48:8</p>	<p>49:2 57:22 161:13 183:15 183:15 <b>2008</b> [3] 1:4 197:5,12 <b>22</b> [1] 13:5 <b>23rd</b> [3] 49:2,7 50:4 <b>24</b> [1] 14:4 <b>25</b> [2] 1:4 14:16 <b>25th</b> [3] 24:18 197:5,12 <b>26</b> [1] 15:7 <b>27</b> [1] 15:8 <b>28</b> [5] 15:8,13 24:5,7 92:5 <b>29</b> [1] 18:2 <b>2:00</b> [1] 196:7 <b>2nd</b> [1] 28:8</p> <hr/> <p style="text-align: center;"><b>-3-</b></p> <p><b>3</b> [4] 2:3 161:18 186:16 186:18 <b>30</b> [6] 19:9 24:3,24 77:19 176:9,15 <b>300</b> [1] 35:10 <b>30th</b> [2] 24:25 26:5 <b>317</b> [1] 161:22 <b>3:45</b> [1] 49:20</p> <hr/> <p style="text-align: center;"><b>-4-</b></p> <p><b>4</b> [1] 101:12 <b>40</b> [1] 26:14 <b>400</b> [1] 36:12 <b>44</b> [1] 173:15</p> <hr/> <p style="text-align: center;"><b>-5-</b></p> <p><b>5</b> [1] 16:15 <b>50</b> [3] 36:18 154:25 155:1 <b>51</b> [1] 169:24 <b>52</b> [2] 25:2 169:24 <b>53</b> [1] 169:24 <b>56</b> [2] 2:3,4 <b>57</b> [2] 2:4,5</p> <hr/> <p style="text-align: center;"><b>-8-</b></p> <p><b>80</b> [1] 145:3 <b>85</b> [1] 54:3</p> <hr/> <p style="text-align: center;"><b>-A-</b></p> <p><b>A.D</b> [2] 197:5,12 <b>Aaron</b> [2] 127:15 128:18 <b>Abbott</b> [1] 183:13 <b>abbreviated</b> [2] 39:8,17 <b>abhorrent</b> [1] 150:24 <b>ability</b> [5] 73:19,24 112:11 130:16 197:9 <b>able</b> [25] 13:1 14:11 32:2 37:24 62:15,18 70:23 78:10 80:17 84:19 120:23 122:5 125:10 127:25 128:9 135:18 147:24 152:1 153:3,5 168:6 175:14 178:18 193:4 195:23</p>	<p><b>above</b> [3] 63:8,10 172:22 <b>absence</b> [5] 60:25 122:24 123:16 163:13 164:1 <b>absent</b> [1] 164:20 <b>absolutely</b> [6] 67:6 85:12,16 88:17 107:7 168:10 <b>academic</b> [6] 56:24 59:11,14,16 61:1 99:11 <b>acceptable</b> [3] 9:2,16 190:13 <b>accommodate</b> [1] 36:18 <b>accountable</b> [1] 55:12 <b>accredit</b> [2] 84:21 174:16 <b>accreditation</b> [6] 81:19 82:2 148:7,8 174:3,9 <b>accreditations</b> [2] 85:1 85:5 <b>accuracy</b> [4] 5:15 6:15 26:15 69:23 <b>accurate</b> [1] 173:1 <b>acronym</b> [1] 174:6 <b>Act</b> [6] 50:13 51:5,13,19 52:1 114:1 <b>acting</b> [1] 184:12 <b>action</b> [6] 1:13 10:4 20:9 20:12 149:20 151:18 <b>activities</b> [5] 19:2 130:18 130:19 131:5 174:18 <b>activity</b> [2] 139:4 142:25 <b>acts</b> [1] 55:13 <b>actual</b> [8] 33:20 117:7 117:14 120:18 133:10,13 160:11 190:22 <b>add</b> [1] 192:6 <b>added</b> [2] 60:3 99:20 <b>addition</b> [1] 17:2 <b>additional</b> [1] 86:10 <b>address</b> [2] 80:6 116:11 <b>addressed</b> [4] 5:11,16 13:10 175:4 <b>addressing</b> [1] 100:1 <b>adherence</b> [2] 56:25 107:11 <b>administration</b> [1] 16:25 <b>adopted</b> [2] 73:4 89:1 <b>advancement</b> [1] 60:9 <b>advancements</b> [1] 55:10 <b>advances</b> [1] 55:19 <b>advantage</b> [5] 76:3 95:16 98:4 151:17 153:10 <b>advantages</b> [4] 78:1 95:20 96:19 98:12 <b>adversely</b> [1] 45:6 <b>advice</b> [2] 47:7 160:24 <b>advise</b> [2] 52:24 172:24 <b>advised</b> [2] 52:19 58:1 <b>affect</b> [1] 154:18 <b>affected</b> [3] 7:8 45:6 112:24 <b>afraid</b> [1] 194:12</p>	<p><b>afternoon</b> [5] 48:11 192:15 193:6,16 195:17 <b>again</b> [26] 4:16 5:9,12 7:12 9:21 11:4,21 13:6,9 14:9 15:6 19:23 22:11 24:23 36:7,22 41:25 74:21 76:7 118:10 142:21 163:25 178:12 180:24 186:4 195:20 <b>against</b> [8] 6:15 13:24 18:21 22:14,18 32:11 40:10 69:19 <b>agency</b> [1] 102:12 <b>ago</b> [2] 84:3 105:17 <b>agree</b> [7] 40:5,11 44:18 45:2 79:11 164:13 181:23 <b>agreed</b> [1] 163:3 <b>ahead</b> [2] 98:24 158:17 <b>aid</b> [1] 20:15 <b>aiming</b> [1] 187:19 <b>al</b> [1] 1:9 <b>alarm</b> [4] 8:2,2,11,12 <b>alarmed</b> [1] 8:7 <b>alarms</b> [1] 38:1 <b>alcohol</b> [1] 103:5 <b>alien</b> [1] 35:11 <b>allows</b> [1] 96:10 <b>alone</b> [3] 36:24 144:7 166:18 <b>along</b> [6] 18:7 37:6 53:11 96:4 104:12 154:1 <b>alphabetical</b> [1] 4:21 <b>Alternate</b> [1] 9:6 <b>always</b> [8] 34:22 35:18 35:24 43:21 96:5,6 112:1 136:14 <b>American</b> [5] 16:19 31:17 86:5 146:13 176:14 <b>among</b> [1] 145:3 <b>amongst</b> [2] 158:20 162:16 <b>amount</b> [6] 70:22 80:19 115:9,15 119:4 160:19 <b>analytic</b> [3] 117:22,22 119:7 <b>analytical</b> [2] 116:1 118:11 <b>angle</b> [1] 112:1 <b>annual</b> [3] 101:13 108:19 147:9 <b>annually</b> [1] 86:2 <b>answer</b> [8] 26:21 28:3 28:11 84:18 147:20 150:11 190:8 196:3 <b>answering</b> [1] 187:10 <b>antibodies</b> [11] 6:14 7:17 8:1 35:10,15 36:3 39:15 62:23 108:9 139:21 141:25 <b>antibody</b> [23] 4:20,23 5:4 7:4 13:16 15:18 22:3 22:4 23:13 27:1,6 35:19 37:17,18 73:20 108:13 115:6,8 129:16 130:24</p>	<p>179:8,19 191:10 <b>anticipate</b> [1] 140:17 <b>anticipated</b> [2] 192:17 193:13 <b>antigen</b> [3] 73:20 107:18 115:2 <b>apologies</b> [1] 186:4 <b>apparatus</b> [1] 197:10 <b>appear</b> [2] 24:6 25:14 <b>Appearances</b> [1] 1:5 <b>applicable</b> [2] 137:2 138:14 <b>application</b> [1] 52:21 <b>applied</b> [2] 119:9 127:24 <b>applies</b> [2] 109:7,13 <b>applying</b> [1] 110:3 <b>appreciate</b> [1] 26:21 <b>appreciation</b> [1] 192:6 <b>approach</b> [5] 72:24 74:11,12,12 78:20 <b>approached</b> [1] 71:19 <b>appropriate</b> [4] 4:25 45:3 72:9 91:5 <b>appropriately</b> [1] 8:25 <b>approval</b> [1] 17:1 <b>approve</b> [1] 135:6 <b>approved</b> [1] 17:4 <b>April</b> [4] 24:18 28:22 29:7,9 <b>area</b> [9] 16:16 20:10 80:15,25 85:25 93:11 94:11 125:12 126:6 <b>areas</b> [2] 54:15 67:3 <b>arose</b> [1] 187:6 <b>arrived</b> [2] 12:17 189:14 <b>arriving</b> [1] 142:24 <b>art</b> [1] 144:5 <b>article</b> [2] 176:15,17 <b>aside</b> [3] 81:17 129:23 131:23 <b>assay</b> [7] 68:23 69:20 72:11,18 179:2,4 191:18 <b>Assembly</b> [1] 28:12 <b>assertions</b> [1] 184:21 <b>assess</b> [5] 12:19 14:6 28:22 29:8 91:3 <b>assessed</b> [4] 13:7,7 20:10 148:21 <b>assessing</b> [1] 12:7 <b>assessment</b> [13] 5:12,17 7:16 10:19 12:4,12 13:11 25:7 30:3 40:6 120:19 121:11 162:9 <b>assessor</b> [1] 148:18 <b>assessors</b> [4] 33:1 146:18 146:25 147:2 <b>asset</b> [1] 98:6 <b>assigned</b> [1] 17:16 <b>assist</b> [5] 18:22 134:6 147:24 151:15 178:12 <b>assistance</b> [2] 47:7 66:19 <b>assistant</b> [1] 96:4</p>
--	--	---	---	---

<p><b>assistants</b> [10] 94:12,19 95:3,15,21 96:20 98:2 133:21 134:3,11</p> <p><b>assist</b> [1] 141:15</p> <p><b>associated</b> [2] 10:12 35:15</p> <p><b>Association</b> [1] 1:14</p> <p><b>assume</b> [4] 79:16 153:18 156:25 195:25</p> <p><b>assumed</b> [1] 50:11</p> <p><b>assuming</b> [1] 102:17</p> <p><b>assurance</b> [20] 16:14,18 17:7 27:21 30:23 135:25 137:2 146:14 148:1 149:10 156:6,8,15,23 157:8,14 158:18 159:7 159:24 188:22</p> <p><b>assurances</b> [1] 122:5</p> <p><b>assure</b> [1] 69:23</p> <p><b>assured</b> [2] 6:18,20</p> <p><b>attach</b> [1] 107:9</p> <p><b>attached</b> [1] 45:4</p> <p><b>attend</b> [1] 102:4</p> <p><b>attended</b> [1] 101:12</p> <p><b>Attending</b> [1] 130:8</p> <p><b>attention</b> [4] 24:15 63:21 113:25 114:12</p> <p><b>attributed</b> [2] 25:4 161:20</p> <p><b>Authorities</b> [1] 1:17</p> <p><b>authority</b> [4] 1:11 18:4 18:17 82:19</p> <p><b>automated</b> [1] 73:17</p> <p><b>autostainer</b> [1] 22:1</p> <p><b>available</b> [11] 59:15,17 59:20 83:19 96:20 155:22 195:14,17,19,22,25</p> <p><b>avidin</b> [2] 10:17 123:11</p> <p><b>avoid</b> [1] 10:17</p> <p><b>aware</b> [11] 21:20 54:2 60:23 105:19 113:24 120:11 129:9 139:3 142:24 162:1 165:14</p> <p><b>away</b> [2] 113:21 149:20</p>	<p>99:14 108:11,19 129:11 147:10 156:13 158:22,25</p> <p><b>batch</b> [3] 179:7,19 180:5</p> <p><b>bear</b> [1] 23:9</p> <p><b>became</b> [5] 137:25 162:1 183:16 184:12 186:14</p> <p><b>become</b> [2] 16:17 62:2</p> <p><b>becomes</b> [1] 35:16</p> <p><b>becoming</b> [1] 37:8</p> <p><b>began</b> [1] 28:15</p> <p><b>begin</b> [2] 29:2 101:9</p> <p><b>beginning</b> [4] 34:24 92:6 118:5 152:23</p> <p><b>begins</b> [1] 191:21</p> <p><b>begun</b> [1] 27:15</p> <p><b>behind</b> [1] 54:12</p> <p><b>below</b> [1] 12:16</p> <p><b>bench</b> [2] 39:14 190:20</p> <p><b>benches</b> [1] 93:11</p> <p><b>benchmark</b> [4] 9:24 19:20 20:5 73:22</p> <p><b>benchmarking</b> [1] 19:15</p> <p><b>benefit</b> [6] 33:7 71:21 159:10,14 166:12 167:5</p> <p><b>Bernard</b> [1] 1:6</p> <p><b>best</b> [10] 18:5 84:17 100:10 112:11 128:22,25 129:3 131:19 173:20 197:9</p> <p><b>better</b> [6] 74:19 78:20 100:21 149:11 167:11 173:24</p> <p><b>between</b> [17] 8:15 31:9 31:14 39:15 56:11 76:11 76:12 119:24 120:8 123:12 146:12 147:6 149:8 157:23 167:2 172:3 191:6</p> <p><b>beyond</b> [1] 66:7</p> <p><b>big</b> [1] 98:3</p> <p><b>binding</b> [4] 68:23 69:19 72:11,18</p> <p><b>bioassay</b> [1] 69:3</p> <p><b>biochemical</b> [2] 179:2 191:18</p> <p><b>Biological</b> [4] 101:13,20 102:11,17</p> <p><b>biopsies</b> [1] 80:19</p> <p><b>biopsy</b> [4] 37:13 44:20 44:23 149:25</p> <p><b>biotin</b> [3] 10:13,17 123:11</p> <p><b>bit</b> [14] 8:11 32:17 33:17 35:18 45:23 59:13 111:22 117:3 127:11 128:21 135:21 144:4 169:20 191:19</p> <p><b>blade</b> [3] 112:4,5,13</p> <p><b>block</b> [16] 13:17,18,20 13:24 34:10 41:10,10,10 111:24,25 112:3,12,20 150:24 153:25 180:3</p> <p><b>blocked</b> [2] 10:16 45:22</p>	<p><b>blocking</b> [1] 123:11</p> <p><b>blocks</b> [10] 13:15 21:14 21:16,17 43:9,22,25 46:3 46:5 111:10</p> <p><b>body</b> [8] 13:21 77:5 84:12 97:1 101:15,18 134:17 187:1</p> <p><b>bolts</b> [2] 158:21,24</p> <p><b>bother</b> [1] 145:22</p> <p><b>bottom</b> [3] 24:6 27:23 157:13</p> <p><b>box</b> [1] 177:14</p> <p><b>boxes</b> [1] 177:24</p> <p><b>boy</b> [1] 92:2</p> <p><b>Bradbury</b> [1] 195:16</p> <p><b>Brazil</b> [1] 1:8</p> <p><b>bread</b> [3] 45:22 46:1,2</p> <p><b>break</b> [4] 100:19,21,23 194:18</p> <p><b>breast</b> [12] 1:12 40:20 40:22 42:1,13 46:1,16 67:21 98:22,23 124:5 173:3</p> <p><b>breathing</b> [1] 108:1</p> <p><b>Brendan</b> [11] 72:5 84:18 86:24 87:10,11 98:24 124:18 161:1 173:20 177:1 178:15</p> <p><b>briefing</b> [2] 28:3,11</p> <p><b>briefly</b> [1] 30:25</p> <p><b>bring</b> [4] 24:14 61:23 65:22 175:15</p> <p><b>bringing</b> [3] 34:2 37:1 191:9</p> <p><b>brings</b> [1] 63:20</p> <p><b>broad</b> [1] 90:24</p> <p><b>broad-based</b> [1] 120:19</p> <p><b>brought</b> [8] 7:15,20 12:11 24:16 113:24 114:11 115:10 189:25</p> <p><b>Browne</b> [56] 2:6 100:17 100:20 101:2,3,5,21 102:10,16,23 103:9,19 103:25 104:5,11,17 105:4 105:10,18,24 106:6,10 106:14,22 107:16,23 108:5,17,23 109:5,10,16 109:25 110:7,12,22 111:2 111:7,14,21 112:7,15,21 113:3,10,23 114:5,10,16 115:1,7,14,21 116:5,15 116:19</p> <p><b>Browne/Jane</b> [1] 1:9</p> <p><b>bubble</b> [1] 63:20</p> <p><b>buffers</b> [3] 37:7,8 118:12</p> <p><b>bullet</b> [1] 28:14</p> <p><b>bunch</b> [1] 146:20</p> <p><b>burden</b> [1] 131:24</p> <p><b>business</b> [2] 154:13 169:20</p> <p><b>Butler</b> [2] 142:15 143:3</p>	<p><b>calibrated</b> [3] 6:5,17 114:22</p> <p><b>calibration</b> [4] 5:15 10:20 26:15 114:19</p> <p><b>calibre</b> [1] 102:7</p> <p><b>calls</b> [4] 47:15,18 109:24 154:1</p> <p><b>Cameron</b> [2] 1:3 197:6</p> <p><b>Canada</b> [6] 59:9 139:2 148:7 165:10,14 174:9</p> <p><b>Canadian</b> [7] 1:15 55:5 86:5 116:24 148:7 174:2 189:6</p> <p><b>cancer</b> [10] 1:12,15 116:25 124:25 125:1,1 126:1,2 127:5 173:3</p> <p><b>cannot</b> [2] 114:22 121:7</p> <p><b>CAP</b> [16] 31:9 32:10 132:22 146:12,18,25 147:2,13,23 148:14,24 159:25 188:23,25 189:10 189:13</p> <p><b>capability</b> [1] 141:24</p> <p><b>capable</b> [1] 141:3</p> <p><b>Capricious</b> [1] 40:8</p> <p><b>capture</b> [1] 142:17</p> <p><b>captured</b> [2] 114:21 118:4</p> <p><b>care</b> [19] 19:11 54:9,13 54:15,22,25 55:5,23 56:6 65:25 73:1 101:25 102:22 125:14 127:15,17 158:21 170:14 174:17</p> <p><b>carried</b> [2] 40:16 53:7</p> <p><b>carries</b> [1] 78:2</p> <p><b>carry</b> [1] 100:10</p> <p><b>carrying</b> [2] 95:9 99:4</p> <p><b>Carter</b> [4] 92:12 113:14 172:12 173:4</p> <p><b>case</b> [13] 8:13 11:25 95:10 98:23 107:13 127:22 152:21,21,24 153:7 155:7 181:13 189:9</p> <p><b>cases</b> [13] 64:10,16 90:22 147:14 177:21 178:8,25 179:8,14,15,16,21 180:7</p> <p><b>Catherine</b> [1] 17:19</p> <p><b>causes</b> [2] 20:12,20</p> <p><b>CCHA</b> [1] 174:1</p> <p><b>cells</b> [1] 176:7</p> <p><b>celsius</b> [1] 107:15</p> <p><b>Central</b> [1] 1:16</p> <p><b>centre</b> [1] 187:20</p> <p><b>centres</b> [1] 43:13</p> <p><b>centring</b> [2] 112:1,10</p> <p><b>CEO</b> [4] 50:1 161:14 183:17 184:12</p> <p><b>certain</b> [4] 104:19 126:1 126:1 185:9</p> <p><b>certainly</b> [17] 25:5 26:20 28:19 38:23 39:13 44:10 46:22 50:9 60:8 64:21 66:22 67:19 98:3 142:11 147:23 150:25 193:16</p>	<p><b>Certificate</b> [2] 2:12 197:1</p> <p><b>certification</b> [1] 102:2</p> <p><b>certify</b> [1] 197:2</p> <p><b>chain</b> [1] 64:12</p> <p><b>challenges</b> [1] 127:19</p> <p><b>chance</b> [1] 193:21</p> <p><b>change</b> [9] 5:1 14:16 22:23 38:2 88:21 106:20 108:12,16 161:22</p> <p><b>changed</b> [4] 89:8,10 108:7,14</p> <p><b>changes</b> [3] 89:22 91:5 172:24</p> <p><b>changing</b> [2] 51:22 55:19</p> <p><b>charge</b> [3] 105:2 107:8 142:4</p> <p><b>charged</b> [5] 99:2,24 107:1,9,10</p> <p><b>Chaytor</b> [148] 1:7 2:3 2:10 4:2,3,5,9,10 5:8,20 6:3,8,23 7:6,11,24 8:5 8:17 9:5,13 10:3,8 11:2 11:11,16 12:3,20,25 13:4 13:14 14:3,14,22 15:4 15:12,24 16:6,13,24 17:20,24 18:10,24 19:8 19:22 20:8 21:12 22:24 23:17,22 24:12,21 25:11 25:18,24 26:3,9,18 27:9 27:24 28:6 29:1 30:1,9 30:15,20 31:6,13 33:2,6 33:11,16 34:1 38:7,14 38:18 39:4,22 40:12 41:1 41:19,23 42:5,11,19,24 43:4,8,16,24 44:5,14,22 45:8,18 46:6,12,20 47:3 47:10,17,23 48:2,6,12 48:16,20,24 49:15 50:14 50:20,25 51:8,15,23 52:4 52:9,13,18 53:2,15 57:5 186:8,9,11 187:5,15,25 188:5,9,16 189:2,8,15 189:19,23 190:7,24 191:25 192:16 193:10,14 193:20 194:2,7 195:7,11 195:15</p> <p><b>check</b> [4] 174:14 193:3 196:1,5</p> <p><b>Ches</b> [4] 1:12 2:8 169:12 169:15</p> <p><b>choice</b> [1] 98:21</p> <p><b>CIHQ</b> [1] 189:5</p> <p><b>circumstances</b> [3] 63:3 150:5,15</p> <p><b>citation</b> [1] 176:13</p> <p><b>claim</b> [1] 184:16</p> <p><b>Clare's</b> [6] 40:21 41:4,9 41:13 42:7,8</p> <p><b>clarification</b> [1] 186:13</p> <p><b>clarify</b> [4] 185:8 186:16 190:8 191:5</p> <p><b>class</b> [2] 1:13 145:20</p> <p><b>clear</b> [2] 113:15 184:20</p> <p><b>Clements</b> [4] 1:18 185:25 186:1,5</p>	
<p align="center"><b>-B-</b></p> <p><b>background</b> [4] 58:25 82:12 99:23 143:12</p> <p><b>backtrack</b> [1] 37:11</p> <p><b>bad</b> [1] 194:12</p> <p><b>bag</b> [3] 41:6 42:14 43:19</p> <p><b>Banerjee</b> [7] 24:5,8 25:5 28:19 29:9 162:23 165:22</p> <p><b>Banerjee's</b> [1] 98:10</p> <p><b>Barry</b> [3] 48:5 49:2 145:1</p> <p><b>base</b> [1] 105:25</p> <p><b>based</b> [12] 36:15 40:4 54:4 90:24 103:12 120:13 120:22 121:10,16 122:6 141:3 142:22</p> <p><b>basics</b> [3] 27:18 188:6,8</p> <p><b>basis</b> [10] 34:20 91:6</p>		<p><b>block</b> [16] 13:17,18,20 13:24 34:10 41:10,10,10 111:24,25 112:3,12,20 150:24 153:25 180:3</p> <p><b>blocked</b> [2] 10:16 45:22</p>	<p><b>bullet</b> [1] 28:14</p> <p><b>bunch</b> [1] 146:20</p> <p><b>burden</b> [1] 131:24</p> <p><b>business</b> [2] 154:13 169:20</p> <p><b>Butler</b> [2] 142:15 143:3</p>	<p><b>calibrated</b> [3] 6:5,17 114:22</p> <p><b>calibration</b> [4] 5:15 10:20 26:15 114:19</p> <p><b>calibre</b> [1] 102:7</p> <p><b>calls</b> [4] 47:15,18 109:24 154:1</p> <p><b>Cameron</b> [2] 1:3 197:6</p> <p><b>Canada</b> [6] 59:9 139:2 148:7 165:10,14 174:9</p> <p><b>Canadian</b> [7] 1:15 55:5 86:5 116:24 148:7 174:2 189:6</p> <p><b>cancer</b> [10] 1:12,15 116:25 124:25 125:1,1 126:1,2 127:5 173:3</p> <p><b>cannot</b> [2] 114:22 121:7</p> <p><b>CAP</b> [16] 31:9 32:10 132:22 146:12,18,25 147:2,13,23 148:14,24 159:25 188:23,25 189:10 189:13</p> <p><b>capability</b> [1] 141:24</p> <p><b>capable</b> [1] 141:3</p> <p><b>Capricious</b> [1] 40:8</p> <p><b>capture</b> [1] 142:17</p> <p><b>captured</b> [2] 114:21 118:4</p> <p><b>care</b> [19] 19:11 54:9,13 54:15,22,25 55:5,23 56:6 65:25 73:1 101:25 102:22 125:14 127:15,17 158:21 170:14 174:17</p> <p><b>carried</b> [2] 40:16 53:7</p> <p><b>carries</b> [1] 78:2</p> <p><b>carry</b> [1] 100:10</p> <p><b>carrying</b> [2] 95:9 99:4</p> <p><b>Carter</b> [4] 92:12 113:14 172:12 173:4</p> <p><b>case</b> [13] 8:13 11:25 95:10 98:23 107:13 127:22 152:21,21,24 153:7 155:7 181:13 189:9</p> <p><b>cases</b> [13] 64:10,16 90:22 147:14 177:21 178:8,25 179:8,14,15,16,21 180:7</p> <p><b>Catherine</b> [1] 17:19</p> <p><b>causes</b> [2] 20:12,20</p> <p><b>CCHA</b> [1] 174:1</p> <p><b>cells</b> [1] 176:7</p> <p><b>celsius</b> [1] 107:15</p> <p><b>Central</b> [1] 1:16</p> <p><b>centre</b> [1] 187:20</p> <p><b>centres</b> [1] 43:13</p> <p><b>centring</b> [2] 112:1,10</p> <p><b>CEO</b> [4] 50:1 161:14 183:17 184:12</p> <p><b>certain</b> [4] 104:19 126:1 126:1 185:9</p> <p><b>certainly</b> [17] 25:5 26:20 28:19 38:23 39:13 44:10 46:22 50:9 60:8 64:21 66:22 67:19 98:3 142:11 147:23 150:25 193:16</p>	<p><b>check</b> [4] 174:14 193:3 196:1,5</p> <p><b>Ches</b> [4] 1:12 2:8 169:12 169:15</p> <p><b>choice</b> [1] 98:21</p> <p><b>CIHQ</b> [1] 189:5</p> <p><b>circumstances</b> [3] 63:3 150:5,15</p> <p><b>citation</b> [1] 176:13</p> <p><b>claim</b> [1] 184:16</p> <p><b>Clare's</b> [6] 40:21 41:4,9 41:13 42:7,8</p> <p><b>clarification</b> [1] 186:13</p> <p><b>clarify</b> [4] 185:8 186:16 190:8 191:5</p> <p><b>class</b> [2] 1:13 145:20</p> <p><b>clear</b> [2] 113:15 184:20</p> <p><b>Clements</b> [4] 1:18 185:25 186:1,5</p>
<p align="center"><b>-C-</b></p>		<p><b>c</b> [4] 55:21,21 56:13,13</p>	<p align="center"><b>-C-</b></p>	<p align="center"><b>-C-</b></p>	<p align="center"><b>-C-</b></p>

<b>client</b> [4] 67:23 154:8,20 155:1	<b>committee</b> [1] 104:18	<b>conducting</b> [1] 130:2	<b>contribution</b> [1] 19:11	<b>created</b> [1] 82:12
<b>clinical</b> [3] 71:13 75:6 172:25	<b>common</b> [1] 62:24	<b>conference</b> [2] 161:12 161:15	<b>control</b> [21] 4:25 13:15 13:24 14:24 18:20 36:1 65:16,18 113:7 123:7,13 123:16 136:1 137:3 149:9 149:13 150:9 151:9 156:12,21,25	<b>creating</b> [1] 187:19
<b>clone</b> [3] 15:18 31:23 32:15	<b>communication</b> [2] 167:1,2	<b>conferences</b> [1] 130:8	<b>controlled</b> [1] 8:25	<b>criteria</b> [2] 9:18,20
<b>closed</b> [4] 73:15,23 74:12 74:18	<b>community</b> [2] 54:7 183:14	<b>confidentiality</b> [1] 88:14	<b>controls</b> [21] 11:15,21 11:22 12:5,7 13:6 14:7 14:24 31:25,25 36:24 38:6 63:24 83:11 103:16 122:25 123:2,25,25 124:3 151:1	<b>critical</b> [4] 6:12 10:14 54:13 97:7
<b>closing</b> [2] 53:22 54:1	<b>companies</b> [1] 105:1	<b>confined</b> [1] 94:17	<b>convention</b> [2] 126:19 126:24	<b>critique</b> [1] 83:16
<b>CMLTO</b> [1] 77:13	<b>comparative</b> [1] 70:17	<b>confirm</b> [3] 195:21,22 196:6	<b>conventions</b> [1] 104:9	<b>Crosbie</b> [57] 1:12 2:8 168:17 169:9,10,12,13 169:15,19 170:1,7,13 171:5,11,19 172:1,10,16 173:12,21 174:7,12,21 174:25 175:12,21 176:1 176:12,22 177:3,7,11,19 178:2,11,17,22 179:5,11 179:18,24 180:6,11,15 180:19,23 181:10,17,22 182:2,6 193:24,25 194:4 194:9,13,14
<b>Co-counsel</b> [2] 1:6,7	<b>compare</b> [6] 33:3 69:18 71:12 72:1 146:21 165:9	<b>confirmed</b> [1] 195:16	<b>conversion</b> [2] 171:2,8	<b>Crosbie's</b> [1] 191:1
<b>codes</b> [1] 102:1	<b>compared</b> [2] 123:14 146:19	<b>connection</b> [1] 183:2	<b>conversions</b> [2] 21:21 21:22	<b>cross</b> [2] 46:13 100:24
<b>codicil</b> [1] 98:20	<b>comparing</b> [7] 14:24 71:4 72:10 156:4,15 158:19 191:14	<b>cons</b> [2] 33:10 74:11	<b>Cook</b> [1] 24:6	<b>cross-examined</b> [1] 192:21
<b>codicils</b> [1] 103:23	<b>comparison</b> [3] 70:13 146:11 149:8	<b>consequences</b> [1] 6:24	<b>Core</b> [1] 55:8	<b>cross-reactivity</b> [1] 123:6
<b>Coffey</b> [1] 1:6	<b>competencies</b> [1] 55:8	<b>consideration</b> [1] 54:1	<b>cornerstones</b> [2] 187:24 188:3	<b>crucial</b> [1] 22:17
<b>coined</b> [1] 19:19	<b>competency</b> [2] 9:23,23	<b>considered</b> [7] 8:2 72:8 73:23 88:20 162:11 163:23 165:2	<b>Corporation</b> [1] 73:1	<b>cryostat</b> [1] 181:8
<b>cold</b> [2] 34:17 181:5	<b>compilation</b> [2] 134:16 147:15	<b>consistency</b> [6] 37:5 96:20,21,24 97:12,16	<b>correct</b> [66] 5:19 6:7 7:23 8:4,9 9:4 12:24 15:3,11 15:23 20:7 30:19 58:2,4 61:7,14 65:3 67:12 69:1 69:5,24 71:23 73:16 75:9 81:15 86:8,17 95:5 103:13 108:4,22 109:2,4 110:6,18 111:8,13,16,20 113:2 114:25 115:13,20 116:2 117:17 127:21,24 141:21 145:18,25 147:4 151:7,23 152:9 159:21 167:14 169:25 170:2 172:9 173:11 177:16 181:2 189:13,22 193:11 197:3	<b>cryostatic</b> [1] 37:15
<b>collaborate</b> [1] 166:23	<b>compile</b> [2] 21:2 32:10	<b>consistent</b> [1] 50:4	<b>corrected</b> [2] 21:11 150:3	<b>CSLT</b> [1] 187:1
<b>Collaborative</b> [1] 135:23	<b>compiled</b> [1] 4:21	<b>consistently</b> [1] 20:25	<b>corrective</b> [5] 10:4 20:9 20:12 149:20 151:18	<b>curiosity</b> [1] 92:4
<b>colleagues</b> [4] 122:17 122:21 144:3 172:25	<b>compiling</b> [1] 129:15	<b>consult</b> [2] 67:22 152:21	<b>correctly</b> [10] 18:15 51:18 103:4 110:4 114:21 117:8,14 140:1 142:17 180:24	<b>curious</b> [2] 93:5 101:9
<b>college</b> [17] 16:18 31:17 68:18 77:3 78:1,14,15 78:24,25 79:6,20 80:3 80:10,11 146:12 186:20 187:3	<b>complete</b> [1] 134:16	<b>consultancy</b> [2] 160:19 160:22	<b>correlates</b> [1] 177:24	<b>current</b> [3] 26:10 55:18 129:16
<b>column</b> [2] 26:11,12	<b>completed</b> [7] 9:25 21:9 23:14 26:11,17 27:2 167:19	<b>consultants</b> [4] 28:18 28:21 29:7,14	<b>correlation</b> [2] 119:24 120:8	<b>curriculum</b> [3] 33:22 101:11 126:15
<b>combination</b> [1] 128:11	<b>completing</b> [1] 154:20	<b>consultants'</b> [1] 29:4	<b>cost</b> [1] 74:22	<b>cut</b> [4] 37:14 51:16 80:18 111:9
<b>comfortable</b> [5] 35:4 38:23 144:6,9,18	<b>completion</b> [1] 26:12	<b>consults</b> [3] 68:8 153:1 153:11	<b>Council</b> [2] 148:7 174:2	<b>CV</b> [1] 77:17
<b>coming</b> [14] 18:16 30:22 58:23 68:4 92:7 98:9,13 107:17 151:20 153:11 179:1,1,3 192:8	<b>complex</b> [4] 56:5,9,22 62:22	<b>Cont'd</b> [1] 2:3	<b>Counsel</b> [3] 57:10 168:24 196:1	<b>cytogenics</b> [1] 56:21
<b>combination</b> [1] 128:11	<b>complicated</b> [2] 62:1 128:1	<b>contact</b> [7] 47:11 52:14 52:24 194:19 195:6,21 195:24	<b>country</b> [6] 59:18,21 74:5 79:14 162:17 187:9	
<b>comfortable</b> [5] 35:4 38:23 144:6,9,18	<b>component</b> [2] 54:13 176:4	<b>contacted</b> [3] 47:6 52:19 92:7	<b>couple</b> [6] 83:21,24 149:7 161:15 175:23 186:12	<b>dated</b> [3] 28:7 161:12 197:11
<b>coming</b> [14] 18:16 30:22 58:23 68:4 92:7 98:9,13 107:17 151:20 153:11 179:1,1,3 192:8	<b>composition</b> [2] 13:22 80:18	<b>contain</b> [1] 8:23	<b>courier</b> [1] 42:21	<b>dates</b> [2] 47:21,22
<b>commenced</b> [1] 8:21	<b>comprised</b> [1] 13:20	<b>container</b> [3] 41:7 42:14 46:4	<b>course</b> [1] 12:10	<b>day's</b> [1] 36:17
<b>comment</b> [24] 40:11 41:15 49:14 60:22 88:3 119:18 120:25 121:4,22 122:9 138:10 143:7 146:9 147:12 148:4 155:5 156:1 157:15 162:10,24 163:3 163:6,22 171:24	<b>compromised</b> [1] 67:7	<b>containing</b> [1] 7:25	<b>Court</b> [1] 52:21	<b>day-to-day</b> [1] 131:5
<b>commented</b> [2] 138:24 157:12	<b>computer</b> [2] 144:10,17	<b>contains</b> [1] 7:17	<b>cover</b> [2] 11:17 45:11	<b>days</b> [4] 90:25 150:1 192:18 193:13
<b>comments</b> [4] 44:15 161:16 177:20,23	<b>computer</b> [2] 144:10,17	<b>contemplate</b> [1] 20:19	<b>covered</b> [2] 50:12 53:17	<b>DCC</b> [4] 69:1 70:21 71:5
<b>commercially</b> [1] 106:2	<b>concentrated</b> [1] 6:14	<b>contemplating</b> [1] 19:12		
<b>Commission</b> [12] 1:1,6 1:7 52:23 101:7,13,20 102:11,18 168:24 197:4 197:7	<b>concentration</b> [2] 7:5 108:13	<b>contemporaneously</b> [2] 149:15 156:9		
<b>Commissioner</b> [54] 1:3 4:1,6 53:19,20,25 57:9 57:15 58:15,20 81:9 100:16,22 108:25 116:17 116:18 168:16,19,20 169:2,7,21,23 170:3,9 170:15 182:8,12,17,22 185:2,3,8,12,19,22,23 186:3,7 192:1,5,14,25 193:12,17,23 194:11,18 194:20 195:2,9,13,18 197:7	<b>concern</b> [3] 43:1 118:20 147:25	<b>content</b> [1] 113:16		
<b>commitment</b> [6] 128:24 129:4,5,25 130:1,11	<b>concerning</b> [3] 51:11,11 54:3	<b>CONTENTS</b> [1] 2:1		
	<b>concerns</b> [10] 10:10 40:18 41:16 100:2 113:17 116:8,9 119:18 120:24 121:18	<b>context</b> [2] 19:13 175:22		
	<b>conclude</b> [1] 193:16	<b>continual</b> [1] 17:8		
	<b>conclusion</b> [2] 23:1 196:8	<b>continue</b> [4] 11:3 21:9 140:5 193:5		
	<b>concordance</b> [4] 178:21 191:4,13,24	<b>CONTINUED</b> [1] 4:4		
	<b>concur</b> [2] 45:7 158:16	<b>continuing</b> [2] 130:9 151:19		
	<b>conduct</b> [1] 141:1	<b>Continuity</b> [1] 95:24		
	<b>conducted</b> [3] 90:3 151:13 165:21	<b>continuous</b> [1] 55:20		
		<b>continuously</b> [1] 55:9		
		<b>contradict</b> [1] 184:21		
		<b>contrasting</b> [1] 146:12		
		<b>contribute</b> [1] 90:7		
		<b>contributed</b> [2] 90:14 90:17		

**-D-**

**d** [2] 15:14 55:21

**daily** [11] 7:19 12:4,7 14:7 63:6 94:22,22 96:6 156:13 158:22,25

**DAKO** [3] 22:1 73:16 109:1

**dangerous** [2] 173:2,8

**dangerousness** [1] 173:17

**Daniel** [3] 1:10 2:5 58:17

**dark** [1] 37:19

**data** [2] 129:16,19

**date** [10] 26:6,12 35:23 36:8 46:7 49:8,20 50:8 83:22 129:20

**dated** [3] 28:7 161:12 197:11

**dates** [2] 47:21,22

**day's** [1] 36:17

**day-to-day** [1] 131:5

**days** [4] 90:25 150:1 192:18 193:13

**DCC** [4] 69:1 70:21 71:5

191:17 <b>deal</b> [3] 63:22 97:20 162:4 <b>dealing</b> [1] 195:5 <b>dealings</b> [1] 122:18 <b>deals</b> [1] 11:4 <b>dealt</b> [2] 20:2 136:13 <b>decade</b> [1] 55:3 <b>decide</b> [1] 100:10 <b>decided</b> [1] 162:2 <b>decision</b> [3] 52:22 76:25 105:6 <b>decision-making</b> [1] 54:21 <b>decisions</b> [1] 54:3 <b>dedicated</b> [8] 61:11 92:15,25 93:7,10,23 190:4,11 <b>deficiencies</b> [2] 90:2,6 <b>defined</b> [2] 56:8 176:6 <b>definitely</b> [4] 45:2 90:17 117:24 152:9 <b>definitive</b> [1] 193:5 <b>degrees</b> [2] 8:15 107:15 <b>deionized</b> [1] 107:7 <b>deliver</b> [1] 78:19 <b>demand</b> [1] 54:14 <b>demonstrate</b> [1] 62:15 <b>demonstration</b> [2] 5:22 173:5 <b>Denic</b> [2] 49:18,19 <b>department</b> [4] 36:21 37:9 104:25 190:18 <b>depend</b> [7] 63:3 74:21 139:16 145:14 150:5,15 152:20 <b>dependent</b> [1] 9:9 <b>depending</b> [3] 38:22 80:18 156:6 <b>deputy</b> [1] 183:13 <b>derived</b> [2] 70:17 101:24 <b>describe</b> [1] 170:8 <b>described</b> [6] 61:5 62:22 68:23 88:7 91:12 118:9 <b>designating</b> [2] 98:10 98:14 <b>desk</b> [3] 36:12 184:9,11 <b>despite</b> [1] 9:20 <b>detail</b> [3] 5:3 125:11 139:9 <b>detailing</b> [1] 4:23 <b>details</b> [1] 66:14 <b>detect</b> [2] 149:13 151:11 <b>detected</b> [5] 150:18 153:16 156:9 159:23 176:7 <b>detection</b> [7] 7:18 8:1 22:21 36:16 107:18,19 108:9 <b>determine</b> [7] 16:10 20:11,20 115:16 152:4 167:23 178:25	<b>determined</b> [2] 76:21 80:16 <b>determining</b> [1] 137:1 <b>detrimental</b> [1] 55:4 <b>develop</b> [5] 104:20 133:3 134:7 143:13,15 <b>developed</b> [1] 121:19 <b>developing</b> [8] 132:9,16 139:22 140:25 141:10 142:16 146:6,7 <b>development</b> [3] 20:16 80:12 99:19 <b>develops</b> [1] 99:4 <b>diagnosis</b> [5] 32:7,13 54:4 55:24 56:15 <b>dialogue</b> [2] 66:22 67:19 <b>dialogues</b> [1] 102:6 <b>difference</b> [3] 31:9 123:12 191:6 <b>differences</b> [3] 31:14 39:14 147:6 <b>different</b> [32] 13:21,23 22:2 32:7,18 34:7,14,16 34:18 35:7,10,14 39:15 39:20,25 56:19 62:23,23 63:17 65:5 84:9 86:4 93:11 105:1 108:15 144:4 144:16 146:19 147:15,16 147:20 171:14 <b>difficult</b> [4] 62:1 97:20 140:11 150:11 <b>difficulties</b> [2] 110:2 119:8 <b>digital</b> [1] 7:12 <b>dilute</b> [1] 37:18 <b>diluted</b> [1] 106:16 <b>diluting</b> [1] 7:4 <b>dilution</b> [6] 6:15,18,21 7:2 108:15 114:23 <b>dilutions</b> [2] 22:19 73:20 <b>dimension</b> [1] 171:7 <b>diminished</b> [1] 54:16 <b>direct</b> [1] 56:14 <b>directed</b> [3] 81:10 89:16 124:13 <b>directly</b> [3] 112:3 121:22 162:19 <b>director</b> [2] 98:11 105:2 <b>disclosed</b> [1] 184:14 <b>discover</b> [1] 152:7 <b>discovered</b> [2] 28:16 154:17 <b>discreet</b> [1] 55:14 <b>discuss</b> [2] 30:21 96:7 <b>discussed</b> [5] 10:5 14:19 48:17 88:2 146:11 <b>discussion</b> [6] 2:11 11:21 30:23 49:10 51:24 94:12 <b>discussions</b> [7] 16:5,8 51:6,9 122:11 142:23 146:5 <b>disease</b> [2] 55:25 147:15 <b>disorganization</b> [1]	172:4 <b>distinctions</b> [1] 146:16 <b>division</b> [3] 1:15 117:1 142:4 <b>doctors</b> [2] 1:9 54:9 <b>document</b> [16] 9:20 23:24 24:14,17,22 28:1 28:7 44:11,16 91:17 138:21,22 154:5 161:10 175:17 191:2 <b>documentation</b> [12] 5:10,14 6:1 8:21 12:5 14:8 89:9 97:4 129:8,24 137:17 143:20 <b>documented</b> [10] 4:22 8:18,19 9:18 23:14 27:2 27:4 46:8 55:1 132:24 <b>documents</b> [3] 108:2 169:22 175:1 <b>doesn't</b> [6] 43:18 49:24 145:14 146:25 159:9,14 <b>done</b> [41] 9:12 35:2 40:9 43:25 59:3 60:8 66:6 69:12 71:8,14,17 87:7 93:22 96:22 97:3 118:13 118:19 124:18 127:22 128:10,10,18 131:16 133:13,14,18 135:19 147:9 148:1,23 149:25 153:8 155:18 157:23 159:1 168:7,8 177:15 180:10,14,16 <b>door</b> [1] 130:20 <b>doubt</b> [1] 25:7 <b>down</b> [11] 4:15 35:24 38:5 41:3 48:23 92:11 112:5 129:10 131:10 144:2 161:19 <b>Dr</b> [30] 24:4,6,7 25:4 28:19 29:9 31:8 49:19 49:21,25 67:9,10 72:4 87:13 92:12 98:9 113:13 125:6 126:10 127:15 128:18 162:23 165:22 172:12 173:4 174:8 175:4 191:2 193:8 195:16 <b>draft</b> [4] 44:7,10 135:12 138:21 <b>drained</b> [3] 41:5 42:13 42:25 <b>draw</b> [3] 7:3 172:2,3 <b>drops</b> [1] 38:2 <b>Drs</b> [1] 1:18 <b>druthers</b> [1] 60:5 <b>dry</b> [1] 35:2 <b>ductal</b> [2] 113:9 124:5 <b>due</b> [2] 45:6 56:9 <b>during</b> [5] 107:12,17 108:25 121:10 162:17 <b>duties</b> [1] 95:9 <b>Dyer</b> [9] 48:5,17 49:2 50:15 57:22 145:1 172:21 183:3,25 <b>Dyer's</b> [2] 48:7 52:6 <b>dyes</b> [3] 102:21,22,24 <b>Dymond's</b> [1] 52:22	<b>dynamic</b> [3] 56:22 57:1 190:23 <hr/> <b>-E-</b> <hr/> <b>e</b> [12] 15:14,14,14,14,14 49:18 55:21,21 56:13,13 56:13 166:6 <b>e-mail</b> [7] 49:1,16 92:5 92:11 189:25 190:2 194:24 <b>early</b> [6] 28:22 29:7 92:5 92:20 137:24 144:25 <b>ears</b> [1] 180:25 <b>eased</b> [1] 55:8 <b>easier</b> [1] 79:20 <b>easily</b> [2] 38:25 53:12 <b>Eastern</b> [38] 1:10 5:24 18:3,16 21:25 22:22 24:16 28:16,21 29:2 44:8 47:6,12,16 49:3 58:22 59:3 73:1 98:2 99:19 100:9 103:3 120:14 122:12 138:21 146:3 157:23 161:14 163:8,22 164:14 165:7 167:17,22 183:18 187:18,19,23 <b>education</b> [2] 130:10 141:4 <b>educational</b> [1] 89:11 <b>effect</b> [1] 77:15 <b>effective</b> [3] 20:14 56:6 56:11 <b>eight</b> [1] 8:15 <b>either</b> [5] 93:23 121:5 162:22 171:25 196:6 <b>electron</b> [1] 56:21 <b>element</b> [3] 88:13,14 161:24 <b>embedded</b> [1] 112:19 <b>emphasis</b> [1] 172:21 <b>emphasize</b> [1] 23:5 <b>enable</b> [7] 12:19 143:13 149:13,19 151:11,25 173:16 <b>enables</b> [1] 78:18 <b>encapsulate</b> [1] 113:16 <b>encompass</b> [1] 17:6 <b>encounter</b> [1] 153:24 <b>encountered</b> [1] 146:4 <b>end</b> [16] 24:13 27:12 32:6 68:3 87:24 133:25 134:8 135:11 136:22 154:13 166:21 170:18 172:5,19 173:6 175:18 <b>end-product</b> [1] 115:24 <b>ended</b> [2] 91:9,11 <b>endogenous</b> [1] 10:13 <b>ends</b> [2] 22:25 172:19 <b>engaged</b> [1] 133:22 <b>enlightening</b> [2] 102:3 192:8 <b>enrolled</b> [3] 188:18,22 189:10 <b>ensure</b> [19] 8:19,24 18:5	19:25 20:13 21:8,10 22:15 23:11 26:24 34:11 37:4 71:17 97:23 103:16 107:5 121:24 129:19 156:13 <b>ensuring</b> [7] 102:2 118:12 129:7,9,11,11,12 <b>enter</b> [2] 169:22 170:12 <b>entered</b> [5] 170:4,5,15 175:2,2 <b>entities</b> [1] 56:19 <b>entity</b> [1] 190:19 <b>entry</b> [1] 55:6 <b>envelope</b> [2] 184:9,13 <b>environment</b> [2] 11:18 76:4 <b>epithelium</b> [5] 112:17 112:24 113:6,9 124:5 <b>epitope</b> [2] 10:15 22:7 <b>EQA</b> [3] 129:14 137:11 147:4 <b>equipment</b> [10] 9:17,19 14:17 22:10,12 37:25,25 104:14 105:7 141:25 <b>equivalent</b> [2] 17:15 99:22 <b>equivocal</b> [1] 179:16 <b>ER</b> [8] 115:17 121:11,18 122:12,18 123:18 124:9 147:19 <b>ER/PR</b> [32] 6:25 28:17 40:19 53:6 67:4 68:16 71:11,25 72:9,19 73:2 86:21 87:2 112:23 115:17 120:16,25 122:5 125:25 132:18 138:15 139:24 147:25 150:7 160:20 162:13 163:9 165:16 171:3 173:8 177:15 179:20 <b>ER/PRs</b> [1] 189:7 <b>ergonomics</b> [1] 80:20 <b>error</b> [1] 18:21 <b>essential</b> [1] 55:24 <b>establish</b> [1] 19:10 <b>established</b> [1] 10:11 <b>estrogen</b> [5] 70:22 71:5 175:7 177:13,21 <b>et</b> [1] 1:9 <b>Europe</b> [1] 127:20 <b>evaluate</b> [2] 32:20 173:17 <b>evaluated</b> [1] 172:7 <b>evaluation</b> [2] 8:18,19 <b>event</b> [2] 88:12 109:18 <b>events</b> [1] 183:16 <b>eventually</b> [1] 71:14 <b>everybody</b> [2] 4:14 196:2 <b>evidence</b> [26] 9:19,22 29:12 44:8 50:13 51:5 51:13,19 52:1 58:24 103:1,4 105:11 108:25 113:14 114:1,21 145:8 148:13 154:4 157:21
---	--	--	---	---

<p>162:18,22 183:12 184:15 184:21 <b>evolving</b> [1] 55:10 <b>exact</b> [5] 47:22 50:8 83:22 129:13 189:1 <b>exactly</b> [3] 76:23 117:11 181:2 <b>examination</b> [14] 2:3,4 2:5,6,7,8 4:3 57:12 58:17 101:2 116:20 169:12 171:22 182:19 <b>examine</b> [1] 100:25 <b>example</b> [19] 6:25 10:19 19:16 28:10 45:19 66:10 66:15 67:4 123:5 130:2 132:18 138:15 139:23 144:7 152:20 153:25 176:18 179:10 191:15 <b>examples</b> [1] 124:23 <b>exams</b> [2] 148:20 187:1 <b>excellence</b> [1] 187:20 <b>excerpt</b> [1] 161:11 <b>exchange</b> [1] 190:2 <b>exchanged</b> [1] 166:7 <b>exchanges</b> [1] 49:1 <b>excised</b> [1] 97:1 <b>excision</b> [1] 150:1 <b>excluded</b> [1] 54:20 <b>excuse</b> [1] 37:15 <b>exercise</b> [4] 178:19,21 191:4,5 <b>exercises</b> [1] 191:6 <b>exhibit</b> [5] 11:20 126:17 161:9,19 172:11 <b>exhibits</b> [4] 3:1,2 169:22 170:5 <b>existed</b> [1] 91:4 <b>existence</b> [3] 79:5 84:5 101:16 <b>exit</b> [1] 31:7 <b>expect</b> [14] 28:1 62:11 65:5 79:11 94:16 116:6 141:23 142:2 143:11 150:8 152:9 155:21 161:11 171:20 <b>expectation</b> [5] 45:21 62:17 88:12 142:8 191:12 <b>expectations</b> [4] 39:10 45:15 78:11 80:16 <b>expected</b> [6] 26:12 36:21 62:13 81:11 131:2 142:25 <b>expecting</b> [1] 14:2 <b>expects</b> [1] 29:2 <b>experience</b> [8] 60:15 63:5 64:24 141:3,11 160:3 178:5,7 <b>experienced</b> [2] 155:4,7 <b>expertise</b> [4] 60:15 61:24 66:7 99:4 <b>explain</b> [8] 19:4 20:17 101:17 107:2 111:22 117:3 127:11 178:23 <b>explaining</b> [3] 51:18 158:12 178:12</p>	<p><b>explanation</b> [2] 11:24 15:25 <b>explore</b> [2] 33:17 128:20 <b>expose</b> [1] 22:7 <b>Express</b> [1] 102:25 <b>expressed</b> [1] 192:7 <b>extensive</b> [1] 61:3 <b>extensively</b> [1] 114:17 <b>extent</b> [1] 133:20 <b>external</b> [24] 12:4 14:6 16:17 27:21 28:18 65:16 98:19 130:18 137:2,4 146:13 148:1 149:10 156:5,7,14,23 157:7,14 158:18 159:7,24 165:21 188:21 <b>extremely</b> [1] 97:7 <b>extrinsic</b> [1] 118:11</p> <hr/> <p style="text-align: center;"><b>-F-</b></p> <hr/> <p><b>faced</b> [1] 127:19 <b>facilities</b> [1] 174:17 <b>facility</b> [2] 86:14 171:22 <b>fact</b> [10] 5:9 40:2 52:20 110:13 114:12 141:9,11 145:20 183:7 190:12 <b>factors</b> [5] 74:23 90:7 90:13,17,22 <b>fail</b> [1] 63:24 <b>failed</b> [2] 65:17 151:1 <b>failure</b> [1] 17:11 <b>fair</b> [16] 29:18 61:20 62:11 73:7 74:2 79:14 90:5,12 91:2 113:18 140:9 150:17 156:6 160:18 163:8 173:9 <b>fairly</b> [1] 61:3 <b>fall</b> [1] 107:6 <b>false</b> [3] 10:12 119:14 173:13 <b>familiar</b> [10] 28:2 43:3 86:19 99:17 104:6 125:7 148:6 161:10,17 174:6 <b>familiarity</b> [1] 146:5 <b>far</b> [7] 27:23 50:10 58:24 60:6 90:21 125:20 177:16 <b>fashion</b> [4] 36:20 37:24 38:3 114:13 <b>February</b> [1] 175:6 <b>feedback</b> [5] 30:11 133:24 134:8,9 135:7 <b>felt</b> [2] 18:18 27:18 <b>few</b> [3] 117:1 138:12 169:21 <b>figure</b> [2] 176:8 191:16 <b>files</b> [1] 174:15 <b>final</b> [4] 29:4 45:5 167:18 190:25 <b>finally</b> [2] 10:10 38:6 <b>finding</b> [1] 21:6 <b>findings</b> [3] 137:20 166:13 167:6 <b>fine</b> [6] 53:16 85:23,23</p>	<p>170:12 175:11 181:3 <b>finicky</b> [2] 40:3,8 <b>firm</b> [1] 53:14 <b>first</b> [29] 7:15,20 10:19 13:10,25 25:8 49:13 54:1 59:5 68:15,16 92:6 99:10 113:22 117:6 126:24 135:12 140:4 156:24 157:7,24 158:7,9 162:1 162:23 169:21 170:21,21 176:4 <b>FISH</b> [3] 70:12 71:4 179:17 <b>fit</b> [4] 74:14,19 142:11 165:8 <b>five</b> [8] 36:19 42:15 61:10 61:18,24 62:12 64:3 92:12 <b>fixation</b> [13] 19:16 44:7 44:19 45:3,7,10 46:8 97:23 106:17 117:25 118:18 138:16,20 <b>fixative</b> [1] 103:6 <b>fixed</b> [3] 103:13 119:5 173:6 <b>flexibility</b> [1] 153:2 <b>flow</b> [2] 35:18 80:20 <b>flowing</b> [2] 18:1 95:21 <b>focus</b> [4] 17:8 60:19 78:8 91:2 <b>focused</b> [1] 158:9 <b>focusing</b> [1] 130:17 <b>follow</b> [6] 132:23 133:4 154:6,19 169:1,3 <b>followed</b> [1] 47:21 <b>following</b> [3] 45:4 46:5 66:3 <b>follows</b> [1] 113:15 <b>foot</b> [2] 172:17 176:18 <b>foregoing</b> [1] 197:2 <b>foremost</b> [3] 54:2 79:12 187:8 <b>foresee</b> [1] 59:14 <b>forget</b> [1] 126:17 <b>forgot</b> [1] 186:4 <b>form</b> [4] 154:9,20 155:13 155:23 <b>formal</b> [2] 4:22 88:3 <b>formalin</b> [15] 41:2,5 42:12,25 43:19 45:24 103:5,12 105:13,15,21 106:2,3 117:25 118:19 <b>format</b> [1] 144:2 <b>former</b> [2] 161:14 183:13 <b>forms</b> [4] 67:23 154:24 155:1,17 <b>forty</b> [1] 42:15 <b>forty-five</b> [1] 41:8 <b>forward</b> [9] 11:13 34:15 37:20 50:2 66:3 91:6 98:8 127:25 151:2 <b>forwarded</b> [1] 21:18 <b>forwarding</b> [1] 49:18 <b>found</b> [3] 90:2 184:12</p>	<p>192:9 <b>founded</b> [1] 187:4 <b>four</b> [6] 8:15 32:25 36:18 147:14 177:4 178:4 <b>fourth</b> [2] 15:5 92:13 <b>Frances</b> [3] 72:4 86:23 98:24 <b>frankly</b> [1] 192:9 <b>frequency</b> [2] 147:7 156:7 <b>fresh</b> [1] 43:22 <b>fridge</b> [1] 37:20 <b>frozen</b> [3] 37:15 181:9 181:11 <b>full</b> [5] 38:24 61:11 152:10,12 192:18 <b>fullness</b> [1] 184:7 <b>fulltime</b> [1] 17:15 <b>fully</b> [2] 140:24 141:2 <b>functions</b> [1] 78:3 <b>FYI</b> [1] 50:3</p> <hr/> <p style="text-align: center;"><b>-G-</b></p> <hr/> <p><b>g</b> [3] 15:14,14 56:13 <b>gained</b> [1] 79:21 <b>Gaman</b> [1] 132:20 <b>gamete</b> [1] 38:24 <b>gap</b> [1] 19:21 <b>gather</b> [2] 94:5 137:17 <b>gathering</b> [1] 10:20 <b>general</b> [5] 40:13 54:8 146:6 147:14,18 <b>generally</b> [2] 85:5 120:22 <b>generates</b> [1] 173:1 <b>George</b> [3] 50:1 161:13 161:21 <b>given</b> [12] 10:22 12:12 17:1 32:5 34:10 35:19 58:24 154:12 170:25 171:4 172:21 185:17 <b>giving</b> [3] 57:3 153:4 154:3 <b>global</b> [1] 160:19 <b>goal</b> [3] 17:10 187:21,23 <b>goes</b> [3] 107:20 162:13 176:8 <b>gold</b> [6] 70:2,6,8 180:2 187:9,19 <b>gone</b> [2] 38:3 171:2 <b>good</b> [11] 4:6,6,9 41:24 44:10 57:15 58:20 101:4 116:23 169:14 170:14 <b>goodness</b> [2] 84:17 156:12 <b>governing</b> [1] 55:16 <b>government</b> [3] 28:7 54:23 185:18 <b>grade</b> [1] 124:25 <b>grades</b> [1] 126:1 <b>grading</b> [1] 125:20 <b>graduated</b> [1] 187:2</p>	<p><b>great</b> [2] 16:15 162:3 <b>greater</b> [1] 120:2 <b>grossed</b> [5] 40:21 41:5,9 42:8 45:25 <b>grossing</b> [6] 42:6 45:15 95:7,9 96:10 97:3 <b>ground</b> [2] 34:6 110:17 <b>group</b> [2] 13:3 155:9 <b>groups</b> [1] 54:6 <b>guarantee</b> [1] 22:19 <b>guaranteeing</b> [1] 5:14 <b>guard</b> [4] 6:15 18:21 22:14 143:6 <b>guarded</b> [1] 22:18 <b>guards</b> [1] 40:10 <b>guess</b> [19] 104:20 105:5 106:15 107:18 115:10 118:18 119:8 128:23 135:12 139:16 140:16 146:4 149:8 151:17 153:18 160:21 173:4 174:1 176:16 <b>guide</b> [1] 78:10 <b>guidelines</b> [11] 78:10 79:1,20,25 80:5,8,11,14 81:10 132:22 143:18 <b>Gulliver</b> [2] 49:3,17</p> <hr/> <p style="text-align: center;"><b>-H-</b></p> <hr/> <p><b>h</b> [5] 15:14,14 55:21,21 56:13 <b>half</b> [6] 41:8 42:15 90:25 131:23 192:9,10 <b>halfway</b> [1] 41:18 <b>hand</b> [1] 39:2 <b>handle</b> [5] 18:19 34:16 35:1,14 131:7 <b>handled</b> [7] 14:25 39:16 95:25 96:25 103:17 121:25 152:23 <b>handling</b> [2] 36:12 45:16 <b>happening</b> [3] 12:13 40:1 43:5 <b>happy</b> [3] 36:5 158:1 172:20 <b>header</b> [2] 12:17 36:8 <b>headers</b> [1] 16:11 <b>heading</b> [1] 28:11 <b>health</b> [55] 1:11,17 5:24 18:3,16 21:25 22:22 24:16 28:16,21 29:2 40:22 41:11 42:2 43:10 44:8 47:6,12,16 49:3 54:9,13,15,22 55:5,23 58:22 59:4 73:1,2 98:2 99:20 100:10 103:3 120:14 122:12 138:21 146:3 148:8 155:24 157:23 161:14 163:8,22 164:14 165:7 167:17,22 174:2,16 183:14,18 187:18,20,23 <b>hear</b> [1] 192:22 <b>heard</b> [21] 31:4 40:14 43:5 50:19 53:1 68:23</p>
---	---	--	---	---

69:3 70:2 73:14 81:19 86:12 88:10 103:1 139:6 173:25 174:8 183:12 184:6,15,17 197:5 <b>heat-induced</b> [1] 10:15 <b>heated</b> [1] 34:17 <b>heavily</b> [1] 53:23 <b>heavy</b> [1] 133:23 <b>held</b> [1] 35:21 <b>help</b> [7] 65:23 66:21 99:15 133:23 141:4 173:23 179:6 <b>helpful</b> [3] 97:11 167:16 168:1 <b>helping</b> [1] 134:7 <b>helps</b> [1] 141:12 <b>Hennebury</b> [1] 1:9 <b>HER2</b> [1] 70:13 <b>HER2/neu</b> [2] 71:5 179:10 <b>hereby</b> [1] 197:2 <b>Hi</b> [2] 49:6,22 <b>high</b> [4] 49:6,19,22 50:3 <b>higher</b> [1] 61:23 <b>highly</b> [1] 56:9 <b>histology</b> [9] 34:8 39:19 56:17,18 78:11 80:15 81:4 93:9 190:20 <b>historically</b> [4] 56:16 180:10,14,16 <b>history</b> [1] 32:6 <b>Histotechnology</b> [1] 127:2 <b>hits</b> [1] 112:12 <b>Hm</b> [1] 85:21 <b>HNE</b> [1] 34:10 <b>holding</b> [1] 36:18 <b>holds</b> [1] 137:11 <b>hollow</b> [1] 118:9 <b>home-based</b> [1] 22:9 <b>Honourable</b> [2] 1:3 197:6 <b>hoping</b> [1] 195:12 <b>Hormone</b> [2] 1:2 197:4 <b>Hospital</b> [3] 40:21 68:18 189:14 <b>hospitals</b> [1] 174:16 <b>hour</b> [8] 41:8 42:15 193:4 194:6 195:23,24 196:4,5 <b>hours</b> [5] 44:19,23 49:8 130:13 138:20 <b>House</b> [1] 28:12 <b>housekeeping</b> [1] 169:20 <b>Howell</b> [2] 49:21,25 <b>human</b> [2] 181:23 182:3 <b>humble</b> [1] 27:22 <b>hundred</b> [1] 36:19 <b>hypothetical</b> [1] 152:15	<b>idea</b> [4] 29:5 42:25 93:16 194:25 <b>ideas</b> [1] 161:18 <b>identified</b> [11] 10:18 20:1,6,15 90:13 117:8 117:14 123:18 146:16 150:2 160:8 <b>identify</b> [4] 90:1 150:8 157:1 159:18 <b>identifying</b> [1] 159:15 <b>identity</b> [1] 194:1 <b>IHC</b> [31] 33:18,20 34:3,7 38:11 62:14,22 68:17 69:19 71:25 72:9 73:10 76:14 79:13,16 80:25 90:2 97:11,21 98:15 102:18 106:25 111:3 127:6 145:2 157:3 160:21 163:9 177:15 190:10,12 <b>imagine</b> [1] 35:10 <b>immediate</b> [1] 56:15 <b>immediately</b> [4] 28:15 54:10 65:22 157:1 <b>immuno</b> [1] 145:9 <b>immunofluorescent</b> [1] 11:4 <b>immunohistochemical</b> [2] 117:19 175:8 <b>immunohistochemist</b> [1] 93:16 <b>immunohistochemistry</b> [39] 6:13 12:6,9 14:4 15:15 23:12 26:25 31:18 37:16 56:10,14,16,18,23 59:9,12,17,22 61:12 93:17 94:3,17 96:22 98:12 99:5,12,21 102:9 103:11,12 104:24 110:16 114:20 116:1 125:16 172:23 179:4 189:6 190:18 <b>immunos</b> [1] 145:3 <b>impact</b> [7] 55:4 56:15 117:20 122:24 123:3 139:18 140:19 <b>imperative</b> [1] 55:6 <b>implement</b> [1] 139:2 <b>implemented</b> [8] 10:24 11:10 15:13 28:20 29:6 44:9 86:13 91:6 <b>implementing</b> [1] 135:18 <b>importance</b> [12] 14:23 49:4,5,19,22 50:2 54:17 114:18 127:6 128:5,16 167:1 <b>important</b> [12] 6:9,10 10:21 18:11,12,18 53:18 54:20 82:23 93:24 97:16 110:23 <b>importantly</b> [1] 78:14 <b>improper</b> [3] 45:6 114:23 119:8 <b>improve</b> [1] 55:17 <b>improvement</b> [3] 17:8 19:2 20:1	<b>improvements</b> [1] 16:15 <b>in-depth</b> [1] 62:14 <b>in-house</b> [12] 31:24 32:19 53:1 83:11 105:13 105:14,21 106:1 152:21 153:1,7,10 <b>Inaudible</b> [1] 186:6 <b>include</b> [6] 15:16 20:10 36:5 45:13 56:20 112:22 <b>included</b> [5] 9:7 46:23 46:24 95:14 98:10 <b>including</b> [4] 4:24 18:1 95:21 183:23 <b>incorporated</b> [2] 136:3 136:6 <b>incorrectly</b> [1] 123:18 <b>indeed</b> [2] 185:17 195:22 <b>independent</b> [1] 162:7 <b>indicate</b> [7] 9:6,18 11:17 17:9 26:23 46:7 195:25 <b>indicated</b> [19] 8:7 26:4 33:19 43:12 49:4,5 50:15 108:24 124:14 142:14 145:2 148:13 160:18 162:18 163:25 183:5 187:7 188:10,19 <b>indicates</b> [1] 186:17 <b>indicating</b> [1] 182:13 <b>indication</b> [3] 10:22 12:12 92:21 <b>indicators</b> [2] 19:10,13 <b>indirectly</b> [1] 166:8 <b>individual</b> [5] 101:6 106:9,11 143:13 154:24 <b>individuals</b> [1] 104:19 <b>inform</b> [1] 96:18 <b>information</b> [26] 15:16 15:17,21 21:1,2,5 28:9 29:25 31:22 35:1 78:13 80:2,21 94:6 101:15 121:9 129:15 137:20 145:1 154:11,14 165:18 166:7 170:25 171:6 176:16 <b>informative</b> [1] 167:11 <b>initial</b> [3] 25:7 73:5 88:6 <b>initiate</b> [1] 135:18 <b>initiative</b> [1] 18:2 <b>input</b> [4] 54:24,24 133:24 162:6 <b>inquired</b> [1] 183:17 <b>Inquiry</b> [3] 1:1 197:4,7 <b>inside</b> [1] 162:4 <b>inspections</b> [2] 147:2 148:23 <b>inspector</b> [1] 148:14 <b>instance</b> [3] 108:8 112:17,23 <b>instances</b> [1] 9:15 <b>Institute</b> [2] 22:11 102:5 <b>instituted</b> [3] 68:17 71:25 73:2 <b>instituting</b> [1] 98:1	<b>institution</b> [8] 76:12 94:19 104:2,13 107:3 109:1,11 120:20 <b>instrument</b> [3] 9:17 110:24 111:9 <b>integral</b> [2] 37:9 55:22 <b>Integrated</b> [3] 1:10,17 18:3 <b>intended</b> [2] 89:21 170:11 <b>intending</b> [2] 14:16 183:25 <b>intention</b> [1] 190:15 <b>interaction</b> [4] 56:11 94:18 96:6 165:20 <b>interdependent</b> [1] 56:9 <b>interest</b> [1] 99:3 <b>interested</b> [3] 31:3 59:1 67:2 <b>interesting</b> [2] 166:20 192:10 <b>internal</b> [13] 12:7 24:7 113:6 123:25,25 124:3 130:18 149:9,12 150:9 156:4,12,20 <b>internationally</b> [1] 162:1 <b>interpret</b> [1] 56:4 <b>interpretation</b> [2] 106:25 118:15 <b>interpretative</b> [1] 56:10 <b>interpreted</b> [1] 41:13 <b>interpreting</b> [2] 191:20 191:21 <b>interrupt</b> [1] 168:23 <b>interview</b> [1] 31:7 <b>intricacies</b> [1] 129:21 <b>introduced</b> [2] 37:22 169:14 <b>inventory</b> [1] 34:25 <b>investigation</b> [7] 20:11 20:19 88:20 89:3,16,22 170:21 <b>invitation</b> [1] 196:2 <b>invited</b> [1] 126:19 <b>involve</b> [3] 66:7 67:15 72:17 <b>involved</b> [22] 16:17 19:1 59:11 62:3 67:3 68:16 69:11 72:7 80:12 81:13 105:5 115:25 124:21,24 130:11 132:11 133:15,21 135:5 136:9 137:1 139:22 <b>involvement</b> [3] 65:6 87:17 104:22 <b>irregularities</b> [1] 22:14 <b>isolate</b> [1] 90:21 <b>isolated</b> [1] 109:18 <b>isolation</b> [1] 19:6 <b>issue</b> [13] 5:13 10:17,21 14:18 40:3 53:5 64:5,18 65:1 117:4 156:20 186:14 189:24 <b>issues</b> [7] 10:9,18 19:18	39:12,21 67:15 116:12 <b>it'll</b> [1] 137:17 <b>item</b> [2] 101:10,11 <b>itself</b> [1] 133:13
<b>-J-</b>				
		<b>-J-</b>		
		<b>January</b> [2] 40:15 178:5 <b>Jennifer</b> [4] 1:15 2:7 116:20,24 <b>job</b> [5] 6:10 34:4 38:11 38:20 116:7 <b>jobs</b> [1] 131:18 <b>John's</b> [9] 27:3 29:3 39:25 40:5,20 72:25 88:6 197:8,11 <b>Jones</b> [1] 184:12 <b>journal</b> [3] 176:13,14,17 <b>journals</b> [1] 130:9 <b>Judge</b> [1] 52:22 <b>judgment</b> [1] 184:13 <b>Judy</b> [2] 197:2,13 <b>juggle</b> [1] 131:19 <b>July</b> [1] 92:5 <b>June</b> [9] 1:4 24:25 25:3 25:12 26:4,5,19 197:5 197:12 <b>Justice</b> [2] 1:3 197:6		
<b>-K-</b>				
		<b>-K-</b>		
		<b>Kara</b> [1] 1:9 <b>keep</b> [3] 37:20 55:18 103:24 <b>keeping</b> [1] 129:16 <b>kept</b> [2] 34:17 35:25 <b>key</b> [2] 28:14 118:18 <b>Khalifa</b> [2] 175:4 191:2 <b>kidney</b> [1] 37:13 <b>kind</b> [11] 20:18 49:14 75:11 81:11 82:4 97:12 98:13 99:2 100:1 173:18 195:4 <b>knew</b> [3] 94:4 143:23 171:14 <b>knowledge</b> [19] 55:18 55:23 58:6,10 60:18 61:23 79:21 105:25 146:2 148:10 166:10 183:1,5,7 183:16,24 184:2,4 185:16 <b>known</b> [1] 161:25 <b>knows</b> [1] 144:1		
<b>-L-</b>				
		<b>-L-</b>		
		<b>L</b> [3] 15:14 55:21 56:13 <b>lab</b> [60] 5:24 6:5 34:3 38:11 39:7,24 40:4 41:3 49:23 53:7 65:7 69:12 73:17 75:2,12,14,20 76:5 76:11,11 82:2 84:15,21 87:1 91:3 96:22 97:2,14 111:4 121:11,17 122:7 124:8,14 129:3,23 130:19 131:9 133:4 142:9 145:2 149:13,19 151:5,11,25		

-I-



156:9 159:19 160:1 163:8 163:9,17 164:4,17 165:8 165:9 167:18 171:16 172:4 173:7	<b>less</b> [2] 96:9 149:14		28:7 29:5 30:11 44:16 45:5 46:18 47:5 49:2,7 50:4 51:25 53:22,24 57:10 61:25 106:17 112:24 113:5,11 116:12 120:24 139:6 144:5 156:9 161:13 170:16 171:12 173:24 183:14 194:1	35:5,6 39:11
<b>laboratories</b> [7] 54:12 79:13,17 81:18 162:16 164:10 187:12	<b>letter</b> [9] 30:14,16 113:12 113:13,16,22 114:4,8 172:12	<b>-M-</b>	<b>MCCLS</b> [1] 133:7	<b>microwave</b> [3] 22:8,9 107:14
<b>laboratory</b> [46] 12:6,10 13:9 14:16 17:13 19:9 19:25 20:24 32:9 34:9 54:5,5,17,19 55:2,11 56:1,12,17 57:1 59:24 61:2,9 66:18 70:5 77:3 79:11,22 83:9 90:3 98:17 100:5 118:10 128:23 130:1 137:25 160:12 162:12 163:11,24 172:23 172:25 186:21 187:3 188:4 190:23	<b>level</b> [10] 54:25 56:24 59:11 61:1,23 72:13,16 81:18 89:8 110:17	<b>m</b> [4] 55:21,21,21,21	<b>mean</b> [15] 13:18 16:7 26:14 38:1 51:16 120:3 123:9 139:19 143:14 144:6 145:21 153:21 164:7 168:23 175:8	<b>mid</b> [1] 40:14
<b>laboratory's</b> [1] 19:11	<b>levels</b> [1] 65:6	<b>machine</b> [7] 103:2,5 104:2,4,7 109:6 111:18	<b>means</b> [3] 19:4 70:4 197:10	<b>middle</b> [11] 162:12,15 163:10,15,23 164:3,4,11 164:14,24 165:2
<b>Labrador</b> [4] 57:18 116:25 197:8,11	<b>licensed</b> [3] 79:23 186:15 186:22	<b>machinery</b> [1] 73:10	<b>meant</b> [3] 24:14 164:11 191:23	<b>midway</b> [1] 161:19
<b>Labrador-Grenfell</b> [1] 1:16	<b>licenses</b> [1] 78:2	<b>machines</b> [3] 36:17 181:12,13	<b>mechanical</b> [2] 110:24 111:9	<b>might</b> [17] 27:17 39:25 42:15 63:18 73:16 74:18 84:19 88:2 138:23 139:1 139:10 150:2 154:18 158:6 159:17 164:6 190:12
<b>Labradorians</b> [1] 173:3	<b>licensing</b> [2] 77:5,9	<b>Madam</b> [3] 53:24 170:15 172:11	<b>mechanisms</b> [1] 86:20	<b>mightn't</b> [1] 61:16
<b>labs</b> [9] 40:1 74:5 76:15 76:23 100:3 164:7 165:9 165:14 187:8	<b>licensure</b> [1] 186:25	<b>magazines</b> [1] 78:8	<b>medical</b> [17] 1:14 54:5,7 54:17,19 55:2,10,11 56:1 56:12 59:23 77:3 100:5 130:10 137:25 186:20 187:3	<b>mind</b> [7] 20:2 23:9 45:11 53:23 54:10 103:24 149:11
<b>lack</b> [1] 164:5	<b>lifting</b> [1] 133:23	<b>mail</b> [2] 49:19 166:7	<b>mechanics</b> [4] 131:11 133:11,12 144:20	<b>minister</b> [5] 28:10,12 29:12,24 183:13
<b>Laing</b> [1] 1:9	<b>ligand</b> [4] 68:23 69:19 72:11,18	<b>maintain</b> [3] 55:17 128:25 129:3	<b>mechansims</b> [1] 86:20	<b>minutes</b> [2] 41:8 42:16
<b>large</b> [2] 80:19 161:20	<b>likely</b> [4] 29:5 119:11 120:15 121:12	<b>maintained</b> [3] 10:9 129:8,21	<b>medicines</b> [1] 18:5	<b>mirror</b> [1] 76:18
<b>larger</b> [1] 45:16	<b>limit</b> [1] 195:4	<b>maintaining</b> [2] 128:22 140:5	<b>meet</b> [1] 79:24	<b>missing</b> [3] 21:1 27:18 119:1
<b>largest</b> [1] 54:6	<b>limits</b> [1] 9:16	<b>maintenance</b> [1] 5:10	<b>meeting</b> [3] 30:25 101:14 102:3	<b>mistake</b> [1] 189:1
<b>last</b> [11] 4:11 5:11,16 18:7 23:10 44:7 47:15,20 83:24 101:11 192:20	<b>line</b> [4] 49:16,20 53:11 192:19	<b>Majesty</b> [2] 1:8 57:17	<b>members</b> [5] 1:12 55:22 77:4,13 102:4	<b>mistaken</b> [1] 12:15
<b>late</b> [5] 27:3 29:5,9,10 40:15	<b>lines</b> [1] 18:7	<b>major</b> [1] 17:7	<b>memo</b> [1] 191:2	<b>misunderstanding</b> [1] 140:14
<b>laws</b> [1] 55:15	<b>lining</b> [1] 112:12	<b>malignant</b> [1] 176:7	<b>memorandum</b> [1] 175:3	<b>misunderstood</b> [2] 68:14 134:2
<b>lay</b> [1] 70:3	<b>link</b> [2] 172:2,3	<b>manage</b> [1] 132:4	<b>Mendas</b> [1] 75:11	<b>mix</b> [1] 155:18
<b>LBA</b> [1] 68:24	<b>linkages</b> [1] 46:13	<b>management</b> [10] 17:2 17:3,5,6,12 18:2,20,25 19:24,25	<b>mention</b> [2] 70:2 143:5	<b>MLTs</b> [1] 92:14
<b>lead</b> [7] 61:17,22 99:22 106:17 118:5 119:9 132:16	<b>list</b> [3] 3:1 32:3 170:11	<b>manager</b> [7] 75:14,16 132:20 133:15 136:8,14 137:16	<b>mentioned</b> [18] 18:6 46:19 57:20 77:2 81:20 104:12 107:24 108:18 122:21,25 125:6 130:3 137:24 138:12 139:20 157:21 166:25 179:6	<b>mode</b> [1] 89:11
<b>leaders</b> [1] 54:22	<b>listed</b> [1] 92:12	<b>mandated</b> [4] 82:6,9 188:19 189:11	<b>Memo</b> [1] 191:2	<b>Modi</b> [1] 132:20
<b>leads</b> [1] 115:9	<b>lit</b> [1] 11:18	<b>mandatory</b> [1] 77:9	<b>mentions</b> [2] 101:12 176:8	<b>module</b> [2] 147:19,19 147:17
<b>learn</b> [7] 12:19 13:1 14:15 34:19,24 37:18,19	<b>liver</b> [1] 13:21	<b>manner</b> [11] 15:1 40:9 56:4 97:4 103:17 118:14 120:1 122:1 129:13 147:4 179:2	<b>message</b> [1] 92:12	<b>modules</b> [2] 59:23 147:17
<b>learned</b> [1] 37:17	<b>living</b> [1] 108:1	<b>manual</b> [14] 4:18 8:23 9:7,15 34:24 108:15 117:11 130:23 133:12 135:12 136:6,11 137:5 137:11	<b>messages</b> [1] 28:14	<b>Molecular</b> [1] 127:5
<b>learning</b> [7] 21:3 35:6 37:3,6 55:20 78:8 137:25	<b>loaf</b> [2] 46:1,2	<b>manuals</b> [8] 27:16 85:16 98:18 134:12,16,18 136:2 136:3	<b>met</b> [4] 45:3 58:21 165:24 166:1	<b>moment</b> [2] 25:19 53:4
<b>least</b> [6] 40:14 45:9 54:7 59:22,25 60:2	<b>loafed</b> [1] 45:23	<b>manufacturer</b> [2] 31:23 109:23	<b>method</b> [14] 15:19 22:5 22:7,7 28:16 68:17,24 69:1 70:21 72:1 177:15 179:17 191:14,15	<b>monitor</b> [3] 19:10 22:13 124:15
<b>leaving</b> [1] 13:9	<b>localization</b> [1] 46:16	<b>manufacturers</b> [2] 138:2,7	<b>methodology</b> [1] 180:18	<b>monitored</b> [1] 20:13
<b>lecture</b> [5] 127:4,12,14 127:18 128:6	<b>log</b> [1] 10:4	<b>Mapping</b> [1] 127:5	<b>methods</b> [1] 73:21	<b>monitoring</b> [6] 87:2,18 124:22,25 125:8,23
<b>lecturer</b> [1] 126:19	<b>logical</b> [1] 158:7	<b>March</b> [6] 24:2,9,13 27:3 27:12 29:10	<b>microscope</b> [4] 5:10 12:21 14:10 35:25	<b>monitors</b> [1] 124:8
<b>lectures</b> [1] 31:2	<b>logs</b> [1] 20:9	<b>Margaret</b> [1] 197:6	<b>microscopy</b> [1] 56:21	<b>month</b> [3] 24:23 63:6 130:13
<b>left</b> [12] 4:11 24:15,16 36:24 38:10,19 140:20 142:3 181:12 184:9 193:18 194:16	<b>longer</b> [2] 109:21,22	<b>mark</b> [4] 1:14 32:22,23 32:25	<b>microtome</b> [3] 37:14 110:9,17	<b>months</b> [6] 10:22 11:13 18:11 38:24 39:18 52:10
<b>legal</b> [2] 88:14 114:2	<b>look</b> [22] 27:15,25 36:2 44:6,11 46:22 48:25 65:10,17 92:11 97:9 104:25 116:7 120:18 121:23 135:15 152:24 156:25 157:7 171:3 180:7 186:15	<b>marked</b> [3] 35:16,23 170:5	<b>microtomes</b> [2] 181:3,5	<b>morning</b> [29] 4:6,7,9 37:2 39:1 50:9 57:15,19 58:20 100:19,21,23 101:4 110:13,19 111:16 115:22 116:23 117:2 124:7 138:16,22 139:20 157:12 157:15,21 169:14 182:25 193:8
<b>legislation</b> [1] 82:11	<b>looked</b> [3] 139:7 171:24 172:12	<b>markers</b> [1] 31:21	<b>microtomy</b> [5] 34:6,14	<b>Moss</b> [2] 197:2,13
<b>legislature</b> [1] 51:6	<b>looking</b> [12] 5:3 31:1 36:13 96:13,16 104:23 125:24 157:22 162:4,5 191:13,15	<b>marketplace</b> [1] 32:15		<b>most</b> [7] 64:21 67:21 78:14 103:11 115:25 117:24 123:1

Inquiry on Hormone Receptor Testing

<p>44:1 53:8 59:2 66:25 67:6,9 74:25 79:11 105:13,14 106:23 108:7 124:23 142:24 187:8 188:21 189:13 <b>move</b> [4] 36:25 37:24 98:13 100:1 <b>movement</b> [1] 139:1 <b>moving</b> [3] 16:1 36:11 191:18 <b>Ms</b> [711] 2:2 4:2,3,7,8,9 5:6,18,21,25 6:6,11 7:1 7:9,22 8:3,8 9:3,11 10:1 10:6,25 11:8,14,19 12:1 12:14,23 13:2,12,19 14:12,20 15:2,10,22 16:3 16:9,22 17:18,21,22 18:8 18:14 19:5,14 20:4,21 21:23 23:7,20,23 24:10 24:19 25:9,16,22 26:1,7 26:13 27:5,10,14 28:4 28:24 29:21 30:6,10,13 30:18,24 31:11,16 33:4 33:9,14,24 34:5 38:8,12 38:16,21 39:9,23 40:7 40:24 41:17,21 42:3,9 42:17,22 43:2,6,14,20 44:3,12,17,25 45:12,20 46:10,17 47:1,4,8,14,19 47:25 48:4,9,14,18,22 49:3,12 50:7,18,21,23 51:1,3,10,17 52:2,7,11 52:16,25 53:3,9,21 57:6 57:7,12,15,20,23 58:3,9 58:13,17,20 59:19 60:7 60:12,21 61:6,13,19 62:4 62:8,16 63:2,7,14,23 64:7,13,20 65:2,12,24 66:9,20 67:5,11,17 68:1 68:11,19,25 69:4,8,14 69:21 70:9,15,20 71:16 71:22 72:3,12,20 73:6 73:11 74:1,7,13,20 75:3 75:8,11,13,17,21,25 76:6 76:16,24 77:6,11,16,21 78:4,21 79:2,8,15 80:1,7 80:13,24 81:3,7,14,21 82:1,8,13,18 83:1,6,20 83:25 84:4,11,16,22 85:2 85:7,11,15,20 86:1,7,16 86:22 87:4,8,14,19 88:1 88:16,22 89:4,12,18,23 90:9,16,23 91:7,13,18 91:22 92:1,8,17,22 93:2 93:8,15 94:1,13,21 95:4 95:11,17,23 96:3,23 97:15,22 98:5,16 99:7 100:4,8,14 101:2,4,19 101:23 102:14,20 103:7 103:14,21 104:3,8,15,21 105:8,16,22 106:4,8,12 106:19 107:4,21 108:3 108:10,21 109:3,8,14,19 110:5,10,20,25 111:5,12 111:19,23 112:9,18 113:1 113:8,13,20 114:3,7,14 114:24 115:4,12,19 116:3 116:13,19,20,22,23 117:9,12,16,18,23 118:1 118:3,6,8,16,23,25 119:3 119:6,12,17,21,23 120:5 120:7,10,12,17,21 121:1</p>	<p>121:3,6,8,13,15,21 122:2 122:8,10,14,16,20,23 123:4,15,19,21,23 124:2 124:4,6,10,12,16,20 125:2,4,13,17,19,22 126:3,5,7,9,12,14,21,23 127:1,3,8,10,13 128:3,7 128:14,17,19 129:6,22 130:5,7,12,15 131:4,6 131:15,20,25 132:2,6,8 132:12,14,19 133:1,5,9 133:17,19 134:1,4,10,13 134:15,19,22,24 135:2,4 135:8,10,13,17,22,24 136:5,7,12,16,18,20,23 136:25 137:6,8,10,12,15 137:23 138:3,5,9,11,17 138:19 139:5,8,12,14,25 140:8,13,15,21,23 141:6 141:8,14,17,20,22 142:5 142:7,10,13,18,20 143:2 143:4,8,10,17,24 144:8 144:11,13,15,21,23 145:5 145:7,11,13,17,19,24 146:1,8,10,22,24 147:1 147:5,11,22 148:3,5,9 148:11,15,17,19,22,25 149:2,4,6,16,18,21,23 150:4,6,10,12,14,16,21 151:3,6,8,14,16,22,24 152:2,6,14,16,18,25 153:6,9,13,15 154:7,16 154:21,23 155:3,6,10,20 155:25 156:3,11,17,19 156:22 157:4,6,9,11,17 157:19 158:3,5,10,13,15 158:23 159:4,6,11,13,20 159:22 160:2,5,10,13,15 160:17,25 161:3,6,8 162:25 163:2,5,7,18,20 164:9,12,18,21,23,25 165:4,6,11,13,17,19,23 165:25 166:3,5,9,11,15 166:17,19,24 167:8,10 167:13,15,21,24 168:2,5 168:9,11,12,14 169:12 169:17 170:24 171:9,17 171:23 172:8,14 173:10 173:19 174:5,10,19,23 175:10,19,24 176:10,20 176:25 177:5,9,17,25 178:9,14,20,24 179:9,13 179:22 180:1,9,13,17,21 181:7,15,20,25 182:4,19 182:24 183:9,12,20 184:3 184:11,23 186:8,9,24 187:13,22 188:2,7,13,24 189:4,12,17,21 190:5,14 191:7 192:2,3,12,17 <b>Mullen</b> [15] 1:18 67:10 72:5 84:19 86:24 87:10 87:11,13 124:19 126:10 161:1 173:20 177:1 178:15 193:8 <b>multi</b> [2] 12:16 36:7 <b>multi-tissue</b> [1] 13:16 <b>multiple</b> [2] 154:18,18 <b>must</b> [18] 8:22 9:14 10:10 14:8 15:16 17:9 34:22 34:22 46:8 55:9 56:3,4 70:25 77:12 129:18,18 129:21 172:18</p>	<p style="text-align: center;"><b>-N-</b></p> <p><b>n</b> [4] 15:14 55:21 56:13 56:13 <b>name</b> [4] 57:16 101:4 116:23 174:9 <b>names</b> [1] 35:8 <b>narrow</b> [1] 19:21 <b>Nash</b> [1] 49:18 <b>nation</b> [3] 40:2 140:3,7 <b>national</b> [14] 22:11 40:2 44:20 45:1 54:25 102:5 127:2 138:14,24 139:2 139:15 140:18 186:25 187:1 <b>nationally</b> [1] 161:25 <b>nature</b> [2] 56:10,22 <b>near</b> [1] 27:16 <b>nearly</b> [1] 53:24 <b>necessarily</b> [12] 46:3 62:13 67:18 78:16 81:12 89:5 94:23 123:20,24 140:10 147:24 150:22 <b>need</b> [28] 4:17 6:14 13:1 21:7,7 34:19 53:14 60:14 63:22 64:5 66:2 72:4 86:23 98:20 103:16 121:23 129:2 130:21,23 131:22 135:15 152:4,22 158:20 161:1 170:8 177:1 178:15 <b>needed</b> [7] 4:22 9:22 59:8 63:19 76:22 103:23 104:25 <b>needle</b> [1] 46:16 <b>needs</b> [8] 21:3 59:10 64:19 65:1 74:14,14,17 74:21 <b>negated</b> [1] 49:14 <b>negative</b> [20] 11:22 13:6 13:15 14:1,7 31:25 83:13 118:5 119:14 122:25 123:2,8,9,13,13,16 173:13 176:5 179:15 180:4 <b>negatively</b> [1] 107:9 <b>negatives</b> [2] 87:25 117:14 <b>neighbourhood</b> [1] 173:15 <b>NEQAS</b> [10] 16:19 31:10 32:17 146:14,17 147:16 157:16 158:1 159:25 188:23 <b>net</b> [1] 156:24 <b>never</b> [13] 6:1,5,18 31:4 34:11 50:10 96:4 122:21 148:20 165:24 166:1,1 171:24 <b>new</b> [17] 9:1,17,19 25:12 29:3 108:13 129:17 130:21,24 135:19 139:24 174:9 179:7,19 180:5 191:10,10 <b>Newbury</b> [156] 1:15 2:7 116:21,22,24 117:12,18</p>	<p>118:1,6,16,25 119:6,17 119:23 120:7,12,21 121:3 121:8,15 122:2,10,16,23 123:15,21 124:2,6,12,20 125:4,17,22 126:5,9,14 126:23 127:3,10 128:3 128:14,19 129:22 130:7 130:15 131:6,20 132:2,8 132:14 133:1,9,19 134:4 134:13,19,24 135:4,10 135:17,24 136:7,16,20 136:25 137:8,12,23 138:5 138:11,19 139:8,14 140:8 140:15,23 141:8,17,22 142:7,13,20 143:4,10,24 144:11,15,23 145:7,13 145:19 146:1,10,24 147:5 147:22 148:5,11,17,22 149:2,6,18,23 150:6,12 150:16 151:3,8,16,24 152:6,16,25 153:9,15 154:16,23 155:6,20 156:3 156:17,22 157:6,11,19 158:5,13,23 159:6,13,22 160:5,13,17 161:3,8 163:2,7,20 164:12,21,25 165:6,13,19,25 166:5,11 166:17,24 167:10,15,24 168:5,11 <b>Newfoundland</b> [9] 18:5 21:15,17 57:18 95:2 116:25 175:5 197:8,11 <b>Newfoundlanders</b> [1] 173:2 <b>news</b> [1] 161:12 <b>next</b> [7] 49:25 55:3 81:24 151:19 186:19 196:4,5 <b>nine</b> [1] 39:18 <b>nine-month</b> [1] 178:5 <b>NIST</b> [1] 22:10 <b>NL</b> [3] 1:8,14,15 <b>nomenclature</b> [1] 35:7 <b>non</b> [1] 63:24 <b>non-specific</b> [2] 10:11 123:5 <b>none</b> [2] 11:9 52:17 <b>nor</b> [1] 6:20 <b>normal</b> [3] 112:17,23 113:6 <b>normally</b> [1] 150:1 <b>note</b> [9] 5:15 7:16,19,25 8:22 16:15,16 28:3 29:11 <b>notes</b> [2] 28:11 41:24 <b>nothing</b> [4] 94:4 134:20 171:14 182:7 <b>notice</b> [1] 179:6 <b>noticed</b> [2] 126:15 181:1 <b>notified</b> [1] 49:7 <b>notify</b> [1] 8:16 <b>notwithstanding</b> [1] 139:23 <b>now</b> [28] 8:6 9:8 25:14 35:22 46:21 51:22 61:9 73:22 74:6 79:23 81:17 90:1 92:20 94:9,11,16 96:20 98:8 102:11 104:12 110:8 158:11 162:17</p>	<p>174:9 175:1 179:23 182:13 191:18 <b>nowhere</b> [1] 27:16 <b>NSH</b> [1] 126:19 <b>nuclear</b> [1] 176:6 <b>nuclei</b> [1] 118:9 <b>number</b> [23] 5:1 17:25 19:17 21:20 25:6 26:14 35:24 53:10,14 69:9 70:24 71:3 77:22 90:1 101:5,16 126:18 151:19 155:16 176:7,15 178:25 180:7 <b>numbers</b> [4] 19:21 147:8 180:20 191:17 <b>nurses</b> [1] 54:9 <b>nuts</b> [2] 158:21,24</p> <p style="text-align: center;"><b>-O-</b></p> <p><b>O</b> [4] 55:21,21 56:13,13 <b>O'Dea</b> [2] 1:16 116:19 <b>O'Malley</b> [5] 1:18 67:10 72:4 86:23 125:6 <b>objective</b> [1] 162:9 <b>obligation</b> [1] 55:11 <b>observations</b> [3] 120:15 121:5 142:21 <b>observed</b> [4] 121:10,16 122:7 171:21 <b>obtaining</b> [1] 183:18 <b>obviously</b> [2] 110:23 194:23 <b>occasion</b> [1] 67:14 <b>occur</b> [4] 55:2 119:11 123:10 160:4 <b>occurring</b> [2] 12:9 119:13 <b>occurred</b> [2] 40:22 172:22 <b>occurrence</b> [1] 109:17 <b>occurring</b> [1] 156:20 <b>off</b> [19] 8:12 32:9,23 34:6 41:5 42:13,25 51:16 83:14 98:18 107:6,12,17 117:2 129:20 135:14,15 136:21 143:6 <b>offer</b> [1] 57:4 <b>offered</b> [1] 138:1 <b>offering</b> [2] 138:8 184:20 <b>offhand</b> [2] 160:14,16 <b>office</b> [3] 184:18 193:3 196:5 <b>officials</b> [1] 54:23 <b>often</b> [4] 28:11 62:21 85:19 108:7 <b>OLA</b> [6] 81:20,22,24 84:5 132:22 148:18 <b>old</b> [2] 5:23 9:1 <b>once</b> [10] 20:5,5 29:3 35:4 63:6 89:7,8 96:25 116:9 167:18 <b>one</b> [64] 18:15 20:23 23:15 24:24 26:4 32:4 33:7,13 34:9,21 36:24</p>
--	--	--	---	---

<p>47:20,20,20 53:5 54:6 57:18 59:7 63:12 67:3 70:14 74:11 79:12 81:11 82:5 86:10 89:1 91:17 92:4,13 93:23 94:2 103:23 119:10,13 120:24 121:23 127:18 129:9 136:6 138:15 146:15,21 155:8,11,13,16 157:25 158:16 160:12,16 168:25 171:7 176:3 177:23 190:21 191:13 192:19 193:18,21 194:16 195:5 195:8,10</p> <p><b>one-step</b> [1] 37:16</p> <p><b>ones</b> [4] 64:11 90:14 101:24 146:4</p> <p><b>ongoing</b> [1] 26:17</p> <p><b>Ontario</b> [14] 77:3,10,12 78:3,12 79:6 81:17 82:2 82:23 83:19 84:14 186:15 186:21 187:4</p> <p><b>onto</b> [1] 112:5</p> <p><b>onus</b> [1] 55:16</p> <p><b>open</b> [8] 73:14,18 74:11 74:18 75:24 76:3 129:17 129:20</p> <p><b>operating</b> [39] 4:18 34:23 45:14 89:9 105:20 108:1,8 125:9,14 130:22 132:10,16,25 133:3 134:6 134:21 136:2 139:22 140:25 141:10,19 142:16 143:14,16,19,21 144:19 145:10,16,22 146:7 160:6 163:13 164:2,6,8,19 165:15 188:14</p> <p><b>opinion</b> [8] 27:22 29:17 30:4 44:24 55:5 56:22 57:4 106:5</p> <p><b>opportunities</b> [2] 20:1 78:8</p> <p><b>opportunity</b> [9] 35:12 35:19 57:3 96:9 100:24 154:10 166:21 184:8 192:21</p> <p><b>oppose</b> [1] 103:5</p> <p><b>opposed</b> [4] 33:8 81:12 169:4 190:22</p> <p><b>optimal</b> [1] 151:9</p> <p><b>optimally</b> [1] 159:1</p> <p><b>order</b> [9] 4:21 14:10 35:3 36:14 42:12 66:8 91:4 174:15 195:1</p> <p><b>organization</b> [13] 5:4 19:2 74:15,22 82:4 93:18 153:12,21 162:4,8 172:4 174:1 190:16</p> <p><b>organizations</b> [1] 82:6</p> <p><b>organized</b> [1] 37:23</p> <p><b>orientation</b> [1] 61:4</p> <p><b>original</b> [7] 11:23 20:14 21:16 25:14 90:7,14 121:24</p> <p><b>originally</b> [3] 51:21 91:14 101:24</p> <p><b>Osborne</b> [3] 28:13 29:12</p>	<p>29:25</p> <p><b>Oscar</b> [2] 49:23 50:3</p> <p><b>otherwise</b> [3] 39:6 53:20 196:7</p> <p><b>ourselves</b> [4] 36:1,4 65:25 104:23</p> <p><b>outcome</b> [2] 7:7 71:13</p> <p><b>outlines</b> [1] 165:5</p> <p><b>outlining</b> [1] 4:18</p> <p><b>outset</b> [1] 93:22</p> <p><b>outside</b> [5] 9:16 67:22 68:7 130:1 153:11</p> <p><b>overall</b> [2] 27:10 176:2</p> <p><b>overnight</b> [1] 181:13</p> <p><b>overseeing</b> [2] 84:12 133:16</p> <p><b>overstatement</b> [1] 29:22</p> <p><b>overview</b> [3] 44:18 175:14,16</p> <p><b>overwhelming</b> [1] 34:20</p> <p><b>own</b> [22] 21:19 31:24 33:10 38:10,20 53:1 65:11,21 66:7 76:17,17 96:10 134:11,18,23,25 142:9 146:17,25 160:20 163:17 194:15</p> <hr/> <p style="text-align: center;"><b>-P-</b></p> <hr/> <p><b>P</b> [3] 4:14 26:22 170:5</p> <p><b>P-0101</b> [2] 113:12 172:11</p> <p><b>P-0110</b> [1] 161:9</p> <p><b>P-0277</b> [1] 24:9</p> <p><b>P-0314</b> [1] 27:25</p> <p><b>P-0455</b> [1] 48:25</p> <p><b>P-0764</b> [1] 44:6</p> <p><b>P-1743</b> [1] 91:21</p> <p><b>P-1757</b> [1] 23:23</p> <p><b>P-1850</b> [3] 3:2 170:5 175:3</p> <p><b>P-1851</b> [2] 3:2 170:5</p> <p><b>P-1852</b> [2] 3:2 170:5</p> <p><b>P-1853</b> [1] 3:2</p> <p><b>p.m</b> [1] 49:21</p> <p><b>pack</b> [11] 162:12,15 163:10,15,24 164:3,4,11 164:15,24 165:2</p> <p><b>packed</b> [2] 41:6 42:13</p> <p><b>page</b> [25] 4:15,19 11:3,5 11:20 18:23 23:10 27:25 101:12 126:16,18 161:18 161:20 172:17,18 175:15 176:3,19 177:4,12 178:4 186:16,18,19,19</p> <p><b>paper</b> [1] 144:2</p> <p><b>paperwork</b> [4] 32:9,24 129:7 174:14</p> <p><b>paragraph</b> [7] 23:9 172:19 176:3,9 177:22 177:23,23</p> <p><b>paragraphs</b> [1] 23:15</p> <p><b>parallel</b> [2] 9:1 72:17</p> <p><b>parameters</b> [3] 22:23</p>	<p>34:18 51:21</p> <p><b>paramount</b> [2] 23:12 26:25</p> <p><b>Pardon</b> [2] 149:3 180:12</p> <p><b>Parnell</b> [2] 17:19,21</p> <p><b>part</b> [26] 15:8 16:14 19:7 22:17 33:20,21,22 36:9 37:8,9 38:22 59:23 61:22 62:7,9 69:22 76:25 84:9 102:12 128:2 131:5 137:4 155:23 160:19 161:2 190:19</p> <p><b>participate</b> [1] 62:18</p> <p><b>participated</b> [2] 84:25 127:4</p> <p><b>participating</b> [1] 31:4</p> <p><b>particular</b> [43] 18:17 20:24 21:4 22:6,9 26:5 33:7 74:10 76:3 77:25 90:21,22 96:17 102:1 103:4 104:6 106:1,15,24 107:1,13 109:6,12 110:3 123:7 127:12,14,18,22 128:6,9 147:17 151:1 152:8,11,13,24 161:15 161:24 165:9 173:8 191:15 193:15</p> <p><b>particularly</b> [3] 67:2,2 132:17</p> <p><b>parts</b> [2] 38:22 39:6</p> <p><b>passed</b> [1] 186:25</p> <p><b>passes</b> [3] 49:17,20,25</p> <p><b>passing</b> [1] 88:2</p> <p><b>past</b> [2] 54:19 188:19</p> <p><b>Pat</b> [1] 50:24</p> <p><b>pathologist</b> [22] 32:2,21 32:22 36:6 37:21 56:1,4 56:12 66:16 86:5 96:5 97:6 98:11,14 99:1 115:16 152:11,12 153:5 155:11,17 191:21</p> <p><b>pathologist's</b> [3] 115:23 127:16 146:13</p> <p><b>pathologists</b> [35] 15:20 16:4,19 31:1,17 32:1 41:14 64:17 65:7 66:17 66:21,25 68:5,7 86:12 86:21 95:7 96:4,8 105:5 118:15 119:20,22 133:20 133:21 134:3,3,11,25 135:5,20 154:11,12 167:3 175:5</p> <p><b>pathology</b> [21] 14:15 39:7 45:5 55:25 59:23 60:14 70:24 94:12,19 95:2,15,21 96:19 97:16 98:1,23 113:5 128:13 147:18 176:14 188:3</p> <p><b>Pathways</b> [1] 127:5</p> <p><b>patient</b> [19] 14:7 15:1 19:11 20:25 32:6 54:25 56:6,15 71:13,21 152:8 152:11,13 153:23,24 154:4 155:22 159:3 171:2</p> <p><b>patient's</b> [1] 155:24</p> <p><b>patients</b> [6] 23:13 27:1 29:3 75:7 154:18 161:23</p>	<p><b>PATRICIA</b> [5] 2:2 4:3 57:12 58:17 182:19</p> <p><b>pattern</b> [1] 5:1</p> <p><b>paucity</b> [1] 55:3</p> <p><b>peer</b> [5] 50:12 88:8 91:8 188:11,12</p> <p><b>peers</b> [3] 32:11 144:3 158:20</p> <p><b>people</b> [14] 6:4 35:9 36:2 37:1 53:1 59:11 65:6 67:15 70:3 93:10 99:13 146:21 174:13 195:5</p> <p><b>perceive</b> [1] 96:18</p> <p><b>perceived</b> [1] 93:17</p> <p><b>percent</b> [4] 54:3 173:15 176:9,16</p> <p><b>percentage</b> [1] 115:17</p> <p><b>percentages</b> [2] 106:20 147:8</p> <p><b>perform</b> [5] 34:13 54:11 56:3 125:15 128:9</p> <p><b>performance</b> [2] 17:10 76:14</p> <p><b>performed</b> [4] 8:19 11:18 12:5 63:1</p> <p><b>performing</b> [2] 97:20 191:11</p> <p><b>perhaps</b> [13] 40:8 78:20 117:21 124:18 126:13 134:2,9 158:8 166:8 167:11 169:20 183:24 187:7</p> <p><b>period</b> [5] 39:7 108:6 159:18 173:14 178:5</p> <p><b>permitted</b> [1] 168:25</p> <p><b>person</b> [11] 29:24 34:4 84:17 98:14,17,18 132:21 160:24 174:22 192:22 195:12</p> <p><b>personal</b> [1] 106:5</p> <p><b>personally</b> [5] 29:16 124:17,21,24 128:15</p> <p><b>personnel</b> [1] 94:10</p> <p><b>perspective</b> [8] 23:19 27:10 82:22,24 163:16 164:13 165:3 167:25</p> <p><b>Peter</b> [4] 1:9 2:6 101:2,5</p> <p><b>Pg</b> [1] 3:2</p> <p><b>Pgs</b> [9] 2:3,4,5,6,7,8,9 2:10,11</p> <p><b>pH</b> [3] 9:8,8,16</p> <p><b>phase</b> [1] 116:1</p> <p><b>PhD</b> [1] 99:23</p> <p><b>pHing</b> [1] 37:8</p> <p><b>phone</b> [16] 47:15,18 48:3 48:5,7,23 50:6,21 52:5,6 57:21 166:2 183:2,24 185:10 196:4</p> <p><b>physician</b> [5] 162:7,11 162:19,21 165:21</p> <p><b>physicians</b> [3] 19:3 101:6 162:3</p> <p><b>pick</b> [4] 5:13 59:5 158:25 159:1</p>	<p><b>picking</b> [1] 156:21</p> <p><b>picky</b> [4] 91:21,25 92:2 101:8</p> <p><b>piece</b> [4] 22:10 46:1 71:2 176:16</p> <p><b>Pike</b> [3] 1:14 182:9,10</p> <p><b>Pilgrim</b> [1] 50:24</p> <p><b>Pilgrim's</b> [1] 51:1</p> <p><b>pipette</b> [3] 5:14 10:20 26:15</p> <p><b>pipettes</b> [9] 5:24 6:2,9 6:12,17 22:18 27:19 114:18,19</p> <p><b>place</b> [24] 8:24 9:14 16:2 20:6 21:25 42:1,1,6 47:18 78:2 79:6 95:3 97:24 123:2 125:9 138:25 139:16 140:4,6,19 151:10 158:7 160:7 164:16</p> <p><b>placed</b> [1] 41:2</p> <p><b>placement</b> [1] 181:4</p> <p><b>planned</b> [1] 88:25</p> <p><b>plans</b> [1] 192:15</p> <p><b>play</b> [1] 96:21</p> <p><b>played</b> [1] 87:1</p> <p><b>pleased</b> [5] 16:20 29:14 29:19 30:5,8</p> <p><b>plus</b> [3] 32:4,4,5</p> <p><b>point</b> [23] 9:25 11:7 21:21 23:5 25:1 33:21 36:22 37:2 39:11 51:24 59:6 77:23 92:4,20 93:24 105:12 113:15 139:13 157:22 161:23 168:24 186:16 192:24</p> <p><b>points</b> [1] 186:12</p> <p><b>policies</b> [1] 20:16</p> <p><b>policy</b> [4] 10:10 44:7 54:21 138:21</p> <p><b>Pollett</b> [2] 127:15 128:18</p> <p><b>portion</b> [4] 18:17 36:10 81:22 136:11</p> <p><b>posed</b> [1] 190:1</p> <p><b>posing</b> [1] 190:9</p> <p><b>position</b> [10] 17:17 61:16 87:23 98:11 99:20 110:2 172:3 173:16,23,25</p> <p><b>positive</b> [17] 10:12 12:4 14:6 36:1 119:1 121:12 121:18 122:6,12,19 123:14,18 125:25 176:5 179:15 180:3,4</p> <p><b>positively</b> [2] 107:1,10</p> <p><b>positives</b> [3] 87:25 117:7 118:24</p> <p><b>positivity</b> [6] 87:2,18 115:18,18 124:9 176:6</p> <p><b>possibility</b> [2] 30:22 154:2</p> <p><b>possible</b> [5] 17:12 123:17 149:14 155:12,14</p> <p><b>possibly</b> [1] 185:5</p> <p><b>post</b> [1] 115:25</p> <p><b>post-analytic</b> [2] 117:22</p>
--	---	--	---	---

119:19 <b>post-analytically</b> [1] 118:14 <b>potential</b> [2] 6:24 64:25 <b>potentially</b> [1] 158:25 <b>PR</b> [3] 115:18 124:9 177:22 <b>practice</b> [19] 55:8,15 56:8,25 78:7,9,25 79:20 79:24 80:5,8,11,14 127:16,17 131:21 142:12 160:20 177:2 <b>practices</b> [5] 18:6 55:13 128:22,25 129:3 <b>pre</b> [2] 35:14 117:21 <b>pre-analytic</b> [2] 117:24 118:17 <b>pre-treatment</b> [1] 36:15 <b>pre-treatments</b> [3] 37:3 37:4,5 <b>predates</b> [1] 189:11 <b>predict</b> [1] 140:12 <b>predicting</b> [1] 194:13 <b>predictions</b> [1] 121:4 <b>predictive/prognostic</b> [1] 15:16 <b>preliminary</b> [1] 145:1 <b>premier</b> [10] 48:10,13 50:16 58:1,7 183:1,3,8 185:15,17 <b>Premier's</b> [1] 184:18 <b>premise</b> [2] 69:22 173:4 <b>prepare</b> [2] 85:14 136:10 <b>prepared</b> [4] 28:9 106:2 106:16 136:1 <b>preparing</b> [4] 144:18 150:19,22,23 <b>present</b> [2] 138:6 186:20 <b>presentation</b> [1] 172:20 <b>presented</b> [1] 127:14 <b>presently</b> [3] 22:2 35:22 179:23 <b>presumably</b> [3] 78:2 99:3,12 <b>presume</b> [4] 72:8 78:19 82:11,24 <b>pretreatment</b> [1] 22:5 <b>pretreatments</b> [1] 10:15 <b>pretty</b> [3] 45:10 46:25 46:25 <b>prevent</b> [1] 151:18 <b>previous</b> [5] 9:21 15:9 72:2 86:13 103:1 <b>previously</b> [1] 73:18 <b>pricked</b> [1] 180:25 <b>primarily</b> [3] 116:6 133:13 159:9 <b>primary</b> [4] 6:14 7:3 115:6,8 <b>Pritchard</b> [23] 2:4,9 57:11,13,14,16,25 58:5 58:11 168:18,22 169:5 182:13,15,20,21 183:11	183:22 184:5,25 185:7 185:14,21 <b>Pritchard/Jackie</b> [1] 1:8 <b>Pritzker</b> [2] 1:18 174:8 <b>probabilistic</b> [1] 40:4 <b>problem</b> [28] 20:14 28:15 38:1 63:21 65:20 66:17 103:15 149:14 150:2,8 152:3,4,7,10,19 153:4,16,24 154:17 155:8 155:15 156:8 159:19,23 160:8 170:22,23 171:7 <b>problematic</b> [1] 103:10 <b>problems</b> [13] 19:19 65:10 66:8,19 68:3 106:1 109:12 119:9 141:5 150:18 151:11 157:2 159:2 <b>procedure</b> [20] 4:17 8:23 9:7,15 12:8 27:16 43:3 107:12,13 108:12,15 130:21 135:19 136:2 139:24 143:16,19 154:19 162:5,17 <b>procedures</b> [6] 4:19 20:17 21:24 34:23 45:14 89:9 105:20 108:1,8 119:8 120:13 121:20,25 125:7,9,15 129:25 130:23 131:14,16,18 132:10,17 132:25 133:2,3 134:6,21 136:21 137:3,3 139:23 141:1,10,12,19 142:16 143:14,21 144:19 145:10 145:16,23 146:7 149:9 149:10,13 150:9 151:10 154:6 156:5 157:1 160:7 163:13 164:2,6,8,16,19 165:15 188:14 <b>proceed</b> [2] 103:22 196:6 <b>process</b> [27] 9:14 21:15 27:15 38:9 40:14,16 41:16 53:23 57:4 69:18 72:1,10 73:4 88:25 89:7 95:22 107:19 112:25 114:2,20 115:3,11,24 121:24 128:1 133:16,22 <b>processed</b> [1] 21:17 <b>processes</b> [5] 8:24 17:6 20:6 132:23,24 <b>processing</b> [4] 14:17 15:18 97:13 117:25 <b>processor</b> [1] 14:18 <b>produced</b> [4] 21:19 41:10 47:13 171:15 <b>producing</b> [1] 172:6 <b>product</b> [4] 78:20 170:19 172:5 173:7 <b>profession</b> [3] 55:7,16 55:17 <b>professional</b> [3] 17:15 54:24 55:13 <b>professionals</b> [1] 54:9 <b>professions</b> [1] 56:7 <b>proficiency</b> [1] 137:4 <b>profile</b> [1] 54:11	<b>progesterone</b> [4] 70:23 71:6 175:7 177:14 <b>program</b> [17] 16:20 17:2 17:3,10,13 33:8 61:4 66:18 87:10 96:12 146:13 147:8,9 148:24 157:16 158:1 159:24 <b>programs</b> [6] 16:18 27:21 31:15 60:3,14 147:7 <b>progress</b> [8] 26:11,16 27:7,13 28:23 29:8,17 29:19 <b>progress/results</b> [1] 29:15 <b>promise</b> [1] 193:2 <b>proof</b> [1] 173:5 <b>proper</b> [1] 97:23 <b>properly</b> [5] 106:16 114:22 118:19 152:1 153:20 <b>proportion</b> [2] 117:7,13 <b>pros</b> [2] 33:10 74:11 <b>protect</b> [1] 107:17 <b>protected</b> [6] 51:25 78:15 114:1,13 130:19 130:25 <b>protection</b> [1] 88:15 <b>protein</b> [1] 118:4 <b>protocol</b> [4] 76:10 104:14,19,20 <b>protocols</b> [8] 9:6 21:24 32:20 76:12,14,22 83:13 118:12 <b>provide</b> [17] 17:11 28:9 31:22 32:19,22 36:20 41:15 66:10 83:12 133:24 134:8,9 135:7 154:10 160:24 187:23 188:3 <b>provided</b> [6] 9:20 24:1 59:22 143:20 170:10,11 <b>provides</b> [5] 32:23 71:21 75:6 96:8 154:9 <b>providing</b> [3] 15:15 56:6 156:14 <b>province</b> [6] 18:18 77:10 77:12 78:12 79:23 82:7 <b>proving</b> [1] 172:21 <b>public</b> [10] 49:9,11,24 50:10,11 54:8,21 78:14 78:15 183:16 <b>pull</b> [1] 174:15 <b>pump</b> [3] 109:6,12 110:3 <b>pumps</b> [1] 109:21 <b>purchase</b> [2] 104:14,23 <b>purchased</b> [3] 6:2 12:17 103:2 <b>purchasing</b> [1] 105:6 <b>purpose</b> [5] 13:17 48:7 51:1 101:18 145:15 <b>purposes</b> [1] 62:24 <b>pursuant</b> [1] 52:22 <b>put</b> [16] 11:13 36:13 37:17 48:23 71:2 111:11 111:25 127:21 138:20	139:15 140:4,6,19 155:13 184:8 190:20 <b>putting</b> [2] 133:12 155:15 <hr/> <b>-Q-</b> <hr/> <b>Q.C</b> [196] 1:6,12 2:3,8 2:10 4:4,5,10 5:8,20 6:3 6:8,23 7:6,11,24 8:5,17 9:5,13 10:3,8 11:2,11,16 12:3,20,25 13:4,14 14:3 14:14,22 15:4,12,24 16:6 16:13,24 17:20,24 18:10 18:24 19:8,22 20:8 21:12 22:24 23:17,22 24:12,21 25:11,18,24 26:3,9,18 27:9,24 28:6 29:1 30:1,9 30:15,20 31:6,13 33:2,6 33:11,16 34:1 38:7,14 38:18 39:4,22 40:12 41:1 41:19,23 42:5,11,19,24 43:4,8,16,24 44:5,14,22 45:8,18 46:6,12,20 47:3 47:10,17,23 48:2,6,12 48:16,20,24 49:15 50:14 50:20,25 51:8,15,23 52:4 52:9,13,18 53:2,15 57:5 169:10,12,13,19 170:1,7 170:13 171:5,11,19 172:1 172:10,16 173:12,21 174:7,12,21,25 175:12 175:21 176:1,12,22 177:3 177:7,11,19 178:2,11,17 178:22 179:5,11,18,24 180:6,11,15,19,23 181:10 181:17,22 182:2,6 186:10 186:11 187:5,15,25 188:5 188:9,16 189:2,8,15,19 189:23 190:7,24 191:25 192:16 193:10,14,20 194:2,4,7,9,14 195:7,11 195:15 <b>Q.C.</b> [1] 193:25 <b>Q.C./Mandy</b> [1] 1:7 <b>QA</b> [1] 31:2 <b>QMPLS</b> [9] 78:22 81:20 81:22 84:8,14 168:3 188:18 189:1,11 <b>qualifications</b> [1] 173:16 <b>qualitative</b> [1] 71:1 <b>quality</b> [55] 14:6 16:14 16:17 17:1,3,5,7,12 18:2 18:25 19:1,10,13,24 27:21 28:14 30:23 88:11 98:19 116:7,12 132:20 133:14 135:25 136:1,8 136:14 137:2,3,16 146:14 148:1 149:9,10,12 150:9 151:9 156:4,5,7,12,15 156:21,23,25 157:8,14 158:18 159:7,24 170:18 171:15 172:5 188:21 189:6 <b>quantitative</b> [6] 69:9 70:21 71:1,2 191:16,22 <b>questioning</b> [2] 169:3 191:1 <b>questions</b> [24] 31:9 53:5	57:11,19 58:23 68:4,9 73:9 92:13 94:9 100:13 100:17 116:16 117:1 136:15 149:8 168:13 169:1 175:23 182:11,23 186:2,6 187:7 <b>quick</b> [2] 23:6 186:12 <b>quite</b> [3] 39:2 161:25 181:2 <b>quotation</b> [1] 176:17 <b>quote</b> [2] 84:1 161:20 <hr/> <b>-R-</b> <hr/> <b>r</b> [5] 15:14,14,14,14 55:21 <b>randem</b> [1] 148:2 <b>randomly</b> [1] 174:14 <b>range</b> [1] 97:19 <b>rate</b> [2] 87:24 173:13 <b>rated</b> [1] 32:11 <b>rates</b> [2] 87:2,18 <b>rather</b> [6] 34:20 35:2 44:19 70:25 71:1 128:1 <b>re-direct</b> [1] 168:25 <b>Re-examination</b> [3] 2:9 2:10 186:9 <b>reach</b> [1] 195:1 <b>reaches</b> [1] 97:13 <b>reaction</b> [1] 48:21 <b>read</b> [11] 32:1 34:23 58:2 58:7 98:24 161:21 166:21 183:1,4 185:11,17 <b>reading</b> [10] 38:6 48:11 48:13 50:16 96:11 113:21 130:3,4,8 167:6 <b>readings</b> [4] 7:13,14,19 179:20 <b>reads</b> [1] 23:10 <b>ready</b> [1] 135:14 <b>reagents</b> [3] 8:25 9:1,9 <b>really</b> [2] 131:10 158:19 <b>reason</b> [2] 15:25 125:5 <b>reasonable</b> [1] 22:23 <b>reasons</b> [2] 34:9 75:6 <b>receive</b> [6] 20:23 30:11 31:19 43:21,22 60:18 <b>received</b> [11] 29:4 50:5 50:22 57:21 108:12 127:20 144:25 183:3,8 184:17,19 <b>receiving</b> [1] 43:17 <b>recent</b> [3] 77:20 99:19 123:1 <b>recently</b> [1] 54:22 <b>receptor</b> [3] 1:2 175:7 197:4 <b>receptors</b> [1] 28:17 <b>RECESS</b> [1] 101:1 <b>recognition</b> [1] 64:25 <b>recognize</b> [8] 37:10 64:4 64:12 109:21 110:2 123:8 152:3 166:22 <b>recognized</b> [7] 54:8,18 56:20 63:18 66:16 93:22
--	---	---	--	---

<p>150:24  <b>recognizing</b> [1] 129:17  <b>recollection</b> [1] 50:5  <b>recommendation</b> [4] 9:10,21 95:15 99:11  <b>recommendations</b> [21] 4:16 11:12,23 13:5 15:7 18:1 23:3 24:4,24 25:2,3 25:6,13 28:20 29:6 91:5 95:14 98:8 113:17 167:19 187:17  <b>record</b> [6] 10:9 15:20 155:21,24 178:7 186:17  <b>recorded</b> [5] 7:14 25:8 29:13 49:8 150:25  <b>recourse</b> [1] 156:24  <b>reduce</b> [1] 97:19  <b>Reducing</b> [1] 119:4  <b>refer</b> [7] 7:12 70:16 91:17 126:16 154:8 161:9,18  <b>reference</b> [1] 86:11  <b>referenced</b> [2] 46:13 105:12  <b>references</b> [1] 73:14  <b>referred</b> [7] 69:3 80:10 86:6 138:13 187:9 189:25 191:1  <b>referring</b> [3] 20:18 80:14 106:25  <b>refers</b> [1] 28:13  <b>reflect</b> [2] 55:9 85:17  <b>reflected</b> [1] 51:13  <b>reflection</b> [1] 8:9  <b>refrigerator</b> [3] 7:16,25 8:6  <b>refrigerators</b> [1] 27:19  <b>regard</b> [3] 105:21 118:20 139:4  <b>regarding</b> [7] 5:22 9:17 11:21 15:17 40:18 47:12 122:12  <b>regards</b> [2] 10:4 162:13  <b>Regional</b> [3] 1:10,17 18:3  <b>regions</b> [2] 18:4,13  <b>registered</b> [3] 13:8 14:5 17:16  <b>Registrar</b> [5] 4:13 23:24 113:11 170:10 172:11  <b>registries</b> [3] 127:7 128:5,16  <b>registry</b> [1] 128:4  <b>regular</b> [2] 108:11 109:17  <b>regulation</b> [1] 81:19  <b>regulations</b> [1] 55:15  <b>regulatory</b> [1] 102:12  <b>relate</b> [2] 116:8 117:21  <b>related</b> [1] 116:9  <b>relates</b> [4] 111:3 132:17 160:20 163:9  <b>relating</b> [2] 10:11 17:7  <b>relation</b> [16] 59:1 70:12</p>	<p>99:5 100:1 101:10 103:2 112:22 114:19 115:2,5 115:17 170:20 173:7 177:13,21,22  <b>relatively</b> [1] 77:20  <b>reliable</b> [1] 173:1  <b>rely</b> [2] 159:8,9  <b>remark</b> [1] 163:14  <b>remarks</b> [2] 53:22 54:1  <b>remember</b> [1] 49:13  <b>removed</b> [1] 34:12  <b>rendered</b> [1] 181:21  <b>rephrase</b> [4] 90:10 121:14 122:3 163:19  <b>replied</b> [1] 191:3  <b>report</b> [46] 4:12 15:6,9 15:17 18:7 22:25 27:8 29:4 30:7,10,12 45:5 47:5 48:11,13 49:9,10 49:22,24 50:2,10,16 51:4 51:12,13,25 58:2,7 89:21 89:21 113:18 123:1 133:7 152:10,12 153:5 165:5 170:21 171:1 178:4 183:2 183:4,8 184:17,19 185:10  <b>reported</b> [3] 30:3 87:22 90:4  <b>reporting</b> [4] 16:2 86:11 86:20 175:6  <b>reports</b> [14] 15:7 47:13 52:20,22 90:5 154:15 166:21,22 167:20 171:10 183:19 184:1,8 187:18  <b>represent</b> [3] 101:5 116:24 169:16  <b>representation</b> [1] 17:14  <b>representative</b> [1] 184:18  <b>representing</b> [2] 57:17 58:22  <b>reprocessing</b> [1] 19:18  <b>reproducibility</b> [2] 23:11 26:24  <b>reproducible</b> [2] 56:3 156:14  <b>required</b> [7] 23:11 26:24 62:25 63:12 128:24 129:5 140:2  <b>requirements</b> [2] 4:24 55:6  <b>requires</b> [2] 5:2 10:14  <b>requisition</b> [1] 46:9  <b>research</b> [7] 71:14 75:12 75:14,20 76:4,5,11  <b>residency</b> [3] 60:14,19 96:11  <b>residents</b> [1] 60:14  <b>resigned</b> [1] 184:10  <b>resistant</b> [1] 17:11  <b>resource</b> [4] 128:24 129:5 130:1 136:17  <b>resources</b> [1] 54:14  <b>respect</b> [5] 10:18 147:20 164:19 181:24 182:3</p>	<p><b>respects</b> [1] 33:12  <b>respond</b> [1] 159:25  <b>response</b> [7] 7:10 30:5 32:12 70:22 169:6 183:25 192:23  <b>responses</b> [1] 32:3  <b>responsibility</b> [4] 99:3 99:24 109:22 136:10  <b>responsible</b> [2] 55:12 98:15  <b>restart</b> [1] 152:5  <b>rested</b> [1] 184:10  <b>result</b> [7] 71:20 108:14 118:5 170:18 173:7,18 181:18  <b>results</b> [37] 20:12 29:17 29:19 45:5 54:5 56:5 64:17 67:16 69:19,20 71:12 72:23 86:21 88:21 121:12,19 122:6,13,19 124:9,22 125:24,25 137:18,19,20 146:19,20 153:20,22 154:3 156:14 157:3 160:23 161:22 173:1 175:8  <b>resume</b> [1] 148:12  <b>resumed</b> [1] 40:19  <b>RESUMES</b> [1] 2:2  <b>retained</b> [2] 14:9 32:8  <b>retesting</b> [1] 21:15  <b>retrieval</b> [4] 10:16 73:21 107:19 115:2  <b>return</b> [2] 32:24 168:8  <b>returned</b> [3] 28:21 29:7 167:17  <b>review</b> [26] 23:6 27:12 28:15 35:19 36:22,23 40:4 50:12 64:17 86:5 88:6,8,11,13 90:3 91:8 98:9 120:13 121:17 163:17 165:21 167:18 172:24 188:11,12,15  <b>reviewed</b> [4] 28:17 29:5 100:3 108:19  <b>reviewer</b> [1] 49:23  <b>reviewers</b> [1] 85:6  <b>reviewing</b> [2] 35:25 88:9  <b>reviews</b> [1] 47:12  <b>revise</b> [1] 130:22  <b>right</b> [50] 1:8 26:8 44:13 44:18 46:21 51:14 57:17 58:12 59:7 61:17 62:21 66:5 67:9 70:1,1,5 73:12 73:25 74:25 78:18 85:16 85:19 86:15,17 88:19 91:2 93:21 99:1 108:20 109:7 112:8,16,22 114:11 118:4 129:10 144:9 149:20 156:23 166:25 169:8 172:15 174:4 175:18 185:1,4,20 186:18 193:1 195:19  <b>risk</b> [1] 106:15  <b>Roche</b> [1] 117:10  <b>role</b> [14] 61:23 82:16,20 82:25 83:2 84:14 87:1</p>	<p>94:16 99:5 100:9 115:23 127:6 128:21 134:5  <b>roles</b> [1] 54:11  <b>Rolf</b> [6] 1:8 2:4,9 57:12 57:16 182:19  <b>room</b> [1] 193:1  <b>root</b> [2] 20:11,20  <b>rotate</b> [1] 93:11  <b>rotating</b> [9] 92:15 93:1 93:7,24 145:4 190:1,3 190:10,11  <b>roughly</b> [1] 77:15  <b>rounds</b> [1] 96:6  <b>routine</b> [4] 34:8 39:19 131:21 132:3  <b>routinely</b> [1] 10:16  <b>rudimentary</b> [1] 37:21  <b>run</b> [7] 13:15 36:17 120:1 143:25 177:21 179:8 193:7  <b>running</b> [3] 13:23 72:17 178:7  <b>rush</b> [1] 175:9</p>	<p><b>sections</b> [3] 97:6 107:6 127:23  <b>see</b> [25] 16:21 19:20 25:1 26:6 46:24 59:21 60:5,6 72:23 81:2 82:24 95:20 98:13 99:25 119:13 142:9 155:15,17 161:17 175:4 179:12 182:18,23 194:19 195:20  <b>seeing</b> [1] 68:2  <b>seeking</b> [1] 160:24  <b>seem</b> [1] 178:3  <b>select</b> [2] 32:3,7  <b>selection</b> [2] 9:17,19  <b>self</b> [1] 194:15  <b>semblance</b> [1] 36:14  <b>semi</b> [1] 73:16  <b>semi-automated</b> [1] 109:1  <b>semi-quantitative</b> [1] 191:23  <b>seminar</b> [1] 30:22  <b>send</b> [11] 31:19 32:18,23 68:7 83:9,15 137:19 146:20 147:3 184:8,15  <b>senior</b> [3] 16:25 17:5 95:8  <b>sense</b> [7] 5:23 30:7 35:9 51:20 52:12 67:1 190:17  <b>sensitivity</b> [12] 8:20 22:21 117:4,6,20 118:21 119:10,15,25 120:2,15 120:24  <b>sent</b> [16] 21:14,16 30:10 32:9 41:3,7,10,11,13 42:7,14,21 43:10,11 44:1 83:7  <b>separate</b> [6] 75:20 136:2 144:5 155:1,17 190:18  <b>September</b> [2] 144:25 178:6  <b>series</b> [1] 178:7  <b>serve</b> [1] 13:17  <b>service</b> [6] 75:2 76:11 83:18 99:21 109:24 161:2  <b>services</b> [7] 30:17 148:8 162:13 163:11,24 174:2 183:14  <b>set</b> [18] 8:14 32:1 36:17 38:2 67:3 76:13,17,18 76:22 85:10 93:17 97:5 131:23 150:13 167:19 177:14 187:17 190:16  <b>setting</b> [5] 37:1 55:25 93:9 118:10 130:2  <b>several</b> [3] 83:7 104:25 130:13  <b>shall</b> [1] 19:25  <b>share</b> [4] 53:20 55:23 79:21 166:6  <b>shared</b> [3] 18:4,12 166:13  <b>sharing</b> [2] 80:2 167:6  <b>sheets</b> [6] 4:20,22 5:5 35:20 129:16,19</p>
<b>-S-</b>				
<p><b>S</b> [8] 15:14,14 55:21,21 56:13,13,13,13  <b>safety</b> [5] 106:5,7,7 156:24 173:17  <b>Sakura</b> [1] 102:25  <b>sample</b> [3] 72:18,19 181:4  <b>samples</b> [2] 43:17 154:19  <b>Sandra</b> [5] 1:7 2:3,10 4:3 186:9  <b>satellite</b> [1] 56:17  <b>satisfaction</b> [4] 67:23 154:9,20 155:1  <b>satisfied</b> [2] 162:14 176:2  <b>sausage</b> [2] 13:16,18  <b>saw</b> [6] 6:1 89:8 120:23 161:22 163:17 191:3  <b>says</b> [2] 19:9 28:22  <b>scenes</b> [1] 54:12  <b>science</b> [4] 41:11 43:10 99:13,23  <b>Sciences</b> [2] 40:23 42:2  <b>scientific</b> [2] 55:19 99:14  <b>scope</b> [4] 127:16,17 142:12 177:2  <b>scopes</b> [2] 56:8 78:7  <b>scoring</b> [1] 15:19  <b>screen</b> [1] 4:14  <b>screws</b> [2] 112:2,10  <b>sealed</b> [2] 41:6 42:14  <b>seated</b> [1] 4:2  <b>second</b> [7] 4:12 23:9 27:11 29:20 47:5 50:21 157:24  <b>section</b> [6] 12:16 15:5 112:3,5,6 177:20</p>				

<p><b>shift</b> [1] 131:24  <b>shipped</b> [1] 83:14  <b>short</b> [3] 32:6 44:19,23  <b>shortage</b> [1] 55:1  <b>shown</b> [3] 113:11,12 138:22  <b>side</b> [2] 128:12,13  <b>sign</b> [8] 37:20 129:20 135:14,15 136:21 147:17 147:18 157:25  <b>signal</b> [5] 7:10 32:12 115:9,15 119:5  <b>signed</b> [2] 14:8 51:21  <b>significant</b> [2] 55:4 90:1  <b>signs</b> [1] 98:18  <b>similar</b> [2] 97:3 104:2  <b>Simmons</b> [148] 1:10 2:5 58:16,18,19 60:1,10,17 60:24 61:8,15,21 62:6 62:10,20 63:4,9,16 64:1 64:9,15,23 65:4,15 66:4 66:12,24 67:8,13,24 68:6 68:13,21 69:2,6,10,16 69:25 70:11,18 71:9,18 71:24 72:6,15,22 73:8 73:13 74:3,9,16,24 75:5 75:10,15,19,23 76:2,8 76:20 77:1,8,14,18,24 78:17,23 79:4,10,18 80:4 80:9,22 81:1,5,16,23 82:3,10,15,21 83:4,17 83:23 84:2,7,13,20,24 85:4,9,13,18,22 86:3,9 86:18,25 87:6,12,16,21 88:4,18,24 89:6,14,20 89:25 90:11,19 91:1,10 91:16,20,24 92:3,10,19 92:24 93:4,13,20 94:8 94:15,25 95:6,13,19 96:1 96:15 97:8,18,25 98:7 98:25 99:9 100:6,11 101:7 115:22 186:14 187:7 188:17 189:24 194:17,22 195:20  <b>Simon</b> [1] 1:18  <b>simple</b> [2] 20:22 37:12  <b>simply</b> [3] 102:24 143:21 171:10  <b>Sinai</b> [25] 21:14,18,18 22:3,6 34:3 43:12,18 44:1 53:8 59:2 66:25 67:6,9 74:25 79:11 105:14,14 106:23 108:7 124:23 142:24 187:8 188:21 189:14  <b>single</b> [6] 22:15 36:3 76:22 129:9 134:17 153:24  <b>Singleton</b> [4] 194:1,19 195:21 196:3  <b>sit</b> [3] 8:14 34:21 46:4  <b>site</b> [4] 43:25 94:6,7 147:3  <b>sitting</b> [2] 38:5 45:24  <b>situation</b> [2] 21:13 143:25  <b>situations</b> [3] 64:2 66:5</p>	<p>66:15  <b>six</b> [5] 10:22 11:13 38:23 39:18 177:12  <b>six-month</b> [1] 159:17  <b>size</b> [1] 97:6  <b>skill</b> [1] 144:4  <b>skilled</b> [1] 140:25  <b>skills</b> [2] 55:18 144:7  <b>skim</b> [1] 175:17  <b>skip</b> [1] 11:5  <b>slices</b> [2] 111:11 181:3  <b>slide</b> [17] 22:15 35:24 107:3,6,10,19 109:7 111:11 116:7 123:7 127:21,24 151:12,19 152:8 153:25 159:2  <b>slides</b> [46] 11:18 13:8 21:19 31:20,24 32:8,18 32:19,21,25 34:16,16,17 35:16,20,21 36:12,19,23 38:5 39:16 41:11,12 43:10,11 44:2 80:17 83:9 83:12 102:8 106:23,24 107:1 127:20,21,24 147:3 150:19,22,23 154:12 157:2 171:25 181:5 191:21,22  <b>slipping</b> [1] 11:17  <b>slow</b> [3] 34:20 37:23 38:3  <b>Society</b> [3] 1:15 116:25 127:2  <b>solely</b> [2] 135:19,20  <b>solve</b> [2] 65:11 66:8  <b>solving</b> [2] 20:14 65:21  <b>someone</b> [10] 34:21 53:11 64:12 65:22 99:22 142:3 143:15,15 144:1 173:24  <b>sometime</b> [3] 52:6 68:15 189:20  <b>somewhere</b> [2] 53:11 82:11  <b>SOP</b> [1] 45:9  <b>sorry</b> [17] 24:25 25:20 38:15 41:20,22 51:9,16 68:14 81:6 115:8 157:18 168:23 169:8 185:24 186:18,19 188:1  <b>sort</b> [19] 21:1 36:11 60:15 65:19 74:17 80:20 95:20 98:12 110:14,17 129:4,4 130:10 131:21 133:10 144:1 150:13 153:3 155:9  <b>sorts</b> [2] 79:5,24  <b>sought</b> [1] 162:6  <b>sound</b> [3] 35:11 86:14 197:10  <b>sounds</b> [1] 35:2  <b>source</b> [1] 153:3  <b>sources</b> [1] 64:25  <b>speak</b> [21] 19:23 29:24 70:7,17 72:4 82:19 86:23 87:11 94:22 98:22 102:15 104:22 106:21 109:20 142:6 143:3 161:1,5</p>	<p>177:1 178:15 191:8  <b>speaking</b> [5] 46:18 120:22 161:14 191:13 194:15  <b>speaks</b> [1] 13:6  <b>special</b> [1] 190:22  <b>speciality</b> [1] 60:8  <b>specialized</b> [3] 36:4 56:23 59:10  <b>specific</b> [6] 4:24 59:3 63:25 66:15 132:21 175:23  <b>specification</b> [3] 4:20 5:5 35:20  <b>specificity</b> [11] 8:20 69:23 117:5,13,20 118:21 119:10,16,25 120:3 121:5  <b>specimen</b> [10] 15:18 41:2 41:6,9 42:7 43:9,18 45:5 46:16 97:13  <b>specimens</b> [10] 20:23 43:23 45:17 80:19 95:8 95:24 96:25 111:10 181:11,19  <b>speculate</b> [1] 140:22  <b>spend</b> [4] 39:13,20 96:9 130:13  <b>spent</b> [1] 162:3  <b>spleen</b> [1] 13:21  <b>spoke</b> [5] 17:21 102:24 114:17 162:20 166:1  <b>spoken</b> [2] 30:25 162:19  <b>spreadsheet</b> [5] 24:1,3 25:5,8,15  <b>spring</b> [6] 47:20,24,24 48:8 57:22 183:15  <b>St</b> [15] 27:3 29:3 39:25 40:5,20,21 41:4,9,13 42:6,8 72:25 88:5 197:7 197:11  <b>Stacey</b> [1] 1:16  <b>staff</b> [4] 9:23 17:15 92:16 145:4  <b>staffing</b> [1] 94:10  <b>stage</b> [5] 118:11,17 119:7 119:19 125:1  <b>stages</b> [2] 117:19,22  <b>stain</b> [13] 31:21,24 32:19 65:18 83:11 101:13,20 102:11 109:7,13 110:4 176:5 190:22  <b>stained</b> [1] 41:12  <b>stainer</b> [1] 109:2  <b>stainers</b> [1] 104:24  <b>staining</b> [13] 4:25 10:12 10:13 11:4 14:1 63:25 102:18 123:6,9,12 128:1 170:20 176:6  <b>stains</b> [5] 101:25 102:1,2 102:19 171:15  <b>stand</b> [3] 2:2 126:25 166:18  <b>standard</b> [44] 4:18 8:14 34:23 45:14 70:7,8 105:20 107:25 108:8</p>	<p>125:9,14 130:22 132:9 132:16,25 133:3 134:6 134:21 136:2 139:22 140:25 141:10,19 142:16 143:13,16,19,21 144:19 145:10,16,22 146:7 160:6 163:13 164:2,6,7,19 165:15 180:2 187:10,19 188:14  <b>standardized</b> [8] 16:1 22:11 78:19 102:6 139:10 139:24 140:11,18  <b>standards</b> [16] 17:9 44:21 45:1 55:7,14 70:2 85:10 138:14,25 139:2 139:15,17 140:2,3,18 191:12  <b>stands</b> [1] 81:24  <b>start</b> [24] 14:11 19:17 27:22 29:23 34:6 35:12 35:17 36:10,25 37:1,3 37:10,12 38:4 49:1 66:2 83:22 100:19 110:16 117:2 129:14 157:13 191:20 193:6  <b>started</b> [2] 27:20 112:4  <b>starting</b> [2] 158:7 175:2  <b>state</b> [1] 172:3  <b>statement</b> [9] 45:2,4 59:6 79:14 111:15 113:19 176:3,4 177:16  <b>States</b> [1] 102:13  <b>static</b> [1] 57:1  <b>status</b> [1] 26:10  <b>steam</b> [1] 22:5  <b>step</b> [1] 98:8  <b>steps</b> [5] 37:21 81:12 116:11 151:25 153:18  <b>still</b> [14] 11:12,15,22 27:18 39:13,17,18 40:16 123:1 136:9 138:6,7 139:19,21  <b>stop</b> [3] 66:1 129:18 152:4  <b>streamline</b> [1] 97:1  <b>streamlined</b> [1] 36:20  <b>stringencies</b> [1] 140:6  <b>stringency</b> [4] 23:10 26:23 79:16 187:11  <b>stringent</b> [7] 8:22 40:9 56:3,25 79:13 118:13 129:12  <b>stripped</b> [1] 127:23  <b>strongest</b> [1] 23:15  <b>struggle</b> [1] 54:10  <b>sub-specialized</b> [1] 67:1  <b>subject</b> [4] 49:5,18,21 50:1  <b>subjective</b> [1] 191:20  <b>submitting</b> [1] 47:4  <b>subsequent</b> [1] 47:15  <b>subsequently</b> [1] 184:11  <b>subspecialties</b> [1] 56:20  <b>substance</b> [1] 144:20  <b>successful</b> [2] 19:24</p>	<p>54:25  <b>succinct</b> [1] 70:24  <b>such</b> [9] 10:19 27:4 107:3 117:8,15 138:14 159:25 165:16 180:18  <b>suffice</b> [1] 7:13  <b>suggest</b> [1] 74:17  <b>suggested</b> [3] 11:23 76:9 163:4  <b>suggesting</b> [2] 190:11 195:3  <b>suggestion</b> [3] 39:24 40:6,19  <b>summary</b> [3] 23:2 173:9 177:14  <b>summation</b> [1] 23:8  <b>sums</b> [1] 23:18  <b>support</b> [2] 17:1,4  <b>supposed</b> [1] 65:19  <b>surface</b> [1] 63:20  <b>surgery</b> [3] 40:22 41:25 42:1  <b>surgical</b> [4] 15:6,17 149:25 176:14  <b>surprise</b> [1] 73:3  <b>surprised</b> [5] 11:9 163:12 164:1,5,10  <b>surprising</b> [1] 163:15  <b>surrounding</b> [1] 16:5  <b>survey</b> [1] 31:19  <b>surveys</b> [1] 83:7  <b>suspend</b> [1] 162:2  <b>synoptic</b> [1] 86:11  <b>system</b> [21] 7:18 8:2,11 17:6,11 18:20 22:21 36:16 54:13 55:5 73:17 73:19,22,23 74:12,12,18 74:18 75:24 76:4 144:17  <b>systematic</b> [1] 35:3  <b>systems</b> [5] 8:1 73:14,15 74:5 108:9</p>
--	---	---	--	---

**-T-**

**t** [9] 15:14,14 49:21 50:2 55:21,21 56:13,13,13  
**table** [2] 2:1 177:8  
**tabulated** [1] 179:17  
**tackle** [2] 65:20,21  
**taking** [6] 41:25 42:1,6 74:11 109:21 117:10  
**tandem** [1] 56:2  
**task** [3] 36:25 142:15 146:6  
**teaching** [1] 110:14  
**team** [6] 19:1,7,24 55:23 116:14 132:11  
**tech** [1] 99:22  
**technical** [8] 17:14 21:21 32:22 70:6 72:13,16 97:10 105:1  
**technically** [1] 56:5  
**technique** [1] 37:16

**Inquiry on Hormone Receptor Testing**

<p><b>techniques</b> [1] 37:13  <b>technological</b> [2] 127:17      128:12  <b>technologist</b> [37] 13:8      14:5 17:16 34:2 35:4,12      36:10 38:9 39:5 55:12      56:2,2 61:17,22 65:17      78:6 80:17 105:2 110:1      112:2 116:8,10,10 128:25      131:1 136:10 138:1      139:18 140:20,24 141:5      142:3 143:12 150:19      154:10 162:7,21  <b>technologists</b> [45] 33:18      33:23 54:6,17,20 55:2      55:22 59:24 60:4 61:1      61:11 62:12 64:3,3,11      65:9 66:8 77:4 78:16,18      81:18 88:9 92:15 95:8      100:5 110:14 128:22      129:2 130:20 133:14,18      135:6,20 141:23 142:6      146:3 162:3,6 164:15      167:2 186:21 187:3 190:3      190:10,12  <b>technologists'</b> [1]      134:21  <b>Technology</b> [1] 22:12  <b>telephone</b> [1] 194:24  <b>temperature</b> [5] 7:13      8:13 22:13,16 42:18  <b>template</b> [1] 16:1  <b>ten</b> [2] 84:3,6  <b>term</b> [8] 69:7 70:6,10      88:8,10 107:25 171:14      187:9  <b>terminology</b> [2] 16:10      181:2  <b>terms</b> [33] 5:3,4 7:7      19:12 23:3 29:16 40:13      43:17 106:7 111:3 113:5      115:25 129:24 130:16      131:7 132:9 133:10 135:7      135:25 147:7,25 150:7      153:1,2 156:4 162:12      163:11,16,24 164:15      171:13 191:8 195:6  <b>terrific</b> [1] 158:19  <b>Terry</b> [4] 49:2,6,17,17  <b>test</b> [43] 6:25 7:2,8 40:3      54:5 63:12,19 64:5 65:8      70:8 71:11,12,20 72:2      72:17,18 73:2 88:21      89:22 90:8,14 97:11,21      118:21 119:25 121:12,18      122:6,13 123:17 124:22      133:11 141:12 145:15,20      145:20 146:20 151:12      152:1 153:19 157:3      161:24 162:5  <b>tested</b> [2] 14:7 153:23  <b>testified</b> [2] 113:4 185:9  <b>testify</b> [1] 101:7  <b>testing</b> [48] 1:2,13 9:1      10:14 15:15 23:12 26:25      28:17 29:2 43:12 56:11      67:4,4 68:16 70:3 73:10      75:6 76:15 87:3 98:15</p>	<p>102:6 117:20 120:13,16      120:18,25 128:9 129:14      132:3,18 137:4 138:15      139:24 147:25 149:14,15      150:7,20 151:2,4 156:10      157:3 160:21,22 163:10      165:16 173:8 197:4  <b>testings</b> [1] 177:15  <b>tests</b> [21] 8:20 40:19 53:7      53:12 56:3 62:25 67:16      72:17 103:17 119:2 131:8      131:13,17 141:24 145:10      145:14 146:18 147:9      151:20 154:25 165:16  <b>thank</b> [42] 4:6,12 5:22      53:16 57:2,6,15 58:12      58:16,20 100:12,15      102:24 116:16,19 126:15      128:20 144:12 158:11      168:12,15 169:11 170:12      170:14,16 171:12 172:18      173:22 182:7,11,22 185:1      185:22,24 189:24 192:1      192:1,4,6,10,13 196:7  <b>thankings</b> [1] 30:16  <b>thanks</b> [1] 186:6  <b>thaw</b> [1] 181:14  <b>theirs</b> [1] 33:3  <b>themselves</b> [2] 65:10      158:20  <b>theory</b> [2] 62:18 151:10  <b>therapies</b> [1] 56:16  <b>there'll</b> [1] 85:5  <b>thereabouts</b> [1] 184:11  <b>thermometer</b> [2] 7:14      7:18  <b>they've</b> [1] 16:16  <b>thin</b> [1] 111:10  <b>thinking</b> [2] 8:10 188:10  <b>thinks</b> [1] 54:8  <b>third</b> [1] 28:14  <b>thought</b> [6] 27:17 91:8      91:14 125:10 138:23      158:6  <b>thoughts</b> [1] 44:15  <b>thousand</b> [1] 53:12  <b>three</b> [16] 15:7 24:23 28:1      32:4 44:18,23 85:24      126:16,18 138:20 145:3      159:16 172:18 175:15      176:3,9  <b>through</b> [24] 5:21 23:3      41:18 46:14 55:19 92:11      107:20 110:15 115:10      121:19 131:9 137:16,18      137:21,21 138:1 139:19      147:9 150:8 159:24 166:6      173:14 175:9 187:16  <b>tie</b> [1] 128:5  <b>Tilley</b> [6] 50:1 161:13,21      183:17,25 184:6  <b>Tilley's</b> [1] 162:18  <b>times</b> [3] 45:22 83:7      138:12  <b>timing</b> [1] 73:21  <b>tissue</b> [26] 4:25 13:15,21</p>	<p>14:18,24,25 15:1 34:11      34:13 40:20 42:13 45:6      106:18 107:9,11,17      111:17 112:14,16 123:13      123:14 124:5 147:16      181:4,23 182:3  <b>tissues</b> [3] 13:23 18:19      103:13  <b>title</b> [1] 61:17  <b>TMA</b> [1] 180:3  <b>today</b> [7] 6:21 35:8 57:3      110:8 114:17 138:7      163:25  <b>together</b> [6] 21:8 38:5,6      39:3 56:5 133:12  <b>tomorrow</b> [1] 6:22  <b>tonsil</b> [1] 13:22  <b>too</b> [2] 18:7 140:11  <b>took</b> [10] 5:21 23:25      77:22 101:25 113:21      127:15,16 128:12 146:17      179:14  <b>tool</b> [3] 6:12 12:18 21:3  <b>tools</b> [1] 19:15  <b>top</b> [7] 4:19 26:6 27:23      162:16 177:4,12 186:18  <b>topic</b> [2] 104:13 117:4  <b>Toronto</b> [1] 126:20  <b>total</b> [1] 17:1  <b>totals</b> [1] 177:24  <b>touch</b> [1] 109:23  <b>tour</b> [1] 172:23  <b>towards</b> [3] 16:1 89:16      191:19  <b>town</b> [1] 42:15  <b>trace</b> [1] 153:17  <b>traceable</b> [1] 22:10  <b>track</b> [1] 73:25  <b>tracking</b> [4] 19:17 21:4      21:10 153:8  <b>trained</b> [4] 14:5 33:19      34:4 143:15  <b>training</b> [15] 9:22,24      33:18,21 39:6 56:24      59:10,14,16,24 60:3,20      61:1,4 99:11  <b>transcribed</b> [1] 197:9  <b>transcript</b> [2] 161:12      197:3  <b>transferred</b> [1] 41:4  <b>transition</b> [2] 68:22 97:2  <b>transparent</b> [1] 111:10  <b>treated</b> [3] 22:15 56:19      181:24  <b>treating</b> [2] 182:3 190:21  <b>treatment</b> [4] 54:4 55:24      145:21 162:2  <b>treatments</b> [1] 35:15  <b>trends</b> [2] 20:15 125:24  <b>tried</b> [1] 194:24  <b>Trish</b> [6] 49:6,23 101:2      116:20 169:12 186:9  <b>trouble</b> [1] 97:10</p>	<p><b>troubleshoot</b> [3] 64:6      66:21 116:11  <b>troubleshooting</b> [18]      12:8 39:21 62:2,19,24      63:11,19 64:19 65:1,8      66:6,19 67:16,18 115:23      141:5,13,16  <b>true</b> [2] 68:5 197:3  <b>try</b> [10] 19:21 41:25      116:11 132:1 149:11      153:17,19 157:1 171:13      187:23  <b>trying</b> [9] 16:10 94:5      115:16 140:16 147:12      157:20 192:17,19 195:6  <b>tumor</b> [6] 34:13 70:23      127:6 128:4,5,16  <b>tumors</b> [1] 125:20  <b>turn</b> [3] 66:18 175:1      184:1  <b>turnaround</b> [1] 36:20  <b>turned</b> [1] 170:19  <b>twice</b> [2] 159:16 186:4  <b>two</b> [33] 24:5,5 31:14      32:4 41:14 47:12,15      53:24 56:18 57:19 85:24      90:24 120:8 147:7 149:1      149:5 159:16 167:20      169:1 172:17,18 176:18      177:23 182:23 187:17      188:20 191:6 192:18      193:13,18,21 194:16      195:5  <b>type</b> [14] 59:14,16 60:19      60:25 63:12 86:20 89:11      106:23 124:22,25 130:9      134:17 143:7 145:14  <b>types</b> [12] 13:21 73:24      74:4 94:10 126:1 139:9      139:17 140:17 147:16,16      160:23 168:7  <b>typically</b> [1] 149:24</p> <hr/> <p style="text-align: center;"><b>-U-</b></p> <hr/> <p><b>u</b> [2] 15:14 55:21  <b>U.S</b> [1] 101:15  <b>Uh-hm</b> [3] 46:11 145:6      156:18  <b>UK</b> [5] 16:19 31:10 32:17      147:16 188:23  <b>ultimately</b> [6] 21:19      153:4,21,22 154:3 155:22  <b>Um-hm</b> [11] 10:7 64:2      74:25 92:9 96:2 97:9      126:22 127:9 176:11      177:10 190:6  <b>unable</b> [1] 195:4  <b>uncertainty</b> [1] 161:24  <b>uncomfortable</b> [1]      142:15  <b>uncommon</b> [1] 63:11  <b>under</b> [13] 7:4 16:14      28:13 50:13 51:5,25 96:5      106:17,21 142:11 148:24      176:3 177:15  <b>underlined</b> [1] 29:10</p>	<p><b>underlying</b> [3] 20:11,20      100:2  <b>understand</b> [37] 16:7      21:13 28:8,18 29:8 39:11      39:12 42:20 62:17 66:13      69:17 70:25 71:11 74:25      76:19 78:6 89:11 99:12      99:13,14,16 101:17 103:3      110:18 117:6 138:25      140:1 141:2 146:15 154:4      157:20 158:11 162:22      168:3 170:18,22 193:7  <b>understandable</b> [3]      142:22 144:3,24  <b>understood</b> [4] 18:15      95:10 169:24 180:24  <b>unfortunately</b> [1] 33:25  <b>uniform</b> [1] 120:1  <b>unit</b> [2] 20:24 21:4  <b>United</b> [1] 102:12  <b>unless</b> [2] 23:4 185:5  <b>unlike</b> [1] 83:8  <b>unsure</b> [1] 162:20  <b>unusual</b> [3] 13:20 39:1      93:10  <b>up</b> [57] 4:13 5:13 7:15,20      12:11 21:14 24:16,24,25      25:2,13 27:23 32:2,12      32:13 36:17 37:2,7,20      38:2 49:20,25 51:21 54:3      59:5 63:6,20,20 91:9,11      93:18 97:5 100:9 107:14      112:3,12 115:5 129:17      147:17,18 156:21 157:25      158:25 159:1 167:22      169:1,3 172:19 179:1,1      179:3 180:25 189:25      190:16 192:19 194:13      196:2  <b>update</b> [2] 130:22 131:14  <b>updated</b> [3] 24:18,22      26:4  <b>upgraded</b> [1] 55:9  <b>usage</b> [1] 104:7  <b>used</b> [32] 8:25 11:22      15:19 23:13 27:1 32:16      34:7 35:8 52:23 69:18      70:10,14 72:24 73:10,17      73:18 76:13 86:20 88:11      106:24,24 107:25 111:9      113:6 128:11 133:6      134:17 142:1 145:21      174:3 176:18 179:10  <b>useful</b> [1] 167:7  <b>useless</b> [1] 181:21  <b>user</b> [3] 8:16 19:3 109:20  <b>users</b> [1] 115:24  <b>uses</b> [3] 103:5 109:1,6  <b>using</b> [12] 6:13 11:15      22:1,4 31:23 32:14 35:22      102:8 111:17 144:9,22      191:8  <b>usually</b> [1] 94:22</p> <hr/> <p style="text-align: center;"><b>-V-</b></p> <hr/> <p><b>valid</b> [4] 121:12 153:20</p>
---	--	--	---	---

<p>153:22 154:3  <b>validate</b> [8] 6:16 71:11                  72:9 130:23 140:5 179:8                  179:21 180:5  <b>validated</b> [2] 6:20 22:3  <b>validating</b> [7] 13:25                  131:17 133:11 141:11,24                  141:25,25  <b>validation</b> [23] 4:22 8:21                  23:14 27:2,4 35:20,22                  35:23 69:18 72:1 73:5                  99:25 121:24 131:14,16                  139:21 141:1,15,18                  178:19 180:8 191:4,9  <b>validity</b> [1] 154:2  <b>value</b> [1] 77:25  <b>variations</b> [1] 76:10  <b>variety</b> [1] 32:16  <b>various</b> [1] 184:16  <b>vary</b> [2] 73:19,24  <b>Ventana</b> [2] 9:24 73:22  <b>verbiage</b> [1] 35:13  <b>verification</b> [1] 5:2  <b>verified</b> [1] 9:8  <b>verify</b> [1] 98:22  <b>versed</b> [3] 140:24 141:9                  143:22  <b>verses</b> [1] 153:11  <b>version</b> [2] 26:5 39:17  <b>versus</b> [3] 9:1 106:2                  191:4  <b>vial</b> [1] 129:18  <b>view</b> [4] 21:22 36:7 153:4                  153:18  <b>viewed</b> [1] 98:3  <b>views</b> [2] 96:17 128:15  <b>visibility</b> [1] 54:15  <b>visit</b> [7] 24:2,23 29:20                  47:16 157:24,24 168:8  <b>vitae</b> [2] 101:11 126:16  <b>vital</b> [1] 54:24  <b>volume</b> [1] 74:22  <b>voluntary</b> [1] 82:5</p> <hr/> <p style="text-align: center;"><b>-W-</b></p> <hr/> <p><b>wait</b> [1] 159:17  <b>waiting</b> [2] 14:10 192:22  <b>walk</b> [1] 130:20  <b>walking</b> [1] 110:15  <b>warrants</b> [1] 56:23  <b>waste</b> [1] 94:7  <b>water</b> [2] 107:7,8  <b>ways</b> [2] 32:16 63:17  <b>weaker</b> [1] 7:10  <b>wealth</b> [1] 78:12  <b>Wednesday</b> [1] 49:7  <b>week</b> [3] 151:21 190:21                  192:20  <b>weekends</b> [1] 131:2  <b>weekly</b> [1] 63:6  <b>weeks</b> [2] 24:23 52:10</p>	<p><b>Wegrzynowski</b> [552]                  1:18 2:2 4:3,7,8 5:6,18                  5:21,25 6:6,11 7:1,9,22                  8:3,8 9:3,11 10:1,6,25                  11:8,14,19 12:1,14,23                  13:2,12,19 14:12,20 15:2                  15:10,22 16:3,9,22 17:18                  17:22 18:8,14 19:5,14                  20:4,21 21:23 23:7,20                  23:23 24:10,19 25:9,16                  25:22 26:1,7,13 27:5,11                  27:14 28:4,24 29:21 30:6                  30:10,13,18,24 31:11,16                  33:4,9,14,24 34:5 38:8                  38:12,16,21 39:9,23 40:7                  40:24 41:17,21 42:3,9                  42:17,22 43:2,6,14,20                  44:3,12,17,25 45:12,20                  46:10,17 47:1,4,8,14,19                  47:25 48:4,9,14,18,22                  49:4,12,23 50:7,18,21                  50:23 51:3,10,17 52:2,7                  52:11,16,25 53:3,9,21                  57:6,7,12,16,20,23 58:3                  58:9,13,17,21 59:19 60:7                  60:12,21 61:6,13,19 62:4                  62:8,16 63:2,7,14,23                  64:7,13,20 65:2,12,24                  66:9,20 67:5,11,17 68:1                  68:11,19,25 69:4,8,14                  69:21 70:9,15,20 71:16                  71:22 72:3,12,20 73:6                  73:11 74:1,7,13,20 75:3                  75:8,13,17,21,25 76:6                  76:16,24 77:6,11,16,21                  78:4,21 79:2,8,15 80:1,7                  80:13,24 81:3,7,14,21                  82:1,8,13,18 83:1,6,20                  83:25 84:4,11,16,22 85:2                  85:7,11,15,20 86:1,7,16                  86:22 87:4,8,14,19 88:1                  88:16,22 89:4,12,18,23                  90:9,16,23 91:7,13,18                  91:22 92:1,8,17,22 93:2                  93:8,15 94:1,13,21 95:4                  95:11,17,23 96:3,23                  97:15,22 98:5,16 99:7                  100:4,8,14 101:2,4,19                  101:23 102:14,20 103:7                  103:14,21 104:3,8,15,21                  105:8,16,22 106:4,8,12                  106:19 107:4,21 108:3                  108:10,21 109:3,8,14,19                  110:5,10,20,25 111:5,12                  111:19,23 112:9,18 113:1                  113:8,13,20 114:3,7,14                  114:24 115:4,12,19 116:3                  116:13,20,23 117:9,16                  117:23 118:3,8,23 119:3                  119:12,21 120:5,10,17                  121:1,6,13,21 122:8,14                  122:20 123:4,19,23 124:4                  124:10,16 125:2,13,19                  126:3,7,12,21 127:1,8                  127:13 128:7,17 129:6                  130:5,12 131:4,15,25                  132:6,12,19 133:5,17                  134:1,10,15,22 135:2,8                  135:13,22 136:5,12,18                  136:23 137:6,10,15 138:3                  138:9,17 139:5,12,25                  140:13,21 141:6,14,20                  142:5,10,18 143:2,8,17</p>	<p>144:8,13,21 145:5,11,17                  145:24 146:8,22 147:1                  147:11 148:3,9,15,19,25                  149:4,16,21 150:4,10,14                  150:21 151:6,14,22 152:2                  152:14,18 153:6,13 154:7                  154:21 155:3,10,25                  156:11,19 157:4,9,17                  158:3,10,15 159:4,11,20                  160:2,10,15,25 161:6                  162:25 163:5,18 164:9                  164:18,23 165:4,11,17                  165:23 166:3,9,15,19                  167:8,13,21 168:2,9,12                  168:14 169:12,17 170:24                  171:9,17,23 172:8,14                  173:10,19 174:5,10,19                  174:23 175:10,19,24                  176:10,20,25 177:5,9,17                  177:25 178:9,14,20,24                  179:9,13,22 180:1,9,13                  180:17,21 181:7,15,20                  181:25 182:4,19,24 183:9                  183:12,20 184:3,23 186:9                  186:24 187:13,22 188:2                  188:7,13,24 189:4,12,17                  189:21 190:5,14 191:7                  192:2,3,12,18  <b>Wegrzynowski's</b> [2]                  49:22 50:2  <b>weighing</b> [1] 53:23  <b>welcome</b> [4] 57:8 58:14                  144:14 175:9  <b>well-defined</b> [1] 55:14  <b>Western</b> [1] 1:16  <b>whatsoever</b> [1] 194:25  <b>whereas</b> [2] 158:8 159:7  <b>whole</b> [5] 5:13 45:23                  107:18 111:4 115:10  <b>Williams</b> [1] 31:8  <b>wish</b> [1] 175:13  <b>within</b> [13] 19:2 24:22                  37:19 49:3 55:3 83:24                  133:4 149:24 150:1 193:4                  195:22,24 196:5  <b>without</b> [4] 6:16 8:13                  12:7 43:19  <b>witness</b> [5] 86:13 185:5                  192:19 193:6,15  <b>witnesses</b> [1] 70:14  <b>Women's</b> [1] 68:18  <b>wonder</b> [2] 59:12 168:23  <b>wondered</b> [1] 183:23  <b>wondering</b> [9] 30:2                  100:18 121:16 131:10                  139:3 163:14,21 167:3                  187:16  <b>Woodland</b> [1] 1:7  <b>word</b> [5] 29:22 40:8                  144:22 167:12 172:22  <b>worked</b> [4] 69:13 78:9                  78:25 90:8  <b>works</b> [1] 96:4  <b>workshops</b> [2] 138:1,8  <b>worth</b> [1] 50:3  <b>write</b> [1] 16:25</p>	<p><b>writing</b> [3] 136:9 144:6                  154:15  <b>written</b> [7] 12:16 26:2                  51:4 76:14 132:22 143:19                  171:10  <b>wrong</b> [1] 174:22  <b>wrote</b> [5] 8:10 23:16                  117:11 148:20 171:1</p> <hr/> <p style="text-align: center;"><b>-X-</b></p> <hr/> <p><b>X-press</b> [1] 14:18</p> <hr/> <p style="text-align: center;"><b>-Y-</b></p> <hr/> <p><b>y</b> [2] 55:21 56:13  <b>year</b> [8] 38:13,17,19,25                  40:15 53:12 83:7 159:16  <b>years</b> [14] 39:6 53:24                  77:19,22 83:21,24 84:3                  84:6 85:24 87:3,23                  101:17 159:16 188:20  <b>yesterday</b> [22] 5:22 8:7                  10:5 14:19 23:25 24:15                  102:25 105:12 107:24                  110:8 113:12,22 114:8                  114:17 142:14 145:9                  154:5 163:25 169:14                  172:13 179:7 180:25  <b>yet</b> [8] 10:23 12:13,18,21                  15:13 16:2 44:9 54:7  <b>yourself</b> [9] 24:4,7 25:4                  28:19 61:4 136:4 137:14                  138:13 156:15</p>
--	--	---	---